[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Namespaces

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<th>Namespace</th>
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<td>Microsoft.WindowsAzure</td>
</tr>
<tr>
<td>Microsoft.WindowsAzure.StorageClient</td>
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[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Classes

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<th>Description</th>
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<td><strong>CloudStorageAccount</strong></td>
<td>Represents a Windows Azure storage account.</td>
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<tr>
<td><strong>StorageCredentials</strong></td>
<td>Represents a set of credentials used to authenticate access to a Windows Azure storage account.</td>
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<tr>
<td><strong>StorageCredentialsAccountAndKey</strong></td>
<td>Represents storage account credentials for accessing the Windows Azure storage services.</td>
</tr>
<tr>
<td><strong>StorageCredentialsSharedAccessSignature</strong></td>
<td>Represents storage credentials for delegated access to Blob service resources via a shared access signature.</td>
</tr>
</tbody>
</table>
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a Windows Azure storage account.

**Namespace:** Microsoft.WindowsAzure  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
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<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim instance As <code>CloudStorageAccount</code></td>
</tr>
</tbody>
</table>
## Syntax

### Visual Basic

Public NotInheritable Class CloudStorageAccount

### C#

public sealed class CloudStorageAccount

### C++

public ref class CloudStorageAccount sealed

### J#

### JScript
- **Inheritance Hierarchy**
  - `System.Object`
  - `Microsoft.WindowsAzure.CloudStorageAccount`
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudStorageAccount Members
Microsoft.WindowsAzure Namespace

Other Resources
Authenticating Access to Your Storage Account
Represents a Windows Azure storage account.

The following tables list the members exposed by the `CloudStorageAccount` type.
## Public Constructors

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<td>Credentials</td>
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</tr>
<tr>
<td>DevelopmentStorageAccount</td>
<td>Gets a <a href="#">CloudStorageAccount</a> object that references the development storage account.</td>
</tr>
<tr>
<td>QueueEndpoint</td>
<td>Gets the endpoint for the Queue service, as configured for the storage account.</td>
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<td>Gets the endpoint for the Table service, as configured for the storage account.</td>
</tr>
<tr>
<td>Name</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>🏷 Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>🛑 FromConfigurationSetting</td>
<td>Create a new instance of a CloudStorageAccount object from a specified configuration setting. This method may be called only after the SetConfigurationSettingPublisher method has been called to configure the global configuration setting publisher.</td>
</tr>
<tr>
<td>🛑 GetHashCode</td>
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<tr>
<td>🛑 Parse</td>
<td>Parses a connection string and returns a CloudStorageAccount created from the connection string.</td>
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<tr>
<td>🛑 SetConfigurationSettingPublisher</td>
<td>Sets the global configuration setting publisher for the storage account, which will be called when the account access keys are updated in the service configuration file.</td>
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<td>Indicates whether a connection string can be parsed to return a CloudStorageAccount object.</td>
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## Protected Methods (see also Extension Methods)

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<td>(Inherited from <strong>Object</strong>)</td>
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<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>CreateCloudBlobClient</td>
<td>Creates a new Blob service client. (Defined by CloudStorageAccountStorageClientExtensions.)</td>
</tr>
<tr>
<td>CreateCloudDrive</td>
<td>(Defined by CloudStorageAccountCloudDriveExtensions.)</td>
</tr>
<tr>
<td>CreateCloudQueueClient</td>
<td>Creates a new Queue service client. (Defined by CloudStorageAccountStorageClientExtensions.)</td>
</tr>
<tr>
<td>CreateCloudTableClient</td>
<td>Creates the Table service client. (Defined by CloudStorageAccountStorageClientExtensions.)</td>
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</table>
See Also

Reference
CloudStorageAccount Class
Microsoft.WindowsAzure Namespace

Other Resources
Authenticating Access to Your Storage Account
CloudStorageAccount Constructor

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<td><code>CloudStorageAccount(StorageCredentials, Uri, Uri, Uri)</code></td>
<td>Initializes a new instance of the <code>CloudStorageAccount</code> class using the specified account credentials and service endpoints.</td>
</tr>
<tr>
<td><code>CloudStorageAccount(StorageCredentialsAccountAndKey, Boolean)</code></td>
<td>Initializes a new instance of the <code>CloudStorageAccount</code> class using the specified account credentials and the default service endpoints.</td>
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See Also

Reference
CloudStorageAccount Class
CloudStorageAccount Members
Microsoft.WindowsAzure Namespace

Other Resources
Authenticating Access to Your Storage Account
CloudStorageAccount Constructor (StorageCredentials, Uri, Uri, Uri)

See Also

This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.

Initializes a new instance of the CloudStorageAccount class using the specified account credentials and service endpoints.

Namespace: Microsoft.WindowsAzure
**Usage**

**Visual Basic**

```vbs
Dim storageCredentials As StorageCredentials
Dim blobEndpoint As Uri
Dim queueEndpoint As Uri
Dim tableEndpoint As Uri

Dim instance As New CloudStorageAccount(storageCredentials)
```
<table>
<thead>
<tr>
<th>Syntax</th>
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<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td><code>vbnet</code></td>
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</table>
| Public Sub New ( _  
|   storageCredentials As `StorageCredentials`, _  
|   blobEndpoint As `Uri`, _  
|   queueEndpoint As `Uri`, _  
|   tableEndpoint As `Uri` _  
| ) |   |
| **C#** |   |
| ```csharp``` |   |
| public `CloudStorageAccount` (  
|   `StorageCredentials` storageCredentials,  
|   `Uri` blobEndpoint,  
|   `Uri` queueEndpoint,  
|   `Uri` tableEndpoint  
| ) |   |
| **C++** |   |
| ```cpp``` |   |
| public:  
| `CloudStorageAccount` (  
|   `StorageCredentials`^ storageCredentials,  
|   `Uri`^ blobEndpoint,  
|   `Uri`^ queueEndpoint,  
|   `Uri`^ tableEndpoint  
| ) |   |
| **J#** |   |
| ```jscript``` |   |
| **JScript** |   |
Parameters

storageCredentials
Type: Microsoft.WindowsAzure.StorageCredentials

The account credentials.

blobEndpoint
Type: System.Uri

The Blob service endpoint.

queueEndpoint
Type: System.Uri

The Queue service endpoint.

tableEndpoint
Type: System.Uri

The Table service endpoint.
Remarks

Use this constructor to construct a CloudStorageAccount using custom endpoints, in the case where you've configured a custom domain name for your storage account.
Platforms

Development Platforms
See Also

Reference
CloudStorageAccount Class
CloudStorageAccount Members
Microsoft.WindowsAzure Namespace

Other Resources
Authenticating Access to Your Storage Account
CloudStorageAccount Constructor (StorageCredentialsAccountAndKey, Boolean)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudStorageAccount class using the specified account credentials and the default service endpoints.

Namespace: Microsoft.WindowsAzure
Visual Basic

Dim storageCredentialsAccountAndKey As StorageCredentialsAccountAndKey
Dim useHttps As Boolean

Dim instance As New CloudStorageAccount(storageCredentialsAccountAndKey, useHttps)
## Syntax

### Visual Basic

```vbnet
Public Sub New (_
    storageCredentialsAccountAndKey As StorageCredentialsAccountAndKey,
    useHttps As Boolean _)```

### C#

```csharp
public CloudStorageAccount (  
    StorageCredentialsAccountAndKey storageCredentialsAccountAndKey,
    bool useHttps
)
```

### C++

```cpp
public:
 CloudStorageAccount (  
    StorageCredentialsAccountAndKey^ storageCredentialsAccountAndKey,
    bool useHttps
)
```

### J#

JScript

### Parameters

*storageCredentialsAccountAndKey*

Type: [Microsoft.WindowsAzure.StorageCredentialsAccountAndKey](#)

An object of type *StorageCredentialsAccountAndKey* that specifies the account name and account key for the storage account.
**useHttps**

Type: [System.Boolean](https://docs.microsoft.com/en-us/dotnet/api/system.boolean)

*True* to use HTTPS to connect to storage service endpoints; otherwise, *false*. 
The `CloudStorageAccount` object is constructed using the default storage service endpoints. The default storage service endpoints are [http|https]://myaccount.blob.core.windows.net; [http|https]://myaccount.queue.core.windows.net; and [http|https]://myaccount.table.core.windows.net, where `myaccount` is the name of your storage account.

Access to the `CloudStorageAccount` may be via HTTP or HTTPS, as specified by the `useHttps` parameter.

**Important**

HTTPS can be required when a proxy server configuration blocks HTTP traffic or modifies HTTP request headers, causing requests to fail.

The credentials provided when constructing the `CloudStorageAccount` object are used to authenticate all further requests against resources that are accessed via the `CloudStorageAccount` object or a client object created from it. A client object may be a `CloudBlobClient`, `CloudQueueClient`, or `CloudTableClient`.

The following code example creates an object of type `StorageCredentialsAccountAndKey`, then constructs the `CloudStorageAccount`, followed by a `CloudBlobClient` object. Pass in your account name and account key for the `accountName` and `accountKey` variables:

```csharp
StorageCredentialsAccountAndKey credentials = new StorageCredentialsAccountAndKey(accountName, accountKey);
CloudStorageAccount storageAccount = new CloudStorageAccount(credentials, true);
CloudBlobClient blobClient = storageAccount.CreateCloudBlobClient();
```
Platforms

Development Platforms
Change History
See Also

Reference
CloudStorageAccount Class
CloudStorageAccount Members
Microsoft.WindowsAzure Namespace

Other Resources
Authenticating Access to Your Storage Account
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<td>Equals (Inherited from Object)</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>FromConfigurationSetting</td>
<td>Create a new instance of a CloudStorageAccount object from a specified configuration setting. This method may be called only after the SetConfigurationSettingPublisher method has been called to configure the global configuration setting publisher.</td>
</tr>
<tr>
<td>GetHashCode (Inherited from Object)</td>
<td>(Inherited from Object)</td>
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<td>GetType (Inherited from Object)</td>
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<tr>
<td>Parse</td>
<td>Parses a connection string and returns a CloudStorageAccount created from the connection string.</td>
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<tr>
<td>SetConfigurationSettingPublisher</td>
<td>Sets the global configuration setting publisher for the storage account, which will be called when the account access keys are updated in the service configuration file.</td>
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<tr>
<td>ToString</td>
<td>Overloaded. Overridden.</td>
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<tr>
<td>TryParse</td>
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<tr>
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<td><code>MemberwiseClone</code></td>
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<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
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<td>CreateCloudBlobClient</td>
<td>Creates a new Blob service client. (Defined by CloudStorageAccountStorageClientExtensions.)</td>
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<td>CreateCloudDrive</td>
<td>(Defined by CloudStorageAccountCloudDriveExtensions.)</td>
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<tr>
<td>CreateCloudQueueClient</td>
<td>Creates a new Queue service client. (Defined by CloudStorageAccountStorageClientExtensions.)</td>
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<td>CreateCloudTableClient</td>
<td>Creates the Table service client. (Defined by CloudStorageAccountStorageClientExtensions.)</td>
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See Also

Reference
CloudStorageAccount Class
Microsoft.WindowsAzure Namespace

Other Resources
Authenticating Access to Your Storage Account
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Create a new instance of a `CloudStorageAccount` object from a specified configuration setting. This method may be called only after the `SetConfigurationSettingPublisher` method has been called to configure the global configuration setting publisher.

**Namespace:** Microsoft.WindowsAzure  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim settingName As String
Dim returnValue As CloudStorageAccount

returnValue = CloudStorageAccount.FromConfigurationSetting
```
### Syntax

**Visual Basic**

Public Shared Function FromConfigurationSetting (  
    settingName As String  
) As CloudStorageAccount

**C#**

public static CloudStorageAccount FromConfigurationSetting(  
    string settingName  
)

**C++**

public:  
static CloudStorageAccount^ FromConfigurationSetting(  
    String^ settingName  
)

**J#**

**JScript**

**Parameters**

*settingName*

Type: **System.String**

The name of the configuration setting.

**Return Value**
Type: `Microsoft.WindowsAzure.CloudStorageAccount`

A `CloudStorageAccount` constructed from the values in the configuration string
### Exceptions

<table>
<thead>
<tr>
<th>Exception type</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>InvalidOperationException</code></td>
<td>Thrown if the global configuration setting publisher has not been configured, or if the configuration setting cannot be found.</td>
</tr>
</tbody>
</table>
Remarks

For more information about using connection strings, see Configuring Connection Strings.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
See Also

Reference

CloudStorageAccount Class
CloudStorageAccount Members
Microsoft.WindowsAzure Namespace


CloudStorageAccount.Parse Method

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Parses a connection string and returns a CloudStorageAccount created from the connection string.

Namespace: Microsoft.WindowsAzure
Usage

Visual Basic

Dim value As String
Dim returnValue As CloudStorageAccount

returnValue = CloudStorageAccount.Parse(value)
## Syntax

### Visual Basic

```vbnet
Public Shared Function Parse ( _
    value As String _
) As CloudStorageAccount
```

### C#

```csharp
public static CloudStorageAccount Parse (string value)
```

### C++

```cpp
public:
static CloudStorageAccount^ Parse (String^ value)
```

### J#

```jsharp

```

### JScript

```js

```

## Parameters

**value**

Type: **System.String**

A valid connection string.

## Return Value

Type: **Microsoft.WindowsAzure.CloudStorageAccount**
A CloudStorageAccount object constructed from the values provided in the connection string.
Example

The following code example parses a connection string and returns a `CloudStorageAccount` object, then lists account, credential, and endpoint information.

```csharp
static void ParseCloudStorageAccountFromConnectionString()
{
    CloudStorageAccount storageAccount = CloudStorageAccount.Parse(ConfigurationManager.AppSettings["StorageAccountConnectionString"]);

    Console.WriteLine("Connection string: {0}", storageAccount.ToString(true));
    Console.WriteLine("Account name: {0}", storageAccount.Credentials.AccountName);
    Console.WriteLine("Account key: {0}", ((StorageCredentialsAccountAndKey)storageAccount.Credentials).Credentials.ExportBase64EncodedKey());
    Console.WriteLine("Blob endpoint: {0}", storageAccount.BlobEndpoint);
    Console.WriteLine("Queue endpoint: {0}", storageAccount.QueueEndpoint);
    Console.WriteLine("Table endpoint: {0}", storageAccount.TableEndpoint);
}
```
## Exceptions

<table>
<thead>
<tr>
<th>Exception type</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>ArgumentNullException</td>
<td>Thrown if value is null or empty.</td>
</tr>
<tr>
<td>FormatException</td>
<td>Thrown if value is not a valid connection string.</td>
</tr>
<tr>
<td>ArgumentException</td>
<td>Thrown if value cannot be parsed.</td>
</tr>
</tbody>
</table>
Remarks

The **Parse** method parses a connection string and returns a reference to a **CloudStorageAccount** object. For details on working with connection strings, see [How to Configure Connection Strings](#).
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudStorageAccount Class
CloudStorageAccount Members
Microsoft.WindowsAzure Namespace

Other Resources
Authenticating Access to Your Storage Account
Sets the global configuration setting publisher for the storage account, which will be called when the account access keys are updated in the service configuration file.

**Namespace:** Microsoft.WindowsAzure

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim configurationSettingPublisher As Action(Of String)
CloudStorageAccount.SetConfigurationSettingPublisher(...
```
## Syntax

### Visual Basic

```vbnet
Public Shared Sub SetConfigurationSettingPublisher (config As Action(Of String))
```

### C#

```csharp
public static void SetConfigurationSettingPublisher (Action<string, Func<string, bool>> config)
```

### C++

```cpp
public: static void SetConfigurationSettingPublisher (Action<String^, Func<String^, bool>^>^ config)
```

### J#

```jsharp

```

### JScript

```

```

## Parameters

- **configurationSettingPublisher**
  - Type: `System.Action`

  The configuration setting publisher for the storage account.
Remarks

A configuration setting publisher allows adding subscribers for configuration settings. Subscribers are notified when a configuration setting changes, so that a role can determine whether or not to recycle on a given configuration change. This may be useful in the event that storage account access keys are regenerated and updated in a connection string in the service configuration file.

The following code sets a configurationSettingPublisher function by passing in an anonymous function created using nested lambda expressions. This handler function updates CloudStorageAccount instances when their corresponding configuration settings change in the service configuration file:

C#
CloudStorageAccount.SetConfigurationSettingPublisher
(
    (configName, configSetter) =>
    {
        // Provide the configSetter with the initial value
        configSetter(RoleEnvironment.GetConfigurationSettingValue(configName));

        RoleEnvironment.Changed += (sender, arg) =>
        {
            if (arg.Changes.OfType<RoleEnvironmentConfigurationSettingChange>()
                .Any(change => change.ConfigurationSettingName == configName))
            {
                // The corresponding configuration setting has changed,
                if (!configSetter(RoleEnvironment.GetConfigurationSettingValue(configName)))
                {
                    // In this case, the change to the storage account credentials
                    // service configuration is significant enough that the
                    // recycled in order to use the latest settings (for ex:
                    // endpoint may have changed)
                    RoleEnvironment.RequestRecycle();
                }
            }
        }
    };
);
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudStorageAccount Class
CloudStorageAccount Members
Microsoft.WindowsAzure Namespace

Other Resources
Reading Configuration Settings for the Storage Client Library and Handling Changed Settings
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudStorageAccount.ToString()</code></td>
<td>Returns a connection string for this storage account, without sensitive data.</td>
</tr>
<tr>
<td><code>CloudStorageAccount.ToString(Boolean)</code></td>
<td>Returns a connection string for the storage account, optionally with sensitive data.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudStorageAccount Class
CloudStorageAccount Members
Microsoft.WindowsAzure Namespace

Other Resources
Authenticating Access to Your Storage Account
Returns a connection string for this storage account, without sensitive data.

**Namespace:** Microsoft.WindowsAzure

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Dim instance As **CloudStorageAccount**  
Dim returnValue As **String**  

returnValue = instance.ToString
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Overrides Function ToString As String</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public override string ToString ()</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: virtual String^ ToString () override</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>

**Return Value**

Type: `System.String`

A connection string.
Example

The following code example creates a reference to a storage account from a connection string, then writes out the connection string, without sensitive data.

```csharp
static void GetConnectionString()
{
    //Parse a connection string and return a reference
    CloudStorageAccount storageAccount = CloudStorageAccount.Parse(ConfigurationManager.AppSettings["StorageAccountConnectionString"]);

    //Output the connection string, omitting sensitive
data
    Console.WriteLine("Connection string without sensitive data: "+storageAccount.ToString());
}
```
Remarks

The string returned omits any sensitive information such as account key data or shared access tokens. The value returned will be in a format similar to the following example:

```
DefaultEndpointsProtocol=https;AccountName=mystorageaccount;AccountKey=[key hidden]
```

To return sensitive information in the string, call `ToString` and pass in `true` for the `exportSecrets` parameter.
- **Thread Safety**
  
  Any public static *(Shared in Visual Basic)* members of this type are thread safe.
  
  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudStorageAccount Class
CloudStorageAccount Members
Microsoft.WindowsAzure Namespace

Other Resources
Authenticating Access to Your Storage Account
Returns a connection string for the storage account, optionally with sensitive data.

**Namespace:** Microsoft.WindowsAzure

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudStorageAccount
Dim exportSecrets As Boolean
Dim returnValue As String

returnValue = instance.ToString(exportSecrets)
```
### Syntax

#### Visual Basic

```vbnet
Public Function ToString ( _
    exportSecrets As Boolean _
) As String
```

#### C#

```csharp
public string ToString (  
    bool exportSecrets

```

#### C++

```cpp
public:
String^ ToString (  
    bool exportSecrets

```

#### J#

```jsharp
```

#### JScript

```jscript
```

### Parameters

- **exportSecrets**
  - Type: `System.Boolean`
  - **True** to include sensitive data in the string; otherwise, **false**.

### Return Value

- Type: `System.String`
A connection string.
Example

The following code example creates a reference to a storage account from a connection string, then writes out the connection string, with sensitive data.

```csharp
static void GetConnectionString()
{
    //Parse a connection string and return a reference
    CloudStorageAccount storageAccount = CloudStorageAccount.Parse(ConfigurationManager.AppSettings["StorageAccountConnectionString"]);
    //Output the connection string with sensitive data
    Console.WriteLine("Connection string with sensitive data: 
    ");
}
```
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudStorageAccount Class
CloudStorageAccount Members
Microsoft.WindowsAzure Namespace

Other Resources
Authenticating Access to Your Storage Account
CloudStorageAccount.TryParse Method

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Indicates whether a connection string can be parsed to return a CloudStorageAccount object.

Namespace: Microsoft.WindowsAzure
## Usage

**Visual Basic**

```vbnet
Dim value As String
Dim account As CloudStorageAccount
Dim returnValue As Boolean

returnValue = CloudStorageAccount.TryParse(value, account)
```
## Syntax

### Visual Basic

```vbnet
Public Shared Function TryParse ( _
    value As String, _
    <OutAttribute> ByRef account As CloudStorageAccount
) As Boolean
```

### C#

```csharp
public static bool TryParse (  
    string value,  
    out CloudStorageAccount account
)
```

### C++

```cpp
public:
static bool TryParse (  
    String^ value,  
    [OutAttribute] CloudStorageAccount^% account
)
```

### J#

```jsharp```

### JScript

```jscript```

## Parameters

**value**

Type: `System.String`

The connection string to parse.
account

    A CloudStorageAccount object to hold the instance returned if the connection string can be parsed.

Return Value

Type: System.Boolean

true if the connection string was successfully parsed; otherwise, false.
The following code example attempts to parse a connection string and return a `CloudStorageAccount` object, then lists account, credential, and endpoint information.

```csharp
static void TryParseCloudStorageAccountFromConnectionString()
{
    CloudStorageAccount storageAccount;
    if (CloudStorageAccount.TryParse(ConfigurationManager.AppSettings["StorageAccountConnectionString"], out storageAccount))
    {
        Console.WriteLine("Connection string: {0}", storageAccount.ToString(true));
        Console.WriteLine("Account name: {0}", storageAccount.Credentials.AccountName);
        Console.WriteLine("Account key: {0}", ((StorageCredentialsAccountAndKey)storageAccount.Credentials).Credentials.ExportBase64EncodedKey());
        Console.WriteLine("Blob endpoint: {0}", storageAccount.BlobEndpoint);
        Console.WriteLine("Queue endpoint: {0}", storageAccount.QueueEndpoint);
        Console.WriteLine("Table endpoint: {0}", storageAccount.TableEndpoint);
    }
    else
    {
        Console.WriteLine("The connection string could not be parsed.");
    }
}
```
Remarks

The **TryParse** method attempts to parse a connection string and returns a reference to a **CloudStorageAccount** object. For details on working with connection strings, see [How to Configure Connection Strings](#).
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.
  Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
Change History
See Also

Reference
CloudStorageAccount Class
CloudStorageAccount Members
Microsoft.WindowsAzure Namespace

Other Resources
Authenticating Access to Your Storage Account
CloudStorageAccount Properties

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

<table>
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<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BlobEndpoint</strong></td>
<td>Gets the endpoint for the Blob service, as configured for the storage account.</td>
</tr>
<tr>
<td><strong>Credentials</strong></td>
<td>Gets the credentials used to create this <a href="#">CloudStorageAccount</a> object.</td>
</tr>
<tr>
<td><strong>DevelopmentStorageAccount</strong></td>
<td>Gets a <a href="#">CloudStorageAccount</a> object that references the development storage account.</td>
</tr>
<tr>
<td><strong>QueueEndpoint</strong></td>
<td>Gets the endpoint for the Queue service, as configured for the storage account.</td>
</tr>
<tr>
<td><strong>TableEndpoint</strong></td>
<td>Gets the endpoint for the Table service, as configured for the storage account.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudStorageAccount Class
Microsoft.WindowsAzure Namespace

Other Resources
Authenticating Access to Your Storage Account
CloudStorageAccount.BlobEndpoint Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the endpoint for the Blob service, as configured for the storage account.

**Namespace:** Microsoft.WindowsAzure  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudStorageAccount
Dim value As Uri

value = instance.BlobEndpoint
## Syntax

### Visual Basic

Public Property BlobEndpoint As Uri

### C#

public Uri BlobEndpoint { get; }

### C++

public: property Uri^ BlobEndpoint {
    Uri^ get ();
}

### J#


### JScript


## Property Value

Type: [System.Uri](https://msdn.microsoft.com/en-us/library/system.uri)

The Blob service endpoint.
Remarks

The default Blob service endpoint is [http|https]://myaccount.blob.core.windows.net, where myaccount is the name of your Windows Azure storage account.

It's also possible to define a custom endpoint for the Blob service, either within connection string, or passed directly to the CloudStorageAccount constructor. You may wish to define a custom endpoint if you've mapped a custom domain to your Windows Azure storage account.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudStorageAccount Class
CloudStorageAccount Members
Microsoft.WindowsAzure Namespace

Other Resources
Authenticating Access to Your Storage Account
CloudStorageAccount.Credentials Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the credentials used to create this CloudStorageAccount object.

Namespace: Microsoft.WindowsAzure
## Usage

### Visual Basic

Dim instance As CloudStorageAccount  
Dim value As StorageCredentials  

value = instance.Credentials
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
<td>Public Property Credentials As <code>StorageCredentials</code></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td></td>
<td>public <code>StorageCredentials</code> Credentials { get; }</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td></td>
<td>public: property <code>StorageCredentials</code>^ Credentials { <code>StorageCredentials</code>^ get (); }</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

Type: [Microsoft.WindowsAzure.StorageCredentials](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storagecredentials)

The credentials used to create the [CloudStorageAccount](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage.cloudstorageaccount) object.
Remarks

The credentials associated with a CloudStorageAccount object are used to authenticate access to the storage account.
- **Thread Safety**
  Any public static (Shared in Visual Basic) members of this type are thread safe.
  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudStorageAccount Class
CloudStorageAccount Members
Microsoft.WindowsAzure Namespace

Other Resources
Authenticating Access to Your Storage Account
CloudStorageAccount.DevelopmentStorageAccount Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a CloudStorageAccount object that references the development storage account.

**Namespace:** Microsoft.WindowsAzure  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim value As CloudStorageAccount

value = CloudStorageAccount.DevelopmentStorageAccount
```
## Syntax

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public Shared Readonly Property DevelopmentStorageAccount</td>
<td></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public static <code>CloudStorageAccount</code> DevelopmentStorageAccount</td>
<td></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td></td>
</tr>
<tr>
<td>public: static property <code>CloudStorageAccount</code> &amp; DevelopmentStorageAccount</td>
<td></td>
</tr>
<tr>
<td></td>
<td>{</td>
</tr>
<tr>
<td></td>
<td><code>CloudStorageAccount</code> &amp; get ();</td>
</tr>
<tr>
<td></td>
<td>}</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Property Value


A reference to the development storage account.
Remarks

**Important**

Before running code that references this property, be sure that you are running the Windows Azure storage emulator in your local development environment.

This property is useful when you are writing code that will access only development storage. However, you should not use this property in code that you deploy to Windows Azure, as the development storage account is not available in Windows Azure.

If you will want to switch your code from running against development storage to running against a Windows Azure storage account, consider using a connection string instead. You can quickly update the values in a connection string. For details on creating connection strings, see [How to Configure Connection Strings](#).
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudStorageAccount Class
CloudStorageAccount Members
Microsoft.WindowsAzure Namespace

Other Resources
Authenticate Access to Your Storage Account
CloudStorageAccount.QueueEndpoint Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the endpoint for the Queue service, as configured for the storage account.

**Namespace:** Microsoft.WindowsAzure

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudStorageAccount
Dim value As Uri

value = instance.QueueEndpoint
**Syntax**

**Visual Basic**

```vbnet
Public Property QueueEndpoint As Uri
```

**C#**

```csharp
public Uri QueueEndpoint { get; }
```

**C++**

```cpp
public:
property Uri^ QueueEndpoint { 
    Uri^ get ();
}
```

**J#**

**JScript**

**Property Value**

Type: `System.Uri`

The Queue service endpoint.
Remarks

The default Queue service endpoint is [http|https]://myaccount.queue.core.windows.net, where myaccount is the name of your Windows Azure storage account.

It's also possible to define a custom endpoint for the Queue service, either within a connection string, or passed directly to the CloudStorageAccount constructor. You may wish to define a custom endpoint if you've mapped a custom domain to your Windows Azure storage service.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudStorageAccount Class
CloudStorageAccount Members
Microsoft.WindowsAzure Namespace

Other Resources
Authenticating Access to Your Storage Account
CloudStorageAccount.TableEndpoint Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the endpoint for the Table service, as configured for the storage account.

**Namespace:** Microsoft.WindowsAzure

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudStorageAccount
Dim value As Uri

value = instance.TableEndpoint
```
## Syntax

**Visual Basic**

```vbnet
Public Property TableEndpoint As Uri
```

**C#**

```csharp
public Uri TableEndpoint { get; }
```

**C++**

```cpp
public: property Uri^ TableEndpoint {
    Uri^ get ();
}
```

**J#**

```
```

**JScript**

```
```

### Property Value

Type: [System.Uri](https://docs.microsoft.com/en-us/dotnet/api/system.uri)

The Table service endpoint.
Remarks

The default Table service endpoint is
[http|https]://myaccount.blob.core.windows.net, where myaccount is the
name of your Windows Azure storage account.

It's also possible to define a custom endpoint for the Table service, either within
a connection string, or passed directly to the CloudStorageAccount constructor.
You may wish to define a custom endpoint if you've mapped a custom domain to
your Windows Azure storage service.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
See Also

Reference
CloudStorageAccount Class
CloudStorageAccount Members
Microsoft.WindowsAzure Namespace

Other Resources
Authenticate Access to Your Storage Account
StorageCredentials Class

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a set of credentials used to authenticate access to a Windows Azure storage account.

Namespace: Microsoft.WindowsAzure
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<th>Usage</th>
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</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim instance As <strong>StorageCredentials</strong></td>
</tr>
</tbody>
</table>
## Syntax

### Visual Basic

```vbnet
Public MustInherit Class StorageCredentials
```

### C#

```csharp
public abstract class StorageCredentials
```

### C++

```cpp
public ref class StorageCredentials abstract
```

### J#

```
```

### JScript

```
```
Inheritance Hierarchy

System.Object
Microsoft.WindowsAzure.StorageCredentials
  Microsoft.WindowsAzure.StorageCredentialsAccountAndKey
  Microsoft.WindowsAzure.StorageCredentialsSharedAccessSignature
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageCredentials Members
Microsoft.WindowsAzure Namespace
Represents a set of credentials used to authenticate access to a Windows Azure storage account.

The following tables list the members exposed by the StorageCredentials type.
## Protected Constructors

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<th>Description</th>
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## Public Properties

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<tr>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>AccountName</code></td>
<td>Gets the name of the storage account associated with the specified credentials.</td>
</tr>
<tr>
<td><code>CanComputeHmac</code></td>
<td>Gets a value indicating whether the <a href="#">ComputeHmac</a> method will return a valid HMAC-encoded signature string when called using the specified credentials.</td>
</tr>
<tr>
<td><code>CanSignRequest</code></td>
<td>Gets a value indicating whether a request can be signed under the Shared Key authentication scheme using the specified credentials.</td>
</tr>
<tr>
<td><code>CanSignRequestLite</code></td>
<td>Gets a value indicating whether a request against the Table service can be signed under the Shared Key Lite authentication scheme using the specified credentials.</td>
</tr>
<tr>
<td><code>NeedsTransformUri</code></td>
<td>Gets a value indicating whether the <a href="#">TransformUri</a> method should be called to transform a resource URI to the required format.</td>
</tr>
</tbody>
</table>
Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ComputeHmac</td>
<td>Encodes a Shared Key or Shared Key Lite signature string by using the HMAC-SHA256 algorithm over a canonicalized string-to-sign.</td>
</tr>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>SignRequest</td>
<td>Signs a request using the specified credentials under the Shared Key authentication scheme.</td>
</tr>
<tr>
<td>SignRequestLite</td>
<td>Signs a request against the Table service using the specified credentials under the Shared Key Lite authentication scheme.</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>TransformUri</td>
<td>Transforms a resource URI into the required format. For a shared access signature, TransformUri transforms a resource URI by appending a shared access token.</td>
</tr>
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</table>

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## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
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<tr>
<td>✧ Finalize</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>✧ MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
See Also

Reference
StorageCredentials Class
Microsoft.WindowsAzure Namespace
StorageCredentials Constructor

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the StorageCredentials Class.

Namespace: Microsoft.WindowsAzure
**Usage**

**Visual Basic**

```vbnet
Dim instance As New StorageCredentials
```
## Syntax

<table>
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<th>Visual Basic</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Protected Sub New</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>protected StorageCredentials ()</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>protected: StorageCredentials ()</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Remarks

The default constructor initializes any fields to their default values.
 Platforms

 Development Platforms
See Also

Reference
StorageCredentials Class
StorageCredentials Members
Microsoft.WindowsAzure Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods (see also Protected Methods)

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<tbody>
<tr>
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<tr>
<td><strong>GetHashCode</strong></td>
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</tr>
<tr>
<td><strong>GetType</strong></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><strong>SignRequest</strong></td>
<td>Signs a request using the specified credentials under the Shared Key authentication scheme.</td>
</tr>
<tr>
<td><strong>SignRequestLite</strong></td>
<td>Signs a request against the Table service using the specified credentials under the Shared Key Lite authentication scheme.</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><strong>TransformUri</strong></td>
<td>Transforms a resource URI into the required format. For a shared access signature, <strong>TransformUri</strong> transforms a resource URI by appending a shared access token.</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
See Also

Reference

StorageCredentials Class
Microsoft.WindowsAzure Namespace
Encodes a Shared Key or Shared Key Lite signature string by using the HMAC-SHA256 algorithm over a canonicalized string-to-sign.

**Namespace:** Microsoft.WindowsAzure  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

### Visual Basic

```vbnet
Dim instance As StorageCredentials
Dim value As String
Dim returnValue As String

returnValue = instance.ComputeHmac(value)
```
**Syntax**

**Visual Basic**

```vbnet
Public MustOverride Function ComputeHmac ( _
    value As String _
) As String
```

**C#**

```csharp
public abstract string ComputeHmac ( 
    string value
)
```

**C++**

```cpp
public:
virtual String^ ComputeHmac ( 
    String^ value
) abstract
```

**J#**

```java

```

**JScript**

```javascript

```

**Parameters**

`value`

Type: `System.String`

A canonicalized string-to-sign.

**Return Value**

Type: `System.String`
An HMAC-encoded signature string.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageCredentials Class
StorageCredentials Members
Microsoft.WindowsAzure.Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

**Namespace:** Microsoft.WindowsAzure  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim value As String
Dim returnValue As String

returnValue = Me.ComputeHmac512(value)
```
## Syntax

**Visual Basic**

```vbnet
Protected Friend MustOverride Function ComputeHmac512 ( 
    value As String 
) As String
```

**C#**

```csharp
protected internal abstract string ComputeHmac512 ( 
    string value 
)
```

**C++**

```cpp
protected public:
virtual String^ ComputeHmac512 ( 
    String^ value 
) abstract
```

**J#**

```java
```

**JScript**

```javascript
```
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageCredentials Class
StorageCredentials Members
Microsoft.WindowsAzure Namespace
StorageCredentials.SignRequest Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Signs a request using the specified credentials under the Shared Key authentication scheme.

**Namespace:** Microsoft.WindowsAzure  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As StorageCredentials
Dim request As HttpWebRequest

instance.SignRequest(request)
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
<th>C#</th>
<th>C++</th>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public MustOverride Sub SignRequest ( _ request As HttpWebRequest _ )</td>
<td>public abstract void SignRequest ( HttpWebRequest request )</td>
<td>public: virtual void SignRequest (.HttpWebRequest^ request ) abstract</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Parameters

**request**

Type: `System.Net.HttpWebRequest`

The web request to be signed.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageCredentials Class
StorageCredentials Members
Microsoft.WindowsAzure.Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Signs a request against the Table service using the specified credentials under the Shared Key Lite authentication scheme.

**Namespace:** Microsoft.WindowsAzure  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbs
Dim instance As StorageCredentials
Dim request As HttpWebRequest

instance.SignRequestLite(request)
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td>Public MustOverride Sub SignRequestLite ( _request As HttpWebRequest _)</td>
</tr>
<tr>
<td>C#</td>
<td>public abstract void SignRequestLite ( HttpRequest request )</td>
</tr>
<tr>
<td>C++</td>
<td>public: virtual void SignRequestLite ( HttpRequest^ request ) abstract</td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>

### Parameters

*request*

Type: System.Net.HttpWebRequest

The web request to be signed.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
- StorageCredentials Class
- StorageCredentials Members
- Microsoft.WindowsAzure Namespace
StorageCredentials.ToString Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Namespace: Microsoft.WindowsAzure
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
</table>
**Visual Basic**

```vbnet
Dim exportSecrets As Boolean
Dim returnValue As String

returnValue = Me.ToString(exportSecrets)
```
## Syntax

### Visual Basic

```
Protected Friend MustOverride Function ToString ( _
    exportSecrets As Boolean _
) As String
```

### C#

```
protected internal abstract string ToString (  
    bool exportSecrets
)
```

### C++

```
protected public:
virtual String^ ToString (  
    bool exportSecrets
) abstract
```

### J#

```
```

### JScript

```
```
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageCredentials Class
StorageCredentials Members
Microsoft.WindowsAzure.Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Transforms a resource URI into the required format. For a shared access signature, **TransformUri** transforms a resource URI by appending a shared access token.

**Namespace:** Microsoft.WindowsAzure  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As StorageCredentials
Dim resourceUri As String
Dim returnvalue As String

returnValue = instance.TransformUri(resourceUri)
```
**Syntax**

**Visual Basic**

```vbnet
Public MustOverride Function TransformUri ( _
    resourceUri As String _
) As String
```

**C#**

```csharp
public abstract string TransformUri (string resourceUri)
```

**C++**

```cpp
public:
    virtual String^ TransformUri ( String^ resourceUri )
    abstract
```

**J#**

```jsharp```

**JScript**

```jscript```

**Parameters**

`resourceUri`

Type: `System.String`

The resource URI to be transformed.

**Return Value**

Type: `System.String`
The URI for a shared access signature, including the resource URI and the shared access token.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
See Also

Reference
StorageCredentials Class
StorageCredentials Members
Microsoft.WindowsAzure Namespace
See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AccountName</strong></td>
<td>Gets the name of the storage account associated with the specified credentials.</td>
</tr>
<tr>
<td><strong>CanComputeHmac</strong></td>
<td>Gets a value indicating whether the <a href="#">ComputeHmac</a> method will return a valid HMAC-encoded signature string when called using the specified credentials.</td>
</tr>
<tr>
<td><strong>CanSignRequest</strong></td>
<td>Gets a value indicating whether a request can be signed under the Shared Key authentication scheme using the specified credentials.</td>
</tr>
<tr>
<td><strong>CanSignRequestLite</strong></td>
<td>Gets a value indicating whether a request against the Table service can be signed under the Shared Key Lite authentication scheme using the specified credentials.</td>
</tr>
<tr>
<td><strong>NeedsTransformUri</strong></td>
<td>Gets a value indicating whether the <a href="#">TransformUri</a> method should be called to transform a resource URI to the required format.</td>
</tr>
</tbody>
</table>
See Also

Reference

StorageCredentials Class
Microsoft.WindowsAzure Namespace
StorageCredentials.AccountName Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the name of the storage account associated with the specified credentials.

Namespace: Microsoft.WindowsAzure
## Usage

**Visual Basic**

```vbnet
Dim instance As StorageCredentials
Dim value As String

value = instance.AccountName
```
## Syntax

**Visual Basic**

Public MustOverride ReadOnly Property AccountName As

**C#**

public abstract string AccountName { get; }

**C++**

public:
virtual property String^ AccountName {
    String^ get () abstract;
}

**J#**

**JScript**

## Property Value

Type: **System.String**

The name of the account.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageCredentials Class
StorageCredentials Members
Microsoft.WindowsAzure Namespace
StorageCredentials.CanComputeHmac Property

See Also

This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.

Gets a value indicating whether the ComputeHmac method will return a valid HMAC-encoded signature string when called using the specified credentials.

Namespace: Microsoft.WindowsAzure
**Usage**

**Visual Basic**

```vbnet
Dim instance As StorageCredentials
Dim value As Boolean

value = instance.CanComputeHmac
```
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public MustOverride ReadOnly Property CanComputeHmac</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public abstract bool CanComputeHmac { get; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: virtual property bool CanComputeHmac { bool get () abstract; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>

**Property Value**

Type: [System.Boolean](https://docs.microsoft.com/en-us/dotnet/api/system.boolean)

True if these credentials can compute a valid signature string; otherwise, false.
Thread Safety

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
- StorageCredentials Class
- StorageCredentials Members
- Microsoft.WindowsAzure Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a value indicating whether a request can be signed under the Shared Key authentication scheme using the specified credentials.

**Namespace:** Microsoft.WindowsAzure  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim instance As StorageCredentials
Dim value As Boolean

value = instance.CanSignRequest
```
**Syntax**

**Visual Basic**

Public MustOverride ReadOnly Property CanSignRequest

**C#**

public abstract bool CanSignRequest { get; }

**C++**

public:
virtual property bool CanSignRequest {
    bool get () abstract;
}

**J#**


**JScript**


**Property Value**

Type: System.Boolean

True if a request can be signed with these credentials; otherwise, false.
- **Thread Safety**

  Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageCredentials Class
StorageCredentials Members
Microsoft.WindowsAzure Namespace
StorageCredentials.CanSignRequestLite Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a value indicating whether a request against the Table service can be signed under the Shared Key Lite authentication scheme using the specified credentials.

**Namespace:** Microsoft.WindowsAzure  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As StorageCredentials
Dim value As Boolean

value = instance.CanSignRequestLite
```
**Syntax**

**Visual Basic**

Public MustOverride ReadOnly Property CanSignRequestLite

**C#**

```csharp
public abstract bool CanSignRequestLite { get; }
```

**C++**

```cpp
public:
virtual property bool CanSignRequestLite {
    bool get () abstract;
}
```

**J#**

**JScript**

**Property Value**

Type: System.Boolean

**True** if a request can be signed with these credentials; otherwise, **false**.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
StorageCredentials Class
StorageCredentials Members
Microsoft.WindowsAzure Namespace
StorageCredentials.NeedsTransformUri Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a value indicating whether the TransformUri method should be called to transform a resource URI to the required format.

Namespace: Microsoft.WindowsAzure
Usage

**Visual Basic**

```vbnet
Dim instance As StorageCredentials
Dim value As Boolean

value = instance.NeedsTransformUri
```
## Syntax

### Visual Basic

Public MustOverride ReadOnly Property NeedsTransformUri

### C#

```csharp
public abstract bool NeedsTransformUri { get; }
```

### C++

```cpp
public:
virtual property bool NeedsTransformUri {
    bool get () abstract;
}
```

### J#

```
```

### JScript

```
```

## Property Value

Type: **System.Boolean**

**True** if the URI must be transformed; otherwise, **false**.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageCredentials Class
StorageCredentials Members
Microsoft.WindowsAzure Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents storage account credentials for accessing the Windows Azure storage services.

**Namespace:** Microsoft.WindowsAzure

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim instance As <em>StorageCredentialsAccountAndKey</em></td>
</tr>
</tbody>
</table>
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
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<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Class StorageCredentialsAccountAndKey Inherits StorageCredentials</td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public class StorageCredentialsAccountAndKey : StorageCredentials</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public ref class StorageCredentialsAccountAndKey : public</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
- **Inheritance Hierarchy**
  
  `System.Object`
  
  `Microsoft.WindowsAzure.StorageCredentials`
  
  `Microsoft.WindowsAzure.StorageCredentialsAccountAndKey`
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageCredentialsAccountAndKey Members
Microsoft.WindowsAzure Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents storage account credentials for accessing the Windows Azure storage services.

The following tables list the members exposed by the StorageCredentialsAccountAndKey type.
## Public Constructors

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<th>Description</th>
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</thead>
<tbody>
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<td>StorageCredentialsAccountAndKey</td>
<td>Overloaded.</td>
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<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✉️ AccountName</td>
<td>Overridden. Gets the name of the storage account associated with the specified credentials.</td>
</tr>
<tr>
<td>✉️ CanComputeHmac</td>
<td>Overridden. Gets a value indicating whether the <a href="#">ComputeHmac</a> method will return a valid HMAC-encoded signature string when called using the specified credentials.</td>
</tr>
<tr>
<td>✉️ CanSignRequest</td>
<td>Overridden. Gets a value indicating whether a request can be signed under the Shared Key authentication scheme using the specified credentials.</td>
</tr>
<tr>
<td>✉️ CanSignRequestLite</td>
<td>Overridden. Gets a value indicating whether a request against the Table service can be signed under the Shared Key Lite authentication scheme using the specified credentials.</td>
</tr>
<tr>
<td>✉️ Credentials</td>
<td>Gets a <a href="#">Credentials</a> object that references the storage account name and access key.</td>
</tr>
<tr>
<td>✉️ NeedsTransformUri</td>
<td>Overridden. Gets a value indicating whether the <a href="#">TransformUri</a> method should be called to transform a resource URI to a URI that includes a token for a shared access signature.</td>
</tr>
</tbody>
</table>
## Protected Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🗝 SigningAccountName</td>
<td></td>
</tr>
</tbody>
</table>

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## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✩ <strong>ComputeHmac</strong></td>
<td>Overridden. Encodes a Shared Key or Shared Key Lite signature string by using the HMAC-SHA256 algorithm over a canonicalized string-to-sign.</td>
</tr>
<tr>
<td>✩ <strong>Equals</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>✩ <strong>GetHashCode</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>✩ <strong>GetType</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>✩ <strong>SignRequest</strong></td>
<td>Overridden. Signs a request using the specified credentials under the Shared Key authentication scheme.</td>
</tr>
<tr>
<td>✩ <strong>SignRequestLite</strong></td>
<td>Overridden. Signs a request against the Table service using the specified credentials under the Shared Key Lite authentication scheme.</td>
</tr>
<tr>
<td>✩ <strong>ToString</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>✩ <strong>TransformUri</strong></td>
<td>Overridden. Transforms a resource URI into a shared access signature URI, by appending a shared access token. For objects of type <strong>StorageCredentialsAccountAndKey</strong>, this method returns the same resource URI that is passed to it.</td>
</tr>
</tbody>
</table>

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### Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>)</td>
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</table>

[Top](#)
See Also

Reference

StorageCredentialsAccountAndKey Class
Microsoft.WindowsAzure Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>StorageCredentialsAccountAndKey(String, Byte[])</code></td>
<td>Initializes a new instance of the <code>StorageCredentialsAccountAndKey</code> class, using the storage account name and access key.</td>
</tr>
<tr>
<td><code>StorageCredentialsAccountAndKey(String, String)</code></td>
<td>Initializes a new instance of the <code>StorageCredentialsAccountAndKey</code> class, using the storage account name and access key.</td>
</tr>
</tbody>
</table>
**See Also**

**Reference**

- StorageCredentialsAccountAndKey Class
- StorageCredentialsAccountAndKey Members
- Microsoft.WindowsAzure Namespace
Initializes a new instance of the `StorageCredentialsAccountAndKey` class, using the storage account name and access key.

**Namespace:** Microsoft.WindowsAzure  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim accountName As String
Dim key As Byte()

Dim instance As New StorageCredentialsAccountAndKey(accountName)
```
## Parameters

**accountName**

Type: `System.String`

The name of the storage account.
key

The account access key, as an array of bytes.
Platforms

Development Platforms
See Also

Reference

StorageCredentialsAccountAndKey Class
StorageCredentialsAccountAndKey Members
Microsoft.WindowsAzure Namespace
Initializes a new instance of the `StorageCredentialsAccountAndKey` class, using the storage account name and access key.

**Namespace:** Microsoft.WindowsAzure  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Usage

**Visual Basic**

```vbnet
Dim accountName As String
Dim key As String

Dim instance As New StorageCredentialsAccountAndKey(accountName, key)
```
## Syntax

### Visual Basic

```vbnet
Public Sub New ( _
    accountName As String, _
    key As String _
)
```

### C#

```csharp
public StorageCredentialsAccountAndKey (  
    string accountName,  
    string key  
)
```

### C++

```cpp
public:
StorageCredentialsAccountAndKey (  
    String^ accountName,  
    String^ key  
)
```

### J#

No J# example provided.

### JScript

No JScript example provided.

## Parameters

- **accountName**
  - Type: `System.String`
  - The name of the storage account.
**key**
Type: System.String

The account access key, as a Base64-encoded string.
Platforms

Development Platforms
See Also

Reference

StorageCredentialsAccountAndKey Class
StorageCredentialsAccountAndKey Members
Microsoft.WindowsAzure Namespace
<table>
<thead>
<tr>
<th>StorageCredentialsAccountAndKey Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
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</tbody>
</table>

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ComputeHmac</td>
<td>Overridden.</td>
</tr>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>SignRequest</td>
<td>Overridden.</td>
</tr>
<tr>
<td>SignRequestLite</td>
<td>Overridden.</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>TransformUri</td>
<td>Overridden.</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
See Also

Reference

StorageCredentialsAccountAndKey Class
Microsoft.WindowsAzure Namespace
Encodes a Shared Key or Shared Key Lite signature string by using the HMAC-SHA256 algorithm over a canonicalized string-to-sign.

**Namespace:** Microsoft.WindowsAzure  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
**Usage**

**Visual Basic**

```vba
Dim instance As StorageCredentialsAccountAndKey
Dim value As String
Dim returnValue As String

returnValue = instance.ComputeHmac(value)
```
### Syntax

**Visual Basic**

```vbnet
Public Overrides Function ComputeHmac ( _
    value As String _
) As String
```

**C#**

```csharp
public override string ComputeHmac ( string value )
```

**C++**

```cpp
public:
virtual String^ ComputeHmac ( String^ value ) override
```

**J#**

**JScript**

---

**Parameters**

- **value**
  - Type: `System.String`
  - A canonicalized string-to-sign.

**Return Value**

- Type: `System.String`
An HMAC-encoded signature string.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageCredentialsAccountAndKey Class
StorageCredentialsAccountAndKey Members
Microsoft.WindowsAzure Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

**Namespace:** Microsoft.WindowsAzure  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim value As String
Dim returnValue As String

returnValue = Me.ComputeHmac512(value)
```
## Syntax

### Visual Basic

```vbnet
Protected FriendOverrides Function ComputeHmac512(
    value As String
) As String
```

### C#

```csharp
protected internal override string ComputeHmac512(
    string value
)
```

### C++

```cpp
protected public:
    virtual String^ ComputeHmac512(
        String^ value
    ) override
```

### J#

JScript
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageCredentialsAccountAndKey Class
StorageCredentialsAccountAndKey Members
Microsoft.WindowsAzure Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Signs a request using the specified credentials under the Shared Key authentication scheme.

**Namespace:** Microsoft.WindowsAzure  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As StorageCredentialsAccountAndKey
Dim request As HttpWebRequest

instance.SignRequest(request)
```
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Public Overrides Sub SignRequest (_
|  request As HttpWebRequest _
| ) |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public override void SignRequest (</td>
</tr>
<tr>
<td>HttpWebRequest request</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| public:
| virtual void SignRequest ( |
|     HttpWebRequest^ request |
| ) override |

<table>
<thead>
<tr>
<th>J#</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>

## Parameters

- **request**
  - The web request to be signed.
Thread Safety

- Any public static (Shared in Visual Basic) members of this type are thread safe.
- Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageCredentialsAccountAndKey Class
StorageCredentialsAccountAndKey Members
Microsoft.WindowsAzure Namespace
**StorageCredentialsAccountAndKey.SignRequestLite Method**

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Signs a request against the Table service using the specified credentials under the Shared Key Lite authentication scheme.

**Namespace:** Microsoft.WindowsAzure  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As StorageCredentialsAccountAndKey
Dim request As HttpWebRequest

instance.SignRequestLite(request)
```
**Syntax**

**Visual Basic**

Public Overrides Sub SignRequestLite ( _  
    request As HttpWebRequest _  
)

**C#**

```csharp
public override void SignRequestLite ( 
    HttpRequest request 
)
```

**C++**

```cpp
public:
    virtual void SignRequestLite ( 
        HttpRequest^ request 
    ) override
```

**J#**

**JScript**

**Parameters**

`request`  
Type: System.Net.HttpWebRequest  

The web request to be signed.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageCredentialsAccountAndKey Class
StorageCredentialsAccountAndKey Members
Microsoft.WindowsAzure.Namespace
See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Namespace: Microsoft.WindowsAzure
**Usage**

**Visual Basic**

```vbnet
Dim exportSecrets As Boolean
Dim returnValue As String

returnValue = Me.ToString(exportSecrets)
```
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protected Friend Overrides Function ToString ( _ exportSecrets As Boolean _ ) As String</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>protected internal override string ToString ( bool exportSecrets )</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>protected public: virtual String^ ToString ( bool exportSecrets ) override</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
StorageCredentialsAccountAndKey Class
StorageCredentialsAccountAndKey Members
Microsoft.WindowsAzure Namespace
Transforms a resource URI into a shared access signature URI, by appending a shared access token. For objects of type `StorageCredentialsAccountAndKey`, this method returns the same resource URI that is passed to it.

**Namespace:** Microsoft.WindowsAzure

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As StorageCredentialsAccountAndKey
Dim resourceUri As String
Dim returnValue As String

returnValue = instance.TransformUri(resourceUri)
```
### Syntax

**Visual Basic**

Public Overrides Function TransformUri ( _
    resourceUri As String _
) As String

**C#**

public override string TransformUri (  
    string resourceUri
)

**C++**

public:
virtual String^ TransformUri (  
    String^ resourceUri
) override

**J#**

**JScript**

### Parameters

**resourceUri**

Type: System.String

The resource URI to be transformed.

### Return Value

Type: System.String
The URI for a shared access signature, including the resource URI and the shared access token.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
See Also

Reference

StorageCredentialsAccountAndKey Class
StorageCredentialsAccountAndKey Members
Microsoft.WindowsAzure.Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties (see also Protected Properties)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccountName</td>
<td>Overridden. Gets the name of the storage account associated with the specified credentials.</td>
</tr>
<tr>
<td>CanComputeHmac</td>
<td>Overridden. Gets a value indicating whether the ComputeHmac method will return a valid HMAC-encoded signature string when called using the specified credentials.</td>
</tr>
<tr>
<td>CanSignRequest</td>
<td>Overridden. Gets a value indicating whether a request can be signed under the Shared Key authentication scheme using the specified credentials.</td>
</tr>
<tr>
<td>CanSignRequestLite</td>
<td>Overridden. Gets a value indicating whether a request against the Table service can be signed under the Shared Key Lite authentication scheme using the specified credentials.</td>
</tr>
<tr>
<td>Credentials</td>
<td>Gets a Credentials object that references the storage account name and access key.</td>
</tr>
<tr>
<td>NeedsTransformUri</td>
<td>Overridden. Gets a value indicating whether the TransformUri method should be called to transform a resource URI to a URI that includes a token for a shared access signature.</td>
</tr>
</tbody>
</table>
## Protected Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SigningAccountName</td>
<td></td>
</tr>
</tbody>
</table>
See Also

Reference

StorageCredentialsAccountAndKey Class
Microsoft.WindowsAzure Namespace
StorageCredentialsAccountAndKey.AccountName Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the name of the storage account associated with the specified credentials.

**Namespace:** Microsoft.WindowsAzure

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As StorageCredentialsAccountAndKey
Dim value As String

value = instance.AccountName
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td>Public Overrides ReadOnly Property AccountName As String</td>
</tr>
<tr>
<td>C#</td>
<td>public override string AccountName { get; }</td>
</tr>
<tr>
<td>C++</td>
<td>public: virtual property String^ AccountName { String^ get () override; }</td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

Type: [System.String](https://docs.microsoft.com/en-us/dotnet/api/system.string)

The name of the storage account.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageCredentialsAccountAndKey Class
StorageCredentialsAccountAndKey Members
Microsoft.WindowsAzure Namespace
See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a value indicating whether the ComputeHmac method will return a valid HMAC-encoded signature string when called using the specified credentials.

Namespace: Microsoft.WindowsAzure
Usage

**Visual Basic**

```vbnet
Dim instance As StorageCredentialsAccountAndKey
Dim value As Boolean

value = instance.CanComputeHmac
```
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Overrides ReadOnly Property CanComputeHmac As</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public override bool CanComputeHmac { get; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| public: virtual property bool CanComputeHmac { 
  bool get () override; 
} |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>

### Property Value

Type: [System.Boolean](#)

*True* for objects of type [StorageCredentialsAccountAndKey](#).
- **Thread Safety**

  Any public static (**Shared** in Visual Basic) members of this type are thread safe.
  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageCredentialsAccountAndKey Class
StorageCredentialsAccountAndKey Members
Microsoft.WindowsAzure Namespace
StorageCredentialsAccountAndKey.CanSignRequest Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a value indicating whether a request can be signed under the Shared Key authentication scheme using the specified credentials.

Namespace: Microsoft.WindowsAzure
## Usage

### Visual Basic

```vbnet
Dim instance As StorageCredentialsAccountAndKey
Dim value As Boolean

value = instance.CanSignRequest
```
## Syntax

### Visual Basic

```
Public Overrides ReadOnly Property CanSignRequest As C#
```

```
Public override Boolean CanSignRequest { get; }
```

### C#

```
public override bool CanSignRequest { get; }
```

### C++

```
public:
virtual property bool CanSignRequest { bool get () override;
}
```

### J#

```

```

### JScript

```

```

## Property Value

Type: [System.Boolean](https://docs.microsoft.com/en-us/dotnet/api/system.boolean)

*True* for objects of type [StorageCredentialsAccountAndKey](https://docs.microsoft.com/en-us/dotnet/api/system.identitymodel.statistics.storagecredentialsaccountandkey).
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageCredentialsAccountAndKey Class
StorageCredentialsAccountAndKey Members
Microsoft.WindowsAzure Namespace
StorageCredentialsAccountAndKey.CanSignRequestLite Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a value indicating whether a request against the Table service can be signed under the Shared Key Lite authentication scheme using the specified credentials.

Namespace: Microsoft.WindowsAzure
### Usage

**Visual Basic**

```vbnet
Dim instance As StorageCredentialsAccountAndKey
Dim value As Boolean

value = instance.CanSignRequestLite
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Overrides ReadOnly Property CanSignRequestLite</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public override bool CanSignRequestLite { get; }</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: virtual property bool CanSignRequestLite { bool get () override; }</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

Type: [System.Boolean](https://docs.microsoft.com/en-us/dotnet/api/system.boolean)

**True** for objects of type [StorageCredentialsAccountAndKey](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage.blob.accountandkey).
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageCredentialsAccountAndKey Class
StorageCredentialsAccountAndKey Members
Microsoft.WindowsAzure Namespace
Gets a **Credentials** object that references the storage account name and access key.

**Namespace:** Microsoft.WindowsAzure  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.]
Usage

Visual Basic

Dim instance As StorageCredentialsAccountAndKey
Dim value As Credentials

value = instance.Credentials
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Property Credentials As <strong>Credentials</strong></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public <strong>Credentials</strong> Credentials { get; }</td>
</tr>
</tbody>
</table>
| **C++** | public: property **Credentials**^ Credentials {
| | **Credentials**^ get (); |
| **J#** | |
| **JScript** | |

### Property Value


An object containing a reference to the storage account name and access key.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageCredentialsAccountAndKey Class
StorageCredentialsAccountAndKey Members
Microsoft.WindowsAzure Namespace
StorageCredentialsAccountAndKey.NeedsTransformUri Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a value indicating whether the TransformUri method should be called to transform a resource URI to a URI that includes a token for a shared access signature.

Namespace: Microsoft.WindowsAzure
Usage

Visual Basic

Dim instance As StorageCredentialsAccountAndKey
Dim value As Boolean

value = instance.NeedsTransformUri
### Syntax

<table>
<thead>
<tr>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Public Overrides ReadOnly Property NeedsTransformUri</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
</tr>
<tr>
<td>public override bool NeedsTransformUri { get; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C++</strong></td>
</tr>
</tbody>
</table>
| public:
| virtual property bool NeedsTransformUri { 
| bool get () override;
| } |

<table>
<thead>
<tr>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>J#</strong></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
</tr>
</tbody>
</table>

### Property Value

Type: [System.Boolean](https://docs.microsoft.com/en-us/dotnet/api/system.boolean)

**False** for objects of type [StorageCredentialsAccountAndKey](https://docs.microsoft.com/en-us/dotnet/api/microsoft.azure.storage.common.storagecredentialsaccountandkey)
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageCredentialsAccountAndKey Class
StorageCredentialsAccountAndKey Members
Microsoft.WindowsAzure Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

**Namespace:** Microsoft.WindowsAzure  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim value As String
Me.SigningAccountName = value
```
## Syntax

**Visual Basic**

Protected WriteOnly Property SigningAccountName As String

**C#**

protected string SigningAccountName { set; }

**C++**

protected:
property String^ SigningAccountName {
    void set (String^ value);
}

**J#**

**JScript**
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
- StorageCredentialsAccountAndKey Class
- StorageCredentialsAccountAndKey Members
- Microsoft.WindowsAzure Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents storage credentials for delegated access to Blob service resources via a shared access signature.

**Namespace:** Microsoft.WindowsAzure  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
</tr>
</tbody>
</table>

Dim instance As StorageCredentialsSharedAccessSignature
## Syntax

### Visual Basic

```vbnet
Public Class StorageCredentialsSharedAccessSignature
    Inherits StorageCredentials
```

### C#

```csharp
public class StorageCredentialsSharedAccessSignature
```

### C++

```cpp
public ref class StorageCredentialsSharedAccessSignature
```

### J#

```
```

### JScript

```
```
Inheritance Hierarchy

System.Object
  Microsoft.WindowsAzure.StorageCredentials
  Microsoft.WindowsAzure.StorageCredentialsSharedAccessSignature
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageCredentialsSharedAccessSignature Members
Microsoft.WindowsAzure Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents storage credentials for delegated access to Blob service resources via a shared access signature.

The following tables list the members exposed by the StorageCredentialsSharedAccessSignature type.
## Public Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>StorageCredentialsSharedAccessSignature</td>
<td>Initializes a new instance of the StorageCredentialsSharedAccessSignature class with the specified shared access token.</td>
</tr>
</tbody>
</table>
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccountName</td>
<td>Overridden. Gets the name of the storage account associated with the specified credentials.</td>
</tr>
<tr>
<td>CanComputeHmac</td>
<td>Overridden. Gets a value indicating whether the ComputeHmac method will return a valid HMAC-encoded signature string when called using the specified credentials.</td>
</tr>
<tr>
<td>CanSignRequest</td>
<td>Overridden. Gets a value indicating whether a request can be signed under the Shared Key authentication scheme using the specified credentials.</td>
</tr>
<tr>
<td>CanSignRequestLite</td>
<td>Overridden. Gets a value indicating whether a request against the Table service can be signed under the Shared Key Lite authentication scheme using the specified credentials.</td>
</tr>
<tr>
<td>NeedsTransformUri</td>
<td>Overridden. Gets a value indicating whether the TransformUri method should be called to transform a resource URI to a URI that includes a token for a shared access signature.</td>
</tr>
</tbody>
</table>
## Public Methods (see also **Protected Methods**)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ComputeHmac</td>
<td>Overridden. Encodes a Shared Key or Shared Key Lite signature string by using the HMAC-SHA256 algorithm over a canonicalized string-to-sign. This is not a valid operation for objects of type <code>StorageCredentialsSharedAccessSignature</code>.</td>
</tr>
<tr>
<td>Equals</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>SignRequest</td>
<td>Overridden. Signs a request using the specified credentials under the Shared Key authentication scheme. This is not a valid operation for objects of type <code>StorageCredentialsSharedAccessSignature</code>.</td>
</tr>
<tr>
<td>SignRequestLite</td>
<td>Overridden. Signs a request against the Table service using the specified credentials under the Shared Key Lite authentication scheme. This is not a valid operation for objects of type <code>StorageCredentialsSharedAccessSignature</code>.</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>TransformUri</td>
<td>Overridden. Transforms a resource URI into a shared access signature URI, by appending a shared access token.</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Finalize</code></td>
<td>(Inherited from <em>Object</em>)</td>
</tr>
<tr>
<td><code>MemberwiseClone</code></td>
<td>(Inherited from <em>Object</em>)</td>
</tr>
</tbody>
</table>

Top
See Also

Reference

StorageCredentialsSharedAccessSignature Class
Microsoft.WindowsAzure Namespace
StorageCredentialsSharedAccessSignature Constructor

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the StorageCredentialsSharedAccessSignature class with the specified shared access token.

Namespace: Microsoft.WindowsAzure
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
</tr>
<tr>
<td>Dim token As <strong>String</strong></td>
</tr>
<tr>
<td>Dim instance As New <strong>StorageCredentialsSharedAccessSignature</strong></td>
</tr>
</tbody>
</table>
## Syntax

### Visual Basic

```vbnet
Public Sub New ( _
    token As String _
)
```

### C#

```csharp
public StorageCredentialsSharedAccessSignature (
    string token
)
```

### C++

```cpp
public:
StorageCredentialsSharedAccessSignature ( 
    String^ token
)
```

### J#

### JScript

### Parameters

- **token**
  - Type: **System.String**
  
  A string token representing a shared access signature.
Platforms

Development Platforms


See Also

Reference
StorageCredentialsSharedAccessSignature Class
StorageCredentialsSharedAccessSignature Members
Microsoft.WindowsAzure Namespace
StorageCredentialsSharedAccessSignature Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ComputeHmac</td>
<td>Overridden. Encodes a Shared Key or Shared Key Lite signature string by using the HMAC-SHA256 algorithm over a canonicalized string-to-sign. This is not a valid operation for objects of type StorageCredentialsSharedAccessSignature.</td>
</tr>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>SignRequest</td>
<td>Overridden. Signs a request using the specified credentials under the Shared Key authentication scheme. This is not a valid operation for objects of type StorageCredentialsSharedAccessSignature.</td>
</tr>
<tr>
<td>SignRequestLite</td>
<td>Overridden. Signs a request against the Table service using the specified credentials under the Shared Key Lite authentication scheme. This is not a valid operation for objects of type StorageCredentialsSharedAccessSignature.</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>TransformUri</td>
<td>Overridden. Transforms a resource URI into a shared access signature URI, by appending a shared access token.</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
See Also

Reference

StorageCredentialsSharedAccessSignature Class
Microsoft.WindowsAzure Namespace
Encodes a Shared Key or Shared Key Lite signature string by using the HMAC-SHA256 algorithm over a canonicalized string-to-sign. This is not a valid operation for objects of type `StorageCredentialsSharedAccessSignature`.

**Namespace:** Microsoft.WindowsAzure  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As StorageCredentialsSharedAccessSignature
Dim value As String
Dim returnValue As String

returnValue = instance.ComputeHmac(value)
**Syntax**

**Visual Basic**

```vbnet
Public Overrides Function ComputeHmac ( _
    value As String _
) As String
```

**C#**

```csharp
public override string ComputeHmac (  
    string value
)
```

**C++**

```cpp
public:  
virtual String^ ComputeHmac (  
    String^ value
) override
```

**JScript**

```jscript
```

**Parameters**

`value`

Type: `System.String`

A canonicalized string-to-sign.

**Return Value**

Type: `System.String`
NULL for objects of type StorageCredentialsSharedAccessSignature.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageCredentialsSharedAccessSignature Class
StorageCredentialsSharedAccessSignature Members
Microsoft.WindowsAzure Namespace
<table>
<thead>
<tr>
<th>StorageCredentialsSharedAccessSignature.ComputeHmac512 Method</th>
</tr>
</thead>
</table>

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

**Namespace:** Microsoft.WindowsAzure  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim value As String
Dim returnValue As String

returnValue = Me.ComputeHmac512(value)
```
<table>
<thead>
<tr>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Protected Friend Overrides Function ComputeHmac512 (</td>
</tr>
<tr>
<td>value As String _</td>
</tr>
<tr>
<td>) As String</td>
</tr>
<tr>
<td><strong>C#</strong></td>
</tr>
<tr>
<td>protected internal override string ComputeHmac512 (</td>
</tr>
<tr>
<td>string value</td>
</tr>
<tr>
<td>)</td>
</tr>
<tr>
<td><strong>C++</strong></td>
</tr>
<tr>
<td>protected public:</td>
</tr>
<tr>
<td>virtual String^ ComputeHmac512 (</td>
</tr>
<tr>
<td>String^ value</td>
</tr>
<tr>
<td>) override</td>
</tr>
<tr>
<td><strong>J#</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageCredentialsSharedAccessSignature Class
StorageCredentialsSharedAccessSignature Members
Microsoft.WindowsAzure Namespace
StorageCredentialsSharedAccessSignature.SignRequest Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Signs a request using the specified credentials under the Shared Key authentication scheme. This is not a valid operation for objects of type StorageCredentialsSharedAccessSignature.

Namespace: Microsoft.WindowsAzure
Usage

Visual Basic

Dim instance As StorageCredentialsSharedAccessSignature
Dim request As HttpWebRequest

instance.SignRequest(request)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Overrides Sub SignRequest ( </code>_request As HttpWebRequest <code>_)</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public override void SignRequest ( HttpRequest request)</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: virtual void SignRequest ( HttpRequest^ request)</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>

### Parameters

- **request**
  - Type: `System.Net.HttpWebRequest`
  - The web request to be signed.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageCredentialsSharedAccessSignature Class
StorageCredentialsSharedAccessSignature Members
Microsoft.WindowsAzure Namespace
Signs a request against the Table service using the specified credentials under the Shared Key Lite authentication scheme. This is not a valid operation for objects of type StorageCredentialsSharedAccessSignature.

**Namespace:** Microsoft.WindowsAzure

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
Usage

Visual Basic

Dim instance As StorageCredentialsSharedAccessSignature
Dim request As HttpWebRequest

instance.SignRequestLite(request)
## Syntax

### Visual Basic

```vbnet
Public Overrides Sub SignRequestLite ( _
    request As HttpRequest _
)
```

### C#

```csharp
public override void SignRequestLite (_
    HttpRequest request
)
```

### C++

```cpp
public:
virtual void SignRequestLite (_
    HttpRequest^ request
) override
```

### J#

```jscript
```

### JScript

```javascript
```

## Parameters

- **request**
  - Type: `System.Net.HttpWebRequest`

  The web request object to be signed.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageCredentialsSharedAccessSignature Class
StorageCredentialsSharedAccessSignature Members
Microsoft.WindowsAzure Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

**Namespace:** Microsoft.WindowsAzure  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim exportSecrets As Boolean
Dim returnValue As String

returnValue = Me.ToString(exportSecrets)
## Syntax

### Visual Basic

```vbnet
Protected Friend Overrides Function ToString ( _
    exportSecrets As Boolean _
) As String
```

### C#

```csharp
protected internal override string ToString (  
    bool exportSecrets
)
```

### C++

```cpp
protected public:
virtual String^ ToString (  
    bool exportSecrets
) override
```

### J#

```
```

### JScript

```
```
- **Thread Safety**

  Any public static (*Shared* in Visual Basic) members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageCredentialsSharedAccessSignature Class
StorageCredentialsSharedAccessSignature Members
Microsoft.WindowsAzure Namespace
StorageCredentialsSharedAccessSignature.TransformUri Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Transforms a resource URI into a shared access signature URI, by appending a shared access token.

**Namespace:** Microsoft.WindowsAzure  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

<table>
<thead>
<tr>
<th>Dim instance As StorageCredentialsSharedAccessSignature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim resourceUri As String</td>
</tr>
<tr>
<td>Dim returnValue As String</td>
</tr>
</tbody>
</table>

$returnValue = instance.TransformUri(resourceUri)
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Public Overrides Function TransformUri ( _
  resourceUri As String _
) As String |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
</table>
| public override string TransformUri (  
  string resourceUri  
|

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| public: virtual String^ TransformUri (  
  String^ resourceUri  
) override |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

### Parameters

resourceUri  
Type: System.String  
The resource URI to be transformed.

### Return Value

Type: System.String
The URI for a shared access signature, including the resource URI and the shared access token.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageCredentialsSharedAccessSignature Class
StorageCredentialsSharedAccessSignature Members
Microsoft.WindowsAzure Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AccountName</strong></td>
<td>Overridden. Gets the name of the storage account associated with the specified credentials.</td>
</tr>
<tr>
<td><strong>CanComputeHmac</strong></td>
<td>Overridden. Gets a value indicating whether the <a href="#">ComputeHmac</a> method will return a valid HMAC-encoded signature string when called using the specified credentials.</td>
</tr>
<tr>
<td><strong>CanSignRequest</strong></td>
<td>Overridden. Gets a value indicating whether a request can be signed under the Shared Key authentication scheme using the specified credentials.</td>
</tr>
<tr>
<td><strong>CanSignRequestLite</strong></td>
<td>Overridden. Gets a value indicating whether a request against the Table service can be signed under the Shared Key Lite authentication scheme using the specified credentials.</td>
</tr>
<tr>
<td><strong>NeedsTransformUri</strong></td>
<td>Overridden. Gets a value indicating whether the <a href="#">TransformUri</a> method should be called to transform a resource URI to a URI that includes a token for a shared access signature.</td>
</tr>
</tbody>
</table>
See Also

Reference

StorageCredentialsSharedAccessSignature Class
Microsoft.WindowsAzure Namespace
StorageCredentialsSharedAccessSignature.AccountName Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the name of the storage account associated with the specified credentials.

**Namespace:** Microsoft.WindowsAzure

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim instance As <code>StorageCredentialsSharedAccessSignature</code></td>
</tr>
<tr>
<td>Dim value As <code>String</code></td>
</tr>
<tr>
<td>value = instance.AccountName</td>
</tr>
</tbody>
</table>
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td>Public Overrides ReadOnly Property AccountName As String</td>
</tr>
<tr>
<td>C#</td>
<td>public override string AccountName { get; }</td>
</tr>
<tr>
<td>C++</td>
<td>public: virtual property String^ AccountName { String^ get () override; }</td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

Type: [System.String](https://docs.microsoft.com/en-us/dotnet/api/system.string)

The name of the account.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageCredentialsSharedAccessSignature Class
StorageCredentialsSharedAccessSignature Members
Microsoft.WindowsAzure Namespace
StorageCredentialsSharedAccessSignature.CanComputeHmac Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a value indicating whether the ComputeHmac method will return a valid HMAC-encoded signature string when called using the specified credentials.

Namespace: Microsoft.WindowsAzure
## Usage

### Visual Basic

```vbasic
Dim instance As StorageCredentialsSharedAccessSignature
Dim value As Boolean

value = instance.CanComputeHmac
```
## Syntax

**Visual Basic**

```vbnet
Public Overrides ReadOnly Property CanComputeHmac As System.Boolean
```

**C#**

```csharp
public override bool CanComputeHmac { get; }
```

**C++**

```cpp
public:
virtual property bool CanComputeHmac {
    bool get () override;
}
```

**J#**

**JScript**

**Property Value**

Type: [System.Boolean](https://docs.microsoft.com/en-us/dotnet/api/system.boolean)

False for objects of type [StorageCredentialsSharedAccessSignature](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage.blob.storagecredentialssharedaccesssignature).
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
See Also

Reference
StorageCredentialsSharedAccessSignature Class
StorageCredentialsSharedAccessSignature Members
Microsoft.WindowsAzure Namespace
StorageCredentialsSharedAccessSignature.CanSignRequest Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a value indicating whether a request can be signed under the Shared Key authentication scheme using the specified credentials.

**Namespace:** Microsoft.WindowsAzure  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As StorageCredentialsSharedAccessSignature
Dim value As Boolean

value = instance.CanSignRequest
## Syntax

**Visual Basic**

Public Overrides ReadOnly Property CanSignRequest As C#

```csharp
public override bool CanSignRequest { get; }
```

**C++**

```cpp
public:
virtual property bool CanSignRequest {
    bool get () override;
}
```

**J#**

```csharp

```

**JScript**

```javascript

```

## Property Value

**Type:** System.Boolean

**False** for objects of type StorageCredentialsSharedAccessSignature.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageCredentialsSharedAccessSignature Class
StorageCredentialsSharedAccessSignature Members
Microsoft.WindowsAzure Namespace
StorageCredentialsSharedAccessSignature.CanSignRequestLite Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a value indicating whether a request against the Table service can be signed under the Shared Key Lite authentication scheme using the specified credentials.

**Namespace:** Microsoft.WindowsAzure

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>

```vbnet
Dim instance As StorageCredentialsSharedAccessSignature
Dim value As Boolean

value = instance.CanSignRequestLite
```
## Syntax

### Visual Basic

Public Overrides ReadOnly Property CanSignRequestLite

### C#

public override bool CanSignRequestLite { get; }

### C++

public:
virtual property bool CanSignRequestLite {
    bool get () override;
}

### J#

### JScript

### Property Value

Type: System.Boolean

False for objects of type StorageCredentialsSharedAccessSignature.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
See Also

Reference

StorageCredentialsSharedAccessSignature Class
StorageCredentialsSharedAccessSignature Members
Microsoft.WindowsAzure Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a value indicating whether the TransformUri method should be called to transform a resource URI to a URI that includes a token for a shared access signature.

**Namespace:** Microsoft.WindowsAzure  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As StorageCredentialsSharedAccessSignature
Dim value As Boolean

value = instance.NeedsTransformUri
```
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Overrides ReadOnly Property NeedsTransformUri</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public override bool NeedsTransformUri { get; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| public:
virtual property bool NeedsTransformUri {
    bool get () override;
} |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>

**Property Value**

Type: System.Boolean

True for objects of type StorageCredentialsSharedAccessSignature.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageCredentialsSharedAccessSignature Class
StorageCredentialsSharedAccessSignature Members
Microsoft.WindowsAzure Namespace
Microsoft.WindowsAzure.StorageClient Namespace

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BlobAttributes</td>
<td>Represents a blob's attributes, including its properties and metadata.</td>
</tr>
<tr>
<td>BlobContainerAttributes</td>
<td>Represents a container's attributes, including its properties and metadata.</td>
</tr>
<tr>
<td>BlobContainerPermissions</td>
<td>Represents the permissions for a container.</td>
</tr>
<tr>
<td>BlobContainerProperties</td>
<td>Represents the system properties for a container.</td>
</tr>
<tr>
<td>BlobErrorCodeStrings</td>
<td>Provides error code strings that are specific to the Blob service.</td>
</tr>
<tr>
<td>BlobProperties</td>
<td>Represents the system properties for a blob.</td>
</tr>
<tr>
<td>BlobRequestOptions</td>
<td>Represents a set of options that may be specified on a request.</td>
</tr>
<tr>
<td>BlobStream</td>
<td>Represents a stream for reading and writing to a blob.</td>
</tr>
<tr>
<td>CloudBlob</td>
<td>Represents a Windows Azure blob.</td>
</tr>
<tr>
<td>CloudBlobClient</td>
<td>Provides a client for accessing the Windows Azure Blob service.</td>
</tr>
<tr>
<td>CloudBlobContainer</td>
<td>Represents a container in the Windows Azure Blob service.</td>
</tr>
<tr>
<td>CloudBlobDirectory</td>
<td>Represents a blob directory of blobs, designated by a delimiter character.</td>
</tr>
<tr>
<td>CloudBlockBlob</td>
<td>Represents a blob that is uploaded as a set of blocks.</td>
</tr>
<tr>
<td><strong>CloudDrive</strong></td>
<td>CloudDriveException</td>
</tr>
<tr>
<td>--------------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td><strong>CloudPageBlob</strong></td>
<td>CloudQueue</td>
</tr>
<tr>
<td><strong>CloudQueue</strong></td>
<td>CloudQueueClient</td>
</tr>
<tr>
<td><strong>CloudQueueClient</strong></td>
<td>CloudQueueMessage</td>
</tr>
<tr>
<td><strong>CloudQueueMessage</strong></td>
<td>CloudStorageAccount</td>
</tr>
<tr>
<td><strong>CloudStorageAccount</strong></td>
<td>CloudStorageAccount</td>
</tr>
<tr>
<td><strong>CloudStorageAccount</strong></td>
<td>CloudStorageAccount</td>
</tr>
<tr>
<td><strong>CloudStorageAccount</strong></td>
<td>CloudStorageAccount</td>
</tr>
<tr>
<td><strong>CloudTableClient</strong></td>
<td>CloudTableQuery</td>
</tr>
<tr>
<td><strong>CloudTableQuery</strong></td>
<td>ListBlockItem</td>
</tr>
<tr>
<td><strong>ListBlockItem</strong></td>
<td>PageRange</td>
</tr>
<tr>
<td><strong>PageRange</strong></td>
<td>QueueAttributes</td>
</tr>
<tr>
<td><strong>QueueAttributes</strong></td>
<td>QueueErrorCodeStrings</td>
</tr>
<tr>
<td><strong>QueueErrorCodeStrings</strong></td>
<td>ResponseReceivedEventArgs</td>
</tr>
<tr>
<td><strong>ResponseReceivedEventArgs</strong></td>
<td></td>
</tr>
<tr>
<td><strong>ResultContinuation</strong></td>
<td>information for various listing operation. Can be serialized using XML serialization.</td>
</tr>
<tr>
<td>------------------------</td>
<td>---------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>ResultSegment</strong></td>
<td>Represents a result segment that was retrieved from the total set of possible results.</td>
</tr>
<tr>
<td><strong>RetryPolicies</strong></td>
<td>Defines some standard retry policies.</td>
</tr>
<tr>
<td><strong>SharedAccessPolicies</strong></td>
<td>Represents the collection of shared access policies defined for a container.</td>
</tr>
<tr>
<td><strong>SharedAccessPolicy</strong></td>
<td>Represents a shared access policy, which specifies the start time, expiry time, and permissions for a shared access signature.</td>
</tr>
<tr>
<td><strong>StorageClientException</strong></td>
<td>Represents an exception thrown by the Windows Azure storage client library.</td>
</tr>
<tr>
<td><strong>StorageErrorCodeStrings</strong></td>
<td>Provides error code strings that are common to all storage services.</td>
</tr>
<tr>
<td><strong>StorageException</strong></td>
<td>The base class for Windows Azure storage service exceptions.</td>
</tr>
<tr>
<td><strong>StorageExceptionExtensions</strong></td>
<td>Contains methods used to translate data access exceptions for Windows Azure tables, blobs, and queues into Windows Azure-specific exceptions.</td>
</tr>
<tr>
<td><strong>StorageExtendedErrorInformation</strong></td>
<td>Represents extended error information returned by the Windows Azure storage services.</td>
</tr>
<tr>
<td></td>
<td>Represents an exception</td>
</tr>
<tr>
<td><strong>StorageServerException</strong></td>
<td>thrown due to a server-side error.</td>
</tr>
<tr>
<td>----------------------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td><strong>TableErrorCodeStrings</strong></td>
<td>Provides error code strings that are specific to the Azure Table service.</td>
</tr>
<tr>
<td><strong>TableServiceContext</strong></td>
<td>Represents a <strong>DataServiceContext</strong> object for use with the Windows Azure Table service.</td>
</tr>
<tr>
<td><strong>TableServiceEntity</strong></td>
<td>Represents an entity in a Windows Azure table.</td>
</tr>
<tr>
<td><strong>TableServiceExtensionMethods</strong></td>
<td>Provides a set of extensions for the Table service.</td>
</tr>
</tbody>
</table>
## Interfaces

<table>
<thead>
<tr>
<th>Interface</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IListBlobItem</td>
<td>Represents an item that may be returned by a blob listing operation.</td>
</tr>
</tbody>
</table>
## Structures

<table>
<thead>
<tr>
<th>Structure</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccessCondition</td>
<td>Represents a set of access conditions to be used for operations against the storage services.</td>
</tr>
</tbody>
</table>
## Delegates

<table>
<thead>
<tr>
<th>Delegate</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RetryPolicy</td>
<td>Returns a <a href="#">ShouldRetry</a> delegate that determines if the request should be retried.</td>
</tr>
<tr>
<td>ShouldRetry</td>
<td>A delegate that determines whether a request should be retried.</td>
</tr>
</tbody>
</table>
## Enumerations

<table>
<thead>
<tr>
<th>Enumeration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BlobContainerPublicAccessType</td>
<td>Specifies the level of public access that is allowed on the container.</td>
</tr>
<tr>
<td>BlobListingDetails</td>
<td>Specifies which items to include when listing a set of blobs.</td>
</tr>
<tr>
<td>BlobType</td>
<td>The type of a blob.</td>
</tr>
<tr>
<td>BlockListingFilter</td>
<td>Indicates whether to list only committed blocks, only uncommitted blocks, or all blocks.</td>
</tr>
<tr>
<td>ContainerListingDetails</td>
<td>Specifies which details to include when listing the containers in this storage account.</td>
</tr>
<tr>
<td>DeleteSnapshotsOption</td>
<td>The set of options describing delete operation.</td>
</tr>
<tr>
<td>DriveMountOptions</td>
<td></td>
</tr>
<tr>
<td>LeaseStatus</td>
<td>The lease status of the blob.</td>
</tr>
<tr>
<td>MessageUpdateFields</td>
<td>Specifies the settings to update in a queue message.</td>
</tr>
<tr>
<td>QueueListingDetails</td>
<td>Specifies which details to include when listing queues in this storage account.</td>
</tr>
<tr>
<td>SharedAccessPermissions</td>
<td>Specifies the set of possible permissions for a shared access policy.</td>
</tr>
<tr>
<td>StorageErrorCode</td>
<td>Describes error codes that may be returned by the Windows Azure storage services or the storage client library.</td>
</tr>
</tbody>
</table>
**AccessCondition Structure**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.]

Represents a set of access conditions to be used for operations against the storage services.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As AccessCondition
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Structure AccessCondition</code></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td><code>public struct AccessCondition</code></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><code>public value class AccessCondition</code></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
AccessCondition Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Specifying Conditional Headers for Blob Service Operations
How to Conditionally Refresh a Local Copy of a Blob
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a set of access conditions to be used for operations against the storage services.

The following tables list the members exposed by the `AccessCondition` type.
## Public Fields

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>Indicates that no access condition is set.</td>
</tr>
</tbody>
</table>
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>Overridden. (Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>Overridden. (Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>IfMatch</td>
<td>Returns an access condition such that an operation will be performed only if the resource's ETag value matches the ETag value provided.</td>
</tr>
<tr>
<td>IfModifiedSince</td>
<td>Returns an access condition such that an operation will be performed only if the resource has been modified since the specified time.</td>
</tr>
<tr>
<td>IfNoneMatch</td>
<td>Returns an access condition such that an operation will be performed only if the resource's ETag value does not match the ETag value provided.</td>
</tr>
<tr>
<td>IfNotModifiedSince</td>
<td>Returns an access condition such that an operation will be performed only if the resource has not been modified since the specified time.</td>
</tr>
<tr>
<td>ToString</td>
<td>Overridden. (Inherited from Object)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Finalize</code></td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
<tr>
<td><code>MemberwiseClone</code></td>
<td>(Inherited from <code>Object</code>)</td>
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</table>

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See Also

Reference

AccessCondition Structure
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Other Resources

Specifying Conditional Headers for Blob Service Operations
How to Conditionally Refresh a Local Copy of a Blob
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Fields

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<th>Name</th>
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</tr>
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<tbody>
<tr>
<td>None</td>
<td>Indicates that no access condition is set.</td>
</tr>
</tbody>
</table>
See Also

Reference
AccessCondition Structure
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Specifying Conditional Headers for Blob Service Operations
How to Conditionally Refresh a Local Copy of a Blob
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Indicates that no access condition is set.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim value As <em>AccessCondition</em></td>
</tr>
<tr>
<td>value = <em>AccessCondition</em>.None</td>
</tr>
</tbody>
</table>
## Syntax

### Visual Basic

```vbnet
Public Shared ReadOnly None As AccessCondition
```

### C#

```csharp
public static readonly AccessCondition None
```

### C++

```cpp
public:
static initonly AccessCondition None
```

### J#

```jsharp```

### JScript

```js```
Platforms

Development Platforms
See Also

Reference
AccessCondition Structure
AccessCondition Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Specifying Conditional Headers for Blob Service Operations
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✗ Equals</td>
<td>Overridden. (Inherited from Object)</td>
</tr>
<tr>
<td>✗ GetHashCode</td>
<td>Overridden. (Inherited from Object)</td>
</tr>
<tr>
<td>✗ GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>✗ IfMatch</td>
<td>Returns an access condition such that an operation will be performed only if the resource's ETag value matches the ETag value provided.</td>
</tr>
<tr>
<td>✗ IfModifiedSince</td>
<td>Returns an access condition such that an operation will be performed only if the resource has been modified since the specified time.</td>
</tr>
<tr>
<td>✗ IfNoneMatch</td>
<td>Returns an access condition such that an operation will be performed only if the resource's ETag value does not match the ETag value provided.</td>
</tr>
<tr>
<td>✗ IfNotModifiedSince</td>
<td>Returns an access condition such that an operation will be performed only if the resource has not been modified since the specified time.</td>
</tr>
<tr>
<td>✗ ToString</td>
<td>Overridden. (Inherited from Object)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Finalize</code></td>
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</tr>
<tr>
<td><code>MemberwiseClone</code></td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
</tbody>
</table>
See Also

Reference
AccessCondition Structure
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Specifying Conditional Headers for Blob Service Operations
How to Conditionally Refresh a Local Copy of a Blob
Returns an access condition such that an operation will be performed only if the resource's ETag value matches the ETag value provided.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbscript
Dim etag As String
Dim returnValue As AccessCondition

returnValue = AccessCondition.IfMatch(etag)
```
## Syntax

### Visual Basic

```
Public Shared Function IfMatch ( _
    etag As String _
) As AccessCondition
```

### C#

```
public static AccessCondition IfMatch ( 
    string etag
)
```

### C++

```
public:
static AccessCondition IfMatch ( 
    String^ etag
)
```

### J#

```
```

### JScript

```
```

### Parameters

- **etag**
  
  The ETag value to check.

### Return Value

A structure specifying the *If-Match* condition.
The following example deletes a blob if its ETag matches a specified value.

```csharp
static void DeleteIfMatch(Uri blobEndpoint, string accountName, string accountKey, string eTag)
{
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to the blob.
    CloudBlob blob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    //Indicate that any snapshots should be deleted.
    BlobRequestOptions options = new BlobRequestOptions();
    options.DeleteSnapshotsOption = DeleteSnapshotsOption.IncludeSnapshots;

    //Specify the if-match condition. The blob will be deleted if its ETag matches the value passed in.
    options.AccessCondition = AccessCondition.IfMatch(eTag);

    //Delete the blob if the condition is met.
    blob.Delete(options);
}
```
Remarks

Setting this access condition modifies the request to include the HTTP *If-Match* conditional header.

If this access condition is set, the operation is performed only if the ETag of the resource matches the specified ETag.

See [Specifying Conditional Headers for Blob Service Operations](#) for more information.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
AccessCondition Structure
AccessCondition Members
Microsoft.WindowsAzure.StorageClient Namespace
AccessCondition.IfModifiedSince Method

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns an access condition such that an operation will be performed only if the resource has been modified since the specified time.

Namespace: Microsoft.WindowsAzure.StorageClient
## Usage

**Visual Basic**

```vbnet
Dim lastModifiedUtc As DateTime
Dim returnValue As AccessCondition

returnValue = AccessCondition.IfModifiedSince(lastModifiedUtc)
```
### Syntax

**Visual Basic**

```
Public Shared Function IfModifiedSince (_
    lastModifiedUtc As DateTime _
) As AccessCondition
```

**C#**

```
pública estática AccessCondition IfModifiedSince (  
    DateTime lastModifiedUtc
)
```

**C++**

```
public:
    estatica AccessCondition IfModifiedSince (  
    DateTime lastModifiedUtc
)
```

**J#**

```
```

**JScript**

```
```

### Parameters

- **lastModifiedUtc**
  
  The last-modified time for the resource, expressed as a UTC value.

### Return Value

A structure specifying the *If-Modified-Since* condition.
Example

The following code example checks an access condition on the source blob and copies the blob if the condition is met.

C#

```csharp
static void CopyIfModifiedSince(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to the source blob.
    CloudBlob sourceBlob = blobClient.GetBlobReference("mycontainer/myblob.txt");
    sourceBlob.FetchAttributes();

    //Get a reference to the destination blob.
    CloudBlob destBlob = blobClient.GetBlobReference("mycontainer/copy-if-modified-since.txt");
    BlobRequestOptions options = new BlobRequestOptions();
    DateTime dt = new DateTime(2010, 9, 1, 0, 0, 0, DateTimeKind.Utc);

    try
    {
        //Copy the source blob to the destination blob if the source blob has been modified since 9/1/2010.
        options.CopySourceAccessCondition = AccessCondition.IfModifiedSince(dt.ToUniversalTime());
        destBlob.CopyFromBlob(sourceBlob, options);
    }
    catch (StorageClientException e)
    {
        if (e.StatusCode == HttpStatusCode.PreconditionFailed)
        {
            Console.WriteLine("Access condition not met - blob "+ sourceBlob.Uri + " has not been modified since " + dt.ToUniversalTime());
        }
        else
        {
            Console.WriteLine("Error code: " + e.ErrorCode);
        }
    }
}
```
Remarks

Setting this access condition modifies the request to include the HTTP If-Modified-Since conditional header.

If this access condition is set, the operation is performed only if the resource has been modified since the specified time.

See Specifying Conditional Headers for Blob Service Operations for more information.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
AccessCondition Structure
AccessCondition Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Specifying Conditional Headers for Blob Service Operations
How to Conditionally Refresh a Local Copy of a Blob
AccessCondition.IfNoneMatch Method

Returns an access condition such that an operation will be performed only if the resource’s ETag value does not match the ETag value provided.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Usage

#### Visual Basic

```visualbasic
Dim etag As String
Dim returnValue As AccessCondition

returnValue = AccessCondition.IfNoneMatch(etag)
```
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| `Public Shared Function IfNoneMatch ( _
  etag As String _
) As AccessCondition` |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>`public static AccessCondition IfNoneMatch (</td>
</tr>
</tbody>
</table>
`string etag` |
| ) |

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>`public:</td>
</tr>
</tbody>
</table>
`static AccessCondition IfNoneMatch ( |
`String^ etag` |
| ) |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

| JScript |

**Parameters**

`etag`

The ETag value to check.

**Return Value**

A structure specifying the _If-None-Match_ condition.
Example

The following example sets the if-none-match condition to upload a blob only if it does not already exist.

```csharp
static void UploadIfNotExist(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to the blob.
    CloudBlob blob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    //Specify the if-none-match condition.
    BlobRequestOptions options = new BlobRequestOptions();
    options.AccessCondition = AccessCondition.IfNoneMatch("*");

    try
    {
        //Upload the blob only if it does not already exist.
        blob.UploadText("Upload this blob if it does not already exist.", Encoding.UTF8, options);
    }
    catch (StorageClientException e)
    {
        if (e.ErrorCode == StorageErrorCode.BlobAlreadyExists)
        {
            Console.WriteLine("Blob was not uploaded because it already exists.");
        }
        else
        {
            Console.WriteLine(e.Message);
        }
    }
}
```
Remarks

Setting this access condition modifies the request to include the HTTP If-None-Match conditional header.

If this access condition is set, the operation is performed only if the ETag of the resource does not match the specified ETag.

To perform the operation only if the resource does not exist, pass the wildcard character (*) for the *etag* parameter.

See Specifying Conditional Headers for Blob Service Operations for more information.
Thread Safety

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
AccessCondition Structure
AccessCondition Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Specifying Conditional Headers for Blob Service Operations
Returns an access condition such that an operation will be performed only if the resource has not been modified since the specified time.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim lastModifiedUtc As DateTime
Dim returnValue As AccessCondition

returnValue = AccessCondition.IfNotModifiedSince(lastModifiedUtc)
```
### Syntax

#### Visual Basic

```vbnet
Public Shared Function IfNotModifiedSince ( _
    lastModifiedUtc As DateTime _
) As AccessCondition
```

#### C#

```csharp
public static AccessCondition IfNotModifiedSince (DateTime lastModifiedUtc)
```

#### C++

```cpp
public:
static AccessCondition IfNotModifiedSince (DateTime lastModifiedUtc)
```

#### J#

```jsharp

```

#### JScript

```jscript

```

### Parameters

- `lastModifiedUtc`: The last-modified time for the resource, expressed as a UTC value.

### Return Value

A structure specifying the `If-Unmodified-Since` condition.
Example

The following code example checks an access condition on the source blob and copies the blob if the condition is met.

```csharp
static void CopyIfNotModifiedSince(Uri blobEndpoint,
                                   string accountName,
                                   string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint,
                                                      new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to the source blob.
    CloudBlob sourceBlob = blobClient.GetBlobReference("mycontainer/myblob.txt");
    sourceBlob.FetchAttributes();

    //Get a reference to the destination blob.
    CloudBlob destBlob = blobClient.GetBlobReference("mycontainer/copy-if-not-modified-since.txt");
    BlobRequestOptions options = new BlobRequestOptions();
    DateTime dt = new DateTime(2010, 9, 1, 0, 0, 0, DateTimeKind.Utc);

    try
    {
        //Copy the source blob to the destination blob if it has not been modified since 9/1/2010.
        options.CopySourceAccessCondition = AccessCondition.IfNotModifiedSince(dt.ToUniversalTime());
        destBlob.CopyFromBlob(sourceBlob, options);
    }
    catch (StorageClientException e)
    {
        if (e.StatusCode == HttpStatusCode.PreconditionFailed)
        {
            Console.WriteLine("Access condition not met - blob "+ sourceBlob.Uri + " has been modified since "+ dt.ToUniversalTime());
        }
        else
        {
            Console.WriteLine("Error code: " + e.ErrorCode);
        }
    }
}
```
**Remarks**

Setting this access condition modifies the request to include the HTTP `If-Unmodified-Since` conditional header.

If this access condition is set, the operation is performed only if the resource has not been modified since the specified time.

See [Specifying Conditional Headers for Blob Service Operations](#) for more information.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
AccessCondition Structure
AccessCondition Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Specifying Conditional Headers for Blob Service Operations
BlobAttributes Class

See Also  Members

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a blob's attributes, including its properties and metadata.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As BlobAttributes
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public Class BlobAttributes</td>
<td></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public class BlobAttributes</td>
<td></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td></td>
</tr>
<tr>
<td>public ref class BlobAttributes</td>
<td></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
Microsoft.WindowsAzure.StorageClient.BlobAttributes
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobAttributes Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a blob's attributes, including its properties and metadata.

The following tables list the members exposed by the BlobAttributes type.
## Public Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BlobAttributes</td>
<td>Overloaded.</td>
</tr>
</tbody>
</table>

[Top]
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Metadata</strong></td>
<td>Gets the user-defined metadata for the blob.</td>
</tr>
<tr>
<td><strong>Properties</strong></td>
<td>Gets the blob's system properties.</td>
</tr>
<tr>
<td><strong>Snapshot</strong></td>
<td>Gets the date and time that the blob snapshot was taken, if this blob is a snapshot.</td>
</tr>
<tr>
<td><strong>Uri</strong></td>
<td>Gets the blob's URI.</td>
</tr>
</tbody>
</table>
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
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</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
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[Top](#)
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
See Also

Reference

BlobAttributes Class
Microsoft.WindowsAzure.StorageClient Namespace
BlobAttributes Constructor

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BlobAttributes ()</td>
<td>Initializes a new instance of the BlobAttributes class.</td>
</tr>
<tr>
<td>BlobAttributes (BlobAttributes)</td>
<td>Initializes a new instance of the BlobAttributes class from an existing BlobAttributes object.</td>
</tr>
</tbody>
</table>
See Also

Reference
BlobAttributes Class
BlobAttributes Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobAttributes Constructor ()

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the BlobAttributes class.

Namespace: Microsoft.WindowsAzure.StorageClient
## Usage

**Visual Basic**

```vbnet
Dim instance As New BlobAttributes
```
<table>
<thead>
<tr>
<th>Syntax</th>
<th>Visual Basic</th>
<th>C#</th>
<th>C++</th>
<th>J#</th>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Public Sub New</td>
<td>public BlobAttributes ()</td>
<td>public: BlobAttributes ()</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Remarks

The default constructor initializes any fields to their default values.
Platforms

Development Platforms
See Also

Reference
BlobAttributes Class
BlobAttributes Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobAttributes Constructor (BlobAttributes)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the BlobAttributes class from an existing BlobAttributes object.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

**Visual Basic**

```vbnet
Dim other As BlobAttributes
Dim instance As New BlobAttributes(other)
```
## Syntax

### Visual Basic

```
Public Sub New ( _
    other As BlobAttributes _
)
```

### C#

```
public BlobAttributes (  
    BlobAttributes other
)
```

### C++

```
public:
BlobAttributes (  
    BlobAttributes^ other
)
```

### J#

```
```

### JScript

```
```

### Parameters

**other**

The set of blob attributes to clone.
 Platforms

 Development Platforms
See Also

Reference
BlobAttributes Class
BlobAttributes Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobAttributes Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
</tbody>
</table>
See Also

Reference

BlobAttributes Class
Microsoft.WindowsAzure.StorageClient Namespace
BlobAttributes Properties

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metadata</td>
<td>Gets the user-defined metadata for the blob.</td>
</tr>
<tr>
<td>Properties</td>
<td>Gets the blob's system properties.</td>
</tr>
<tr>
<td>Snapshot</td>
<td>Gets the date and time that the blob snapshot was taken, if this blob is a snapshot.</td>
</tr>
<tr>
<td>Uri</td>
<td>Gets the blob's URI.</td>
</tr>
</tbody>
</table>
See Also

Reference
- BlobAttributes Class
- Microsoft.WindowsAzure.StorageClient Namespace
BlobAttributes.Metadata Property

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the user-defined metadata for the blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```visualbasic
Dim instance As BlobAttributes
Dim value As NameValueCollection

value = instance.Metadata
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Property Metadata As NameValueCollection</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public NameValueCollection Metadata { get; }</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: property NameValueCollection^ Metadata { NameValueCollection^ get (); }</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

The blob's metadata, as a collection of name-value pairs.
The following code example lists blob properties and metadata.

```csharp
static void ListBlobPropertiesAndMetadata(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a blob.
    CloudBlob blob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    //Populate the blob's attributes.
    blob.FetchAttributes();

    //List some blob properties.
    Console.WriteLine("Blob: " + blob.Attributes.Uri);
    Console.WriteLine();

    Console.WriteLine("Blob properties:");
    Console.WriteLine("\tBlobType: " + blob.Attributes.Properties.BlobType);
    Console.WriteLine("\tLastModifiedUTC: " + blob.Attributes.Properties.LastModifiedUtc);
    Console.WriteLine("\tETag: " + blob.Attributes.Properties.ETag);
    Console.WriteLine();

    //Enumerate the blob's metadata.
    foreach (var metadataKey in blob.Metadata.Keys)
    {
        Console.WriteLine("Metadata name: " + metadataKey.ToString());
    }
}
```
Remarks

Returning a reference to a blob does not automatically provide access to the blob's metadata. To populate a blob's metadata, call the `FetchAttributes` method or the `BeginFetchAttributes` and `EndFetchAttributes` methods. Calling these methods before reading a blob's metadata will ensure that the metadata values are up-to-date.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

DevelopmentPlatforms
Change History
See Also

Reference
BlobAttributes Class
BlobAttributes Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Setting and Retrieving Properties and Metadata for Blob Resources
BlobAttributes.Properties Property

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the blob's system properties.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

#### Visual Basic

```vbnet
Dim instance As BlobAttributes
Dim value As BlobProperties

value = instance.Properties
```
## Syntax

<table>
<thead>
<tr>
<th></th>
<th>Visual Basic</th>
<th>C#</th>
<th>C++</th>
<th>J#</th>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Public</strong></td>
<td>Public Property Properties As <strong>BlobProperties</strong></td>
<td>public <strong>BlobProperties</strong> Properties { get; }</td>
<td>public: property <strong>BlobProperties</strong> Properties {</td>
<td><strong>Property</strong> Value</td>
<td><strong>Property</strong> Value</td>
</tr>
<tr>
<td><strong>as</strong></td>
<td></td>
<td></td>
<td><strong>BlobProperties</strong>^ get ();</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>get</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Value</strong></td>
<td></td>
<td></td>
<td></td>
<td>The blob's properties.</td>
<td></td>
</tr>
</tbody>
</table>
The following code example lists blob properties and metadata.

```csharp
static void ListBlobPropertiesAndMetadata(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a blob.
    CloudBlob blob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    //Populate the blob's attributes.
    blob.FetchAttributes();

    //List some blob properties.
    Console.WriteLine("Blob:	" + blob.Attributes.Uri);
    Console.WriteLine();
    Console.WriteLine("Blob	properties:");
    Console.WriteLine("BlobType:	" + blob.Attributes.Properties.BlobType);
    Console.WriteLine("LastModifiedUTC:	" + blob.Attributes.Properties.LastModifiedUtc);
    Console.WriteLine("ETag:	" + blob.Attributes.Properties.ETag);
    Console.WriteLine();

    //Enumerate the blob's metadata.
    foreach (var metadataKey in blob.Metadata.Keys)
    {
        Console.WriteLine("Metadata name:	" + metadataKey.ToString());
    }
}
```
Remarks

Returning a reference to a blob does not automatically provide access to the blob's properties, because it does not necessarily involve a request to the service. To populate a blob's properties, call the `FetchAttributes` method or the `BeginFetchAttributes` and `EndFetchAttributes` methods. Calling these methods before reading a blob's properties will ensure that the property values are up-to-date.
 Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
BlobAttributes Class
BlobAttributes Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Setting and Retrieving Properties and Metadata for Blob Resources
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the date and time that the blob snapshot was taken, if this blob is a snapshot.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As BlobAttributes
Dim value As Nullable(Of DateTime)

value = instance.Snapshot
```
## Syntax

### Visual Basic

Public Property Snapshot As Nullable(Of DateTime)

### C#

public Nullable<DateTime> Snapshot { get; }

### C++

public:
property Nullable<DateTime> Snapshot { 
    Nullable<DateTime> get();
}

### J#

### JScript

### Property Value

The blob's snapshot timestamp if the blob is a snapshot; otherwise, **null**.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobAttributes Class
BlobAttributes Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobAttributes.Uri Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the blob's URI.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As BlobAttributes
Dim value As Uri

value = instance.Uri
```
## Syntax

### Visual Basic

```
Public Property Uri As Uri
```

### C#

```
public Uri Uri { get; }
```

### C++

```
public:
property Uri^ Uri {
    Uri^ get ();
}
```

### J#

```
```

### JScript

```
```

## Property Value

The absolute URI to the blob.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobAttributes Class
BlobAttributes Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobContainerAttributes Class

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a container's attributes, including its properties and metadata.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As BlobContainerAttributes
```
### Syntax

<table>
<thead>
<tr>
<th></th>
<th>Visual Basic</th>
<th>C#</th>
<th>C++</th>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Public Class BlobContainerAttributes</td>
<td>public class BlobContainerAttributes</td>
<td>public ref class BlobContainerAttributes</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobContainerAttributes Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a container's attributes, including its properties and metadata.

The following tables list the members exposed by the BlobContainerAttributes type.
### Public Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BlobContainerAttributes</td>
<td>Initializes a new instance of the BlobContainerAttributes class.</td>
</tr>
</tbody>
</table>
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metadata</td>
<td>Gets the user-defined metadata for the container.</td>
</tr>
<tr>
<td>Name</td>
<td>Gets the name of the container.</td>
</tr>
<tr>
<td>Properties</td>
<td>Gets the container's system properties.</td>
</tr>
<tr>
<td>Uri</td>
<td>Gets the container's URI.</td>
</tr>
</tbody>
</table>

[Top]
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
See Also

Reference

BlobContainerAttributes Class
Microsoft.WindowsAzure.StorageClient Namespace
BlobContainerAttributes Constructor

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the BlobContainerAttributes class.

Namespace: Microsoft.WindowsAzure.StorageClient
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim instance As New <em>BlobContainerAttributes</em></td>
</tr>
<tr>
<td>Syntax</td>
</tr>
<tr>
<td>----------</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Public Sub New</td>
</tr>
<tr>
<td><strong>C#</strong></td>
</tr>
<tr>
<td>public BlobContainerAttributes ()</td>
</tr>
<tr>
<td><strong>C++</strong></td>
</tr>
<tr>
<td>public: BlobContainerAttributes ()</td>
</tr>
<tr>
<td><strong>J#</strong></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
</tr>
</tbody>
</table>
Remarks

The default constructor initializes any fields to their default values.
Platforms

Development Platforms
See Also

Reference

BlobContainerAttributes Class
BlobContainerAttributes Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobContainerAttributes Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods (see also Protected Methods)

<table>
<thead>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Equals</code></td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
<tr>
<td><code>GetHashCode</code></td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
<tr>
<td><code>GetType</code></td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
<tr>
<td><code>ToString</code></td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Finalize</code></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td><code>MemberwiseClone</code></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
See Also

Reference
BlobContainerAttributes Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metadata</td>
<td>Gets the user-defined metadata for the container.</td>
</tr>
<tr>
<td>Name</td>
<td>Gets the name of the container.</td>
</tr>
<tr>
<td>Properties</td>
<td>Gets the container's system properties.</td>
</tr>
<tr>
<td>Uri</td>
<td>Gets the container's URI.</td>
</tr>
</tbody>
</table>
See Also

Reference
BlobContainerAttributes Class
Microsoft.WindowsAzure.StorageClient Namespace
BlobContainerAttributes.Metadata Property

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the user-defined metadata for the container.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

Visual Basic

Dim instance As BlobContainerAttributes
Dim value As NameValueCollection

value = instance.Metadata
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Property Metadata As <strong>NameValueCollection</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public <strong>NameValueCollection</strong> Metadata { get; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: property <strong>NameValueCollection</strong> Metadata {</td>
</tr>
<tr>
<td>NameValueCollection^ get ();</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NameValueCollection</strong>^</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NameValueCollection</strong>^</td>
</tr>
</tbody>
</table>

## Property Value

The container's metadata, as a collection of name-value pairs.
Example

The following code example lists container properties and metadata.

```csharp
static void ListContainerPropertiesAndMetadata(Uri blobEndpoint, string accountName, string accountKey) {
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a container.
    CloudBlobContainer container = blobClient.GetContainerReference("mycontainer");

    //Populate the container's attributes.
    container.FetchAttributes();

    //List some container properties.
    Console.WriteLine("Container: " + container.Name);
    Console.WriteLine();

    Console.WriteLine("Container properties:");
    Console.WriteLine("\tLastModifiedUTC: " + container.Attributes.Properties.LastModifiedUtc);
    Console.WriteLine("\tETag: " + container.Attributes.Properties.ETag);
    Console.WriteLine();

    //Enumerate the container's metadata.
    foreach (var metadataKey in container.Metadata.Keys) {
        Console.WriteLine("Metadata name: " + metadataKey.ToString());
    }
}
```
Remarks

Returning a reference to a container does not automatically provide access to the container's metadata. To populate a container's metadata, call the `FetchAttributes` method or the `BeginFetchAttributes` and `EndFetchAttributes` methods. Calling one of these methods before reading a container's metadata will ensure that the metadata values are up-to-date.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
BlobContainerAttributes Class
BlobContainerAttributes Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Setting and Retrieving Properties and Metadata for Blob Resources
BlobContainerAttributes.Name Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the name of the container.

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

Visual Basic

Dim instance As BlobContainerAttributes
Dim value As String

value = instance.Name
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Property Name As <strong>String</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>public <strong>string</strong> Name { get; }</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
<th></th>
</tr>
</thead>
</table>
| public: property **String**^ Name {
| **String**^ get (); | |
| } | |

<table>
<thead>
<tr>
<th>J#</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Property Value

The container's name.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

BlobContainerAttributes Class
BlobContainerAttributes Members
Microsoft.WindowsAzure.StorageClient Namespace
Gets the container's system properties.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As BlobContainerAttributes
Dim value As BlobContainerProperties

value = instance.Properties
```
## Syntax

### Visual Basic

| Public Property Properties As BlobContainerProperties |

### C#

| public BlobContainerProperties Properties { get; } |

### C++

| public: property BlobContainerProperties^ Properties { BlobContainerProperties^ get (); } |

### J#

| |

### JScript

| |

## Property Value

The container's properties.
Example
The following code example lists container properties and metadata.

static void ListContainerPropertiesAndMetadata(Uri blobEndpoi
{
//Create service client for credentialed access to the Bl
CloudBlobClient blobClient = new CloudBlobClient(blobEndp

//Get a reference to a container.
CloudBlobContainer container = blobClient.GetContainerRef
//Populate the container's attributes.
container.FetchAttributes();
//List some container properties.
Console.WriteLine("Container: " + container.Name);
Console.WriteLine();

Console.WriteLine("Container properties:");
Console.WriteLine("\tLastModifiedUTC: " + container.Attri
Console.WriteLine("\tETag: " + container.Attributes.Prope
Console.WriteLine();

//Enumerate the container's metadata.
foreach (var metadataKey in container.Metadata.Keys)
{
Console.WriteLine("Metadata name: " + metadataKey.ToS
Console.WriteLine("Metadata value: " + container.Meta
}
}


Remarks

Returning a reference to a container does not automatically provide access to the container's properties. To populate a container's properties, call the `FetchAttributes` method or the `BeginFetchAttributes` and `EndFetchAttributes` methods. Calling one of these methods before reading a container's properties will ensure that the property values are up-to-date.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
BlobContainerAttributes Class
BlobContainerAttributes Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobContainerProperties

Other Resources
Setting and Retrieving Properties and Metadata for Blob Resources
BlobContainerAttributes.Uri Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the container's URI.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As BlobContainerAttributes
Dim value As Uri

value = instance.Uri
```
### Syntax

#### Visual Basic

<table>
<thead>
<tr>
<th>Public Property Uri As Uri</th>
</tr>
</thead>
</table>

#### C#

<table>
<thead>
<tr>
<th>public Uri Uri { get; }</th>
</tr>
</thead>
</table>

#### C++

<table>
<thead>
<tr>
<th>public: property Uri^ Uri { Uri^ get (); }</th>
</tr>
</thead>
</table>

#### J#

<table>
<thead>
<tr>
<th>Property Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>The absolute URI to the container.</td>
</tr>
</tbody>
</table>
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobContainerAttributes Class
BlobContainerAttributes Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobContainerPermissions Class

See Also  Members

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents the permissions for a container.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim instance As <strong>BlobContainerPermissions</strong></td>
</tr>
</tbody>
</table>
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td>Public Class BlobContainerPermissions</td>
</tr>
<tr>
<td>C#</td>
<td>public class BlobContainerPermissions</td>
</tr>
<tr>
<td>C++</td>
<td>public ref class BlobContainerPermissions</td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Remarks

The container's permissions encompass two types of access settings for the container:

- The container's public access setting, represented by the `PublicAccess` property. The public access setting indicates whether the container and its blobs can be read via an anonymous request.

- The container's access policies, represented by the `SharedAccessPolicies` property. This setting references a collection of shared access policies for the container. A shared access policy may be used to control the start time, expiry time, and permissions for one or more shared access signatures. A container can have up to 5 shared access policies. A shared access signature provides delegated access to the container's resources.

For more information on managing container permissions, see [Managing Access to Containers and Blobs](#).
Inheritance Hierarchy

System.Object
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
See Also

Reference
BlobContainerPermissions Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Managing Access to Containers and Blobs
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents the permissions for a container.

The following tables list the members exposed by the BlobContainerPermissions type.
## Public Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BlobContainerPermissions</td>
<td>Initializes a new instance of the BlobContainerPermissions class.</td>
</tr>
</tbody>
</table>

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## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PublicAccess</td>
<td>Gets or sets the public access setting for the container.</td>
</tr>
<tr>
<td>SharedAccessPolicies</td>
<td>Gets the set of shared access policies for the container.</td>
</tr>
</tbody>
</table>

[Top]
## Public Methods (see also **Protected Methods**)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>

[Top](#)
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>

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See Also

Reference
BlobContainerPermissions Class
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Managing Access to Containers and Blobs
BlobContainerPermissions Constructor

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the BlobContainerPermissions class.

Namespace: Microsoft.WindowsAzure.StorageClient
## Usage

### Visual Basic

```
Dim instance As New BlobContainerPermissions
```
### Syntax

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Public Sub New</td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>public BlobContainerPermissions ()</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>public: BlobContainerPermissions ()</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
Remarks

The default constructor initializes any fields to their default values.
Platforms

Development Platforms
See Also

Reference
BlobContainerPermissions Class
BlobContainerPermissions Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobContainerPermissions Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
**Public Methods (see also Protected Methods)**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
See Also

Reference
BlobContainerPermissions Class
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Managing Access to Containers and Blobs
<table>
<thead>
<tr>
<th>BlobContainerPermissions Properties</th>
</tr>
</thead>
</table>

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PublicAccess</code></td>
<td>Gets or sets the public access setting for the container.</td>
</tr>
<tr>
<td><code>SharedAccessPolicies</code></td>
<td>Gets the set of shared access policies for the container.</td>
</tr>
</tbody>
</table>
See Also

Reference
BlobContainerPermissions Class
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Managing Access to Containers and Blobs
BlobContainerPermissions.PublicAccess Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

 Gets or sets the public access setting for the container.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

### Visual Basic

```vbnet
Dim instance As BlobContainerPermissions
Dim value As BlobContainerPublicAccessType

value = instance.PublicAccess

instance.PublicAccess = value
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Property PublicAccess As BlobContainerPublicAccessType</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public BlobContainerPublicAccessType PublicAccess { ... }</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: BlobContainerPublicAccessType PublicAccess = BlobContainerPublicAccessType get (); void set (BlobContainerPublicAccessType value);</code></td>
</tr>
<tr>
<td>J#</td>
<td>-</td>
</tr>
<tr>
<td>JScript</td>
<td>-</td>
</tr>
</tbody>
</table>

## Property Value

Type: `Microsoft.WindowsAzure.StorageClient.BlobContainerPublicAccessType`

The public access setting for the container.
Remarks

The public access setting indicates whether the container and its blobs can be read via an anonymous request.

The BlobContainerPublicAccessType enumeration provides three levels of anonymous read access: Off, which prevents anonymous access; Blob, which permits anonymous read access to blob resources, but not to container metadata or to the list of blobs in the container; and Container, which permits anonymous read access to blob resources, container metadata, and the list of blobs in the container.

For more information on managing anonymous access to Blob service resource see Setting Access Control for Containers.
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
See Also

Reference

BlobContainerPermissions Class
BlobContainerPermissions Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources

Managing Access to Containers and Blobs
Gets the set of shared access policies for the container.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As BlobContainerPermissions
Dim value As SharedAccessPolicies

value = instance.SharedAccessPolicies
```
## Syntax

### Visual Basic

Public Property SharedAccessPolicies As SharedAccessPolicies

### C#

public SharedAccessPolicies SharedAccessPolicies { get; }

### C++

public:

property SharedAccessPolicies^ SharedAccessPolicies

SharedAccessPolicies^ get();

### J#

### JScript

### Property Value

Type: [Microsoft.WindowsAzure.StorageClient.SharedAccessPolicies](#)

The set of shared access policies for the container.
Remarks

This setting references a collection of shared access policies for the container. A shared access policy may be used to control the start time, expiry time, and permissions for one or more shared access signatures. A container can have up to 5 shared access policies. A shared access signature provides delegated access to the container's resources.

For more information on shared access policies, see Creating a Shared Access Signature and Specifying a Container-Level Access Policy.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobContainerPermissions Class
BlobContainerPermissions Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Restricting Access to Containers and Blobs
BlobContainerProperties Class

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents the system properties for a container.

Namespace: Microsoft.WindowsAzure.StorageClient
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
</tr>
</tbody>
</table>

```vbnet
Dim instance As BlobContainerProperties
```
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public Class BlobContainerProperties</td>
<td></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public class BlobContainerProperties</td>
<td></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td></td>
</tr>
<tr>
<td>public ref class BlobContainerProperties</td>
<td></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
- **Thread Safety**

  Any public static (*Shared* in Visual Basic) members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobContainerProperties Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents the system properties for a container.

The following tables list the members exposed by the BlobContainerProperties type.
## Public Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BlobContainerProperties</td>
<td></td>
</tr>
</tbody>
</table>

[Top](#)
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETag</td>
<td>Gets the ETag value for the container.</td>
</tr>
<tr>
<td>LastModifiedUtc</td>
<td>Gets the container's last-modified time, expressed as a UTC value.</td>
</tr>
</tbody>
</table>
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>

[Top](#)
### Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>💀 <strong>Finalize</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>💀 <strong>MemberwiseClone</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>

[Top](#)
See Also

Reference

BlobContainerProperties Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the BlobContainerProperties Class.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim instance As New BlobContainerProperties</td>
</tr>
</tbody>
</table>
## Syntax

### Visual Basic

Public Sub New

### C#

public BlobContainerProperties ()

### C++

public: BlobContainerProperties ()

### J#

### JScript
Remarks

The default constructor initializes any fields to their default values.
Platforms

Development Platforms
See Also

Reference

BlobContainerProperties Class
BlobContainerProperties Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobContainerProperties Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
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<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Finalize</code></td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
<tr>
<td><code>MemberwiseClone</code></td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
</tbody>
</table>
See Also

Reference
BlobContainerProperties Class
Microsoft.WindowsAzure.StorageClient Namespace
BlobContainerProperties Properties

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ETag</strong></td>
<td>Gets the ETag value for the container.</td>
</tr>
<tr>
<td><strong>LastModifiedUtc</strong></td>
<td>Gets the container's last-modified time, expressed as a UTC value.</td>
</tr>
</tbody>
</table>
See Also

Reference

BlobContainerProperties Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the ETag value for the container.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As BlobContainerProperties
Dim value As String

value = instance.ETag
```
Syntax

Visual Basic

Public Property ETag As String

C#

public string ETag { get; }

C++

public:
property String^ ETag {
    String^ get ();
}

J#


JScript


Property Value

The container's ETag value.
Remarks

The ETag value is a unique identifier that is updated when a write operation is performed against the container. It may be used to perform operations conditionally, providing concurrency control and improved efficiency.

The IfMatch and IfNoneMatch methods take an ETag value and return an AccessCondition that may be specified on the request.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobContainerProperties Class
BlobContainerProperties Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the container's last-modified time, expressed as a UTC value.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As BlobContainerProperties
Dim value As DateTime

value = instance.LastModifiedUtc
### Syntax

**Visual Basic**

```vbnet
Public Property LastModifiedUtc As DateTime
```

**C#**

```csharp
public DateTime LastModifiedUtc { get; }
```

**C++**

```cpp
public:
property DateTime LastModifiedUtc {
    DateTime get ();
}
```

**J#**

```jsharp

```

**JScript**

```jscript

```

### Property Value

The container's last-modified time.
- **Thread Safety**

  Any public static (**Shared** in Visual Basic) members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

BlobContainerProperties Class
BlobContainerProperties Members
Microsoft.WindowsAzure.StorageClient Namespace
**BlobContainerPublicAccessType Enumeration**

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.]

Specifies the level of public access that is allowed on the container.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim instance As BlobContainerPublicAccessType
```
## Syntax

**Visual Basic**

```vbnet
Public Enumeration BlobContainerPublicAccessType
```

**C#**

```csharp
public enum BlobContainerPublicAccessType
```

**C++**

```cpp
public enum class BlobContainerPublicAccessType
```

**J#**

```jscript
```

**JScript**

```javascript
```
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blob</td>
<td>Blob-level public access. Anonymous clients can read the content and metadata of blobs within this container, but cannot read container metadata or list the blobs within the container.</td>
</tr>
<tr>
<td>Container</td>
<td>Container-level public access. Anonymous clients can read blob content and metadata and container metadata, and can list the blobs within the container.</td>
</tr>
<tr>
<td>Off</td>
<td>No anonymous access. Only the account owner can access resources in this container.</td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference

Microsoft.WindowsAzure.StorageClient Namespace
Provides error code strings that are specific to the Blob service.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
**Usage**

<table>
<thead>
<tr>
<th>Visual Basic</th>
<th></th>
</tr>
</thead>
</table>

### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public NotInheritable Class BlobErrorCodeStrings</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public static class BlobErrorCodeStrings</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public ref class BlobErrorCodeStrings abstract sealed</code></td>
</tr>
<tr>
<td>J#</td>
<td>-</td>
</tr>
<tr>
<td>JScript</td>
<td>-</td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
- **Thread Safety**
  
  Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Provides error code strings that are specific to the Blob service.

The following tables list the members exposed by the BlobErrorCodeStrings type.
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BlobAlreadyExists</td>
<td>Error code that may be returned when a client attempts to create a blob that already exists.</td>
</tr>
<tr>
<td>BlobNotFound</td>
<td>Error code that may be returned when a blob with the specified address cannot be found.</td>
</tr>
<tr>
<td>InvalidBlobOrBlock</td>
<td>Error code that may be returned when the specified block or blob is invalid.</td>
</tr>
<tr>
<td>InvalidBlockId</td>
<td>Error code that may be returned when a block ID is invalid.</td>
</tr>
<tr>
<td>InvalidBlockList</td>
<td>Error code that may be returned when a block list is invalid.</td>
</tr>
</tbody>
</table>
See Also

Reference
BlobErrorCodeStrings Class
Microsoft.WindowsAzure.StorageClient Namespace
BlobErrorCodeStrings Fields

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Fields

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BlobAlreadyExists</td>
<td>Error code that may be returned when a client attempts to create a blob that already exists.</td>
</tr>
<tr>
<td>BlobNotFound</td>
<td>Error code that may be returned when a blob with the specified address cannot be found.</td>
</tr>
<tr>
<td>InvalidBlobOrBlock</td>
<td>Error code that may be returned when the specified block or blob is invalid.</td>
</tr>
<tr>
<td>InvalidBlockId</td>
<td>Error code that may be returned when a block ID is invalid.</td>
</tr>
<tr>
<td>InvalidBlockList</td>
<td>Error code that may be returned when a block list is invalid.</td>
</tr>
</tbody>
</table>
See Also

Reference
BlobErrorCodeStrings Class
Microsoft.WindowsAzure.StorageClient Namespace
BlobErrorCodeStrings.BlobAlreadyExists Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Error code that may be returned when a client attempts to create a blob that already exists.

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

Visual Basic

Dim value As String

value = BlobErrorCodeStrings.BlobAlreadyExists
## Syntax

<table>
<thead>
<tr>
<th></th>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public</td>
<td>Const BlobAlreadyExists As <strong>String</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public</td>
<td>const <strong>string</strong> BlobAlreadyExists</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public:</td>
<td>literal <strong>String^</strong> BlobAlreadyExists</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference
BlobErrorCodeStrings Class
BlobErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobErrorCodeStrings.BlobNotFound Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Error code that may be returned when a blob with the specified address cannot be found.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

Visual Basic

<table>
<thead>
<tr>
<th>Dim value As <em>String</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>value = BlobErrorCodeStrings.BlobNotFound</td>
</tr>
</tbody>
</table>
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Const BlobNotFound As <em>String</em></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public const <em>string</em> BlobNotFound</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public: literal <em>String^</em> BlobNotFound</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference

BlobErrorCodeStrings Class
BlobErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Error code that may be returned when the specified block or blob is invalid.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| **Dim** value As **String**

value = **BlobErrorCodeStrings**.InvalidBlobOrBlock
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Const InvalidBlobOrBlock As <strong>String</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public const <strong>string</strong> InvalidBlobOrBlock</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: literal <strong>String</strong> InvalidBlobOrBlock</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>

Platforms

Development Platforms
See Also

Reference
BlobErrorCodeStrings Class
BlobErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
**BlobErrorCodeStrings.InvalidBlockId Field**

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Error code that may be returned when a block ID is invalid.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim value As String

value = BlobErrorCodeStrings.InvalidBlockId
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Const InvalidBlockId As String</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public const string InvalidBlockId</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: literal String^ InvalidBlockId</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference
BlobErrorCodeStrings Class
BlobErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobErrorCodeStrings.InvalidBlockList Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Error code that may be returned when a block list is invalid.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim value As String
value = BlobErrorCodeStrings.InvalidBlockList
```
## Syntax

### Visual Basic

Public Const InvalidBlockList As String

### C#

public const string InvalidBlockList

### C++

public:
    literal String^ InvalidBlockList

### J#

### JScript
 Platforms

 Development Platforms
See Also

Reference
BlobErrorCodeStrings Class
BlobErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobListingDetails Enumeration

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Specifies which items to include when listing a set of blobs.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As BlobListingDetails
```
## Syntax

### Visual Basic

```vbnet
<FlagsAttribute> _
Public Enumeration BlobListingDetails
```

### C#

```csharp
[FlagsAttribute]
public enum BlobListingDetails
```

### C++

```cpp
[FlagsAttribute]
public enum class BlobListingDetails
```

### J#

```jsharp```

### JScript

```jscript```
<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>All</strong></td>
<td>List all available committed blobs, uncommitted blobs, and snapshots, and return all metadata for those blobs.</td>
</tr>
<tr>
<td><strong>Metadata</strong></td>
<td>Retrieve blob metadata for each blob returned in the listing.</td>
</tr>
<tr>
<td><strong>None</strong></td>
<td>List only committed blobs, and do not return blob metadata.</td>
</tr>
<tr>
<td><strong>Snapshots</strong></td>
<td>List committed blobs and blob snapshots.</td>
</tr>
<tr>
<td><strong>UncommittedBlobs</strong></td>
<td>List committed and uncommitted blobs.</td>
</tr>
</tbody>
</table>
**Remarks**

These enumeration values can be combined using the OR operator (vertical bar in C#) to designate multiple fields in method parameters that expect this enumeration type.
 Platforms

Development Platforms
See Also

Reference
Microsoft.WindowsAzure.StorageClient Namespace
BlobProperties Class

See Also  Members

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents the system properties for a blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Dim instance As BlobProperties</code></td>
</tr>
</tbody>
</table>
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Class BlobProperties</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public class BlobProperties</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public ref class BlobProperties</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>
Inheritance Hierarchy

System.Object

**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobProperties Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobProperties Members

See Also  Constructors  Methods  Properties

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents the system properties for a blob.

The following tables list the members exposed by the BlobProperties type.
### Public Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BlobProperties</td>
<td>Overloaded.</td>
</tr>
</tbody>
</table>
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BlobType</td>
<td>Gets the type of the blob.</td>
</tr>
<tr>
<td>CacheControl</td>
<td>Gets or sets the cache-control value stored for the blob.</td>
</tr>
<tr>
<td>ContentEncoding</td>
<td>Gets or sets the content-encoding value stored for the blob.</td>
</tr>
<tr>
<td>ContentLanguage</td>
<td>Gets or sets the content-language value stored for the blob.</td>
</tr>
<tr>
<td>ContentMD5</td>
<td>Gets or sets the content-MD5 value stored for the blob.</td>
</tr>
<tr>
<td>ContentType</td>
<td>Gets or sets the content-type value stored for the blob.</td>
</tr>
<tr>
<td>ETag</td>
<td>Gets the blob's ETag value.</td>
</tr>
<tr>
<td>LastModifiedUtc</td>
<td>Gets the last-modified time for the blob, expressed as a UTC value.</td>
</tr>
<tr>
<td>LeaseStatus</td>
<td>Gets the blob's lease status.</td>
</tr>
<tr>
<td>Length</td>
<td>Gets the size of the blob, in bytes.</td>
</tr>
</tbody>
</table>
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="apple" alt="Finalize" /></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td><img src="apple" alt="MemberwiseClone" /></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>

[Top](#)
See Also

Reference

BlobProperties Class
Microsoft.WindowsAzure.StorageClient Namespace
BlobProperties Constructor

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BlobProperties ()</td>
<td>Initializes a new instance of the BlobProperties class.</td>
</tr>
<tr>
<td>BlobProperties (BlobProperties)</td>
<td>Initializes a new instance of the BlobProperties class based on an existing instance.</td>
</tr>
</tbody>
</table>
See Also

Reference
BlobProperties Class
BlobProperties Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the BlobProperties class.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As New BlobProperties
```
## Syntax

### Visual Basic

```
Public Sub New
```

### C#

```
public BlobProperties()
```

### C++

```
public:
BlobProperties()
```

### J#

```

```

### JScript

```

```
Remarks

The default constructor initializes any fields to their default values.
Platforms

Development Platforms
See Also

Reference
BlobProperties Class
BlobProperties Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobProperties Constructor (BlobProperties)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the BlobProperties class based on an existing instance.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

#### Visual Basic

```vbnet
Dim other As BlobProperties
Dim instance As New BlobProperties(other)
```
### Syntax

#### Visual Basic

```vbnet
Public Sub New ( _
    other As BlobProperties _
)
```

#### C#

```csharp
public BlobProperties (
    BlobProperties other
)
```

#### C++

```cpp
public:
BlobProperties (  
    BlobProperties^ other
)
```

#### J#

```
```

#### JScript

```
```

### Parameters

- **other**
  - The set of properties to clone.
Platforms

Development Platforms
See Also

Reference

BlobProperties Class
BlobProperties Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobProperties Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
See Also

Reference

BlobProperties Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BlobType</strong></td>
<td>Gets the type of the blob.</td>
</tr>
<tr>
<td><strong>CacheControl</strong></td>
<td>Gets or sets the cache-control value stored for the blob.</td>
</tr>
<tr>
<td><strong>ContentEncoding</strong></td>
<td>Gets or sets the content-encoding value stored for the blob.</td>
</tr>
<tr>
<td><strong>ContentLanguage</strong></td>
<td>Gets or sets the content-language value stored for the blob.</td>
</tr>
<tr>
<td><strong>ContentMD5</strong></td>
<td>Gets or sets the content-MD5 value stored for the blob.</td>
</tr>
<tr>
<td><strong>ContentType</strong></td>
<td>Gets or sets the content-type value stored for the blob.</td>
</tr>
<tr>
<td><strong>ETag</strong></td>
<td>Gets the blob's ETag value.</td>
</tr>
<tr>
<td><strong>LastModifiedUtc</strong></td>
<td>Gets the last-modified time for the blob, expressed as a UTC value.</td>
</tr>
<tr>
<td><strong>LeaseStatus</strong></td>
<td>Gets the blob's lease status.</td>
</tr>
<tr>
<td><strong>Length</strong></td>
<td>Gets the size of the blob, in bytes.</td>
</tr>
</tbody>
</table>
See Also

Reference
BlobProperties Class
Microsoft.WindowsAzure.StorageClient Namespace
 BlobProperties.BlobType Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the type of the blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim instance As BlobProperties
Dim value As BlobType

value = instance.BlobType
```
# Syntax

## Visual Basic

`Public Property BlobType As BlobType`

## C#

```csharp
class MyClass
{
    public BlobType BlobType { get; }
}
```

## C++

```cpp
class MyClass
{
    public:
    property BlobType BlobType { BlobType get (); }
}
```

## J#

```jsharp```

## JScript

```javascript```

# Property Value

A `BlobType` object that indicates the type of the blob.
Thread Safety

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

BlobProperties Class
BlobProperties Members
Microsoft.WindowsAzure.StorageClient Namespace
Microsoft.WindowsAzure.StorageClient.BlobType
BlobProperties.CacheControl Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the cache-control value stored for the blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```visualbasic
Dim instance As BlobProperties
Dim value As String

value = instance.CacheControl

instance.CacheControl = value
```
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Property CacheControl As <strong>String</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public <strong>string</strong> CacheControl { get; set; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| public: property **String^** CacheControl {  
String^ get ();  
void set (**String^** value);  
} |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Property Value</strong></td>
</tr>
<tr>
<td>The blob's cache-control value.</td>
</tr>
</tbody>
</table>
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobProperties Class
BlobProperties Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.]

Gets or sets the content-encoding value stored for the blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>

| Dim instance As BlobProperties |
| Dim value As String |

value = instance.ContentEncoding

instance.ContentEncoding = value
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Property ContentEncoding As String</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public string ContentEncoding { get; set; }</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: property String^ ContentEncoding { String^ get (); void set (String^ value); }</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

The blob's content-encoding value.
Remarks

If this property has not been set for the blob, it returns **null**.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobProperties Class
BlobProperties Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobProperties.ContentLanguage Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the content-language value stored for the blob.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```
Dim instance As BlobProperties
Dim value As String

value = instance.ContentLanguage

instance.ContentLanguage = value
```
## Syntax

### Visual Basic

```vbnet
Public Property ContentLanguage As String
```

### C#

```csharp
public string ContentLanguage { get; set; }
```

### C++

```cpp
public:
property String^ ContentLanguage {
    String^ get ()
    void set (String^ value);
}
```

### J#

```
```

### JScript

```
```

## Property Value

The blob's content-language value.
Remarks

If this property has not been set for the blob, it returns \textbf{null}. 
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobProperties Class
BlobProperties Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobProperties.ContentMD5 Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the content-MD5 value stored for the blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

### Visual Basic

```vbnet
Dim instance As BlobProperties
Dim value As String

value = instance.ContentMD5

instance.ContentMD5 = value
```
### Syntax

**Visual Basic**

Public Property ContentMD5 As String

---

**C#**

public string ContentMD5 { get; set; }

---

**C++**

public:
property String^ ContentMD5 {
    String^ get ();
    void set (String^ value);
}

---

**J#**

---

**JScript**

---

### Property Value

The blob's content-MD5 hash.
- **Thread Safety**

  Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

BlobProperties Class
BlobProperties Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the content-type value stored for the blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As BlobProperties
Dim value As String

value = instance.ContentType

instance.ContentType = value
### Syntax

**Visual Basic**

```vbnet
Public Property ContentType As String
```

**C#**

```csharp
public string ContentType { get; set; }
```

**C++**

```cpp
public:
property String^ ContentType {
    String^ get ();
    void set (String^ value);
}
```

**J#**

```java

```

**JScript**

```javascript

```

### Property Value

The blob's content-type value.
Remarks

If this property has not been set for the blob, it returns null.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
See Also

Reference

BlobProperties Class
BlobProperties Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the blob's ETag value.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

**Visual Basic**

```vbnet
Dim instance As BlobProperties
Dim value As String

value = instance.ETag
```
## Syntax

### Visual Basic

```vbnet
Public Property ETag As String
```

### C#

```csharp
public string ETag { get; }
```

### C++

```cpp
public:
    property String^ ETag {
        String^ get();
    }
```

### J#

```jsharp

```

### JScript

```jscript

```

### Property Value

The blob's ETag value.
Remarks

The ETag value is an identifier assigned to the blob by the Blob service. It is updated on write operations to the blob. It may be used to perform operations conditionally, providing concurrency control and improved efficiency.

The IfMatch and IfNoneMatch methods take an ETag value and return an AccessCondition that may be specified on the request.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

BlobProperties Class
BlobProperties Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobProperties.LastModifiedUtc Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the last-modified time for the blob, expressed as a UTC value.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As BlobProperties
Dim value As DateTime

value = instance.LastModifiedUtc
```
Syntax

**Visual Basic**

Public Property LastModifiedUtc As DateTime

**C#**

public DateTime LastModifiedUtc { get; }

**C++**

public: property DateTime LastModifiedUtc {            
    DateTime get ();
}

**J#**


**JScript**


**Property Value**

The blob's last-modified time, in UTC format.
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobProperties Class
BlobProperties Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the blob's lease status.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```
Dim instance As BlobProperties
Dim value As LeaseStatus

value = instance.LeaseStatus
```
**Syntax**

**Visual Basic**

Public Property LeaseStatus As LeaseStatus

**C#**

public LeaseStatus LeaseStatus { get; }  

**C++**

public: property LeaseStatus LeaseStatus {
    LeaseStatus get ();
}

**J#**

**JScript**

**Property Value**

A LeaseStatus object that indicates the blob's lease status.
Thread Safety

Any public static (**Shared** in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobProperties Class
BlobProperties Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobProperties.Length Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the size of the blob, in bytes.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

**Visual Basic**

```vbnet
Dim instance As BlobProperties
Dim value As Long

value = instance.Length
```
### Syntax

**Visual Basic**

```
Public Property Length As Long
```

**C#**

```
public long Length { get; }
```

**C++**

```
public:
property long long Length {
    long long get (){
    }
}
```

**J#**

```
```

**JScript**

```
```

### Property Value

The blob's size in bytes.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobProperties Class
BlobProperties Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions Class

See Also  Members

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

 Represents a set of options that may be specified on a request.

Namespace: Microsoft.WindowsAzure.StorageClient  
### Usage

**Visual Basic**

```vbnet
Dim instance As BlobRequestOptions
```
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Class BlobRequestOptions</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public class BlobRequestOptions</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public ref class BlobRequestOptions</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
  Microsoft.WindowsAzure.StorageClient.BlobRequestOptions
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobRequestOptions Members
Microsoft.Windows Azure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a set of options that may be specified on a request.

The following tables list the members exposed by the BlobRequestOptions type.
## Public Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BlobRequestOptions</td>
<td>Overloaded.</td>
</tr>
</tbody>
</table>

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## Public Properties

<table>
<thead>
<tr>
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<th>Description</th>
</tr>
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<tbody>
<tr>
<td><strong>AccessCondition</strong></td>
<td>Gets or sets the access condition for the request.</td>
</tr>
<tr>
<td><strong>BlobListingDetails</strong></td>
<td>Gets or sets options for listing blobs.</td>
</tr>
<tr>
<td><strong>CopySourceAccessCondition</strong></td>
<td>Gets or sets the access condition on the source blob, when the request is to copy a blob.</td>
</tr>
<tr>
<td><strong>DeleteSnapshotsOption</strong></td>
<td>Gets or sets options for deleting snapshots when a blob is to be deleted.</td>
</tr>
<tr>
<td><strong>RetryPolicy</strong></td>
<td>Gets or sets the retry policy for the request.</td>
</tr>
<tr>
<td><strong>Timeout</strong></td>
<td>Gets or sets the service timeout for the request.</td>
</tr>
<tr>
<td><strong>UseFlatBlobListing</strong></td>
<td>Gets or sets a value indicating whether the blob listing operation will list all blobs in a container in a flat listing, or whether it will list blobs hierarchically, by virtual directory.</td>
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### Public Methods (see also Protected Methods)

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<thead>
<tr>
<th>Name</th>
<th>Description</th>
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<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>)</td>
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</table>

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See Also

Reference
BlobRequestOptions Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BlobRequestOptions()</td>
<td>Initializes a new instance of the <a href="#">BlobRequestOptions</a> class.</td>
</tr>
<tr>
<td>BlobRequestOptions(BlobRequestOptions)</td>
<td>Initializes a new instance of the <a href="#">BlobRequestOptions</a> class based on an existing instance.</td>
</tr>
</tbody>
</table>
See Also

Reference
BlobRequestOptions Class
BlobRequestOptions Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions Constructor ()

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the BlobRequestOptions class.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim instance As New BlobRequestOptions
```
<table>
<thead>
<tr>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Public Sub New</td>
</tr>
<tr>
<td><strong>C#</strong></td>
</tr>
<tr>
<td>public BlobRequestOptions ()</td>
</tr>
<tr>
<td><strong>C++</strong></td>
</tr>
<tr>
<td>public: BlobRequestOptions ()</td>
</tr>
<tr>
<td><strong>J#</strong></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
</tr>
</tbody>
</table>
Remarks

The default constructor initializes any fields to their default values.
 Platforms

Development Platforms
See Also

Reference
BlobRequestOptions Class
BlobRequestOptions Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions Constructor (BlobRequestOptions)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the BlobRequestOptions class based on an existing instance.

Namespace: Microsoft.WindowsAzure.StorageClient
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim other As <strong>BlobRequestOptions</strong></td>
</tr>
<tr>
<td>Dim instance As New <strong>BlobRequestOptions</strong>(other)</td>
</tr>
</tbody>
</table>
## Syntax

### Visual Basic

```vbnet
Public Sub New (_
    other As BlobRequestOptions _
)
```

### C#

```csharp
public BlobRequestOptions (  
    BlobRequestOptions other
)
```

### C++

```cpp
public:
BlobRequestOptions (  
    BlobRequestOptions^ other
)
```

### J#

```jsharp

```

### JScript

```

## Parameters

`other`

Type: [Microsoft.WindowsAzure.StorageClient.BlobRequestOptions](#)

The set of request options to clone.
Platforms

Development Platforms
See Also

Reference
BlobRequestOptions Class
BlobRequestOptions Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods (see also **Protected Methods**)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
### Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✦ Finalize</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>✦ MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
See Also

Reference

BlobRequestOptions Class
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions Properties

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AccessCondition</strong></td>
<td>Gets or sets the access condition for the request.</td>
</tr>
<tr>
<td><strong>BlobListingDetails</strong></td>
<td>Gets or sets options for listing blobs.</td>
</tr>
<tr>
<td><strong>CopySourceAccessCondition</strong></td>
<td>Gets or sets the access condition on the source blob, when the request is to copy a blob.</td>
</tr>
<tr>
<td><strong>DeleteSnapshotsOption</strong></td>
<td>Gets or sets options for deleting snapshots when a blob is to be deleted.</td>
</tr>
<tr>
<td><strong>RetryPolicy</strong></td>
<td>Gets or sets the retry policy for the request.</td>
</tr>
<tr>
<td><strong>Timeout</strong></td>
<td>Gets or sets the service timeout for the request.</td>
</tr>
<tr>
<td><strong>UseFlatBlobListing</strong></td>
<td>Gets or sets a value indicating whether the blob listing operation will list all blobs in a container in a flat listing, or whether it will list blobs hierarchically, by virtual directory.</td>
</tr>
</tbody>
</table>
See Also

Reference
BlobRequestOptions Class
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions.AccessCondition Property

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the access condition for the request.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As BlobRequestOptions
Dim value As AccessCondition

value = instance.AccessCondition

instance.AccessCondition = value
```
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Property AccessCondition As <strong>AccessCondition</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public <strong>AccessCondition</strong> AccessCondition { get; set; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: property <strong>AccessCondition</strong> AccessCondition {</td>
</tr>
<tr>
<td><strong>AccessCondition</strong> get ();</td>
</tr>
<tr>
<td>void set (<strong>AccessCondition</strong> value);</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>

**Property Value**


A structure that specifies any conditional parameters on the request.
Example

The following example deletes a blob if its ETag matches a specified value.

**C#**

```csharp
static void DeleteIfMatch(Uri blobEndpoint, string accountName, string accountKey, string eTag)
{
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to the blob.
    CloudBlob blob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    //Indicate that any snapshots should be deleted.
    BlobRequestOptions options = new BlobRequestOptions();
    options.DeleteSnapshotsOption = DeleteSnapshotsOption.IncludeSnapshots;

    //Specify the if-match condition. The blob will be deleted if its ETag matches the value passed in.
    options.AccessCondition = AccessCondition.IfMatch(eTag);

    //Delete the blob if the condition is met.
    blob.Delete(options);
}
```
Remarks

The default access condition for any request is None.

An access condition may specify a condition that must be met for the operation to be performed by the service. The AccessCondition structure provides methods that can be used to specify exactly one of the following access conditions:

- **If-Match**, which performs an operation only if the specified Etag value matches the blob's Etag value. Use the IfMatch method to return this access condition.

- **If-None-Match**, which performs an operation only if the specified Etag value does not match the blob's Etag value. Use the IfNoneMatch method to return this access condition.

- **If-Modified-Since**, which performs an operation only if the resource has been modified since the specified date and time. Use the IfModifiedSince method to return this access condition.

- **If-Not-Modified-Since**, which performs an operation only if the resource has not been modified since the specified date and time. Use the IfNotModifiedSince method to return this access condition.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
Change History
See Also

Reference
BlobRequestOptions Class
BlobRequestOptions Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions.BlobListingDetails Property

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets options for listing blobs.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As BlobRequestOptions
Dim value As BlobListingDetails

value = instance.BlobListingDetails

instance.BlobListingDetails = value
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Property BlobListingDetails As BlobListingDetails</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public BlobListingDetails BlobListingDetails { get; set; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: property BlobListingDetails BlobListingDetails { BlobListingDetails get(); void set (BlobListingDetails value); }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
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<table>
<thead>
<tr>
<th>JScript</th>
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</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

### Property Value

Type: [Microsoft.WindowsAzure.StorageClient.BlobListingDetails](#)

One of the enumeration values that indicates what items a listing operation will return.
Example
The following code example lists blobs in a container, including snapshots.
C#

static void ListBlobsInContainer(Uri blobEndpoint, string acc
{
//Create service client for credentialed access to the Bl
CloudBlobClient blobClient =
new CloudBlobClient(blobEndpoint, new StorageCredenti

//Get a reference to the container.
CloudBlobContainer container = blobClient.GetContainerRef
//List blobs in this container using a flat listing.
BlobRequestOptions options = new BlobRequestOptions();
options.UseFlatBlobListing = true;

//List snapshots, which requires a flat blob listing.
options.BlobListingDetails = BlobListingDetails.Snapshots
foreach (var blobItem in container.ListBlobs(options))
{
Console.WriteLine(blobItem.Uri);
}
}


Remarks

This property is applicable only to a request to list blobs.
Thread Safety

Any public static (**Shared** in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference

BlobRequestOptions Class
BlobRequestOptions Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions.CopySourceAccessCondition Property

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the access condition on the source blob, when the request is to copy a blob.

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

Visual Basic

Dim instance As BlobRequestOptions
Dim value As AccessCondition

value = instance.CopySourceAccessCondition

instance.CopySourceAccessCondition = value
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property CopySourceAccessCondition As AccessCondition</code></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td><code>public AccessCondition CopySourceAccessCondition { get; } void set (AccessCondition value);</code></td>
</tr>
</tbody>
</table>
| **C++** | `public:
  property AccessCondition CopySourceAccessCondition { 
    AccessCondition get ();
  void set (AccessCondition value); 
  }` |
| **J#** | `JScript` |

### Property Value


A structure that specifies any conditional parameters on the request.
Example

The following code example checks an access condition on the source blob and copies the blob if the condition is met.

```csharp
static void CopyOnLastModifiedCondition(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to the source blob.
    CloudBlob sourceBlob = blobClient.GetBlobReference("mycontainer/myblob.txt");
    sourceBlob.FetchAttributes();

    //Get a reference to the destination blob.
    CloudBlob destBlob = blobClient.GetBlobReference("mycontainer/copy-if-modified-since.txt");

    BlobRequestOptions options = new BlobRequestOptions();
    DateTime dt = new DateTime(2010, 9, 1, 0, 0, 0, DateTimeKind.Utc);

    //Copy the source blob to the destination blob if the source blob has been modified since 9/1/2010.
    try
    {
        options.CopySourceAccessCondition = AccessCondition.IfModifiedSince(dt.ToUniversalTime());
        destBlob.CopyFromBlob(sourceBlob, options);
    }
    catch (StorageClientException e)
    {
        if (e.StatusCode == HttpStatusCode.PreconditionFailed)
        {
            Console.WriteLine("Access condition not met - blob 
sourceBlob.Uri +
```
" has not been modified since " + dt.ToString()
} else
{
    Console.WriteLine("Error code: " + e.ErrorCode);
}

//Get a reference to the destination blob.
destBlob = blobClient.GetBlobReference("mycontainer/copy-if-not-modified-since.txt");
try
{
    //Copy source blob to destination blob if the source blob has not been modified since 9/1/2010.
    options.CopySourceAccessCondition = AccessCondition.IfNotModifiedSince(dt.ToUniversalTime());
    destBlob.CopyFromBlob(sourceBlob, options);
} catch (StorageClientException e)
{
    if (e.StatusCode == HttpStatusCode.PreconditionFailed)
    {
        Console.WriteLine("Access condition not met - ETag for blob " + sourceBlob.Uri + " does not match ETag for blob " + destBlob.Uri);
    } else
    {
        Console.WriteLine("Error code: " + e.ErrorCode);
    }
}
Remarks

This property is applicable only to a request that will copy a blob.

The default access condition for any request to copy a blob is \texttt{None}.

An access condition may specify a condition that must be met for the copy operation to be performed by the service. The \texttt{AccessCondition} structure provides methods that can be used to specify exactly one of the following access conditions:

- IfMatch, which performs a copy operation only if the specified Etag value matches the blob's Etag value.

- IfNoneMatch, which performs a copy operation only if the specified Etag value does not match the blob's Etag value.

- IfModifiedSince, which performs a copy operation only if the resource has been modified since the specified date and time.

- IfNotModifiedSince, which performs a copy operation only if the resource has not been modified since the specified date and time.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
BlobRequestOptions Class
BlobRequestOptions Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions.DeleteSnapshotsOption Property

Gets or sets options for deleting snapshots when a blob is to be deleted.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Usage

**Visual Basic**

```
Dim instance As BlobRequestOptions
Dim value As DeleteSnapshotsOption

value = instance.DeleteSnapshotsOption
instance.DeleteSnapshotsOption = value
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Property DeleteSnapshotsOption As DeleteSnapshotsOption</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public DeleteSnapshotsOption DeleteSnapshotsOption {</code></td>
</tr>
</tbody>
</table>
| C++ | `public:
    property DeleteSnapshotsOption DeleteSnapshotsOption {
        DeleteSnapshotsOption get ();
        void set (DeleteSnapshotsOption value);
    }` |
| J# |  |
| JScript |  |

## Property Value


One of the enumeration values that specifies whether to delete blobs and snapshots, delete blobs only, or delete snapshots only.
Example

The following code example enumerates through the blobs in a container and deletes each blob and its snapshots.

C#

```csharp
static void DeleteBlobsAndSnapshots(Uri blobEndpoint, string accountName, string accountKey)
{
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint,
    new StorageCredentialsAccountAndKey(accountName,
    accountKey));

    //Get a reference to the container.
    CloudBlobContainer container = blobClient.GetContainerReference("mycontainer");

    //Indicate that any snapshots should be deleted.
    BlobRequestOptions options = new BlobRequestOptions();
    options.DeleteSnapshotsOption = DeleteSnapshotsOption.IncludeSnapshots;

    //Specify a flat blob listing, so that only CloudBlob objects will be returned.
    //The Delete method exists only on CloudBlob, not on IListBlobItem.
    options.UseFlatBlobListing = true;

    //Enumerate through the blobs in the container, deleting both blobs and their snapshots.
    foreach (CloudBlob blob in container.ListBlobs(options))
    {
        Console.WriteLine(blob.Uri);
        blob.Delete(options);
    }
}
```
Remarks

This property is applicable only to a request that will delete a blob.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
BlobRequestOptions Class
BlobRequestOptions Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the retry policy for the request.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As BlobRequestOptions
Dim value As RetryPolicy

value = instance.RetryPolicy

instance.RetryPolicy = value
```
### Syntax

**Visual Basic**

Public Property RetryPolicy As RetryPolicy

**C#**

public RetryPolicy RetryPolicy { get; set; }

**C++**

public:
property RetryPolicy^ RetryPolicy {
    RetryPolicy^ get ();
    void set (RetryPolicy^ value);
}

**J#**

**JScript**

**Property Value**

Type: Microsoft.WindowsAzure.StorageClient.RetryPolicy

The retry policy delegate.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobRequestOptions Class
BlobRequestOptions Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions.Timeout Property

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the service timeout for the request.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As BlobRequestOptions
Dim value As Nullable(Of TimeSpan)

value = instance.Timeout

instance.Timeout = value
```
Syntax

Visual Basic

Public Property Timeout As Nullable(Of TimeSpan)

C#

public Nullable<TimeSpan> Timeout { get; set; }

C++

public:
property Nullable<TimeSpan> Timeout {
    Nullable<TimeSpan> get ();
    void set (Nullable<TimeSpan> value);
}

J#


JScript


Property Value

The service timeout interval for the request.
Example

The following code uploads a file to a blob using a timeout of 20 seconds for the operation.

```c#
var account = CloudStorageAccount.Parse("AccountName=myaccount;AccountKey=mykey;DefaultEndpointsProtocol=http");
var blobClient = account.CreateCloudBlobClient();
var container = blobClient.GetContainerReference("testcontainer");
var blob = container.GetBlobReference("testblob");
BlobRequestOptions blobRequestOptions = new BlobRequestOptions();
blobRequestOptions.Timeout = TimeSpan.FromSeconds(20);
blob.UploadFile("myfile.txt", blobRequestOptions);
```
Remarks

Setting the **Timeout** property for an individual request overrides the setting of the **Timeout** property for that request.

The default timeout interval for a request made via the storage client library is 90 seconds, but the blob service enforces a shorter timeout in most cases. See [Setting Timeouts for Blob Service Operations](#).
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.
  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
**See Also**

**Reference**
- BlobRequestOptions Class
- BlobRequestOptions Members
- Microsoft.WindowsAzure.StorageClient Namespace

**Other Resources**
- Setting Timeouts for Blob Service Operations
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets a value indicating whether the blob listing operation will list all blobs in a container in a flat listing, or whether it will list blobs hierarchically, by virtual directory.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```
Dim instance As BlobRequestOptions
Dim value As Boolean

value = instance.UseFlatBlobListing

instance.UseFlatBlobListing = value
```
**Syntax**

**Visual Basic**

Public Property UseFlatBlobListing As Boolean

**C#**

```csharp
public bool UseFlatBlobListing { get; set; }
```

**C++**

```cpp
public:
property bool UseFlatBlobListing {
    bool get ();
    void set (bool value);
}
```

**J#**

**JScript**

**Property Value**

Type: System.Boolean

True if blobs will be listed in a flat listing; otherwise, false. The default value is false.
The following code example lists blobs in both a virtual hierarchy and a flat listing, and shows some possible results.

```csharp
static void ListBlobsInVirtualDirectory(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //List blobs in container 'mycontainer' beginning with prefix 'a/', using a hierarchical listing.
    //The results list only blobs directly beneath 'mycontainer/a/'
    foreach (var blobItem in blobClient.ListBlobsWithPrefix("mycontainer/a/"))
    {
        Console.WriteLine(blobItem.Uri);
    }

    //Hierarchical listing results:
    //http://storagesample.blob.core.windows.net/mycontainer/a/00001.txt
    //http://storagesample.blob.core.windows.net/mycontainer/a/b/
    Console.WriteLine();

    //List blobs in container 'mycontainer' beginning with prefix 'a/', using a flat listing.
    //The results list all blobs beneath 'mycontainer/a/', even if they are in a subdirectory.
    BlobRequestOptions options = new BlobRequestOptions();
    options.UseFlatBlobListing = true;
    foreach (var blobItem in blobClient.ListBlobsWithPrefix("mycontainer/a/", options))
    {
        Console.WriteLine(blobItem.Uri);
    }

    //Flat listing results:
    //http://storagesample.blob.core.windows.net/mycontainer/a/00001.txt
```
Remarks

This property is applicable only to a request to list blobs.

By default, a blob listing operation lists blobs using a virtual hierarchy. In a hierarchical blob listing, a delimiter character used within blob names is treated as a path separator. The listing operation lists the blobs directly beneath a container or a virtual directory only. The listing operation may return objects of type `CloudBlob` and type `CloudBlobDirectory`.

Setting the `UseFlatBlobListing` to `true` lists blobs in a flat listing instead of in a virtual hierarchy. In a flat blob listing, all blobs beneath the designated starting point are returned, regardless of their position in a virtual hierarchy. A flat blob listing returns only objects of type `CloudBlob`.

To include snapshots in the listing, you must use a flat listing.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
BlobRequestOptions Class
BlobRequestOptions Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a stream for reading and writing to a blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
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<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
</tr>
<tr>
<td>Dim instance As BlobStream</td>
</tr>
</tbody>
</table>
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Public MustInherit Class BlobStream  
  Inherits Stream |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public abstract class BlobStream : Stream</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public ref class BlobStream abstract : public Stream</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
  System.MarshalByRefObject
  System.IO.Stream
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
See Also

Reference
BlobStream Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See **Storage Client Library** for the latest version.]

Represents a stream for reading and writing to a blob.

The following tables list the members exposed by the **BlobStream** type.
## Protected Constructors

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<tr>
<th>Name</th>
<th>Description</th>
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<tbody>
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## Public Properties

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<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Blob</strong></td>
<td>Gets a reference to the blob on which the stream is opened.</td>
</tr>
<tr>
<td><strong>BlockSize</strong></td>
<td>This property is not currently supported.</td>
</tr>
<tr>
<td><strong>CanRead</strong></td>
<td>(Inherited from Stream)</td>
</tr>
<tr>
<td><strong>CanSeek</strong></td>
<td>(Inherited from Stream)</td>
</tr>
<tr>
<td><strong>CanTimeout</strong></td>
<td>(Inherited from Stream)</td>
</tr>
<tr>
<td><strong>CanWrite</strong></td>
<td>(Inherited from Stream)</td>
</tr>
<tr>
<td><strong>IntegrityControlVerificationEnabled</strong></td>
<td>Gets a value indicating whether the signature of each block should be verified.</td>
</tr>
<tr>
<td><strong>Length</strong></td>
<td>(Inherited from Stream)</td>
</tr>
<tr>
<td><strong>Position</strong></td>
<td>(Inherited from Stream)</td>
</tr>
<tr>
<td><strong>ReadAheadSize</strong></td>
<td>Specifies the number of additional bytes to fetch when the BlobStream.Read() method is called. This property defaults to 512 kilobytes. Set this property to 0 to disable pre-fetching. This property is only supported by instances of BlobStream created by CloudBlob.OpenRead.</td>
</tr>
<tr>
<td><strong>ReadTimeout</strong></td>
<td>(Inherited from Stream)</td>
</tr>
<tr>
<td><strong>WriteTimeout</strong></td>
<td>(Inherited from Stream)</td>
</tr>
</tbody>
</table>
### Public Methods (see also Protected Methods)

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<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abort</td>
<td>Aborts the operation to write to the blob.</td>
</tr>
<tr>
<td>BeginCommit</td>
<td>This operation is not currently supported.</td>
</tr>
<tr>
<td>BeginRead</td>
<td>(Inherited from Stream)</td>
</tr>
<tr>
<td>BeginWrite</td>
<td>(Inherited from Stream)</td>
</tr>
<tr>
<td>Close</td>
<td>(Inherited from Stream)</td>
</tr>
<tr>
<td>Commit</td>
<td>This operation is not currently supported.</td>
</tr>
<tr>
<td>CopyTo</td>
<td>(Inherited from Stream)</td>
</tr>
<tr>
<td>CreateObjRef</td>
<td>(Inherited from MarshalByRefObject)</td>
</tr>
<tr>
<td>Dispose</td>
<td>(Inherited from Stream)</td>
</tr>
<tr>
<td>EndCommit</td>
<td>This operation is not currently supported.</td>
</tr>
<tr>
<td>EndRead</td>
<td>(Inherited from Stream)</td>
</tr>
<tr>
<td>EndWrite</td>
<td>(Inherited from Stream)</td>
</tr>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>Flush</td>
<td>(Inherited from Stream)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetLifetimeService</td>
<td>(Inherited from MarshalByRefObject)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>InitializeLifetimeService</td>
<td>(Inherited from MarshalByRefObject)</td>
</tr>
<tr>
<td>Read</td>
<td>(Inherited from Stream)</td>
</tr>
<tr>
<td>ReadByte</td>
<td>(Inherited from Stream)</td>
</tr>
<tr>
<td>Seek</td>
<td>(Inherited from Stream)</td>
</tr>
<tr>
<td>SetLength</td>
<td>(Inherited from Stream)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>Write</td>
<td>(Inherited from Stream)</td>
</tr>
<tr>
<td>WriteByte</td>
<td>(Inherited from Stream)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CreateWaitHandle</td>
<td>Obsolete. (Inherited from Stream)</td>
</tr>
<tr>
<td>Dispose</td>
<td>(Inherited from Stream)</td>
</tr>
<tr>
<td>Finalize</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from MarshalByRefObject)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
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<tr>
<td>ObjectInvariant</td>
<td>(Inherited from Stream)</td>
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Top
See Also

Reference

BlobStream Class
Microsoft.WindowsAzure.StorageClient Namespace
BlobStream Constructor

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the BlobStream Class.

Namespace: Microsoft.WindowsAzure.StorageClient
# Usage

**Visual Basic**

```
Dim instance As New BlobStream
```
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Protected Sub New</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>protected BlobStream ()</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>protected: BlobStream ()</td>
<td></td>
</tr>
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</table>

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</table>
Remarks

The default constructor initializes any fields to their default values.
 Platforms

 Development Platforms
See Also

Reference

BlobStream Class
BlobStream Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobStream Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<tr>
<td>ObjectInvariant</td>
<td>(Inherited from Stream)</td>
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</tbody>
</table>
See Also

Reference
BlobStream Class
Microsoft.WindowsAzure.StorageClient Namespace
BlobStream.Abort Method

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Aborts the operation to write to the blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As BlobStream
instance.Abort
```
## Syntax

**Visual Basic**

```vbnet
Public Overridable Sub Abort
```

**C#**

```csharp
public virtual void Abort()
```

**C++**

```cpp
public:
virtual void Abort()
```

**J#**

```jsharp```

**JScript**

```javascript```
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobStream Class
BlobStream Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobStream.BeginCommit Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

This operation is not currently supported.

Namespace: Microsoft.WindowsAzure.StorageClient
## Usage

### Visual Basic

```vbnet
Dim instance As BlobStream
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginCommit(callback, state)
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **Visual Basic** | Public Overridable Function BeginCommit ( _
| | callback As AsyncCallback, _
| | state As Object _
| | ) As IAsyncResult |
| **C#** | public virtual IAsyncResult BeginCommit ( _
| | AsyncCallback callback, _
| | Object state _
| | ) |
| **C++** | public: _
| | virtual IAsyncResult^ BeginCommit ( _
| | AsyncCallback^ callback, _
| | Object^ state _
| | ) |

#### Parameters

- **callback**
  - The callback delegate that will receive notification when the asynchronous operation completes.

- **state**
A user-defined object that will be passed to the callback delegate.

**Return Value**

An **IAsyncResult** that references the asynchronous operation.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobStream Class
BlobStream Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

This operation is not currently supported.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As BlobStream
instance.Commit
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td>Public Overridable Sub Commit</td>
</tr>
<tr>
<td>C#</td>
<td>public virtual void Commit ()</td>
</tr>
<tr>
<td>C++</td>
<td>public: virtual void Commit ()</td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

BlobStream Class
BlobStream Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobStream.EndCommit Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

This operation is not currently supported.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
</tr>
</tbody>
</table>

```vbnet
Dim instance As BlobStream
Dim asyncResult As IAsyncResult

instance.EndCommit(asyncResult)
```
**Syntax**

**Visual Basic**

```vbnet
Public Overridable Sub EndCommit ( _
    asyncResult As IAsyncResult _
)
```

**C#**

```csharp
public virtual void EndCommit (  
    IAsyncResult asyncResult
)
```

**C++**

```cpp
public:
virtual void EndCommit (  
    IAsyncResult^ asyncResult
)
```

**J#**

**JScript**

**Parameters**

`asyncResult`  
An `IAasyncResult` that references the pending asynchronous operation.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
 Platforms

**Development Platforms**
See Also

Reference
BlobStream Class
BlobStream Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Blob</strong></td>
<td>Gets a reference to the blob on which the stream is opened.</td>
</tr>
<tr>
<td><strong>BlockSize</strong></td>
<td>This property is not currently supported.</td>
</tr>
<tr>
<td><strong>CanRead</strong></td>
<td>(Inherited from <strong>Stream</strong>)</td>
</tr>
<tr>
<td><strong>CanSeek</strong></td>
<td>(Inherited from <strong>Stream</strong>)</td>
</tr>
<tr>
<td><strong>CanTimeout</strong></td>
<td>(Inherited from <strong>Stream</strong>)</td>
</tr>
<tr>
<td><strong>CanWrite</strong></td>
<td>(Inherited from <strong>Stream</strong>)</td>
</tr>
<tr>
<td><strong>IntegrityControlVerificationEnabled</strong></td>
<td>Gets a value indicating whether the signature of each block should be verified.</td>
</tr>
<tr>
<td><strong>Length</strong></td>
<td>(Inherited from <strong>Stream</strong>)</td>
</tr>
<tr>
<td><strong>Position</strong></td>
<td>(Inherited from <strong>Stream</strong>)</td>
</tr>
<tr>
<td><strong>ReadAheadSize</strong></td>
<td>Specifies the number of additional bytes to fetch when the <strong>BlobStream</strong>.</td>
</tr>
<tr>
<td></td>
<td>.Read() method is called.</td>
</tr>
<tr>
<td></td>
<td>This property defaults to 512 kilobytes. Set this property to 0 to disable pre-fetching. This property is only supported by instances of <strong>BlobStream</strong> created by <strong>CloudBlob.OpenRead</strong>.</td>
</tr>
<tr>
<td><strong>ReadTimeout</strong></td>
<td>(Inherited from <strong>Stream</strong>)</td>
</tr>
<tr>
<td><strong>WriteTimeout</strong></td>
<td>(Inherited from <strong>Stream</strong>)</td>
</tr>
</tbody>
</table>
See Also

Reference
BlobStream Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a reference to the blob on which the stream is opened.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

#### Visual Basic

```
Dim instance As BlobStream
Dim value As CloudBlob

value = instance.Blob
```
### Syntax

**Visual Basic**

Public Property Blob As 

**C#**

public CloudBlob Blob { get; }

**C++**

public:

    property CloudBlob^ Blob {
        CloudBlob^ get ();
    }

**J#**

**JScript**

### Property Value

The blob this stream accesses.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobStream Class
BlobStream Members
Microsoft.WindowsAzure.StorageClient Namespace
### BlobStream.BlockSize Property

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

This property is not currently supported.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```
Dim instance As BlobStream
Dim value As Long

value = instance.BlockSize

instanceBlockSize = value
```

### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Overridable Property BlockSize As Long</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public virtual long BlockSize { get; set; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| public:
virtual property long long BlockSize {
  long long get ();
  void set (long long value);
} |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>

### Property Value

The size of the block.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobStream Class
BlobStream Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobStream.IntegrityControlVerificationEnabled Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a value indicating whether the signature of each block should be verified.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>

```visualbasic
Dim instance As BlobStream
Dim value As Boolean

value = instance.IntegrityControlVerificationEnabled
```
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Overridable Property IntegrityControlVerificationEnabled</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public virtual bool IntegrityControlVerificationEnabled</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: virtual property bool IntegrityControlVerificationEnabled {</td>
</tr>
<tr>
<td>bool get ();</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>

**Property Value**

Returns `true` if integrity control verification is enabled; otherwise, `false`. 
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobStream Class
BlobStream Members
Microsoft.WindowsAzure.StorageClient Namespace
### BlobStream.ReadAheadSize Property

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Specifies the number of additional bytes to fetch when the BlobStream.Read() method is called. This property defaults to 512 kilobytes. Set this property to 0 to disable pre-fetching. This property is only supported by instances of BlobStream created by CloudBlob.OpenRead.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

#### Visual Basic

```vbnet
Dim instance As BlobStream
Dim value As Long

value = instance.ReadAheadSize

instance.ReadAheadSize = value
```
## Syntax

### Visual Basic

Public Overridable Property ReadAheadSize As Long

### C#

public virtual long ReadAheadSize { get; set; }

### C++

public:
virtual property long long ReadAheadSize {
    long long get ();
    void set (long long value);
}

### J#

### JScript

### Property Value

The number of bytes to read ahead.
Thread Safety

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

BlobStream Class
BlobStream Members
Microsoft.WindowsAzure.StorageClient Namespace
<table>
<thead>
<tr>
<th>BlobType Enumeration</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
</tr>
</tbody>
</table>

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The type of a blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim instance As <strong>BlobType</strong></td>
</tr>
</tbody>
</table>
## Syntax

### Visual Basic

```
Public Enumeration BlobType
```

### C#

```
public enum BlobType
```

### C++

```
public enum class BlobType
```

### J#

```
```

### JScript

```
```
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BlockBlob</td>
<td>A block blob.</td>
</tr>
<tr>
<td>PageBlob</td>
<td>A page blob.</td>
</tr>
<tr>
<td>Unspecified</td>
<td>Not specified.</td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Indicates whether to list only committed blocks, only uncommitted blocks, or all blocks.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim instance As <strong>BlockListingFilter</strong></td>
</tr>
</tbody>
</table>
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td>Public Enumeration BlockListingFilter</td>
</tr>
<tr>
<td>C#</td>
<td>public enum BlockListingFilter</td>
</tr>
<tr>
<td>C++</td>
<td>public enum class BlockListingFilter</td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>Both committed and uncommitted blocks.</td>
</tr>
<tr>
<td>Committed</td>
<td>Committed blocks.</td>
</tr>
<tr>
<td>Uncommitted</td>
<td>Uncommitted blocks.</td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob Class

See Also  Members

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a Windows Azure blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

Dim instance As CloudBlob
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
<th>C#</th>
<th>C++</th>
<th>J#</th>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Class CloudBlob Implements IListBlobItem</td>
<td>public class CloudBlob : IListBlobItem</td>
<td>public ref class CloudBlob : IListBlobItem</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
Microsoft.WindowsAzure.StorageClient.CloudBlockBlob
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a Windows Azure blob.

The following tables list the members exposed by the CloudBlob type.
## Public Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CloudBlob</td>
<td>Overloaded.</td>
</tr>
</tbody>
</table>

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# Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attributes</td>
<td>Gets the <a href="#">BlobAttributes</a> object that represents the blob's attributes.</td>
</tr>
<tr>
<td>Container</td>
<td>Gets a <a href="#">CloudBlobContainer</a> object representing the blob's container.</td>
</tr>
<tr>
<td>Metadata</td>
<td>Gets the blob's user-defined metadata.</td>
</tr>
<tr>
<td>Name</td>
<td>Gets the name of the blob.</td>
</tr>
<tr>
<td>Parent</td>
<td>Gets the <a href="#">CloudBlobDirectory</a> object representing the virtual parent directory for the blob.</td>
</tr>
<tr>
<td>Properties</td>
<td>Gets the blob's system properties.</td>
</tr>
<tr>
<td>ServiceClient</td>
<td>Gets the <a href="#">CloudBlobClient</a> object that represents the Blob service.</td>
</tr>
<tr>
<td>SnapshotTime</td>
<td>Gets the <a href="#">DateTime</a> value that uniquely identifies the snapshot, if this blob is a snapshot.</td>
</tr>
<tr>
<td>ToBlockBlob</td>
<td>Gets a <a href="#">CloudBlockBlob</a> object based on this blob.</td>
</tr>
<tr>
<td>ToPageBlob</td>
<td>Gets a <a href="#">CloudPageBlob</a> object based on this blob.</td>
</tr>
<tr>
<td>Uri</td>
<td>Gets the URI that identifies the blob.</td>
</tr>
</tbody>
</table>

[Top]
## Public Methods (see also **Protected Methods**)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BeginCopyFromBlob</td>
<td>Overloaded. Begins an asynchronous operation to copy another blob's contents, properties, and metadata to the blob referenced by this CloudBlob object.</td>
</tr>
<tr>
<td>BeginCreateSnapshot</td>
<td>Overloaded. Begins an asynchronous operation to create a snapshot of the blob.</td>
</tr>
<tr>
<td>BeginDelete</td>
<td>Overloaded. Begins an asynchronous operation to delete the blob.</td>
</tr>
<tr>
<td>BeginDeleteIfExists</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>BeginDownloadToStream</td>
<td>Overloaded. Begins an asynchronous operation to download the contents of a blob to a stream.</td>
</tr>
<tr>
<td>BeginFetchAttributes</td>
<td>Overloaded. Begins an asynchronous operation to populate the blob's properties and metadata.</td>
</tr>
<tr>
<td>BeginSetMetadata</td>
<td>Overloaded. Begins an asynchronous operation to update the blob's metadata.</td>
</tr>
<tr>
<td>BeginSetProperties</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>BeginUploadFromStream</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>CopyFromBlob</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>CreateSnapshot</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>Delete</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>DeleteIfExists</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>DownloadByteArray</td>
<td>Overloaded. Downloads the blob's contents as an array of bytes.</td>
</tr>
<tr>
<td>DownloadText</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>DownloadToFile</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>DownloadToStream</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>EndCopyFromBlob</td>
<td>Ends an asynchronous operation to copy a blob's contents, properties, and metadata to a new blob.</td>
</tr>
<tr>
<td>Method Name</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>EndCreateSnapshot</td>
<td>Ends an asynchronous operation to create a snapshot of the blob.</td>
</tr>
<tr>
<td>EndDelete</td>
<td>Ends an asynchronous operation to delete the blob.</td>
</tr>
<tr>
<td>EndDeleteIfExists</td>
<td>Ends an asynchronous operation to delete the blob if it exists.</td>
</tr>
<tr>
<td>EndDownloadToStream</td>
<td>Ends an asynchronous operation to download the contents of a blob to a stream.</td>
</tr>
<tr>
<td>EndFetchAttributes</td>
<td>Ends an asynchronous operation to populate the blob's properties and metadata.</td>
</tr>
<tr>
<td>EndSetMetadata</td>
<td>Ends an asynchronous operation to update the blob's metadata.</td>
</tr>
<tr>
<td>EndSetProperties</td>
<td>Ends an asynchronous operation to update the blob's properties.</td>
</tr>
<tr>
<td>EndUploadFromStream</td>
<td>Ends an asynchronous operation to upload a blob from a stream.</td>
</tr>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>FetchAttributes</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetSharedAccessSignature</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>OpenRead</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>OpenWrite</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>SetMetadata</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>SetProperties</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>UploadByteArray</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>UploadFile</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>UploadFromStream</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>UploadText</td>
<td>Overloaded.</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✧ Finalize</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>✧ MemberwiseClone</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>✧ ParseSizeAndLastModified</td>
<td>Parses values from a Blob service response. This method is protected.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlob Class
Microsoft.WindowsAzure.StorageClient Namespace
**CloudBlob Constructor**

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudBlob (CloudBlob)</code></td>
<td>Initializes a new instance of the <code>CloudBlob</code> class based on an existing instance.</td>
</tr>
<tr>
<td><code>CloudBlob (String)</code></td>
<td>Initializes a new instance of the <code>CloudBlob</code> class using an absolute URI to the blob.</td>
</tr>
<tr>
<td><code>CloudBlob (String, CloudBlobClient)</code></td>
<td>Initializes a new instance of the <code>CloudBlob</code> class using a relative URI to the blob.</td>
</tr>
<tr>
<td><code>CloudBlob (String, StorageCredentials)</code></td>
<td>Initializes a new instance of the <code>CloudBlob</code> class using an absolute URI to the blob and a set of credentials.</td>
</tr>
<tr>
<td><code>CloudBlob (String, Nullable, CloudBlobClient)</code></td>
<td>Initializes a new instance of the <code>CloudBlob</code> class using a relative URI to the blob, and the snapshot timestamp, if the blob is a snapshot.</td>
</tr>
<tr>
<td><code>CloudBlob (String, Nullable, StorageCredentials)</code></td>
<td>Initializes a new instance of the <code>CloudBlob</code> class using an absolute URI to the blob, and the snapshot timestamp, if the blob is a snapshot.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
Initializes a new instance of the CloudBlob class based on an existing instance.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim cloudBlob As CloudBlob
Dim instance As New CloudBlob(cloudBlob)
```
## Syntax

### Visual Basic

```vbnet
Public Sub New (_
    cloudBlob As CloudBlob _
)
```

### C#

```csharp
public CloudBlob (
    CloudBlob cloudBlob
)
```

### C++

```cpp
public:
CloudBlob (  
    CloudBlob^ cloudBlob
)
```

### J#

```
```

### JScript

```
```

## Parameters

`cloudBlob`

Type: [Microsoft.WindowsAzure.StorageClient.CloudBlob](#)

An existing reference to a blob.
The following code example creates a reference to an anonymously-accessible blob from another reference to the same blob.

```csharp
static void AccessPublicBlob2(String blobEndpoint)
{
    // Create a reference to the blob with the specified absolute URI.
    // For example:
    // "http://storagesample.blob.core.windows.net/myContainer/myBlob.txt"
    CloudBlob publicBlob = new CloudBlob(blobEndpoint);

    // Create another reference to the same blob.
    CloudBlob publicBlob2 = new CloudBlob(publicBlob);

    // Attempt to download the blob's contents using the second reference.
    try
    {
        Console.WriteLine(publicBlob2.DownloadText());
    }
    catch (StorageClientException e)
    {
        Console.WriteLine("Error code: ", e.ErrorCode);
        Console.WriteLine("Error message: ", e.Message);
    }
}
```
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob Constructor (String)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudBlob class using an absolute URI to the blob.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

Dim blobAbsoluteUri As String

Dim instance As New CloudBlob(blobAbsoluteUri)
### Syntax

#### Visual Basic

```vbnet
Public Sub New (_
    blobAbsoluteUri As String _
)
```

#### C#

```csharp
public CloudBlob (  
    string blobAbsoluteUri
)
```

#### C++

```cpp
public:
CloudBlob (  
    String^ blobAbsoluteUri
)
```

#### J#

```jscript```

#### JScript

```jscript```

### Parameters

- **blobAbsoluteUri**
  - Type: `System.String`
  - The absolute URI to the blob.
The following code example creates a reference to an anonymously-accessible blob using it’s absolute URI.

```csharp
static void AccessPublicBlob(String blobEndpoint)
{
    // For example:
    // "http://storagesample.blob.core.windows.net/myContainer/myBlob.txt"
    CloudBlob publicBlob = new CloudBlob(blobEndpoint);

    // Attempt to download the blob's contents.
    try
    {
        Console.WriteLine(publicBlob.DownloadText());
    }
    catch (StorageClientException e)
    {
        Console.WriteLine("Error code: ", e.ErrorCode);
        Console.WriteLine("Error message: ", e.Message);
    }
}
```
Remarks

Any authentication information inside the address will be used to set the blob's credentials.

Otherwise a blob for anonymous access is created.

Any snapshot information as part of the address will indicate that this blob is a snapshot.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Naming and Referencing Containers, Blobs, and Metadata
CloudBlob Constructor (String, CloudBlobClient)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudBlob class using a relative URI to the blob.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

**Visual Basic**

Dim blobUri As *String*
Dim serviceClient As *CloudBlobClient*

Dim instance As New *CloudBlob*(blobUri, serviceClient)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| Visual Basic | ```vb
Public Sub New (_
    blobUri As String, _
    serviceClient As CloudBlobClient _
)
``` |
| C# | ```csharp
public CloudBlob (  
    string blobUri,
    CloudBlobClient serviceClient
)
``` |
| C++ | ```cpp
public:
CloudBlob (  
    String^ blobUri,
    CloudBlobClient^ serviceClient
)
``` |
| J# | ```
``` |
| JScript | ```
``` |

### Parameters

**blobUri**

Type: `System.String`

The relative URI to the blob, beginning with the container name.
**serviceClient**


A client object that specifies the endpoint for the Blob service.
Example

The following code example creates a new blob using a relative URI to the blob and an existing blob client.

C#

```csharp
static void WriteBlobMetadata3(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Create a CloudBlob reference.
    CloudBlob blob = new CloudBlob("mycontainer/myblob.txt", blobClient);

    // Write text to the blob.
    blob.UploadText("This is a text blob.");

    // Define metadata for the blob.
    blob.Metadata["category"] = "images";
    blob.Metadata["owner"] = "azureix";

    // Set options for the request. E.g., Specify an operation timeout of 20 seconds.
    BlobRequestOptions options = new BlobRequestOptions();
    options.Timeout = TimeSpan.FromSeconds(20.0);

    // Write the metadata to the blob.
    blob.SetMetadata(options);
}
```
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Naming and Referencing Containers, Blobs, and Metadata
CloudBlob Constructor (String, StorageCredentials)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudBlob class using an absolute URI to the blob and a set of credentials.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

#### Visual Basic

Dim blobAbsoluteUri As String
Dim credentials As StorageCredentials

Dim instance As New CloudBlob(blobAbsoluteUri, credentials)
## Syntax

### Visual Basic

```
Public Sub New (_
    blobAbsoluteUri As String,
    credentials As StorageCredentials _
)
```

### C#

```
public CloudBlob (  
    string blobAbsoluteUri,  
    StorageCredentials credentials
)
```

### C++

```
public:
CloudBlob (  
    String^ blobAbsoluteUri,  
    StorageCredentials^ credentials
)
```

### J#

```
```

### JScript

```
```

## Parameters

- **blobAbsoluteUri**
  - Type: `System.String`
  - The absolute URI to the blob.
credentials
Type: Microsoft.WindowsAzure.StorageCredentials

The account credentials.
Example

The following code example creates a new blob using an absolute URI and storage credentials.

```c#
static void WriteToBlobViaSAS1(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    CloudBlob blob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    // Upload text to the blob, which will create it if it does not already exist.
    blob.UploadText("a text blob");

    // Create a shared access signature to use for delegation.
    // Specify an access policy that indicates the start time, expiry time, and permissions granted for the signature.
    string signature = blob.GetSharedAccessSignature(new SharedAccessPolicy()
    {
        // If valid immediately, don’t set SharedAccessStartTime.
        // Specify the expiration time for the signature.
        SharedAccessExpiryTime = DateTime.Now.AddMinutes(55),
        // Specify the permissions granted by the signature.
        Permissions = SharedAccessPermissions.Write | SharedAccessPermissions.Read
    });

    // Get a reference to the blob using the shared access signature.
    CloudBlob blobSAS = new CloudBlob("http://storagesample.blob.core.windows.net/mycontainer/myblob.txt", new StorageCredentialsSharedAccessSignature(signature));

    // Update the contents of the blob, then read them.
    blobSAS.UploadText("a text blob updated using a shared access signature");

    Console.WriteLine(blobSAS.DownloadText());
}
}
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Naming and Referencing Containers, Blobs, and Metadata
CloudBlob Constructor (String, Nullable, CloudBlobClient)

See Also Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudBlob class using a relative URI to the blob, and the snapshot timestamp, if the blob is a snapshot.

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

Visual Basic

Dim blobUri As String
Dim snapshotTime As Nullable(Of DateTime)
Dim serviceClient As CloudBlobClient

Dim instance As New CloudBlob(blobUri, snapshotTime,
**Syntax**

**Visual Basic**

```vbnet
Public Sub New ( _
    blobUri As String, _
    snapshotTime As Nullable(Of DateTime), _
    serviceClient As CloudBlobClient _
)
```

**C#**

```csharp
public CloudBlob (  
    string blobUri,
    Nullable<DateTime> snapshotTime,
    CloudBlobClient serviceClient
)
```

**C++**

```cpp
public:  
CloudBlob (  
    String^ blobUri,
    Nullable<DateTime> snapshotTime,
    CloudBlobClient^ serviceClient
)
```

**J#**

**JScript**

**Parameters**

`blobUri`
Type: **System.String**

The relative URI to the blob, beginning with the container name.

*snapshotTime*

Type: **System.Nullable**

The snapshot timestamp, if the blob is a snapshot.

*serviceClient*

Type: **Microsoft.WindowsAzure.StorageClient.CloudBlobClient**

A client object that specifies the endpoint for the Blob service.
Example

The following code example creates a new blob snapshot using a relative URI, a timestamp of an existing snapshot, and a reference to an existing blob client.

C#

```csharp
static void CreateBlobSnapshot(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Get a reference to a blob.
    CloudBlob blob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    // Take a snapshot of the blob.
    CloudBlob snapshot = blob.CreateSnapshot();

    // Get the snapshot timestamp.
    DateTime timestamp = (DateTime)snapshot.Attributes.Snapshot;

    // Use the timestamp to get a second reference to the same snapshot.
    CloudBlob snapshot2 = new CloudBlob("mycontainer/myblob.txt", timestamp, blobClient);

    // Write out the snapshot URI.
    Console.WriteLine(snapshot2.Uri);
}
```
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob Constructor (String, Nullable, StorageCredentials)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudBlob class using an absolute URI to the blob, and the snapshot timestamp, if the blob is a snapshot.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim blobAbsoluteUri As String
Dim snapshotTime As Nullable(Of DateTime)
Dim credentials As StorageCredentials

Dim instance As New CloudBlob(blobAbsoluteUri, snapshotTime)
```
**Syntax**

## Visual Basic

```vbnet
Public Sub New ( _
    blobAbsoluteUri As String, _
    snapshotTime As Nullable(Of DateTime), _
    credentials As StorageCredentials _
)
```

## C#

```csharp
public CloudBlob ( 
    string blobAbsoluteUri, 
    Nullable<DateTime> snapshotTime, 
    StorageCredentials credentials 
)
```

## C++

```cpp
public:
CloudBlob ( 
    String^ blobAbsoluteUri, 
    Nullable<DateTime> snapshotTime, 
    StorageCredentials^ credentials 
)
```

## J#

## JScript

## Parameters

- **blobAbsoluteUri**
Type: **System.String**

The absolute URI to the blob.

**snapshotTime**
Type: **System.Nullable**

The snapshot timestamp, if the blob is a snapshot.

**credentials**
Type: **Microsoft.WindowsAzure.StorageCredentials**

The account credentials.
The following code example creates a new blob snapshot using a relative URI, a timestamp of an existing snapshot, and storage credentials.

```csharp
static void CreateBlobSnapshot2(Uri blobEndpoint, string accountName, string accountKey)
{
    // Use the account name and key to create storage credentials.
    StorageCredentialsAccountAndKey storageCredentials = new StorageCredentialsAccountAndKey(accountName, accountKey);
    // Create a service client for credentialed access.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, storageCredentials);
    // Get a reference to a blob.
    CloudBlob blob = blobClient.GetBlobReference("mycontainer/myblob.txt");
    // Create a snapshot of the blob.
    CloudBlob snapshot = blob.CreateSnapshot();
    // Get the snapshot timestamp.
    DateTime timestamp = (DateTime)snapshot.Attributes.Snapshot;
    // Use the timestamp to get a second reference to the snapshot.
    CloudBlob snapshot2 = new CloudBlob("mycontainer/myblob.txt", timestamp, storageCredentials);
    // Write out the snapshot URI.
    Console.WriteLine(snapshot2.Uri);
}
```
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Methods (see also Protected Methods)

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<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BeginCopyFromBlob</strong></td>
<td>Overloaded. Begins an asynchronous operation to copy another blob's contents, properties, and metadata to the blob referenced by this <a href="#">CloudBlob</a> object.</td>
</tr>
<tr>
<td><strong>BeginCreateSnapshot</strong></td>
<td>Overloaded. Begins an asynchronous operation to create a snapshot of the blob.</td>
</tr>
<tr>
<td><strong>BeginDelete</strong></td>
<td>Overloaded. Begins an asynchronous operation to delete the blob.</td>
</tr>
<tr>
<td><strong>BeginDeleteIfExists</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>BeginDownloadToStream</strong></td>
<td>Overloaded. Begins an asynchronous operation to download the contents of a blob to a stream.</td>
</tr>
<tr>
<td><strong>BeginFetchAttributes</strong></td>
<td>Overloaded. Begins an asynchronous operation to populate the blob's properties and metadata.</td>
</tr>
<tr>
<td><strong>BeginSetMetadata</strong></td>
<td>Overloaded. Begins an asynchronous operation to update the blob's metadata.</td>
</tr>
<tr>
<td><strong>BeginSetProperties</strong></td>
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</tr>
<tr>
<td><strong>BeginUploadFromStream</strong></td>
<td>Overloaded.</td>
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<tr>
<td><strong>CopyFromBlob</strong></td>
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</tr>
<tr>
<td><strong>CreateSnapshot</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>Delete</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>DeleteIfExists</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>DownloadByteArray</strong></td>
<td>Overloaded. Downloads the blob's contents as an array of bytes.</td>
</tr>
<tr>
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<td>Overloaded.</td>
</tr>
<tr>
<td><strong>DownloadToFile</strong></td>
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</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>DownloadToStream</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>EndCopyFromBlob</strong></td>
<td>Ends an asynchronous operation to copy a blob's contents, properties, and metadata to a new blob.</td>
</tr>
<tr>
<td><strong>EndCreateSnapshot</strong></td>
<td>Ends an asynchronous operation to create a snapshot of the blob.</td>
</tr>
<tr>
<td><strong>EndDelete</strong></td>
<td>Ends an asynchronous operation to delete the blob.</td>
</tr>
<tr>
<td><strong>EndDeleteIfExists</strong></td>
<td>Ends an asynchronous operation to delete the blob if it exists.</td>
</tr>
<tr>
<td><strong>EndDownloadToStream</strong></td>
<td>Ends an asynchronous operation to download the contents of a blob to a stream.</td>
</tr>
<tr>
<td><strong>EndFetchAttributes</strong></td>
<td>Ends an asynchronous operation to populate the blob's properties and metadata.</td>
</tr>
<tr>
<td><strong>EndSetMetadata</strong></td>
<td>Ends an asynchronous operation to update the blob's metadata.</td>
</tr>
<tr>
<td><strong>EndSetProperties</strong></td>
<td>Ends an asynchronous operation to update the blob's properties.</td>
</tr>
<tr>
<td><strong>EndUploadFromStream</strong></td>
<td>Ends an asynchronous operation to upload a blob from a stream.</td>
</tr>
<tr>
<td><strong>Equals</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
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<td>Overloaded.</td>
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<tr>
<td><strong>GetHashCode</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td><strong>GetSharedAccessSignature</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td><strong>OpenRead</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>OpenWrite</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>SetMetadata</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>SetProperties</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td><strong>UploadByteArray</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>UploadFile</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>UploadFromStream</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>UploadText</strong></td>
<td>Overloaded.</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
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<td>🌽 <strong>Finalize</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>🌽 <strong>MemberwiseClone</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>🌽 <strong>ParseSizeAndLastModified</strong></td>
<td>Parses values from a Blob service response. This method is protected.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlob Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.BeginCopyFromBlob Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to copy another blob's contents, properties, and metadata to the blob referenced by this CloudBlob object.
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudBlob.BeginCopyFromBlob(CloudBlob, BlobRequestOptions, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to copy another blob's contents, properties, and metadata to the blob referenced by this <code>CloudBlob</code> object.</td>
</tr>
<tr>
<td><code>CloudBlob.BeginCopyFromBlob(CloudBlob, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to copy a blob's contents, properties, and metadata to a new blob.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Working with Snapshots
CloudBlob.BeginCopyFromBlob Method (CloudBlob, BlobRequestOptions, AsyncCallback, Object)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to copy another blob's contents, properties, and metadata to the blob referenced by this CloudBlob object.

**Namespace**: Microsoft.WindowsAzure.StorageClient  
## Usage

### Visual Basic

```vbnet
Dim instance As CloudBlob
Dim source As CloudBlob
Dim options As BlobRequestOptions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginCopyFromBlob(source, opt:...)
```
<table>
<thead>
<tr>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
</tr>
<tr>
<td>Public Function BeginCopyFromBlob ( _ source As CloudBlob, _ options As BlobRequestOptions, _ callback As AsyncCallback, _ state As Object _ ) As IAsyncResult</td>
</tr>
<tr>
<td>C#</td>
</tr>
<tr>
<td>public IAsyncResult BeginCopyFromBlob ( CloudBlob source, BlobRequestOptions options, AsyncCallback callback, Object state )</td>
</tr>
<tr>
<td>C++</td>
</tr>
<tr>
<td>public: IAsyncResult^ BeginCopyFromBlob ( CloudBlob^ source, BlobRequestOptions^ options, AsyncCallback^ callback, Object^ state )</td>
</tr>
<tr>
<td>J#</td>
</tr>
</tbody>
</table>
| JS smtp
Parameters

**source**
Type: `Microsoft.WindowsAzure.StorageClient.CloudBlob`

The source blob.

**options**
Type: `Microsoft.WindowsAzure.StorageClient.BlobRequestOptions`

An object that specifies any additional options for the request.

**callback**
Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.

**state**
Type: `System.Object`

A user-defined object that will be passed to the callback delegate.

Return Value

Type: `System.IAsyncResult`

An `IAsyncResult` that references the asynchronous operation.
The following code example creates a new blob and copies it to a second blob, while specifying a particular request option.

C# static void CopyBlobAsync(Uri blobEndpoint, string accountName, string accountKey) {
    // Create service client for credentialed access.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Create a new blob by uploading a file.
    CloudBlob sourceBlob = blobClient.GetBlobReference("mycontainer/sourceblob.txt");
    sourceBlob.UploadFile("C:\somefile.txt");

    // Get a reference to the destination blob.
    CloudBlob destBlob = blobClient.GetBlobReference("mycontainer/destblob.txt");

    // Set options for the request.
    // E.g., Copy only if the source blob has changed.
    System.TimeSpan interval = new TimeSpan(7, 0, 0, 0);
    BlobRequestOptions options = new BlobRequestOptions();
    options.CopySourceAccessCondition = AccessCondition.IfModifiedSince(DateTime.UtcNow.Subtract(interval));

    destBlob.BeginCopyFromBlob(sourceBlob, options, CopyBlobCallback, destBlob);
}

static void CopyBlobCallback(IAsyncResult result) {
    CloudBlob blobDest = (CloudBlob)result.AsyncState;

    // End the operation.
    blobDest.EndCopyFromBlob(result);
}
Remarks

The **BeginCopyFromBlob** method begins an operation to copy the source blob specified in the `source` parameter to the blob on which this method is called (the destination blob).

Copying a source blob always copies the entire blob; copying a range of bytes or a set of blocks is not supported.

A blob copy operation can take any of the following forms:

- You can copy a source blob to a destination blob with a different name from that of the source blob. The destination blob can be an existing blob, or a new blob created by the copy operation.

- You can copy a snapshot over its base blob. By promoting a snapshot to the position of the base blob, you can restore an earlier version of a blob.

- You can copy a snapshot to a destination blob with a different name. The resulting destination blob is a writeable blob and not a snapshot.

**Copying Blob Properties and Metadata**

When a blob is copied, the following system properties are copied to the destination blob with the same values:

- `ContentType`
- `ContentEncoding`
- `ContentLanguage`
- `Length`
- `CacheControl`
- `ContentMd5`
The source blob's committed block list is also copied to the destination blob, if the blob is a block blob. Any uncommitted blocks are not copied.

**Copying Conditionally**

You can specify an access condition to copy the blob only if a condition is met. To specify a condition on the destination blob, use the `AccessCondition` property. To specify a condition on the source blob, use the `CopySourceAccessCondition` property. If the specified condition is not met, the blob is not copied, and the Blob service returns `HTTPStatusCode.PreconditionFailed`.

**Copying a Leased Blob**

To copy a leased blob, use the `CopyFrom` method.

**Copying Snapshots**

When a source blob is copied, any snapshots of the source blob are not copied to the destination. When a destination blob is overwritten with a copy, any snapshots associated with the destination blob stay intact under its name.

You can perform a copy operation to promote a snapshot blob over its base blob. In this way you can restore an earlier version of a blob. The snapshot remains, but its source is overwritten with a copy that can be both read and written.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Working with Snapshots
Begins an asynchronous operation to copy a blob's contents, properties, and metadata to a new blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlob
Dim source As CloudBlob
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginCopyFromBlob(source, callback)
```

Syntax

Visual Basic

Public Function BeginCopyFromBlob ( _
    source As CloudBlob, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult

C#

public IAsyncResult BeginCopyFromBlob ( 
    CloudBlob source,
    AsyncCallback callback,
    Object state
)

C++

public: 
IAsyncResult^ BeginCopyFromBlob ( 
    CloudBlob^ source,
    AsyncCallback^ callback,
    Object^ state
)

J#

JScript

Parameters

source

The source blob.

*callback*

Type: [System.AsyncCallback](http://www.windowsazure.com)

The callback delegate that will receive notification when the asynchronous operation completes.

*state*

Type: [System.Object](http://www.windowsazure.com)

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: [System.IAsyncResult](http://www.windowsazure.com)

An IAsyncResult that references the asynchronous operation.
Example

The following code example copies a blob only if an access condition on the source blob is met.

```csharp
static void CopyBlobAsync(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Create a new blob by uploading a file.
    CloudBlob sourceBlob = blobClient.GetBlobReference("mycontainer/sourceblob.txt");
    sourceBlob.UploadFile("C:\somefile.txt");

    // Get a reference to the destination blob.
    CloudBlob destBlob = blobClient.GetBlobReference("mycontainer/destblob.txt");
    destBlob.BeginCopyFromBlob(sourceBlob, CopyBlobCallback, destBlob);
}

static void CopyBlobCallback(IAsyncResult result)
{
    CloudBlob blobDest = (CloudBlob)result.AsyncState;

    // End the operation.
    blobDest.EndCopyFromBlob(result);
}
```
Remarks

The **BeginCopyFromBlob** method begins an operation to copy the source blob specified in the `source` parameter to the blob on which this method is called (the destination blob).

Copying a source blob always copies the entire blob; copying a range of bytes or a set of blocks is not supported.

A blob copy operation can take any of the following forms:

- You can copy a source blob to a destination blob with a different name from that of the source blob. The destination blob can be an existing blob, or a new blob created by the copy operation.

- You can copy a snapshot over its base blob. By promoting a snapshot to the position of the base blob, you can restore an earlier version of a blob.

- You can copy a snapshot to a destination blob with a different name. The resulting destination blob is a writeable blob and not a snapshot.

Copying Blob Properties and Metadata

When a blob is copied, the following system properties are copied to the destination blob with the same values:

- **ContentType**

- **ContentEncoding**

- **ContentLanguage**

- **Length**

- **CacheControl**

- **ContentMd5**
The source blob's committed block list is also copied to the destination blob, if the blob is a block blob. Any uncommitted blocks are not copied.

**Copying Conditionally**

You can specify an access condition to copy the blob only if a condition is met. To specify a condition on the destination blob, use the `AccessCondition` property. To specify a condition on the source blob, use the `CopySourceAccessCondition` property. If the specified condition is not met, the blob is not copied, and the Blob service returns `HTTPStatusCode.PreconditionFailed`.

**Copying a Leased Blob**

To copy a leased blob, use the `CopyFrom` method.

**Copying Snapshots**

When a source blob is copied, any snapshots of the source blob are not copied to the destination. When a destination blob is overwritten with a copy, any snapshots associated with the destination blob stay intact under its name.

You can perform a copy operation to promote a snapshot blob over its base blob. In this way you can restore an earlier version of a blob. The snapshot remains, but its source is overwritten with a copy that can be both read and written.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Working with Snapshots
CloudBlob.BeginCreateSnapshot Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to create a snapshot of the blob.

Working with Snapshots
## Overload List

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<td><code>CloudBlob.BeginCreateSnapshot(AsyncCallback, Object)</code></td>
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See Also

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CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

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Working with Snapshots
Working with Snapshots
Begins an asynchronous operation to create a snapshot of the blob, using a conditional request based on the `BlobRequestOptions` that you specify.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlob
Dim options As BlobRequestOptions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginCreateSnapshot(options, callback)
```
### Syntax

#### Visual Basic

```vbnet
Public Function BeginCreateSnapshot ( _
    options As BlobRequestOptions, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

#### C#

```csharp
public IAsyncResult BeginCreateSnapshot ( 
    BlobRequestOptions options, 
    AsyncCallback callback, 
    Object state 
)
```

#### C++

```cpp
public: 
    IAsyncResult^ BeginCreateSnapshot ( 
        BlobRequestOptions^ options, 
        AsyncCallback^ callback, 
        Object^ state 
    )
```

#### J#

```
```

#### JScript

```
```

### Parameters

- **options**
Type: **Microsoft.WindowsAzure.StorageClient.BlobRequestOptions**

An object that specifies any additional options for the request.

**callback**

Type: **System.AsyncCallback**

The callback delegate that will receive notification when the asynchronous operation completes.

**state**

Type: **System.Object**

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: **System.IAsyncResult**

An **IAsyncResult** that references the asynchronous operation.
Example

The following code example creates a blob reference, then instantiates it in the cloud by uploading the contents of a local text file to it, and finally creates a snapshot of it—using a conditional, asynchronous request.

C#

```csharp
private void Eg_BeginCreateSnapshot2(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create a service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
                            new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Create a blob reference.
    CloudBlob myBlob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    // Use the blob reference to create and initialize an actual blob in the cloud.
    myBlob.UploadFile("C:\somefile.txt");

    // Create another blob reference; this one to hold a snapshot of the blob.
    CloudBlob snapShotBlob = new CloudBlob(myBlob);

    // Set options for the request.
    // E.g., Create a snapshot only if the blob has changed in the past week.
    System.TimeSpan interval = new TimeSpan(7, 0, 0, 0);
    BlobRequestOptions options = new BlobRequestOptions();
    options.CopySourceAccessCondition = AccessCondition.IfModifiedSince(DateTime.UtcNow.Subtract(interval));
    snapShotBlob.BeginCreateSnapshot(options, Eg_CreateSnapshotCallback, snapShotBlob);
}

private void Eg_CreateSnapshotCallback(IAsyncResult result)
{
    CloudBlob blobSnapShot = (CloudBlob)result.AsyncState;
    blobSnapShot.EndCreateSnapshot(result);
}
```
}
Remarks

Snapshots provide read-only versions of blobs. Once a snapshot has been created, it can be read, copied, or deleted, but not modified.

A snapshot is itself a blob, and can be represented by a CloudBlob object or one of its derived objects.

When you create a snapshot, the blob's Snapshot property returns a DateTime value that uniquely identifies the snapshot relative to its base blob. You can use this value to perform further operations on the snapshot.

You can use a snapshot to restore a blob to an earlier version by copying over a base blob with its snapshot.

Copying Blob Properties and Metadata

When you create a snapshot of a blob, the following system properties are copied to the snapshot with the same values:

- **ContentType**
- **ContentEncoding**
- **ContentLanguage**
- **Length**
- **CacheControl**
- **ContentMd5**

The base blob's committed block list is also copied to the snapshot, if the blob is a block blob. Any uncommitted blocks are not copied.

The metadata associated with the base blob is copied to the snapshot.

Specifying an Access Condition
You can specify an access condition so that the snapshot is created only if a condition is met. To specify an access condition, use the `AccessCondition` property. If the specified condition is not met, the snapshot is not created, and the Blob service returns status code `HTTPStatusCode.PreconditionFailed`.

**Copying Snapshots**

When a base blob is copied, any snapshots of the base blob are not copied to the destination blob. When a destination blob is overwritten with a copy, any snapshots associated with the destination blob stay intact under its name.

You can copy a snapshot blob over its base blob to restore an earlier version of blob. The snapshot remains, but the base blob is overwritten with a copy that can be both read and written.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

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See Also

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CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

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Working with Snapshots
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[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to create a snapshot of the blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlob
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginCreateSnapshot(callback,
```
## Syntax

### Visual Basic

```
Public Function BeginCreateSnapshot ( _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```
public IAsyncResult BeginCreateSnapshot (  
    AsyncCallback callback,  
    Object state
)
```

### C++

```
public:  
    IAsyncResult^ BeginCreateSnapshot (  
    AsyncCallback^ callback,  
    Object^ state
)
```

### J#

```

```

### JScript

```

```

## Parameters

- **callback**
  - Type: `System.AsyncCallback`

  The callback delegate that will receive notification when the asynchronous operation completes.
**state**
Type: System.Object

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
**Example**

The following code example creates a blob reference, then instantiates it in the cloud by uploading the contents of a local text file to it, and finally creates a snapshot of it—asynchronously.

```csharp
static void Eg_BeginCreateSnapshot1(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create a service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
            new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Create a blob reference.
    CloudBlob myBlob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    // Use the blob reference to create and initialize an actual blob in the cloud.
    myBlob.UploadFile("C:\somefile.txt");

    // Create another blob reference; this one for holding a snapshot of the first blob.
    CloudBlob snapShotBlob = new CloudBlob(myBlob);

    // Create the snapshot—asynchronously.
    snapShotBlob.BeginCreateSnapshot(Eg_CreateSnapshotCallback, snapShotBlob);
}

private void Eg_CreateSnapshotCallback(IAsyncResult result)
{
    CloudBlob blobSnapShot = (CloudBlob)result.AsyncState;
    blobSnapShot.EndCreateSnapshot(result);
}
```
Remarks

Snapshots provide read-only versions of blobs. Once a snapshot has been created, it can be read, copied, or deleted, but not modified.

A snapshot is itself a blob, and can be represented by a CloudBlob object or one of its derived objects.

When you create a snapshot, the blob's Snapshot property returns a DateTime value that uniquely identifies the snapshot relative to its base blob. You can use this value to perform further operations on the snapshot.

You can use a snapshot to restore a blob to an earlier version by copying over a base blob with its snapshot.

Copying Blob Properties and Metadata

When you create a snapshot of a blob, the following system properties are copied to the snapshot with the same values:

- ***ContentType***
- ***ContentEncoding***
- ***ContentLanguage***
- ***Length***
- ***CacheControl***
- ***ContentMd5***

The base blob's committed block list is also copied to the snapshot, if the blob is a block blob. Any uncommitted blocks are not copied.

The metadata associated with the base blob is copied to the snapshot.

Specifying an Access Condition
You can specify an access condition so that the snapshot is created only if a condition is met. To specify an access condition, use the `AccessCondition` property. If the specified condition is not met, the snapshot is not created, and the Blob service returns status code `HTTPStatusCode.PreconditionFailed`.

**Copying Snapshots**

When a base blob is copied, any snapshots of the base blob are not copied to the destination blob. When a destination blob is overwritten with a copy, any snapshots associated with the destination blob stay intact under its name.

You can copy a snapshot blob over its base blob to restore an earlier version of blob. The snapshot remains, but the base blob is overwritten with a copy that can be both read and written.
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Working with Snapshots
CloudBlob.BeginCreateSnapshot Method (NameValueCollection, BlobRequestOptions, AsyncCallback, Object)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to create a snapshot of the blob, adding metadata to it that you specify, and using a conditional request based on the BlobRequestOptions that you specify.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

### Visual Basic

Dim instance As CloudBlob
Dim metadata As NameValueCollection
Dim options As BlobRequestOptions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginCreateSnapshot(metadata,
## Syntax

### Visual Basic

```vbnet
Public Function BeginCreateSnapshot ( _
    metadata As NameValueCollection, _
    options As BlobRequestOptions, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginCreateSnapshot ( 
    NameValueCollection metadata,
    BlobRequestOptions options,
    AsyncCallback callback,
    Object state
)
```

### C++

```cpp
public:
    IAsyncResult^ BeginCreateSnapshot ( 
    NameValueCollection^ metadata,
    BlobRequestOptions^ options,
    AsyncCallback^ callback,
    Object^ state
    )
```

### J#

```
```

### JScript

```
```
Parameters

metadata
Metadata associated with the blob.

options
Type: Microsoft.WindowsAzure.StorageClient.BlobRequestOptions
An object that specifies any additional options for the request.

callback
Type: System.AsyncCallback
The callback delegate that will receive notification when the asynchronous operation completes.

state
Type: System.Object
A user-defined object that will be passed to the callback delegate.

Return Value

Returns IAsyncResult.
Example

The following code example creates a blob reference, then instantiates it in the cloud by uploading the contents of a local text file to it, and finally creates a snapshot of it, supplying specified metadata—using a conditional, asynchronous request.

```csharp
private void Eg_BeginCreateSnapshot3(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create a service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
                            new StorageCredentialsAccountAndKey(accountName,
                                                                  accountKey));

    // Create a blob reference.
    CloudBlob myBlob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    // Use the blob reference to create and initialize it.
    myBlob.UploadFile("C:\somefile.txt");

    // Create another blob reference; this one to hold the snapshot.
    CloudBlob snapShotBlob = new CloudBlob(myBlob);

    // Set metadata values for the snapshot.
    // Create a collection of three Name/Value pairs.
    NameValueCollection ssMData = new NameValueCollection(3);
    ssMData.Add("Member", "No");
    ssMData.Add("System", "Abstract");
    ssMData.Add("Status", "Published");

    // Set options for the request.
    // E.g., Create a snapshot only if the blob has changed during the past week.
    System.TimeSpan interval = new TimeSpan(7, 0, 0,
                                             0);
    BlobRequestOptions options = new BlobRequestOptions();
```
options.CopySourceAccessCondition = AccessCondition.IfModifiedSince(DateTime.UtcNow.Subtract(interval));

snapShotBlob.BeginCreateSnapshot(ssMData, options);
}

private void Eg_CreateSnapshotCallback(IAsyncResult result)
{
    CloudBlob blobSnapShot = (CloudBlob)result.AsyncState;
    blobSnapShot.EndCreateSnapshot(result);
}
Remarks

The *metadata* parameter specifies a name-value pair associated with the blob. The snapshot is created with the specified metadata, and the base blob’s metadata is not copied.

Snapshots provide read-only versions of blobs. Once a snapshot has been created, it can be read, copied, or deleted, but not modified.

A snapshot is itself a blob, and can be represented by a [CloudBlob](#) object or one of its derived objects.

When you create a snapshot, the blob's [Snapshot](#) property returns a [DateTime](#) value that uniquely identifies the snapshot relative to its base blob. You can use this value to perform further operations on the snapshot.

You can use a snapshot to restore a blob to an earlier version by copying over a base blob with its snapshot.

**Copying Blob Properties and Metadata**

When you create a snapshot of a blob, the following system properties are copied to the snapshot with the same values:

- [ContentType](#)
- [ContentEncoding](#)
- [ContentLanguage](#)
- [Length](#)
- [CacheControl](#)
- [ContentMd5](#)

The base blob's committed block list is also copied to the snapshot, if the blob is a block blob. Any uncommitted blocks are not copied.
The metadata associated with the base blob is copied to the snapshot.

**Specifying an Access Condition**

You can specify an access condition so that the snapshot is created only if a condition is met. To specify an access condition, use the `AccessCondition` property. If the specified condition is not met, the snapshot is not created, and the Blob service returns status code `HTTPStatusCode.PreconditionFailed`.

**CopyingSnapshots**

When a base blob is copied, any snapshots of the base blob are not copied to the destination blob. When a destination blob is overwritten with a copy, any snapshots associated with the destination blob stay intact under its name.

You can copy a snapshot blob over its base blob to restore an earlier version of blob. The snapshot remains, but the base blob is overwritten with a copy that can be both read and written.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

**Development Platforms**

Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.BeginDelete Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to delete the blob.
## Overload List

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<td>Begins an asynchronous operation to delete a blob, using a conditional request based on the BlobRequestOptions that you specify.</td>
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<td>CloudBlob.BeginDelete (AsyncCallback, Object)</td>
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CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.BeginDelete Method (BlobRequestOptions, AsyncCallback, Object)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to delete a blob, using a conditional request based on the BlobRequestOptions that you specify.

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

Visual Basic

Dim instance As CloudBlob
Dim options As BlobRequestOptions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginDelete(options, callback,
### Syntax

**Visual Basic**

```vbnet
Public Function BeginDelete ( _
    options As BlobRequestOptions, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

**C#**

```csharp
public IAsyncResult BeginDelete ( BlobRequestOptions options,
                                   AsyncCallback callback,
                                   Object state
)
```

**C++**

```cpp
public: 
IAAsyncResult^ BeginDelete ( 
    BlobRequestOptions^ options, 
    AsyncCallback^ callback, 
    Object^ state 
)
```

**J#**

No J# equivalent.

**JScript**

No JScript equivalent.

---

### Parameters

- **options**
Type: `Microsoft.WindowsAzure.StorageClient.BlobRequestOptions`

An object that specifies any additional options for the request.

**callback**
Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.

**state**
Type: `System.Object`

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the asynchronous operation.
The following code example creates a blob reference, then instantiates it in the cloud by uploading the contents of a local text file to it, and finally deletes it — using a conditional, asynchronous request.

```csharp
static void Eg_BeginDeleteBlob2(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create a service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
                            new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Create a blob reference.
    CloudBlob myBlob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    // Use the blob reference to create and initialize an actual blob in the cloud.
    myBlob.UploadFile("C:\somefile.txt");

    // Set options for the request.
    BlobRequestOptions options = new BlobRequestOptions();

    // If the blob is a snapshot, then Delete would fail without setting this option.
    options.DeleteSnapshotsOption = DeleteSnapshotsOption.IncludeSnapshots;

    // Delete the blob only if it's contents have changed during the past week.
    System.TimeSpan interval = new TimeSpan(7, 0, 0);
    options.CopySourceAccessCondition = AccessCondition.IfModifiedSince(DateTime.UtcNow.Subtract(interval));

    // Delete the blob using an asynchronous call.
    myBlob.BeginDelete(options, Eg_DeleteCallback, myBlob);
}

private void Eg_DeleteCallback(IAsyncResult result)
{

```
CloudBlob blobToDelete = (CloudBlob)result.AsyncState;
blobToDelete.EndDelete(result);
Remarks

A blob that has snapshots cannot be deleted unless the snapshots are also deleted. If a blob has snapshots, use the `DeleteSnapshotsOption` property to specify how the snapshots should be handled when the blob is deleted.

The `BeginDelete` method will fail if the blob does not exist. To delete the blob only if it exists, use the `BeginDeleteIfExists` method.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
Begins an asynchronous operation to delete the blob.

**Namespace**: Microsoft.WindowsAzure.StorageClient  
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlob
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginDelete(callback, state)
```
### Syntax

#### Visual Basic

```vbnet
Public Function BeginDelete (  
    callback As AsyncCallback,  
    state As Object _
) As IAsyncResult
```

#### C#

```csharp
public IAsyncResult BeginDelete (  
    AsyncCallback callback,  
    Object state
)
```

#### C++

```cpp
public:  
IAsyncResult^ BeginDelete (  
    AsyncCallback^ callback,  
    Object^ state
)
```

#### J#

```jsharp```

#### JScript

```jscript```

### Parameters

- **callback**
  - Type: `System.AsyncCallback`

  The callback delegate that will receive notification when the asynchronous operation completes.
*state*

Type: **System.Object**

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: **System.IAsyncResult**

An **IAsyncResult** that references the asynchronous operation.
The following code example creates a blob reference, then instantiates it in the cloud by uploading the contents of a local text file to it, and finally deletes it — using an asynchronous request.

```csharp
static void Eg_BeginDeleteBlob1(Uri blobEndpoint, string accountName, string accountKey) {
    // Create a service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
                            new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Create a blob reference.
    CloudBlob myBlob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    // Use the blob reference to create and initialize it.
    myBlob.UploadFile("C:\somefile.txt");

    // Delete the blob using an asynchronous call.
    myBlob.BeginDelete(Eg_DeleteCallback, myBlob);
}

private void Eg_DeleteCallback(IAsyncResult result) {
    CloudBlob blobToDelete = (CloudBlob)result.AsyncState;
    blobToDelete.EndDelete(result);
}
```
Remarks

A blob that has snapshots cannot be deleted unless the snapshots are also deleted. If a blob has snapshots, specify the *options* parameter, setting the `DeleteSnapshotsOption` property to specify how the snapshots should be handled when the blob is deleted.

The **BeginDelete** method will fail if the blob does not exist. To delete the blob only if it exists, use the **BeginDeleteIfExists** method.
- **Thread Safety**

  Any public static (**Shared** in Visual Basic) members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

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See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Working with Snapshots
CloudBlob.BeginDeleteIfExists Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<tbody>
<tr>
<td><code>CloudBlob.BeginDeleteIfExists(BlobRequestOptions, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to delete the blob if it exists, using a conditional request based on the <code>BlobRequestOptions</code> that you specify.</td>
</tr>
<tr>
<td><code>CloudBlob.BeginDeleteIfExists(AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to delete the blob if it exists.</td>
</tr>
</tbody>
</table>
See Also

**Reference**

CloudBlob Class

CloudBlob Members

Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.BeginDeleteIfExists Method (BlobRequestOptions, AsyncCallback, Object)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to delete the blob if it exists, using a conditional request based on the BlobRequestOptions that you specify.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudBlob
Dim options As BlobRequestOptions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginDeleteIfExists(options, callback)
### Syntax

#### Visual Basic

```vbnet
Public Function BeginDeleteIfExists ( _
    options As BlobRequestOptions, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

#### C#

```csharp
public IAsyncResult BeginDeleteIfExists ( _
    BlobRequestOptions options,
    AsyncCallback callback,
    Object state
)
```

#### C++

```cpp
public: _
    IAsyncResult^ BeginDeleteIfExists ( _
    BlobRequestOptions^ options,
    AsyncCallback^ callback,
    Object^ state
)
```

#### J#

#### JScript

#### Parameters

- **options**

An object that specifies any additional options for the request.

**callback**

Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.

**state**

Type: `System.Object`

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: `System.IAsyncResult`

An IAsyncResult that references the asynchronous operation.
The following code example deletes a blob if it exists—and it does it specifying a request option, and using an asynchronous call.

**C#**

```csharp
private void Eg_BeginDeleteBlobIfExists2(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create a service client for credentialed access to the cloud.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
        new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Create a blob reference.
    CloudBlob myBlob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    // Use the blob reference to create and initialize an actual blob instance in the cloud.
    myBlob.UploadFile("C:\somefile.txt");

    // Set options for the request.
    BlobRequestOptions options = new BlobRequestOptions();

    // If the blob is a snapshot, then Delete would fail without setting this option.
    options.DeleteSnapshotsOption = DeleteSnapshotsOption.IncludeSnapshots;

    // Delete the blob if it exists, using an asynchronous call.
    myBlob.BeginDeleteIfExists(options, Eg_DeleteIfExistsCallback, myBlob);
}

private void Eg_DeleteIfExistsCallback(IAsyncResult result)
{
    CloudBlob blobToDelete = (CloudBlob)result.AsyncState;
    blobToDelete.EndDeleteIfExists(result);
}
```
 Remarks

A blob that has snapshots cannot be deleted unless the snapshots are also deleted. If a blob has snapshots, use the `DeleteSnapshotsOption` property to specify how the snapshots should be handled when the blob is deleted.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.BeginDeleteIfExists Method (AsyncCallback, Object)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to delete the blob if it exists.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

#### Visual Basic

```vbnet
Dim instance As CloudBlob
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginDeleteIfExists(callback,
```
```
## Syntax

### Visual Basic

```vbnet
Public Function BeginDeleteIfExists ( _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginDeleteIfExists (AsyncCallback callback, Object state)
```

### C++

```cpp
public:
    IAsyncResult^ BeginDeleteIfExists (AsyncCallback^ callback, Object^ state)
```

### J#

```jsharp```

### JScript

```jscript```

## Parameters

*callback*

Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.
**state**

Type: System.Object

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
### Example

The following code example deletes a blob if it exists, and it does it using an asynchronous call.

**C#**

```csharp
private void Eg_BeginDeleteBlobIfExists2(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create a service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
            new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Create a blob reference.
    CloudBlob myBlob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    // Use the blob reference to create and initialize.
    myBlob.UploadFile("C:\somefile.txt");

    // Delete the blob if it exists, using an asynchronous call.
    myBlob.BeginDeleteIfExists(Eg_DeleteIfExistsCallback, myBlob);
}

private void Eg_DeleteIfExistsCallback(IAsyncResult result)
{
    CloudBlob blobToDelete = (CloudBlob)result.AsyncState;
    blobToDelete.EndDeleteIfExists(result);
}
```
Remarks

A blob that has snapshots cannot be deleted unless the snapshots are also deleted. If a blob has snapshots, specify the `options` parameter, setting the `DeleteSnapshotsOption` property to specify how the snapshots should be handled when the blob is deleted.
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.BeginDownloadToStream Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to download the contents of a blob to a stream.

Setting Timeouts for Blob Service Operations
## Overload List

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<tr>
<th>Name</th>
<th>Description</th>
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<tr>
<td><strong>CloudBlob.BeginDownloadToStream(Stream, BlobRequestOptions, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to download the contents of a blob to a stream, using a conditional request based on the <strong>BlobRequestOptions</strong> that you specify.</td>
</tr>
<tr>
<td><strong>CloudBlob.BeginDownloadToStream(Stream, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to download the contents of a blob to a stream.</td>
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</table>
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Setting Timeouts for Blob Service Operations
Setting Timeouts for Blob Service Operations
CloudBlob.BeginDownloadToStream Method (Stream, BlobRequestOptions, AsyncCallback, Object)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to download the contents of a blob to a stream, using a conditional request based on the BlobRequestOptions that you specify.

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

Visual Basic

Dim instance As CloudBlob
Dim target As Stream
Dim options As BlobRequestOptions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

cReturnValue = instance.BeginDownloadToStream(target,
## Syntax

### Visual Basic

```vbnet
Public Function BeginDownloadToStream ( _
    target As Stream, _
    options As BlobRequestOptions, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginDownloadToStream ( 
    Stream target,
    BlobRequestOptions options,
    AsyncCallback callback,
    Object state
)
```

### C++

```cpp
public: 
IAasyncResult^ BeginDownloadToStream ( 
    Stream^ target,
    BlobRequestOptions^ options,
    AsyncCallback^ callback,
    Object^ state
)
```

### J#

```jsharp```

### JScript
**Parameters**

*target*
Type: *System.IO.Stream*

The target stream.

*options*
Type: *Microsoft.WindowsAzure.StorageClient.BlobRequestOptions*

An object that specifies any additional options for the request.

*callback*
Type: *System.AsyncCallback*

The callback delegate that will receive notification when the asynchronous operation completes.

*state*
Type: *System.Object*

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: *System.IAsyncResult*

An **IAsyncResult** that references the asynchronous operation.
Example

The following code example downloads a text blob to a file stream in order to append it to a text file.

C#

```csharp
static void DownloadBlobToStreamAsync(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Get a reference to a blob.
    CloudBlob blob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    // Set timeout interval to 2 minutes.
    BlobRequestOptions options = new BlobRequestOptions();
    options.Timeout = new TimeSpan(0, 2, 0);

    // Download the blob to a file stream.
    FileStream stream = new FileStream("C:\\appendtofile.txt", FileMode.Append);
    blob.BeginDownloadToStream(stream, options, DownloadBlobToStreamCallback, new Object[] { blob, stream });
}

static void DownloadBlobToStreamCallback(IAsyncResult result)
{
    // Get array passed to callback.
    Object[] state = (Object[])result.AsyncState;

    CloudBlob blob = (CloudBlob)state[0];
    FileStream stream = (FileStream)state[1];

    // End the operation.
    blob.EndDownloadToStream(result);

    // Close the stream.
}
```
stream.Close();
}
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference

CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources

Setting Timeouts for Blob Service Operations
Setting Timeouts for Blob Service Operations
CloudBlob.BeginDownloadToStream Method (Stream, AsyncCallback, Object)

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</table>

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to download the contents of a blob to a stream.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Visual Basic

Dim instance As CloudBlob
Dim target As Stream
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginDownloadToStream(target,
### Syntax

#### Visual Basic

```vbscript
Public Function BeginDownloadToStream ( _
    target As Stream, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

#### C#

```csharp
public IAsyncResult BeginDownloadToStream ( 
    Stream target,
    AsyncCallback callback,
    Object state
)
```

#### C++

```cpp
public: 
IAAsyncResult^ BeginDownloadToStream ( 
    Stream^ target,
    AsyncCallback^ callback,
    Object^ state
)
```

#### J#

```
```

#### JScript

```
```

### Parameters

- `target`
Type: System.IO.Stream

The target stream.

callback
Type: System.AsyncCallback

The callback delegate that will receive notification when the asynchronous operation completes.

state
Type: System.Object

A user-defined object that will be passed to the callback delegate.

Return Value

Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
Example

The following code example downloads a text blob to a file stream in order to append it to a text file.

```csharp
static void DownloadBlobToStreamAsync(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Get a reference to a blob.
    CloudBlob blob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    // Download the blob to a file stream.
    FileStream stream = new FileStream("C:\\appendtofile.txt", FileMode.Append);
    blob.BeginDownloadToStream(stream, DownloadBlobToStreamCallback, new Object[]{blob, stream});
}

static void DownloadBlobToStreamCallback(IAsyncResult result)
{
    // Get array passed to callback.
    Object[] state = (Object[])result.AsyncState;

    CloudBlob blob = (CloudBlob)state[0];
    FileStream stream = (FileStream)state[1];

    // End the operation.
    blob.EndDownloadToStream(result);

    // Close the stream.
    stream.Close();
}
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
**See Also**

**Reference**
- CloudBlob Class
- CloudBlob Members
- Microsoft.WindowsAzure.StorageClient Namespace

**Other Resources**
- Setting Timeouts for Blob Service Operations
CloudBlob.BeginFetchAttributes Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to populate the blob's properties and metadata.
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
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<tbody>
<tr>
<td><code>CloudBlob.BeginFetchAttributes(BlobRequestOptions, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to populate the blob's properties and metadata, using a conditional request based on the <code>BlobRequestOptions</code> that you specify.</td>
</tr>
<tr>
<td><code>CloudBlob.BeginFetchAttributes(AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to populate the blob's properties and metadata.</td>
</tr>
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</table>
See Also

Reference

CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.BeginFetchAttributes Method (BlobRequestOptions, AsyncCallback, Object)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to populate the blob's properties and metadata, using a conditional request based on the BlobRequestOptions that you specify.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
dim instance as CloudBlob
Dim options As BlobRequestOptions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginFetchAttributes(options,
```
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Public Function BeginFetchAttributes ( _  
| options As BlobRequestOptions, _  
| callback As AsyncCallback, _  
| state As Object _  
| ) As IAsyncResult |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
</table>
| public IAsyncResult BeginFetchAttributes (  
| BlobRequestOptions options,  
| AsyncCallback callback,  
| Object state  
| ) |

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| public:  
| IAsyncResult^ BeginFetchAttributes (  
| BlobRequestOptions^ options,  
| AsyncCallback^ callback,  
| Object^ state  
| ) |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>

### Parameters

- **options**
Type: [Microsoft.WindowsAzure.StorageClient.BlobRequestOptions](#)

An object that specifies any additional options for the request.

*callback*

Type: [System.AsyncCallback](#)

The callback delegate that will receive notification when the asynchronous operation completes.

*state*

Type: [System.Object](#)

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: [System.IAsyncResult](#)

An IAsyncResult that references the asynchronous operation.
The following code example creates an instance of a blob in the cloud, and populates it with metadata. It then creates a second blob that references the same blob instance, and populates it’s properties and metadata using an asynchronous call—specifying request options.

C#  
private void Eg_AsyncListBlobPropertiesAndMetadata2(Uri blobEndpoint, string accountName, string accountKey)
{  
   // Create a service client for credentialed access.  
   CloudBlobClient blobClient =
      new CloudBlobClient(blobEndpoint,
                          new StorageCredentialsAccountAndKey(accountName, accountKey));

   // Create a blob reference.  
   CloudBlob myBlob = blobClient.GetBlobReference("mycontainer/myblob.txt");

   // Write text to the blob.  
   myBlob.UploadText("One man that has a mind and knows it can always beat ten men who haven't and don't.");

   // Define metadata for the blob.  
   myBlob.Metadata["category"] = "quotes";
   myBlob.Metadata["owner"] = "George Bernard Shaw";

   // Update the blob instance with the new metadata.  
   myBlob.SetMetadata();

   // Create a second blob reference, that references the same blob instance.  
   CloudBlob myBlob2 = blobClient.GetBlobReference("mycontainer/myblob.txt");

   // Set options for the request. E.g., Specify an operation timeout.  
   BlobRequestOptions options = new BlobRequestOptions();
   options.Timeout = TimeSpan.FromSeconds(20.0);
// At this point, myBlob2 has neither system properties nor metadata.
// Populate the blob's attributes.
// Use aResult to determine when this asynchronous call has completed.
IAAsyncResult aResult = myBlob2.BeginFetchAttributes(options, Eg_BeginFetchAttributesCallback, myBlob2);

// The properties and metadata won't appear on the blob until the asynchronous call has completed.
while (!aResult.IsCompleted)
{
    // The calling thread can perform other work while the asynchronous call completes.
    Thread.Sleep(100);
}

// Verify that myBlob2's properties and metadata have been populated.
Console.WriteLine("Blob:	" + myBlob2.Attributes.Uri);
Console.WriteLine();
Console.WriteLine("Blob properties:");
Console.WriteLine("BlobType:	" + myBlob2.Attributes.Properties.BlobType);
Console.WriteLine("LastModifiedUTC:	" + myBlob2.Attributes.Properties.LastModifiedUtc);
Console.WriteLine("ETag:	" + myBlob2.Attributes.Properties.ETag);
Console.WriteLine();

// Enumerate the blob's metadata.
foreach (var metadataKey in myBlob2.Metadata.Keys)
{
    Console.WriteLine("Metadata name:	" + metadataKey.ToString());
}

private void Eg_BeginFetchAttributesCallback(IAsyncResult result)
{
    CloudBlob blobForAttributes = (CloudBlob)result.AsyncState;
    blobForAttributes.EndFetchAttributes(result);
}
Remarks

The **BeginFetchAttributes** method begins an operation to populate the blob's system properties and user-defined metadata. Before reading a blob's properties or metadata, you should always call this method or the **FetchAttributes** method to retrieve the latest values for the blob's properties and metadata from the service.
- **Thread Safety**

  Any public static (*Shared* in Visual Basic) members of this type are thread safe.
  Any instance members are not guaranteed to be thread safe.
Platforms

**Development Platforms**
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to populate the blob's properties and metadata.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

### Visual Basic

```vbs
Dim instance As CloudBlob
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginFetchAttributes(callback,
```
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Public Function BeginFetchAttributes ( _
  callback As AsyncCallback, _
  state As Object _
) As IAsyncResult |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public IAsyncResult BeginFetchAttributes (</td>
</tr>
</tbody>
</table>
  AsyncCallback callback, |
  Object state |
) |

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public:</td>
</tr>
<tr>
<td>IAsyncResult^ BeginFetchAttributes (</td>
</tr>
</tbody>
</table>
  AsyncCallback^ callback, |
  Object^ state |
) |

<table>
<thead>
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<th>J#</th>
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<tbody>
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<tr>
<th>JScript</th>
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</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

### Parameters

*callback*

Type: System AsyncCallback

The callback delegate that will receive notification when the asynchronous operation completes.
state
  Type: System.Object

  A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
Example

The following code example creates an instance of a blob in the cloud, and populates it with metadata. It then creates a second blob that references the same blob instance, and populates it’s properties and metadata using an asynchronous call.

```csharp
private void Eg_AsyncListBlobPropertiesAndMetadata2(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create a service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
            new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Create a blob reference.
    CloudBlob myBlob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    // Write text to the blob.
    myBlob.UploadText("One man that has a mind and knows it can always beat ten men who haven't and don't.");

    // Define metadata for the blob.
    myBlob.Metadata["category"] = "quotes";
    myBlob.Metadata["owner"] = "George Bernard Shaw";

    // Update the blob instance with the new metadata.
    myBlob.SetMetadata();

    // Create a second blob reference, that references the same blob instance.
    CloudBlob myBlob2 = blobClient.GetBlobReference("mycontainer/myblob.txt");

    // At this point, myBlob2 has neither system properties nor metadata.
    // Populate the blob's attributes.
    // Use aResult to determine when this asynchronous operation completes.
    IAsyncResult aResult = myBlob2.BeginFetchAttributes(Eg_BeginFetchAttributesCallback, myBlob2);
}
```
// The properties and metadata won't appear on the blob until the asynchronous call has completed.  
while (!aResult.IsCompleted)
{
    // The calling thread can perform other work while the asynchronous call completes.  
    Thread.Sleep(100);
}

// Verify that myBlob2's properties and metadata have been populated.  
Console.WriteLine("Blob:	" + myBlob2.Attributes.Uri);
Console.WriteLine();
Console.WriteLine("Blob properties:");
Console.WriteLine("BlobType:	" + myBlob2.Attributes.Properties.BlobType);
Console.WriteLine("LastModifiedUTC:	" + myBlob2.Attributes.Properties.LastModifiedUtc);
Console.WriteLine("ETag:	" + myBlob2.Attributes.Properties.ETag);
Console.WriteLine();

// Enumerate the blob's metadata.  
foreach (var metadataKey in myBlob2.Metadata.Keys)
{
    Console.WriteLine("Metadata name:	" + metadataKey.ToString());
}

private void Eg_BeginFetchAttributesCallback(IAsyncResult result)
{
    CloudBlob blobForAttributes = (CloudBlob)result.AsyncState;
    blobForAttributes.EndFetchAttributes(result);
}
Remarks

The **BeginFetchAttributes** method begins an operation to populate the blob's system properties and user-defined metadata. Before reading a blob's properties or metadata, you should always call this method or the **FetchAttributes** method to retrieve the latest values for the blob's properties and metadata from the service.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.BeginSetMetadata Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to update the blob's metadata.
# Overload List

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<thead>
<tr>
<th>Name</th>
<th>Description</th>
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<tbody>
<tr>
<td><code>CloudBlob.BeginSetMetadata (BlobRequestOptions, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to update the blob's metadata, using a conditional request based on the <code>BlobRequestOptions</code> that you specify.</td>
</tr>
<tr>
<td><code>CloudBlob.BeginSetMetadata (AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to update the blob's metadata.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Implementing the CLR Asynchronous Programming Model
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to update the blob's metadata, using a conditional request based on the BlobRequestOptions that you specify.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

### Visual Basic

```vbscript
Dim instance As CloudBlob
Dim options As BlobRequestOptions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginSetMetadata(options, callback)
```
## Syntax

### Visual Basic

```vbnet
Public Function BeginSetMetadata (  
    options As BlobRequestOptions,  
    callback As AsyncCallback,  
    state As Object  
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginSetMetadata (  
    BlobRequestOptions options,  
    AsyncCallback callback,  
    Object state
)
```

### C++

```cpp
public:  
    IAsyncResult^ BeginSetMetadata (  
        BlobRequestOptions^ options,  
        AsyncCallback^ callback,  
        Object^ state
    )
```

### J#

```jsharp

```

### JScript

```jscript

```

### Parameters

- **options**
Type: Microsoft.WindowsAzure.StorageClient.BlobRequestOptions

An object that specifies any additional options for the request.

callback
Type: System.AsyncCallback

The callback delegate that will receive notification when the asynchronous operation completes.

state
Type: System.Object

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
The following code example creates an instance of a blob in the cloud, and then populates it's metatdata using an asynchronous call—specifying request options:

```csharp
private void Eg_BeginSetMetadata2(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create a service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
                            new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Create a blob reference.
    CloudBlob myBlob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    // Write text to the blob.
    myBlob.UploadText("One man that has a mind and knows it can always beat ten men who haven't and don't.");

    // Define metadata for the blob.
    myBlob.Metadata["category"] = "quotes";
    myBlob.Metadata["owner"] = "George Bernard Shaw";

    // Set options for the request. E.g., Specify an operation timeout of 20 seconds.
    BlobRequestOptions options = new BlobRequestOptions();
    options.Timeout = TimeSpan.FromSeconds(20.0);

    // At this point, myBlob still has no metadata.
    // Set the blob's metadata.
    // Use aResult to determine when this asynchronous call has completed.
    IAsyncResult aResult = myBlob.BeginSetMetadata(options, Eg_BeginSetMetadataCallback, myBlob);

    // The metatdata won't appear on the blob until the asynchronous call completes.
    while (!aResult.IsCompleted)
    {
        // The calling thread can perform other work.
    }
}
```
Thread.Sleep(100);

// Verify that myBlob's metadata has been populated
foreach (var metadataKey in myBlob.Metadata.Keys)
{
    Console.WriteLine("Metadata name:\t" + metadataKey.ToString());
    Console.WriteLine("Metadata value:\t" + myBlob.Metadata.Get(metadataKey.ToString()));
}

private void Eg_BeginSetMetadataCallback(IAsyncResult result)
{
    CloudBlob blob = (CloudBlob)result.AsyncState;
    blob.EndSetMetadata(result);
}
Remarks

The **BeginSetMetadata** method writes the metadata values that are specified by the blob's **Metadata** property to the service. Note that setting the **Metadata** property sets metadata values on the blob reference only; you must call **BeginSetMetadata** or **SetMetadata** to write them to the service.
Thread Safety

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Implementing the CLR Asynchronous Programming Model
**CloudBlob.BeginSetMetadata Method (AsyncCallback, Object)**

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[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.]

Begins an asynchronous operation to update the blob's metadata.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As CloudBlob
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginSetMetadata(callback, state)
### Syntax

**Visual Basic**

```vbnet
Public Function BeginSetMetadata ( _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

**C#**

```csharp
public IAsyncResult BeginSetMetadata (  
    AsyncCallback callback,  
    Object state  
)
```

**C++**

```cpp
public:  
IAsyncResult^ BeginSetMetadata (  
    AsyncCallback^ callback,  
    Object^ state  
)
```

**J#**

```vbnet
```

**JScript**

```jscript
```

### Parameters

**callback**

Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.
**state**

Type: System.Object

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
**Example**

The following code example creates an instance of a blob in the cloud, and then populates it's metadata using an asynchronous call.

```csharp
private void Eg_BeginSetMetadata1(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create a service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
            new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Create a blob reference.
    CloudBlob myBlob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    // Write text to the blob.
    myBlob.UploadText("One man that has a mind and knows it can always beat ten men who haven't and don't.");

    // Define metadata for the blob.
    myBlob.Metadata["category"] = "quotes";
    myBlob.Metadata["owner"] = "George Bernard Shaw";

    // At this point, myBlob still has no metadata.
    // Set the blob's metadata.
    // Use aResult to determine when this asynchronous call has completed.
    IAsyncResult aResult = myBlob.BeginSetMetadata(Eg_BeginSetMetadataCallback, myBlob);

    // The metadata won't appear on the blob until the asynchronous call completes.
    while (!aResult.IsCompleted)
    {
        // The calling thread can perform other work.
        Thread.Sleep(100);
    }

    // Verify that myBlob's metadata has been populated.
```
foreach (var metadataKey in myBlob.Metadata.Keys)
{
    Console.WriteLine("Metadata name:	" + metadataKey.ToString());
}

private void Eg_BeginSetMetadataCallback(IAsyncResult result)
{
    CloudBlob blob = (CloudBlob)result.AsyncState;
    blob.EndSetMetadata(result);
}
Remarks

The `BeginSetMetadata` method writes the metadata values that are specified by the blob's `Metadata` property to the service. Note that setting the `Metadata` property sets metadata values on the blob reference only; you must call `BeginSetMetadata` or `SetMetadata` to write them to the service.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
Change History
See Also

Reference

CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.BeginSetProperties Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

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</tr>
<tr>
<td>CloudBlob.BeginSetProperties(AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to update the blob's properties.</td>
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See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.BeginSetProperties Method (BlobRequestOptions, AsyncCallback, Object)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to update the blob's properties, using a conditional request based on the BlobRequestOptions that you specify.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

Visual Basic

Dim instance As CloudBlob
Dim options As BlobRequestOptions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginSetProperties(options, callback)
Syntax

Visual Basic

Public Function BeginSetProperties ( _
options As BlobRequestOptions, _
callback As AsyncCallback, _
state As Object _
) As IAsyncResult

C#

public IAsyncResult BeginSetProperties ( 
BlobRequestOptions options,
AsyncCallback callback,
Object state

C++

public: 
IAsyncResult^ BeginSetProperties ( 
BlobRequestOptions^ options,
AsyncCallback^ callback,
Object^ state

J#

JScript

Parameters

options
Type: `Microsoft.WindowsAzure.StorageClient.BlobRequestOptions`

An object that specifies any additional options for the request.

**callback**
Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.

**state**
Type: `System.Object`

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the asynchronous operation.
Remarks

The **BeginSetProperties** method writes the blob's writable property values to the service. The blob's writable properties are **CacheControl**, **ContentEncoding**, **ContentLanguage**, **ContentMd5**, and **ContentType**.

Note that setting these property values sets them on the blob reference only; you must call **BeginSetProperties** or **SetProperties** to write them to the service.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

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See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.BeginSetProperties Method (AsyncCallback, Object)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to update the blob's properties.

**Namespace**: Microsoft.WindowsAzure.StorageClient  
**Usage**

**Visual Basic**

```vba
Dim instance As CloudBlob
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginSetProperties(callback, state)
```
## Syntax

### Visual Basic

```vbnet
Public Function BeginSetProperties ( _
callback As AsyncCallback, _
state As Object _
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginSetProperties ( 
AsyncCallback callback, 
Object state
)
```

### C++

```cpp
public: 
IAsyncResult^ BeginSetProperties ( 
AsyncCallback^ callback, 
Object^ state
)
```

### J#

```jsharp

```

### JScript

```jsn

```

## Parameters

**callback**

Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.
state
Type: System.Object
A user-defined object that will be passed to the callback delegate.

Return Value
Type: System.IAsyncResult
An IAsyncResult that references the asynchronous operation.
Remarks

The **BeginSetProperties** method writes the blob's writable property values to the service. The blob's writable properties are **CacheControl**, **ContentEncoding**, **ContentLanguage**, **ContentMd5**, and **ContentType**.

Note that setting these property values sets them on the blob reference only; you must call **BeginSetProperties** or **SetProperties** to write them to the service.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.
  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<td>Begins an asynchronous operation to upload a blob from a stream, using a conditional request based on the BlobRequestOptions that you specify.</td>
</tr>
<tr>
<td>CloudBlob.BeginUploadFromStream(Stream, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to upload a blob from a stream.</td>
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See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.BeginUploadFromStream Method (Stream, BlobRequestOptions, AsyncCallback, Object)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to upload a blob from a stream, using a conditional request based on the BlobRequestOptions that you specify.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

Dim instance As CloudBlob
Dim source As Stream
Dim options As BlobRequestOptions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginUploadFromStream(source,
## Syntax

### Visual Basic

```vbnet
Public Overridable Function BeginUploadFromStream (  
    source As Stream, _
    options As BlobOptions, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```csharp
public virtual IAsyncResult BeginUploadFromStream (  
    Stream source,
    BlobRequestOptions options,
    AsyncCallback callback,
    Object state
)
```

### C++

```cpp
public:
    virtual IAsyncResult^ BeginUploadFromStream (  
        Stream^ source,
        BlobRequestOptions^ options,
        AsyncCallback^ callback,
        Object^ state
    )
```

### J#

```jsharp

```

### JScript

```

```
Parameters

source
Type: System.IO.Stream

The stream providing the blob content.

options
Type: Microsoft.WindowsAzure.StorageClient.BlobRequestOptions

An object that specifies any additional options for the request.

callback
Type: System.AsyncCallback

The callback delegate that will receive notification when the asynchronous operation completes.

state
Type: System.Object

A user-defined object that will be passed to the callback delegate.

Return Value

Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
Remarks

The BeginUploadFromStream method creates a block blob from the contents of a stream.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
Begins an asynchronous operation to upload a blob from a stream.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As CloudBlob
Dim source As Stream
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginUploadFromStream(source,
```
## Syntax

### Visual Basic

```vbnet
Public Overridable Function BeginUploadFromStream ( 
    source As Stream, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```csharp
public virtual IAsyncResult BeginUploadFromStream ( 
    Stream source,
    AsyncCallback callback,
    Object state
)
```

### C++

```cpp
public: 
virtual IAsyncResult^ BeginUploadFromStream ( 
    Stream^ source,
    AsyncCallback^ callback,
    Object^ state
)
```

### J#

```jsharp```

### JScript

```jscript```

## Parameters

- `source`
Type: `System.IO.Stream`

The stream providing the blob content.

`callback`
Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.

`state`
Type: `System.Object`

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the asynchronous operation.
Remarks

The `BeginUploadFromStream` method creates a block blob from the contents of a stream.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<td>Copies an existing blob's contents, properties, and metadata to a new blob.</td>
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<tr>
<td><code>CloudBlob.CopyFromBlob (CloudBlob, BlobRequestOptions)</code></td>
<td>Copies an existing blob's contents, properties, and metadata to a new blob, with options.</td>
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</table>
See Also

Reference

CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources

Working with Snapshots
CloudBlob.CopyFromBlob Method (CloudBlob)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Copies an existing blob's contents, properties, and metadata to a new blob.

**Namespace**: Microsoft.WindowsAzure.StorageClient

### Usage

**Visual Basic**

```vbnet
Dim instance As CloudBlob
Dim source As CloudBlob

instance.CopyFromBlob(source)
```
Syntax

Visual Basic

Public Sub CopyFromBlob (_
    source As CloudBlob _
)

C#

public void CopyFromBlob (_
    CloudBlob source _
)

C++

public:
void CopyFromBlob (_
    CloudBlob^ source _
)

J#

JScript

Parameters

source
Type: Microsoft.WindowsAzure.StorageClient.CloudBlob

The source blob.
The following code example copies a source blob to a destination blob.

```csharp
static void CopyBlob(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Get a reference to the source blob.
    CloudBlob sourceBlob = blobClient.GetBlobReference("mycontainer/myblob.txt");
    sourceBlob.FetchAttributes();

    // Get a reference to the destination blob.
    CloudBlob destBlob = blobClient.GetBlobReference("mycontainer/myotherblob.txt");

    try
    {
        // Copy source blob to destination blob.
        destBlob.CopyFromBlob(sourceBlob);
    }
    catch (StorageClientException e)
    {
        Console.WriteLine("Error code: " + e.ErrorCode);
    }
}
```
Remarks

The CopyFromBlob method copies the source blob specified in the source parameter to the blob on which this method is called (the destination blob).

Copying a source blob always copies the entire blob; copying a range of bytes or a set of blocks is not supported.

A blob copy operation can take any of the following forms:

- You can copy a source blob to a destination blob with a different name from that of the source blob. The destination blob can be an existing blob, or a new blob created by the copy operation.

- You can copy a source blob to a destination blob with the same name, effectively replacing the source blob. Such a copy operation removes any uncommitted blocks and overwrites the blob's metadata.

- You can copy a snapshot over its base blob. By promoting a snapshot to the position of the base blob, you can restore an earlier version of a blob.

- You can copy a snapshot to a destination blob with a different name. The resulting destination blob is a writeable blob and not a snapshot.

Copying Blob Properties and Metadata

When a blob is copied, the following system properties are copied to the destination blob with the same values:

- **ContentType**
- **ContentEncoding**
- **ContentLanguage**
- **Length**
- **CacheControl**
The source blob's committed block list is also copied to the destination blob, if the blob is a block blob. Any uncommitted blocks are not copied.

**Copying Conditionally**

You can specify an access condition to copy the blob only if a condition is met, using the overload that takes an `options` parameter. To specify a condition on the destination blob, use the `AccessCondition` property. To specify a condition on the source blob, use the `CopySourceAccessCondition` property. If the specified condition is not met, the blob is not copied, and the Blob service returns `HTTPStatusCode.PreconditionFailed`.

**Copying a Leased Blob**

To copy a leased blob, use the `CopyFrom` method.

**Copying Snapshots**

When a source blob is copied, any snapshots of the source blob are not copied to the destination. When a destination blob is overwritten with a copy, any snapshots associated with the destination blob stay intact under its name.

You can perform a copy operation to promote a snapshot blob over its base blob. In this way you can restore an earlier version of a blob. The snapshot remains, but its source is overwritten with a copy that can be both read and written.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

**Reference**
*CloudBlob Class*
*CloudBlob Members*
*Microsoft.WindowsAzure.StorageClient Namespace*

**Other Resources**
*Working with Snapshots*
Copies an existing blob's contents, properties, and metadata to a new blob, with options.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Dim instance As **CloudBlob**  
Dim source As **CloudBlob**  
Dim options As **BlobRequestOptions** |
| instance.CopyFromBlob(source, options) |
### Syntax

#### Visual Basic

```vbnet
Public Sub CopyFromBlob (_
    source As CloudBlob, _
    options As BlobRequestOptions _
)
```

#### C#

```csharp
public void CopyFromBlob (CloudBlob source,
                          BlobRequestOptions options)
```

#### C++

```cpp
public:
void CopyFromBlob (CloudBlob^ source,
                   BlobRequestOptions^ options)
```

#### J#

```jsharp```

#### JScript

```jscript```

### Parameters

- **source**
  - The source blob.

- **options**
  - Type: [Microsoft.WindowsAzure.StorageClient.BlobRequestOptions](#)
An object that specifies any additional options for the request.
The following code example checks an access condition on the source blob and copies the blob if the condition is met.

```csharp
static void CopyIfModifiedSince(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access
datetime blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Get a reference to the source blob.
    CloudBlob sourceBlob = blobClient.GetBlobReference("mycontainer/myblob.txt");
    sourceBlob.FetchAttributes();

    // Get a reference to the destination blob.
    CloudBlob destBlob = blobClient.GetBlobReference("mycontainer/copy-if-modified-since.txt");
    BlobRequestOptions options = new BlobRequestOptions();
    DateTime dt = new DateTime(2012, 9, 1, 0, 0, 0, DateTimeKind.Utc);

    try
    {
        // Copy the source blob to the destination blob
        // IF the source blob has been modified since 9/1/2012.
        options.CopySourceAccessCondition = AccessCondition.IfModifiedSince(dt.ToUniversalTime());
        destBlob.CopyFromBlob(sourceBlob, options);
    }
    catch (StorageClientException e)
    {
        if (e.StatusCode == HttpStatusCode.PreconditionFailed)
        {
            Console.WriteLine("Access condition not met - blob " + sourceBlob.Uri + " has not been modified since " + dt.ToUniversalTime());
        }
        else
        {
```
{
    Console.WriteLine("Error code: " + e.ErrorCode);
}
}
 Remarks

The **CopyFromBlob** method copies the source blob specified in the *source* parameter to the blob on which this method is called (the destination blob).

Copying a source blob always copies the entire blob; copying a range of bytes or a set of blocks is not supported.

A blob copy operation can take any of the following forms:

- You can copy a source blob to a destination blob with a different name from that of the source blob. The destination blob can be an existing blob, or a new blob created by the copy operation.

- You can copy a source blob to a destination blob with the same name, effectively replacing the source blob. Such a copy operation removes any uncommitted blocks and overwrites the blob's metadata.

- You can copy a snapshot over its base blob. By promoting a snapshot to the position of the base blob, you can restore an earlier version of a blob.

- You can copy a snapshot to a destination blob with a different name. The resulting destination blob is a writeable blob and not a snapshot.

**Copying Blob Properties and Metadata**

When a blob is copied, the following system properties are copied to the destination blob with the same values:

- **ContentType**
- **ContentEncoding**
- **ContentLanguage**
- **Length**
- **CacheControl**
The source blob's committed block list is also copied to the destination blob, if the blob is a block blob. Any uncommitted blocks are not copied.

**Copying Conditionally**

You can specify an access condition to copy the blob only if a condition is met, using the overload that takes an *options* parameter. To specify a condition on the destination blob, use the `AccessCondition` property. To specify a condition on the source blob, use the `CopySourceAccessCondition` property. If the specified condition is not met, the blob is not copied, and the Blob service returns `HTTPStatusCode.PreconditionFailed`.

**Copying a Leased Blob**

To copy a leased blob, use the `CopyFrom` method.

**Copying Snapshots**

When a source blob is copied, any snapshots of the source blob are not copied to the destination. When a destination blob is overwritten with a copy, any snapshots associated with the destination blob stay intact under its name.

You can perform a copy operation to promote a snapshot blob over its base blob. In this way you can restore an earlier version of a blob. The snapshot remains, but its source is overwritten with a copy that can be both read and written.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Working with Snapshots
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<td>Creates a snapshot of the blob.</td>
</tr>
<tr>
<td><code>CloudBlob.CreateSnapshot(BlobRequestOptions)</code></td>
<td>Creates a snapshot of the blob, using a conditional request based on the <code>BlobRequestOptions</code> that you specify.</td>
</tr>
<tr>
<td><code>CloudBlob.CreateSnapshot(NameValueCollection, BlobRequestOptions)</code></td>
<td>Creates a snapshot of the blob, adding metadata to it that you specify, and using a conditional request based on the <code>BlobRequestOptions</code> that you specify.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Working with Snapshots
Creates a snapshot of the blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlob
Dim returnValue As CloudBlob

returnValue = instance.CreateSnapshot
```
## Syntax

### Visual Basic

```vb
Public Function CreateSnapshot As CloudBlob
```

### C#

```csharp
public CloudBlob CreateSnapshot()
```

### C++

```cpp
public: CloudBlob^ CreateSnapshot()
```

### JScript

```
```

### JScript

```
```

## Return Value

Type: `Microsoft.WindowsAzure.StorageClient.CloudBlob`

A blob snapshot.
```csharp
static void CreateBlobSnapshot(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Get a reference to a blob.
    CloudBlob blob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    // Take a snapshot of the blob.
    CloudBlob snapshot = blob.CreateSnapshot();

    // Get the snapshot timestamp.
    DateTime timestamp = (DateTime)snapshot.Attributes.Snapshot;

    // Use the timestamp to get a second reference to the blob.
    CloudBlob snapshot2 = new CloudBlob("mycontainer/myblob.txt", timestamp, blobClient);

    // Write out the snapshot URI.
    Console.WriteLine(snapshot2.Uri);
}
```
## Remarks

Snapshots provide read-only versions of blobs. Once a snapshot has been created, it can be read, copied, or deleted, but not modified.

A snapshot is itself a blob, and can be represented by a `CloudBlob` object or one of its derived objects.

When you create a snapshot, the blob's `Snapshot` property returns a `DateTime` value that uniquely identifies the snapshot relative to its base blob. You can use this value to perform further operations on the snapshot. Note that this `DateTime` value is opaque.

You can use a snapshot to restore a blob to an earlier version by copying over a base blob with its snapshot.

### Note

You are charged for unique blocks or pages stored in association with a blob. Creating a snapshot does not incur an additional charge against your storage account for blocks or pages used, as the snapshot does not use additional storage resources but instead shares blocks or pages with the base blob, as long as they remain identical. As you add new blocks or pages to the base blob, you are charged for the storage capacity used by these new blocks or pages.

### Copying Blob Properties and Metadata

When you create a snapshot of a blob, the following system properties are copied to the snapshot with the same values:

- `ContentType`
- `ContentEncoding`
- `ContentLanguage`
- `Length`
- `CacheControl`
The base blob's committed block list is also copied to the snapshot, if the blob is a block blob. Any uncommitted blocks are not copied.

The metadata associated with the base blob is copied to the snapshot.

**Specifying an Access Condition**

You can specify an access condition so that the snapshot is created only if a condition is met. To specify an access condition, use the `AccessCondition` property. If the specified condition is not met, the snapshot is not created, and the Blob service returns status code `HTTPStatusCode.PreconditionFailed`.

**Copying Snapshots**

When a base blob is copied, any snapshots of the base blob are not copied to the destination blob. When a destination blob is overwritten with a copy, any snapshots associated with the destination blob stay intact under its name.

You can copy a snapshot blob over its base blob to restore an earlier version of the blob. The snapshot remains, but the base blob is overwritten with a copy that can be both read and written.

**Note**

Promoting a snapshot in this way does not incur an additional charge for storage resources, since blocks or pages are shared between the snapshot and the base blob.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Working with Snapshots
CloudBlob.CreateSnapshot Method (BlobRequestOptions)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Creates a snapshot of the blob, using a conditional request based on the BlobRequestOptions that you specify.

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

**Visual Basic**

```vbnet
Dim instance As CloudBlob
Dim options As BlobRequestOptions
Dim returnValue As CloudBlob

returnValue = instance.CreateSnapshot(options)
```
## Syntax

### Visual Basic

Public Function CreateSnapshot ( _
    options As BlobRequestOptions _
) As CloudBlob

### C#

public CloudBlob CreateSnapshot (  
    BlobRequestOptions options  
)

### C++

public:
    CloudBlob^ CreateSnapshot (  
    BlobRequestOptions^ options  
)

### J#

JScript

### Parameters

- **options**  
  Type: [Microsoft.WindowsAzure.StorageClient.BlobRequestOptions](#)

  An object that specifies any additional options for the request.

### Return Value

- **Type**: [Microsoft.WindowsAzure.StorageClient.CloudBlob](#)
A blob snapshot.
C#

```csharp
static void CreateBlobSnapshot2(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Get a reference to a blob.
    CloudBlob blob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    // Set options for the request. E.g., Specify an operation timeout.
    BlobRequestOptions ssOptions = new BlobRequestOptions();
    ssOptions.Timeout = TimeSpan.FromSeconds(20.0);

    // Take a snapshot of the blob.
    CloudBlob snapshot = blob.CreateSnapshot(ssOptions);

    // Get the snapshot timestamp.
    DateTime timestamp = (DateTime)snapshot.Attributes.Snapshot;

    // Use the timestamp to get a second reference to the snapshot.
    CloudBlob snapshot2 = new CloudBlob("mycontainer/myblob.txt", timestamp, blobClient);

    // Write out the snapshot URI.
    Console.WriteLine(snapshot2.Uri);
}
```
**Remarks**

Snapshots provide read-only versions of blobs. Once a snapshot has been created, it can be read, copied, or deleted, but not modified.

A snapshot is itself a blob, and can be represented by a `CloudBlob` object or one of its derived objects.

When you create a snapshot, the blob's `Snapshot` property returns a `DateTime` value that uniquely identifies the snapshot relative to its base blob. You can use this value to perform further operations on the snapshot. Note that this `DateTime` value is opaque.

You can use a snapshot to restore a blob to an earlier version by copying over a base blob with its snapshot.

**Note**

You are charged for unique blocks or pages stored in association with a blob. Creating a snapshot does not incur an additional charge against your storage account for blocks or pages used, as the snapshot does not use additional storage resources but instead shares blocks or pages with the base blob, as long as they remain identical. As you add new blocks or pages to the base blob, you are charged for the storage capacity used by these new blocks or pages.

**Copying Blob Properties and Metadata**

When you create a snapshot of a blob, the following system properties are copied to the snapshot with the same values:

- `ContentType`
- `ContentEncoding`
- `ContentLanguage`
- `Length`
- `CacheControl`
The base blob's committed block list is also copied to the snapshot, if the blob is a block blob. Any uncommitted blocks are not copied.

The metadata associated with the base blob is copied to the snapshot.

**Specifying an Access Condition**

You can specify an access condition so that the snapshot is created only if a condition is met. To specify an access condition, use the `AccessCondition` property. If the specified condition is not met, the snapshot is not created, and the Blob service returns status code `HTTPStatusCode.PreconditionFailed`.

**Copying Snapshots**

When a base blob is copied, any snapshots of the base blob are not copied to the destination blob. When a destination blob is overwritten with a copy, any snapshots associated with the destination blob stay intact under its name.

You can copy a snapshot blob over its base blob to restore an earlier version of the blob. The snapshot remains, but the base blob is overwritten with a copy that can be both read and written.

**Note**

Promoting a snapshot in this way does not incur an additional charge for storage resources, since blocks or pages are shared between the snapshot and the base blob.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Working with Snapshots
CloudBlob.CreateSnapshot Method (NameValueCollection, BlobRequestOptions)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Creates a snapshot of the blob, adding metadata to it that you specify, and using a conditional request based on the BlobRequestOptions that you specify.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlob
Dim metadata As NameValueCollection
Dim options As BlobRequestOptions
Dim returnValue As CloudBlob

returnValue = instance.CreateSnapshot(metadata, options)
```
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
<th></th>
</tr>
</thead>
</table>
| `Public Function CreateSnapshot ( _
| metadata As `NameValueCollection`, _
| options As `BlobRequestOptions` _
| ) As `CloudBlob` |  |

<table>
<thead>
<tr>
<th>C#</th>
<th></th>
</tr>
</thead>
</table>
| `public CloudBlob CreateSnapshot ( 
| `NameValueCollection` metadata,
| `BlobRequestOptions` options
| )` |  |

<table>
<thead>
<tr>
<th>C++</th>
<th></th>
</tr>
</thead>
</table>
| `public: 
| `CloudBlob^` CreateSnapshot ( 
| `NameValueCollection^` metadata,
| `BlobRequestOptions^` options
| )` |  |

<table>
<thead>
<tr>
<th>J#</th>
<th></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
<th></th>
</tr>
</thead>
</table>

### Parameters

**metadata**

Metadata associated with the blob.

**options**

An object that specifies any additional options for the request.

**Return Value**


A blob snapshot.
Example

C#

```csharp
static void CreateBlobSnapshot3(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint,
             new StorageCredentialsAccountAndKey(accountName,
             accountKey));

    // Get a reference to a blob.
    CloudBlob blob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    // Set metadata values for the snapshot.
    NameValueCollection ssMData = new NameValueCollection(3);
    ssMData.Add("Member", "No");
    ssMData.Add("System", "Abstract");
    ssMData.Add("Status", "Published");

    // Set options for the request. E.g., Specify an operation timeout of 20 seconds.
    BlobRequestOptions ssOptions = new BlobRequestOptions();
    ssOptions.Timeout = TimeSpan.FromSeconds(20.0);

    // Take a snapshot of the blob.
    CloudBlob snapshot = blob.CreateSnapshot(ssMData, ssOptions);

    // Get the snapshot timestamp.
    DateTime timestamp = (DateTime)snapshot.Attributes.Snapshot;

    // Use the timestamp to get a second reference to the snapshot.
    CloudBlob snapshot2 = new CloudBlob("mycontainer/myblob.txt", timestamp, blobClient);

    // Write out the snapshot URI.
    Console.WriteLine(snapshot2.Uri);
}
```
Remarks

The *metadata* parameter specifies a name-value pair associated with the blob. The snapshot is created with the specified metadata, and the base blob’s metadata is not copied.

Snapshots provide read-only versions of blobs. Once a snapshot has been created, it can be read, copied, or deleted, but not modified.

A snapshot is itself a blob, and can be represented by a `CloudBlob` object or one of its derived objects.

When you create a snapshot, the blob's `Snapshot` property returns a `DateTime` value that uniquely identifies the snapshot relative to its base blob. You can use this value to perform further operations on the snapshot. Note that this `DateTime` value is opaque.

You can use a snapshot to restore a blob to an earlier version by copying over a base blob with its snapshot.

Note

You are charged for unique blocks or pages stored in association with a blob. Creating a snapshot does not incur an additional charge against your storage account for blocks or pages used, as the snapshot does not use additional storag resources but instead shares blocks or pages with the base blob, as long as they remain identical. As you add new blocks or pages to the base blob, you are charged for the storage capacity used by these new blocks or pages.

Copying Blob Properties and Metadata

When you create a snapshot of a blob, the following system properties are copied to the snapshot with the same values:

- `ContentType`
- `ContentEncoding`
- `ContentLanguage`
- **Length**
- **CacheControl**
- **ContentMd5**

The base blob's committed block list is also copied to the snapshot, if the blob is a block blob. Any uncommitted blocks are not copied.

The metadata associated with the base blob is copied to the snapshot.

**Specifying an Access Condition**

You can specify an access condition so that the snapshot is created only if a condition is met. To specify an access condition, use the `AccessCondition` property. If the specified condition is not met, the snapshot is not created, and the Blob service returns status code `HTTPStatusCode.PreconditionFailed`.

**Copying Snapshots**

When a base blob is copied, any snapshots of the base blob are not copied to the destination blob. When a destination blob is overwritten with a copy, any snapshots associated with the destination blob stay intact under its name.

You can copy a snapshot blob over its base blob to restore an earlier version of the blob. The snapshot remains, but the base blob is overwritten with a copy that can be both read and written.

**Note**
Promoting a snapshot in this way does not incur an additional charge for storage resources, since blocks or pages are shared between the snapshot and the base blob.
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.Delete Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CloudBlob.Delete ()</td>
<td>Deletes the blob.</td>
</tr>
<tr>
<td>CloudBlob.Delete (BlobRequestOptions)</td>
<td>Deletes the blob, using a conditional request based on the BlobRequestOptions that you specify.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.Delete Method ()

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Deletes the blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlob
instance.Delete
```
<table>
<thead>
<tr>
<th><strong>Syntax</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Public Sub Delete</td>
</tr>
<tr>
<td><strong>C#</strong></td>
</tr>
<tr>
<td>public void Delete ()</td>
</tr>
<tr>
<td><strong>C++</strong></td>
</tr>
<tr>
<td>public: void Delete ()</td>
</tr>
<tr>
<td><strong>J#</strong></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
</tr>
</tbody>
</table>
The following code example enumerates through the blobs in a container and deletes each blob.

**Example**

C#  

```csharp
static void DeleteBlobsAndSnapshots1(Uri blobEndpoint,
    string accountName,
    string accountKey)
{
    CloudBlobClient blobClient = new CloudBlobClient(
        new StorageCredentialsAccountAndKey(accountName,
            accountKey));

    // Get a reference to the container object.
    CloudBlobContainer container = blobClient.GetContainerReference("mycontainer");

    // Since the Delete method exists only on CloudBlob
    // specify the Flat Blob Listing option, to ensure
    BlobRequestOptions options = new BlobRequestOptions();
    options.UseFlatBlobListing = true;

    // Delete each Blob in the container.
    foreach (CloudBlob blob in container.ListBlobs(options))
    {
        Console.WriteLine(blob.Uri);
        blob.Delete();
    }
}
```
Remarks

A blob that has snapshots cannot be deleted unless the snapshots are also deleted. If a blob has snapshots, specify the `options` parameter, setting the `DeleteSnapshotsOption` property to specify how the snapshots should be handled when the blob is deleted. If you attempt to delete a blob without also deleting its snapshots, this method will fail with `HTTPStatusCode.Conflict`.

The **Delete** method will fail if the blob does not exist. To delete the blob only if it exists, use the `DeleteIfExists` method.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
Deletes the blob, using a conditional request based on the BlobRequestOptions that you specify.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlob
Dim options As BlobRequestOptions

instance.Delete(options)
```
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Public Sub Delete ( _
| _
| options As BlobRequestOptions _
| ) |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
</table>
| public void Delete ( _
| BlobRequestOptions options _
| ) |

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| public:
| void Delete ( _
| BlobRequestOptions^ options _
| ) |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>

### Parameters

- **options**
  - An object that specifies any additional options for the request.
Example

The following code example enumerates through the blobs in a container and deletes each blob and its snapshots.

```csharp
static void DeleteBlobsAndSnapshots2(Uri blobEndpoint, string accountName, string accountKey)
{
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Get a reference to the container.
    CloudBlobContainer container = blobClient.GetContainerReference("mycontainer");

    // Indicate that any snapshots should be deleted.
    BlobRequestOptions options = new BlobRequestOptions();
    options.DeleteSnapshotsOption = DeleteSnapshotsOption.IncludeSnapshots;

    // Specify a flat blob listing, so that only CloudBlob objects will be returned.
    // The Delete method exists only on CloudBlob, not on IListBlobItem.
    options.UseFlatBlobListing = true;

    // Enumerate through the blobs in the container, deleting both blobs and their snapshots.
    foreach (CloudBlob blob in container.ListBlobs(options))
    {
        Console.WriteLine(blob.Uri);
        blob.Delete(options);
    }
}
```
Remarks

A blob that has snapshots cannot be deleted unless the snapshots are also deleted. If a blob has snapshots, use the `DeleteSnapshotsOption` property to specify how the snapshots should be handled when the blob is deleted.

The **Delete** method will fail if the blob does not exist. To delete the blob only if it exists, use the `DeleteIfExists` method.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Working with Snapshots
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudBlob.DeleteIfExists()</code></td>
<td>Deletes the blob if it exists.</td>
</tr>
<tr>
<td><code>CloudBlob.DeleteIfExists(BlobRequestOptions)</code></td>
<td>Deletes the blob if it exists, using a conditional request based on the <a href="#">BlobRequestOptions</a> that you specify.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Working with Snapshots
CloudBlob.DeleteIfExists Method ()

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Deletes the blob if it exists.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudBlob
Dim returnValue As Boolean

returnValue = instance.DeleteIfExists
```
## Syntax

**Visual Basic**

Public Function DeleteIfExists As Boolean

**C#**

public bool DeleteIfExists ()

**C++**

public:  
bool DeleteIfExists ()

**J#**

**JScript**

**Return Value**

Type: [System.Boolean]

true if the blob was deleted; otherwise, false.
Example

The following code example deletes a blob if it already exists.

```csharp
static void UploadTextToBlob1(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create a service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));
    // Return a reference to the blob.
    CloudBlob blob = blobClient.GetBlobReference("mycontainer/myblob.txt");
    // Delete the blob if it already exists
    blob.DeleteIfExists();
}
```
Remarks

A blob that has snapshots cannot be deleted unless the snapshots are also deleted. If a blob has snapshots, use the `DeleteSnapshotsOption` property to specify how the snapshots should be handled when the blob is deleted.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Working with Snapshots
Deletes the blob if it exists, using a conditional request based on the `BlobRequestOptions` that you specify.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlob
Dim options As BlobRequestOptions
Dim returnValue As Boolean

returnValue = instance.DeleteIfExists(options)
```
## Syntax

### Visual Basic

```vbnet
Public Function DeleteIfExists ( _
    options As BlobRequestOptions _
) As Boolean
```

### C#

```csharp
public bool DeleteIfExists (  
    BlobRequestOptions options
)
```

### C++

```cpp
public:
bool DeleteIfExists (  
    BlobRequestOptions^ options
)
```

### J#

```

### JScript

```

## Parameters

- **options**
  - Type: `Microsoft.WindowsAzure.StorageClient.BlobRequestOptions`

  An object that specifies any additional options for the request.

## Return Value

- Type: `System.Boolean`
true if the blob was deleted; otherwise, false.
The following code example deletes a blob if it already exists.

C# static void UploadTextToBlob2(Uri blobEndpoint, string accountName, string accountKey) {
    // Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Return a reference to the blob.
    CloudBlob blob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    // Delete the blob if it already exists, also deleting any snapshots.
    BlobRequestOptions options = new BlobRequestOptions();
    options.DeleteSnapshotsOption = DeleteSnapshotsOption.IncludeSnapshots;
    blob.DeleteIfExists(options);
}
Remarks

A blob that has snapshots cannot be deleted unless the snapshots are also deleted. If a blob has snapshots, use the `DeleteSnapshotsOption` property to specify how the snapshots should be handled when the blob is deleted.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Working with Snapshots
CloudBlob.DownloadByteArray Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Downloads the blob's contents as an array of bytes.
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudBlob.DownloadByteArray ()</code></td>
<td>Downloads the blob’s contents as an array of bytes.</td>
</tr>
<tr>
<td><code>CloudBlob.DownloadByteArray(BlobRequestOptions)</code></td>
<td>Downloads the blob's contents as an array of bytes, using a conditional request based on the <code>BlobRequestOptions</code> that you specify.</td>
</tr>
</tbody>
</table>
**See Also**

**Reference**
- CloudBlob Class
- CloudBlob Members
- Microsoft.WindowsAzure.StorageClient Namespace

**Other Resources**
- Setting Timeouts for Blob Service Operations
CloudBlob.DownloadByteArray Method ()

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Downloads the blob's contents as an array of bytes.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlob
Dim returnValue As Byte()

returnValue = instance.DownloadByteArray
```
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Function DownloadByteArray As <strong>Byte</strong>()</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public <strong>byte</strong>[] DownloadByteArray ()</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: array&lt;<strong>unsigned char</strong>&gt;^ DownloadByteArray ()</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>

### Return Value

The contents of the blob, as an array of bytes.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Setting Timeouts for Blob Service Operations
Downloads the blob's contents as an array of bytes, using a conditional request based on the `BlobRequestOptions` that you specify.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlob
Dim options As BlobRequestOptions
Dim returnValue As Byte()

returnValue = instance.DownloadByteArray(options)
```
## Syntax

**Visual Basic**

```
Public Function DownloadByteArray ( _
    options As BlobRequestOptions _
) As Byte()
```

**C#**

```
public byte[] DownloadByteArray (  
    BlobRequestOptions options
)
```

**C++**

```
public:
array<unsigned char>^ DownloadByteArray (  
    BlobRequestOptions^ options
)
```

**J#**

```
```

**JScript**

```
```

## Parameters

- **options**
  - Type: [Microsoft.WindowsAzure.StorageClient.BlobRequestOptions](#)
  - An object that specifies any additional options for the request.

## Return Value

- The contents of the blob, as an array of bytes.
> Thread Safety

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Setting Timeouts for Blob Service Operations
This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.
## Overload List

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CloudBlob Class
CloudBlob Members
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Other Resources
Setting Timeouts for Blob Service Operations
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Downloads the blob's contents.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudBlob
Dim returnValue As String

returnValue = instance.DownloadText
```
## Syntax

### Visual Basic

Public Function DownloadText As String

### C#

public string DownloadText ()

### C++

public: String DownloadText ()

### J#

### JScript

### Return Value

Type: System.String

The contents of the blob, as a string.
Example

The following code example downloads the contents of a publicly available blob using an anonymous client.

```csharp
static void CreateAnonymousClient(String blobEndpoint)
{
    // Create service client for anonymous access to the Blob service.
    CloudBlobClient publicClient = new CloudBlobClient(blobEndpoint);

    // Get a reference to a blob in a public container.
    CloudBlob publicBlob = publicClient.GetBlobReference("mypubliccontainer/publicBlob.txt");

    // Attempt to download the blob's contents.
    try
    {
        Console.WriteLine(publicBlob.DownloadText());
    }
    catch (StorageClientException e)
    {
        Console.WriteLine("Error code: ", e.ErrorCode);
        Console.WriteLine("Error message: ", e.Message);
    }
}
```
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

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See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Setting Timeouts for Blob Service Operations
Downloads the blob's contents, using a conditional request based on the `BlobRequestOptions` that you specify.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
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</table>

Dim instance As **CloudBlob**  
Dim options As **BlobRequestOptions**  
Dim returnValue As **String**  

returnValue = instance.DownloadText(options)
## Syntax

### Visual Basic

```vbnet
Public Function DownloadText ( _
    options As BlobRequestOptions _
) As String
```

### C#

```csharp
public string DownloadText (  
    BlobRequestOptions options
)
```

### C++

```cpp
public:  
String^ DownloadText (  
    BlobRequestOptions^ options
)
```

### J#

```
```

### JScript

```
```

## Parameters

- **options**
  - Type: `Microsoft.WindowsAzure.StorageClient.BlobRequestOptions`
  
  An object that specifies any additional options for the request.

## Return Value

- Type: `System.String`
The contents of the blob, as a string.
The following code example downloads the contents of a publicly available blob using an anonymous client.

```csharp
static void CreateAnonymousClient2(String blobEndpoint)
{
    // Create a service client for anonymous access to the Blob service.
    CloudBlobClient publicClient = new CloudBlobClient(blobEndpoint);

    // Get a reference to a blob in a public container.
    CloudBlob publicBlob = publicClient.GetBlobReference("mypubliccontainer/publicBlob.txt");

    // Set options for the request. E.g., Specify an operation timeout.
    BlobRequestOptions options = new BlobRequestOptions();
    options.Timeout = TimeSpan.FromSeconds(20.0);

    // Attempt to download the blob's contents.
    try
    {
        Console.WriteLine(publicBlob.DownloadText(options));
    }
    catch (StorageClientException e)
    {
        Console.WriteLine("Error code: ", e.ErrorCode);
        Console.WriteLine("Error message: ", e.Message);
    }
}
```
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Setting Timeouts for Blob Service Operations
### CloudBlob.DownloadToFile Method

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.]
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<td>Downloads the blob's contents to a file, using a conditional request based on the <code>BlobRequestOptions</code> that you specify.</td>
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</table>
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Setting Timeouts for Blob Service Operations
Downloads the blob's contents to a file.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As **CloudBlob**  
Dim fileName As **String**

instance.DownloadToFile(fileName)
## Syntax

### Visual Basic

```
Public Sub DownloadToFile (_
    fileName As String _
)
```

### C#

```
public void DownloadToFile (
    string fileName
)
```

### C++

```
public:
    void DownloadToFile (
        String^ fileName
    )
```

### J#

```
```

### JScript

```
```

### Parameters

**fileName**

Type: `System.String`

The path and file name of the target file.
Example

The following code example downloads a blob to a local file.

```csharp
static void DownloadBlobToFile(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Return a reference to the blob.
    CloudBlob blob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    // Download the blob to a local file.
    blob.DownloadToFile("c:\mylocalblob.txt");
}
```
Remarks

This method downloads a blob to a file in the local file system. If the file does not exist, it is created; if it does exist, it is overwritten.

Warning

If you download a blob to an existing file and the size of the blob is less than the size of the file, the file will not be completely overwritten and data corruption may occur. This is a known bug in the client library. It's recommended that you delete the existing file on disk before downloading the blob.
- **Thread Safety**
  
  Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
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See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Setting Timeouts for Blob Service Operations
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Downloads the blob's contents to a file, using a conditional request based on the BlobRequestOptions that you specify.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As CloudBlob
Dim fileName As String
Dim options As BlobRequestOptions

instance.DownloadToFile(fileName, options)
```
## Syntax

### Visual Basic

```vbnet
Public Sub DownloadToFile ( _
    fileName As String, _
    options As BlobRequestOptions _
)
```

### C#

```csharp
public void DownloadToFile ( 
    string fileName, 
    BlobRequestOptions options
)
```

### C++

```cpp
public:
    void DownloadToFile ( 
    String ^ fileName, 
    BlobRequestOptions ^ options
)
```

### J#

```jsharp```

### JScript

```javascript```

## Parameters

**fileName**

Type: `System.String`

The path and file name of the target file.
**options**
Type: **Microsoft.WindowsAzure.StorageClient.BlobRequestOptions**

An object that specifies any additional options for the request.
The following code example downloads a blob to a local file only if the blob has been modified since January 1, 2012.

```csharp
static void DownloadBlobToFile(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Return a reference to the blob.
    CloudBlob blob = blobClient.GetBlobReference("mycontainer/myblob");

    // Download the blob to a local file only if it has been modified since a fixed date.
    DateTime dt = new DateTime(2012, 1, 1, 0, 0, 0, DateTimeKind.Utc);
    try
    {
        blob.DownloadToFile("c:\temp\mylocalblob.txt",
            new BlobRequestOptions()
                { AccessCondition = AccessCondition.IfModifiedSince(dt.ToUniversalTime()) });
    }
    catch (StorageClientException e)
    {
            Console.WriteLine("The blob was not modified since January 1, 2012.");
        else
            throw e; // some other StorageClientException
    }
}
Remarks

This method downloads a blob to a file in the local file system. If the file does not exist, it is created; if it does exist, it is overwritten.

Warning

If you download a blob to an existing file and the size of the blob is less than the size of the file, the file will not be completely overwritten and data corruption may occur. This is a known bug in the client library. It's recommended that you delete the existing file on disk before downloading the blob.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
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Reference
CloudBlob Class
CloudBlob Members
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Other Resources
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CloudBlob.DownloadToStream Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<td><code>CloudBlob.DownloadToStream(Stream)</code></td>
<td>Downloads the contents of a blob to a stream</td>
</tr>
<tr>
<td><code>CloudBlob.DownloadToStream(Stream, BlobRequestOptions)</code></td>
<td>Downloads the contents of a blob to a stream using a conditional request based on the <code>BlobRequestOptions</code> that you specify.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Setting Timeouts for Blob Service Operations
Downloads the contents of a blob to a stream.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
<table>
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<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>

```vbnet
Dim instance As CloudBlob
Dim target As Stream

instance.DownloadToStream(target)
```
## Syntax

### Visual Basic

```
Public Sub DownloadToStream ( _
    target As Stream _
)
```

### C#

```
public void DownloadToStream ( 
    Stream target
)
```

### C++

```
public:
void DownloadToStream ( 
    Stream^ target
)
```

### J#

```
```

### JScript

```
```

## Parameters

**target**

Type: System.IO.Stream

The target stream.
**Example**

The following code example appends the contents of a text blob to a local text file.

```csharp
static void AppendTextBlobToFile(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Get a reference to a blob.
    CloudBlob blob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    // Download the blob to a file stream.
    FileStream stream = new FileStream("C:\\appendtofile.txt", FileMode.Append);
    blob.DownloadToStream(stream);
}
```
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
 Platforms

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See Also

Reference
CloudBlob Class
CloudBlob Members
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Other Resources
Setting Timeouts for Blob Service Operations
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Downloads the contents of a blob to a stream, using a conditional request based on the BlobRequestOptions that you specify.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As CloudBlob
Dim target As Stream
Dim options As BlobRequestOptions

instance.DownloadToStream(target, options)
```
## Syntax

### Visual Basic

```vbnet
Public Sub DownloadToStream (  
    target As Stream, _
    options As BlobRequestOptions _
)
```

### C#

```csharp
public void DownloadToStream (  
    Stream target,  
    BlobRequestOptions options
)
```

### C++

```cpp
public:
    void DownloadToStream (  
        Stream^ target,  
        BlobRequestOptions^ options
    )
```

### J#

```
```

### JScript

```
```

## Parameters

**target**

Type: `System.IO.Stream`

The target stream.
**options**


An object that specifies any additional options for the request.
The following code example appends the contents of a text blob to a local text file—and specifies a 20 second timeout on the operation.

```csharp
static void AppendTextBlobToFile2(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Get a reference to a blob.
    CloudBlob blob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    // Set options for the request. E.g., Specify an operation timeout.
    BlobRequestOptions options = new BlobRequestOptions();
    options.Timeout = TimeSpan.FromSeconds(20.0);

    // Download the blob to a file stream.
    FileStream stream = new FileStream("C:\appendtoblock.txt", FileMode.Append);
    blob.DownloadToStream(stream, options);
}
```
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

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See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Setting Timeouts for Blob Service Operations
**CloudBlob.EndCopyFromBlob Method**

**See Also**  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to copy a blob's contents, properties, and metadata to a new blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlob
Dim asyncResult As IAsyncResult

instance.EndCopyFromBlob(asyncResult)
```
## Syntax

### Visual Basic

```vbnet
Public Sub EndCopyFromBlob ( _
    asyncResult As IAsyncResult _
)
```

### C#

```csharp
public void EndCopyFromBlob (
    IAsyncResult asyncResult
)
```

### C++

```cpp
public:
void EndCopyFromBlob ( 
    IAsyncResult^ asyncResult 
)
```

### J#

```
```

### JScript

```
```

## Parameters

- **asyncResult**
  - Type: `System.IAsyncResult`

  An `IAsyncResult` that references the pending asynchronous operation.
**Example**

The following code example copies a blob only if an access condition on the source blob is met.

```csharp
static void CopyBlobConditionallyAsync(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, accountName, accountKey);

    // Create a new blob by uploading a file.
    CloudBlob sourceBlob = blobClient.GetBlobReference("mycontainer/sourceblob.txt");
    sourceBlob.UploadFile("C:\somefile.txt");

    // Get a reference to the destination blob.
    CloudBlob destBlob = blobClient.GetBlobReference("mycontainer/destblob.txt");

    // Establish an access condition, so that the blob 
    // has not been changed in the past hour.
    BlobRequestOptions options = new BlobRequestOptions();
    options.CopySourceAccessCondition = AccessCondition.IfNotModifiedSince(DateTime.Now.AddHours(-1));

    destBlob.BeginCopyFromBlob(sourceBlob, options, CopyBlobCallback, destBlob);
}

static void CopyBlobCallback(IAsyncResult result)
{
    CloudBlob blobDest = (CloudBlob)result.AsyncState;

    // End the operation, checking for the exception that indicates the condition was not met.
    try
    {
        blobDest.EndCopyFromBlob(result);
    }
    catch (StorageClientException e)
```
if (e.StatusCode == HttpStatusCode.PreconditionFailed) {
    Console.WriteLine("Access condition on source blob not met for blob copy operation.");
} else {
    Console.WriteLine("Error code: " + e.ErrorCode);
}
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
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See Also

Reference

CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.EndCreateSnapshot Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to create a snapshot of the blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim instance As CloudBlob
Dim asyncResult As IAsyncResult
Dim returnValue As CloudBlob

returnValue = instance.EndCreateSnapshot(asyncResult)
```
### Syntax

#### Visual Basic

```vbnet
Public Function EndCreateSnapshot ( _
    asyncResult As IAsyncResult _
) As CloudBlob
```

#### C#

```csharp
public CloudBlob EndCreateSnapshot (IAsyncResult asyncResult)
```

#### C++

```cpp
public: 
CloudBlob^ EndCreateSnapshot (IAsyncResult^ asyncResult)
```

#### J#

```jsharp```

#### JScript

```
```

### Parameters

- **asyncResult**
  
  Type: `System.IAsyncResult`

  An `IAsyncResult` that references the pending asynchronous operation.

### Return Value

Type: `Microsoft.WindowsAzure.StorageClient.CloudBlob`
A blob snapshot.
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources

Working with Snapshots
CloudBlob.EndDelete Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to delete the blob.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlob
Dim asyncResult As IAsyncResult

instance.EndDelete(asyncResult)
```
### Syntax

#### Visual Basic

```vbnet
Public Sub EndDelete ( _
         asyncResult As IAsyncResult _
)
```

#### C#

```csharp
public void EndDelete (  
         IAsyncResult asyncResult
)
```

#### C++

```cpp
public:
void EndDelete (  
         IAsyncResult^ asyncResult
)
```

#### J#

```jscript
```

#### JScript

```jscript
```

### Parameters

**asyncResult**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the pending asynchronous operation.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to delete the blob if it exists.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudBlob
Dim asyncResult As IAsyncResult
Dim returnValue As Boolean

returnValue = instance.EndDeleteIfExists(asyncResult)
## Syntax

### Visual Basic

```vbnet
Public Function EndDeleteIfExists ( _
    asyncResult As IAsyncResult _
) As Boolean
```

### C#

```csharp
public bool EndDeleteIfExists ( 
    IAsyncResult asyncResult
)
```

### C++

```cpp
public:
    bool EndDeleteIfExists ( 
        IAsyncResult^ asyncResult
    )
```

### J#

```jsharp```

### JScript

```jscript```

## Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>asyncResult</td>
<td><code>System.IAsyncResult</code></td>
<td>An <code>IAsyncResult</code> that references the pending asynchronous operation.</td>
</tr>
</tbody>
</table>

## Return Value

Type: `System.Boolean`
true if the blob was successfully deleted; otherwise, false.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.EndDownloadToStream Method

See Also Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to download the contents of a blob to a stream.

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

**Visual Basic**

```vbnet
Dim instance As CloudBlob
Dim asyncResult As IAsyncResult

instance.EndDownloadToStream(asyncResult)
```
## Syntax

### Visual Basic

```vbnet
Public Sub EndDownloadToStream (_
    asyncResult As IAsyncResult _
)
```

### C#

```csharp
public void EndDownloadToStream (IAsyncResult asyncResult)
```

### C++

```cpp
public:
    void EndDownloadToStream (IAsyncResult^ asyncResult)
```

### J#

### JScript

### Parameters

**asyncResult**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the pending asynchronous operation.
Example

The following code example downloads a text blob to a file stream in order to append it to a text file.

```csharp
static void DownloadBlobToStreamAsync(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Get a reference to a blob.
    CloudBlob blob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    // Download the blob to a file stream.
    FileStream stream = new FileStream("C:\appendtofile.txt", FileMode.Append);
    blob.BeginDownloadToStream(stream, DownloadBlobToStreamCallback, blob);
}

static void DownloadBlobToStreamCallback(IAsyncResult result)
{
    CloudBlob blob = (CloudBlob)result.AsyncState;

    // End the operation.
    blob.EndDownloadToStream(result);
}
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

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See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Setting Timeouts for Blob Service Operations
CloudBlob.EndFetchAttributes Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to populate the blob's properties and metadata.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlob
Dim asyncResult As IAsyncResult

instance.EndFetchAttributes(asyncResult)
```
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Public Sub EndFetchAttributes ( _
|     asyncResult As IAsyncResult _
| )                                               |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public void EndFetchAttributes (</td>
</tr>
<tr>
<td>IAsyncResult asyncResult</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public:</td>
</tr>
<tr>
<td>void EndFetchAttributes (</td>
</tr>
<tr>
<td>IAsyncResult^ asyncResult</td>
</tr>
<tr>
<td>)</td>
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<tr>
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</thead>
</table>

**Parameters**

`asyncResult`  
Type: `System.IAsyncResult`  
An `IAsyncResult` that references the pending asynchronous operation.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to update the blob's metadata.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```
Dim instance As CloudBlob
Dim asyncResult As IAsyncResult

instance.EndSetMetadata(asyncResult)
```
### Syntax

#### Visual Basic

Public Sub EndSetMetadata ( _
    asyncResult As IAsyncResult _
)

#### C#

public void EndSetMetadata (  
    IAsyncResult asyncResult
)

#### C++

public:
void EndSetMetadata (  
    IAsyncResult^ asyncResult
)

#### J#

#### JScript

### Parameters

**asyncResult**

Type: [System.IAsyncResult](https://docs.microsoft.com/en-us/dotnet/api/system.iasyncresult)

An [IAsyncResult](https://docs.microsoft.com/en-us/dotnet/api/system.iasyncresult) that references the pending asynchronous operation.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.EndSetProperties Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to update the blob's properties.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudBlob
Dim asyncResult As IAsyncResult

instance.EndSetProperties(asyncResult)
```
### Syntax

**Visual Basic**

```vbnet
Public Sub EndSetProperties (_
    asyncResult As IAsyncResult _
)
```

**C#**

```csharp
public void EndSetProperties (
    IAsyncResult asyncResult
)
```

**C++**

```cpp
public:
void EndSetProperties (
    IAsyncResult^ asyncResult
)
```

**J#**

```jsharp

```

**JScript**

```javascript

```

### Parameters

**asyncResult**

*Type: System.IAsyncResult*

An `IAsyncResult` that references the pending asynchronous operation.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
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<th>CloudBlob.EndUploadFromStream Method</th>
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[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.]

Ends an asynchronous operation to upload a blob from a stream.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

### Visual Basic

```vbnet
Dim instance As CloudBlob
Dim asyncResult As IAsyncResult

instance.EndUploadFromStream(asyncResult)
```
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Overridable Sub EndUploadFromStream ( asyncResult As IAsyncResult _ )</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>public virtual void EndUploadFromStream ( IAsyncResult asyncResult )</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>public: virtual void EndUploadFromStream ( IAsyncResult^ asyncResult )</td>
<td></td>
</tr>
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</table>

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Parameters

- **asyncResult**
  - Type: **System.IAsyncResult**

  An **IAsyncResult** that references the pending asynchronous operation.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.FetchAttributes Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

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<tr>
<th>Name</th>
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<tr>
<td><strong>CloudBlob.FetchAttributes()</strong></td>
<td>Populates a blob's properties and metadata.</td>
</tr>
<tr>
<td><strong>CloudBlob.FetchAttributes(BlobRequestOptions)</strong></td>
<td>Populates a blob's properties and metadata, using a conditional request based on the <strong>BlobRequestOptions</strong> that you specify.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Setting and Retrieving Properties and Metadata
CloudBlob.FetchAttributes Method ()

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Populates a blob's properties and metadata.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudBlob
instance.FetchAttributes
```
## Syntax

### Visual Basic

```vbnet
Public Sub FetchAttributes
```

### C#

```csharp
public void FetchAttributes()
```

### C++

```cpp
public:
void FetchAttributes()
```

### J#

```cs
```

### JScript

```js
```
The following code example lists blob properties and metadata.

```csharp
static void ListBlobPropertiesAndMetadata(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Get a reference to a blob.
    CloudBlob blob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    // Populate the blob's attributes.
    blob.FetchAttributes();

    // List some blob properties.
    Console.WriteLine("Blob: " + blob.Attributes.Uri);
    Console.WriteLine();
    Console.WriteLine("Blob properties:");
    Console.WriteLine("\tBlobType: " + blob.Attributes.Properties.BlobType);
    Console.WriteLine("\tLastModifiedUTC: " + blob.Attributes.Properties.LastModifiedUtc);
    Console.WriteLine("\tETag: " + blob.Attributes.Properties.ETag);
    Console.WriteLine();

    // Enumerate the blob's metadata.
    foreach (var metadataKey in blob.Metadata.Keys)
    {
    }
}
```
Remarks

The **FetchAttributes** method populates the blob's system properties and user-defined metadata. Before reading a blob's properties or metadata, you should always call this method or the **BeginFetchAttributes** method to retrieve the latest values for the blob's properties and metadata from the service.

In the event of an error, this method will raise a **StorageClientException**.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Setting and Retrieving Properties and Metadata
Populates a blob's properties and metadata, using a conditional request based on the `BlobRequestOptions` that you specify.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As CloudBlob
Dim options As BlobRequestOptions

instance.FetchAttributes(options)
```
### Syntax

#### Visual Basic

```vbnet
Public Sub FetchAttributes ( _
    options As BlobRequestOptions _
)
```

#### C#

```csharp
public void FetchAttributes (  
    BlobRequestOptions options  
)
```

#### C++

```cpp
public:
void FetchAttributes (  
    BlobRequestOptions^ options  
)
```

#### J#

```jsharp
```

#### JScript

```
```

### Parameters

**options**


An object that specifies any additional options for the request.
Example

The following code example lists blob properties and metadata—and specifies a 20 second timeout on the operation.

C#

```csharp
static void ListBlobPropertiesAndMetadata2(Uri blobEndpoint, string accountName, string accountKey) {
    // Create service client for credentialed access.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Get a reference to a blob.
    CloudBlob blob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    // Set options for the request. E.g., Specify an operation timeout of 20 seconds.
    BlobRequestOptions options = new BlobRequestOptions();
    options.Timeout = TimeSpan.FromSeconds(20.0);

    // Populate the blob's attributes.
    blob.FetchAttributes(options);

    // List some blob properties.
    Console.WriteLine("Blob: " + blob.Attributes.Uri);
    Console.WriteLine();
    Console.WriteLine("Blob properties:");
    Console.WriteLine("\tBlobType: " + blob.Attributes.Properties.BlobType);
    Console.WriteLine("\tLastModifiedUTC: " + blob.Attributes.Properties.LastModifiedUtc);
    Console.WriteLine("\tETag: " + blob.Attributes.Properties.ETag);
    Console.WriteLine();

    // Enumerate the blob's metadata.
    foreach (var metadataKey in blob.Metadata.Keys) {
        Console.WriteLine("Metadata name: " + metadataKey.ToString());
    }
}
```
Remarks

The `FetchAttributes` method populates the blob's system properties and user-defined metadata. Before reading a blob's properties or metadata, you should always call this method or the `BeginFetchAttributes` method to retrieve the latest values for the blob's properties and metadata from the service.

In the event of an error, this method will raise a `StorageClientException`. 
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Setting and Retrieving Properties and Metadata
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

**Managing Access to Blobs and Containers**
## Overload List

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<th>Name</th>
<th>Description</th>
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<td>CloudBlob.GetSharedAccessSignature (SharedAccessPolicy)</td>
<td>Returns a shared access signature for the blob.</td>
</tr>
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<td>CloudBlob.GetSharedAccessSignature (SharedAccessPolicy, String)</td>
<td>Returns a shared access signature for the blob, with the specified container-level access policy.</td>
</tr>
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</table>
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Managing Access to Blobs and Containers
Managing Access to Blobs and Containers
CloudBlob.GetSharedAccessSignature Method (SharedAccessPolicy)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a shared access signature for the blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
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<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>

```vbnet
Dim instance As CloudBlob
Dim policy As SharedAccessPolicy
Dim returnValue As String

returnValue = instance.GetSharedAccessSignature(policy)
```
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| `Public Function GetSharedAccessSignature ( _
  policy As SharedAccessPolicy _
) As String` |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
</table>
| `public string GetSharedAccessSignature ( 
  SharedAccessPolicy policy` |

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| `public: 
String^ GetSharedAccessSignature ( 
  SharedAccessPolicy^ policy` |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
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<tbody>
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<table>
<thead>
<tr>
<th>JScript</th>
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<td></td>
</tr>
</tbody>
</table>

**Parameters**

`policy`

Type: [Microsoft.WindowsAzure.StorageClient.SharedAccessPolicy](#)

The access policy for the shared access signature.

**Return Value**

Type: [System.String](#)
A shared access signature.
Example

The following code example creates a shared access signature for a blob. It then uses the signature to create a service client based on the shared access credentials, and uses the client to perform a write operation and a read operation against the blob.

```csharp
static void WriteToBlobViaSAS(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    CloudBlob blob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    // Upload text to the blob, which will create it if it does not already exist.
    blob.UploadText("a text blob");

    // Create a shared access signature to use for delegated access
    // Specify an access policy which indicates the start time, expiry time, and permissions granted for the signature.
    string signature = blob.GetSharedAccessSignature(new SharedAccessPolicy()
    {
        // If valid immediately, don’t set SharedAccessStartTime,
        // And use a duration below 1 hour
        // to avoid clock skew risk.
        // SharedAccessStartTime = DateTime.Now,
        // Specify the expiration time for the signature.
        SharedAccessExpiryTime = DateTime.Now.AddMinutes(55),
        // Specify the permissions granted by the signature.
        Permissions = SharedAccessPermissions.Write | SharedAccessPermissions.Read
    });

    // Get a reference to the blob using the shared access signature
    CloudBlob blobSAS = new CloudBlob("http://storagesample.blob.core.windows.net/mycontainer/myblob.txt",
        blobClient.GetCloudBlobReferenceFromSASToken(signature));
}
```
new StorageCredentialsSharedAccessSignature(s);

    // Update the contents of the blob, then read them.
    blobSAS.UploadText("a text blob updated using a shared access signature");
    Console.WriteLine(blobSAS.DownloadText());
}
## Exceptions

<table>
<thead>
<tr>
<th>Exception type</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidOperationException</td>
<td>Thrown if the current credentials don't support creating a shared access signature.</td>
</tr>
<tr>
<td>NotSupportedException</td>
<td>Thrown if blob is a snapshot.</td>
</tr>
</tbody>
</table>
Remarks

A shared access signature is a token that provides delegated access to blob resources. You can provide this token to clients in order to grant them specific permissions to resources for a controlled period of time. A shared access signature created for a blob resource can grant access just to the content and metadata of that blob.

A shared access signature created for a container resource can grant access to the content and metadata of any blob in the container, and to the list of blobs in the container. To create a shared access signature for a container, see the `GetSharedAccessSignature` method of the `CloudBlobContainer` object.

The parameters of the shared access signature that govern access are:

- The start time at which the signature becomes valid.
- The time at which it expires.
- The permissions that it grants.

These parameters are specified in an access policy, represented by the `SharedAccessPolicy` class. There are three ways to specify an access policy:

- You can specify it on a single shared access signature. In this case, the interval over which the signature may be valid is limited to one hour.

- You can specify it by creating a container-level access policy, which can be associated with one or more shared access signatures. This approach has the advantage of making it possible to revoke a shared access signature, if it should be compromised. To specify that the access policy should be used by the signature, call the overload that includes the `groupPolicyIdentifier` parameter.

- You can also specify some parameters of the access policy on the signature and some on a container-level access policy. Note that you cannot specify the same parameter in both places; doing so results in an error.
Note that when you regenerate your account key, any shared access signature generated using the original key is no longer valid.

For more information on shared access signatures, see Creating a Shared Access Signature. For details on container-level access policies, see Specifying a Container-Level Access Policy.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Managing Access to Blobs and Containers
Managing Access to Blobs and Containers
CloudBlob.GetSharedAccessSignature Method (SharedAccessPolicy, String)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a shared access signature for the blob, with the specified container-level access policy.

Namespace: Microsoft.WindowsAzure.StorageClient  
Usage

Visual Basic

Dim instance As CloudBlob
Dim policy As SharedAccessPolicy
Dim groupPolicyIdentifier As String
Dim returnValue As String

returnValue = instance.GetSharedAccessSignature(policy)
## Syntax

### Visual Basic

```vbnet
Public Function GetSharedAccessSignature ( _
    policy As SharedAccessPolicy, _
    groupPolicyIdentifier As String _
) As String
```

### C#

```csharp
public string GetSharedAccessSignature (  
    SharedAccessPolicy policy,  
    string groupPolicyIdentifier  
)
```

### C++

```cpp
public:  
String^ GetSharedAccessSignature (  
    SharedAccessPolicy^ policy,  
    String^ groupPolicyIdentifier  
)
```

### J#

```jsharp```

### JScript

```javascript```

## Parameters

- **policy**

  The access policy for the shared access signature.
**groupPolicyIdentifier**

Type: `System.String`

A container-level access policy.

**Return Value**

Type: `System.String`

A shared access signature.
Example

The following code example creates a shared access signature for a blob. It then uses the signature to create a service client based on the shared access credentials, and uses the client to perform a write operation and a read operation against the blob.

```csharp
static void WriteToBlobViaSAS2(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create a service client for credentialed access to the Blob.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Create a CloudBlobContainer reference object.
    CloudBlobContainer container = blobClient.GetContainerReference("mySASContainer");
    container.CreateIfNotExist();

    // Create a new blob container in the cloud if the CloudBlobContainer reference doesn't reference an existing container.
    container.CreateIfNotExists();

    // Create a BlobContainerPermissions dictionary object.
    // This holds a collection of individual SharedAccessPolicy objects.
    BlobContainerPermissions containerPermissions = new BlobContainerPermissions();

    // Create a SharedAccessPolicy object.
    SharedAccessPolicy myCAPolicy = new SharedAccessPolicy();

    // Initialize the SharedAccessPolicy object.
    // Configure the policy to go into effect an hour from now,
    // to remain in effect for a ten-hour duration,
    // and grant read/write permissions to the data.
    myCAPolicy.SharedAccessStartTime = DateTime.UtcNow.AddHours(1);
    myCAPolicy.SharedAccessExpiryTime = DateTime.UtcNow.AddHours(11);
    myCAPolicy.Permissions = SharedAccessPermissions.Write | SharedAccessPermissions.Read;

    // Add this SharedAccessPolicy object to the BlobContainerPermissions dictionary.
    containerPermissions.Add(myCAPolicy);

    // Create the blob.
    CloudBlockBlob blob = container.GetBlockBlobReference("mySASContainer\testBlock1");
    byte[] bytes = Encoding.UTF8.GetBytes("Hello, world.");
    blob.UploadBlock(bytes, 0, bytes.Length);

    // Create a service client for the shared access signature created above.
    CloudBlobClient sasBlobClient = new CloudBlobClient(blobEndpoint, new SharedAccessSignature(accountName, accountKey, containerPermissions));

    // Create a CloudBlobContainer reference object.
    CloudBlobContainer sasContainer = sasBlobClient.GetContainerReference("mySASContainer");

    // Create a new blob container in the cloud if the CloudBlobContainer reference doesn't reference an existing container.
    sasContainer.CreateIfNotExists();

    // Create a new blob container in the cloud.
    CloudBlockBlob sasBlob = sasContainer.GetBlockBlobReference("mySASContainer\testBlock1");

    // Use the new blob container created with the shared access signature.
    byte[] sasBlobBytes = new byte[0];
    var sasBlockBlobResult = sasBlob.DownloadBlock(new BlockDownloadConfig{BlockLength = sasBlobBytes.Length});
    sasBlobBytes = sasBlockBlobResult.Content;
    string sasBlobString = Encoding.UTF8.GetString(sasBlobBytes);
    Console.WriteLine(sasBlobString);  // Output: Hello, world.
}
```
containerPermissions.SharedAccessPolicies.Add("myContainerPolicy");

// Restrict anonymous access to the container contents.
containerPermissions.PublicAccess = BlobContainerPublicAccessType.Off;

// Apply the collection of shared access policies to the container.
container.SetPermissions(containerPermissions);

// Create a blob reference object.
CloudBlob blob = blobClient.GetBlobReference("mySASContainer/myBlob.txt");

// Upload text to the blob.
// This creates a new blob if the CloudBlob reference does not reference an existing blob.
blob.UploadText("a text blob");

// Create a shared access signature to use for delegated access.
// Note that this call passes in an empty access policy, so that the shared access signature will use the 'myContainerPolicy' shared access policy defined for the container.
string signature = blob.GetSharedAccessSignature(new SharedAccessPolicy(), "myContainerPolicy");

// Use the shared access signature to get another reference to the blob.
CloudBlob blobSAS = new CloudBlob("http://storagesample.blob.core.windows.net/mySASContainer/myBlob.txt", new StorageCredentialsSharedAccessSignature(signature));

// Update the contents of the blob.
blobSAS.UploadText("A text blob updated using a shared access signature");

// Output the contents of the blob.
Console.WriteLine(blobSAS.DownloadText());

}
### Exceptions

<table>
<thead>
<tr>
<th>Exception type</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>InvalidOperationException</strong></td>
<td>Thrown if the current credentials don't support creating a shared access signature.</td>
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<tr>
<td><strong>NotSupportedException</strong></td>
<td>Thrown if blob is a snapshot.</td>
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</table>
Remarks

A shared access signature is a token that provides delegated access to blob resources. You can provide this token to clients in order to grant them specific permissions to resources for a controlled period of time. A shared access signature created for a blob resource can grant access just to the content and metadata of that blob.

A shared access signature created for a container resource can grant access to the content and metadata of any blob in the container, and to the list of blobs in the container. To create a shared access signature for a container, see the `GetSharedAccessSignature` method of the `CloudBlobContainer` object.

The parameters of the shared access signature that govern access are:

- The start time at which the signature becomes valid.
- The time at which it expires.
- The permissions that it grants.

These parameters are specified in an access policy, represented by the `SharedAccessPolicy` class. There are three ways to specify an access policy:

- You can specify it on a single shared access signature. In this case, the interval over which the signature may be valid is limited to one hour.

- You can specify it by creating a container-level access policy, which can be associated with one or more shared access signatures. This approach has the advantage of making it possible to revoke a shared access signature, if it should be compromised. To specify that the access policy should be used by the signature, call the overload that includes the `groupPolicyIdentifier` parameter.

- You can also specify some parameters of the access policy on the signature and some on a container-level access policy. Note that you cannot specify the same parameter in both places; doing so results in an error.
(HTTPStatusBadRequest).

Note that when you regenerate your account key, any shared access signature generated using the original key is no longer valid.

For more information on shared access signatures, see Creating a Shared Access Signature. For details on container-level access policies, see Specifying a Container-Level Access Policy.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Managing Access to Blobs and Containers
CloudBlob.OpenRead Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

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<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudBlob.OpenRead()</code></td>
<td>Opens a stream for reading the blob's contents.</td>
</tr>
<tr>
<td><code>CloudBlob.OpenRead(BlobRequestOptions)</code></td>
<td>Opens a stream for reading the blob's contents, using a conditional request based on the <code>BlobRequestOptions</code> that you specify.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.OpenRead Method ()

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Opens a stream for reading the blob's contents.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

```vbnet
Dim instance As CloudBlob
Dim returnValue As BlobStream

returnValue = instance.OpenRead
```
### Syntax

**Visual Basic**

Public Function OpenRead As BlobStream

**C#**

public BlobStream OpenRead ()

**C++**

public: BlobStream^ OpenRead ()

**J#**


**JScript**


### Return Value


A stream to use for reading from the blob.
Thread Safety

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
Cloudblob.OpenRead Method (BlobRequestOptions)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Opens a stream for reading the blob's contents, using a conditional request based on the BlobRequestOptions that you specify.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlob
Dim options As BlobRequestOptions
Dim returnValue As BlobStream

returnValue = instance.OpenRead(options)
```
Syntax

Visual Basic

Public Function OpenRead ( _
    options As BlobRequestOptions _
) As BlobStream

C#

public BlobStream OpenRead (  
    BlobRequestOptions options  
)

C++

public:
    BlobStream^ OpenRead (  
        BlobRequestOptions^ options  
    )

J#

JScript

Parameters

options
Type: Microsoft.WindowsAzure.StorageClient.BlobRequestOptions

An object that specifies any additional options for the request.

Return Value

Type: Microsoft.WindowsAzure.StorageClient.BlobStream
A stream to use for reading from the blob.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.OpenWrite Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been depreciated. See Storage Client Library for the latest version.]
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<td>Opens a stream for writing to the blob.</td>
</tr>
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<td>Opens a stream for writing to the blob, using a conditional request based on the <code>BlobRequestOptions</code> that you specify.</td>
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</table>
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
**CloudBlob.OpenWrite Method ()**

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See **Storage Client Library** for the latest version.]

Opens a stream for writing to the blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
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<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim instance As CloudBlob</td>
</tr>
<tr>
<td>Dim returnValue As BlobStream</td>
</tr>
<tr>
<td>returnValue = instance.OpenWrite</td>
</tr>
</tbody>
</table>
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
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<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Overridable Function OpenWrite As BlobStream</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public virtual BlobStream OpenWrite ()</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: virtual BlobStream^ OpenWrite ()</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>

### Return Value

Type: `Microsoft.WindowsAzure.StorageClient.BlobStream`

A stream to be used for writing to the blob.
Remarks

This method opens the blob for writing. If the blob already exists, it is overwritten. The existing blob is not appended.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.OpenWrite Method (BlobRequestOptions)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Opens a stream for writing to the blob, using a conditional request based on the BlobRequestOptions that you specify.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlob
Dim options As BlobRequestOptions
Dim returnValue As BlobStream

returnValue = instance.OpenWrite(options)
```
### Syntax

#### Visual Basic

```vbnet
Public Overridable Function OpenWrite ( _
    options As BlobRequestOptions _
) As BlobStream
```

#### C#

```csharp
public virtual BlobStream OpenWrite ( BlobRequestOptions options )
```

#### C++

```cpp
public: virtual BlobStream^ OpenWrite ( BlobRequestOptions^ options )
```

#### J#

```jsharp

```

#### JScript

```jscript

```

### Parameters

- **options**
  - Type: `Microsoft.WindowsAzure.StorageClient.BlobRequestOptions`
  - An object that specifies any additional options for the request.

### Return Value

- Type: `Microsoft.WindowsAzure.StorageClient.BlobStream`
A stream to be used for writing to the blob.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
See Also

Reference

CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.ParseSizeAndLastModified Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Parses values from a Blob service response. This method is protected.

Namespace: Microsoft.WindowsAzure.StorageClient
## Usage

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim response As <strong>HttpWebResponse</strong></td>
</tr>
<tr>
<td>Me.ParseSizeAndLastModified(response)</td>
</tr>
</tbody>
</table>
### Syntax

<table>
<thead>
<tr>
<th></th>
<th>Visual Basic</th>
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</tr>
</thead>
</table>
| **Visual Basic** | `Protected Sub ParseSizeAndLastModified (_
response As HttpWebResponse _)`     | `protected void ParseSizeAndLastModified (  
HttpWebResponse response)`             | `protected:
void ParseSizeAndLastModified (  
HttpWebResponse^ response)`             |                                          |
| **C#**       |                                      |                                         |                                          |                                          |
| **C++**      |                                      |                                         |                                          |                                          |
| **J#**       |                                      |                                         |                                          |                                          |
| **JScript**  |                                      |                                         |                                          |                                          |

### Parameters

- **response**
  - **Type:** `System.Net.HttpWebResponse`

  The response to parse.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.SetMetadata Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
<table>
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<th>Name</th>
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<tr>
<td><code>CloudBlob.SetMetadata()</code></td>
<td>Updates the blob's metadata.</td>
</tr>
<tr>
<td><code>CloudBlob.SetMetadata(BlobRequestOptions)</code></td>
<td>Updates the blob's metadata, using a conditional request based on the <code>BlobRequestOptions</code> that you specify.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Setting and Retrieving Properties and Metadata
CloudBlob.SetMetadata Method ()

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Updates the blob's metadata.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

Dim instance As **CloudBlob**

instance.SetMetadata
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Sub SetMetadata</code></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td><code>public void SetMetadata ()</code></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><code>public: void SetMetadata ()</code></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td><strong>JScript</strong></td>
</tr>
</tbody>
</table>

---

**Visual Basic**

```vbnet
Public Sub SetMetadata
```

**C#**

```csharp
public void SetMetadata ()
```

**C++**

```cpp
public:
void SetMetadata ()
```
The following code example writes metadata to a blob.

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
</table>
| static void WriteBlobMetadata(Uri blobEndpoint, string accountName, string accountKey) {
    // Create service client for credentialed access.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));
    
    // Return a blob reference.
    CloudBlob blob = new CloudBlob("mycontainer/myblob.txt", blobClient);
    
    // Write some text to the blob.
    blob.UploadText("this is a text blob");
    
    // Define some metadata for the blob.
    blob.Metadata["category"] = "images";
    blob.Metadata["owner"] = "azureix";
    
    // Write the metadata to the service.
    blob.SetMetadata();
} |
Remarks

The **SetMetadata** method writes the metadata values that are specified by the blob's **Metadata** property to the service. Note that setting the **Metadata** property sets metadata values on the blob reference only; you must call **BeginSetMetadata** or **SetMetadata** to write them to the service.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Setting and Retrieving Properties and Metadata
CloudBlob.SetMetadata Method (BlobRequestOptions)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Updates the blob's metadata, using a conditional request based on the BlobRequestOptions that you specify.

Namespace: Microsoft.WindowsAzure.StorageClient
## Usage

### Visual Basic

```visualbasic
Dim instance As CloudBlob
Dim options As BlobRequestOptions

instance.SetMetadata(options)
```
## Syntax

### Visual Basic

Public Sub SetMetadata ( _
    options As BlobRequestOptions _
)

### C#

```csharp
public void SetMetadata ( 
    BlobRequestOptions options
)
```

### C++

```cpp
public:
void SetMetadata ( 
    BlobRequestOptions^ options
)
```

### J#

### JScript

### Parameters

**options**

Type: [Microsoft.WindowsAzure.StorageClient.BlobRequestOptions](#)

An object that specifies any additional options for the request.
The following code example writes metadata to a blob.

```csharp
static void WriteBlobMetadata2(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint,
        new StorageCredentialsAccountAndKey(accountName,
            accountKey));

    // Create a CloudBlob reference.
    CloudBlob blob = new CloudBlob("mycontainer/myblob.txt", blobClient);

    // Write text to the blob.
    blob.UploadText("This is a text blob.");

    // Define metadata for the blob.
    blob.Metadata["category"] = "images";
    blob.Metadata["owner"] = "azureix";

    // Set options for the request. E.g., Specify an operation timeout of 20 seconds.
    BlobRequestOptions options = new BlobRequestOptions();
    options.Timeout = TimeSpan.FromSeconds(20.0);

    // Write the metadata to the blob.
    blob.SetMetadata(options);
}
```
Remarks

The SetMetadata method writes the metadata values that are specified by the blob's Metadata property to the service. Note that setting the Metadata property sets metadata values on the blob reference only; you must call BeginSetMetadata or SetMetadata to write them to the service.
Thread Safety

Any public static (*Shared* in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Setting and Retrieving Properties and Metadata
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<tr>
<th>Name</th>
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<td>CloudBlob.SetProperties ()</td>
<td>Updates the blob's properties.</td>
</tr>
<tr>
<td>CloudBlob.SetProperties (BlobRequestOptions)</td>
<td>Updates the blob's properties, using a conditional request based on the BlobRequestOptions that you specify.</td>
</tr>
</tbody>
</table>
**See Also**

**Reference**
- CloudBlob Class
- CloudBlob Members
- Microsoft.WindowsAzure.StorageClient Namespace

**Other Resources**
- Setting and Retrieving Properties and Metadata
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Updates the blob's properties.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim instance As <strong>CloudBlob</strong></td>
</tr>
<tr>
<td>instance.SetProperties</td>
</tr>
</tbody>
</table>
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Sub SetProperties</code></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td><code>public void SetProperties()</code></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><code>public: void SetProperties()</code></td>
</tr>
<tr>
<td><strong>J#</strong></td>
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</tr>
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<td><strong>JScript</strong></td>
<td></td>
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</table>
Remarks

The `SetProperties` method writes the blob's writable property values to the service. The blob's writable properties are `CacheControl`, `ContentEncoding`, `ContentLanguage`, `ContentMd5`, and `ContentType`.

Note that setting these property values sets them on the blob reference only; you must call `SetProperties` or `BeginSetProperties` to write them to the service.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Setting and Retrieving Properties and Metadata
CloudBlob.SetProperties Method (BlobRequestOptions)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Updates the blob's properties, using a conditional request based on the BlobRequestOptions that you specify.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

### Visual Basic

```vbnet
Dim instance As CloudBlob
Dim options As BlobRequestOptions

instance.SetProperties(options)
```
## Syntax

### Visual Basic

```vbnet
Public Sub SetProperties ( _
    options As BlobRequestOptions _
)
```

### C#

```csharp
public void SetProperties (    
    BlobRequestOptions options
)
```

### C++

```cpp
public:
void SetProperties (    
    BlobRequestOptions^ options
)
```

### J#

```jsharp```

### JScript

```javascript```

## Parameters

*options*

Type: [Microsoft.WindowsAzure.StorageClient.BlobRequestOptions](#)

An object that specifies any additional options for the request.
Remarks

The **SetProperties** method writes the blob's writable property values to the service. The blob's writable properties are **CacheControl**, **ContentEncoding**, **ContentLanguage**, **ContentMd5**, and **ContentType**.

Note that setting these property values sets them on the blob reference only; you must call **SetProperties** or **BeginSetProperties** to write them to the service.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Setting and Retrieving Properties and Metadata
CloudBlob.UploadByteArray Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<td>CloudBlob.UploadByteArray(Byte[])</td>
<td>Uploads an array of bytes to a block blob.</td>
</tr>
<tr>
<td>CloudBlob.UploadByteArray(Byte[], BlobRequestOptions)</td>
<td>Uploads an array of bytes to a block blob, using a conditional request based on the BlobRequestOptions that you specify.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.UploadByteArray Method (Byte[])  

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Uploads an array of bytes to a block blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
</table>

**Visual Basic**

```vbnet
Dim instance As CloudBlob
Dim content As Byte()

instance.UploadByteArray(content)
```
### Syntax

#### Visual Basic

Public Overridable Sub UploadByteArray ( _
    content As Byte() _
)

#### C#

public virtual void UploadByteArray ( 
    byte[] content
)

#### C++

public:
virtual void UploadByteArray ( 
    array<unsigned char>^ content
)

#### J#

#### JScript

### Parameters

*content*

The array of bytes to upload.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
### CloudBlob.UploadByteArray Method (Byte[], BlobRequestOptions)

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Uploads an array of bytes to a block blob, using a conditional request based on the `BlobRequestOptions` that you specify.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As CloudBlob
Dim content As Byte()
Dim options As BlobRequestOptions

instance.UploadByteArray(content, options)
## Syntax

### Visual Basic

```vbnet
Public Overridable Sub UploadByteArray ( _
    content As Byte(), _
    options As BlobRequestOptions _
)
```

### C#

```csharp
public virtual void UploadByteArray ( 
    byte[] content, 
    BlobRequestOptions options
)
```

### C++

```cpp
public:
virtual void UploadByteArray ( 
    array<unsigned char>^ content, 
    BlobRequestOptions^ options
)
```

### J#

### JScript

### Parameters

- **content**
  - The array of bytes to upload.

- **options**
  - Type: `Microsoft.WindowsAzure.StorageClient.BlobRequestOptions`
An object that specifies any additional options for the request.
- **Thread Safety**
  
  Any public static (*Shared* in Visual Basic) members of this type are thread safe.
  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<table>
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<th>Description</th>
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</thead>
<tbody>
<tr>
<td><code>CloudBlob.UploadFile (String)</code></td>
<td>Uploads a file from the file system to a block blob.</td>
</tr>
<tr>
<td><code>CloudBlob.UploadFile (String, BlobRequestOptions)</code></td>
<td>Uploads a file from the file system to a block blob, using a conditional request based on the BlobRequestOptions that you specify.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.UploadFile Method (String)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Uploads a file from the file system to a block blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

#### Visual Basic

```vbnet
Dim instance As CloudBlob
Dim fileName As String

instance.UploadFile(fileName)
```
**Syntax**

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Overridable Sub UploadFile ( _ fileName As String _ )</td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public virtual void UploadFile ( string fileName )</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public: virtual void UploadFile ( String^ fileName )</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Parameters**

*fileName*

Type: **System.String**

The path and file name of the file to upload.
The following code example uploads a file from the local computer to a blob.

C#

```csharp
static void UploadBlobFromFile(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
                            new StorageCredentialsAccountAndKey(accountName,
                                                                accountKey));

    // Get a reference to a container, which may or may not exist.
    CloudBlobContainer container = blobClient.GetContainerReference("mycontainer");

    // Create a new container, if it does not exist.
    container.CreateIfNotExist();

    // Get a reference to a blob, which may or may not exist.
    CloudBlob blob = container.GetBlobReference("myfile.txt");

    // Upload content to the blob, which will create the blob if it does not already exist.
    blob.UploadFile("c:\myfile.txt");
}
```
Remarks

The maximum size for a block blob is 200 GB, and a block blob can include no more than 50,000 blocks.
- **Thread Safety**

  Any public static (**Shared** in Visual Basic) members of this type are thread safe.
  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Uploads a file from the file system to a block blob, using a conditional request based on the BlobRequestOptions that you specify.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlob
Dim fileName As String
Dim options As BlobRequestOptions

instance.UploadFile(fileName, options)
```
## Syntax

### Visual Basic

```
Public Overridable Sub UploadFile ( _
    fileName As String, _
    options As BlobRequestOptions _
)
```

### C#

```
public virtual void UploadFile (  
    string fileName,  
    BlobRequestOptions options  
)
```

### C++

```
public:
    virtual void UploadFile (  
        String^ fileName,  
        BlobRequestOptions^ options  
)
```

### J#

```
```

### JScript

```
```

## Parameters

**fileName**

Type: `System.String`

The path and file name of the file to upload.
options
Type: `Microsoft.WindowsAzure.StorageClient.BlobRequestOptions`

An object that specifies any additional options for the request.
The following code example uploads a file from the local computer to a blob, using the specified blob request options.

```csharp
static void UploadBlobFromFile(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create a service client for credentialed-access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
            new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Get a reference to a container, which may or may not already exist
    CloudBlobContainer container = blobClient.GetContainerReference("mycontainer");

    // Create a new container in the cloud if one with this container address does not already exist.
    container.CreateIfNotExist();

    // Get a reference to a blob, which may or may not exist.
    CloudBlob blob = container.GetBlobReference("myfile.txt");

    // Create a BlobRequestOptions object.
    BlobRequestOptions options = new BlobRequestOptions();

    // Use the BlobRequestOptions object to set options for the request.
    // E.g., Specify a retry policy of 10 retries.
    options.RetryPolicy =
        RetryPolicies.RetryExponential(10, RetryPolicies.DefaultClientBackoff);

    // Upload content to the blob, which will create the blob if it does not already exist.
    // If the operation fails, try it again - up to ten times before giving up.
    blob.UploadFile("c:\myfile.txt", options);
}
```
Remarks

The maximum size for a block blob is 200 GB, and a block blob can include no more than 50,000 blocks.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.UploadFromStream Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

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<td>Uploads a block blob from a stream.</td>
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See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.UploadFromStream Method (Stream)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Uploads a block blob from a stream.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
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</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>

```visualbasic
Dim instance As CloudBlob
Dim source As Stream

instance.UploadFromStream(source)
```
### Syntax

**Visual Basic**

```vbnet
Public Overridable Sub UploadFromStream ( _
    source As Stream _
)
```

**C#**

```csharp
public virtual void UploadFromStream (
    Stream source
)
```

**C++**

```cpp
public:
virtual void UploadFromStream ( 
    Stream^ source
)
```

**J#**

```jsharp
```

**JScript**

```javascript
```

### Parameters

**source**

Type: `System.IO.Stream`

The stream providing the blob content.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.UploadFromStream Method (Stream, BlobRequestOptions)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Uploads a block blob from a stream, using a conditional request based on the BlobRequestOptions that you specify.

Namespace: Microsoft.WindowsAzure.StorageClient  
Usage

Visual Basic

Dim instance As CloudBlob
Dim source As Stream
Dim options As BlobRequestOptions

instance.UploadFromStream(source, options)
## Syntax

### Visual Basic

```vbnet
Public Overridable Sub UploadFromStream (_
    source As Stream, _
    options As BlobRequestOptions _
)
```

### C#

```csharp
public virtual void UploadFromStream (  
    Stream source,
    BlobRequestOptions options
)
```

### C++

```csharp
public:
    virtual void UploadFromStream (  
        Stream^ source,
        BlobRequestOptions^ options
    )
```

### J#

### JScript

### Parameters

**source**

Type: [System.IO.Stream](https://docs.microsoft.com/en-us/dotnet/api/system.io.stream)

The stream providing the blob content.
**options**


An object that specifies any additional options for the request.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

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<td><code>CloudBlob.UploadText (String)</code></td>
<td>Uploads a string of text to a block blob.</td>
</tr>
<tr>
<td><code>CloudBlob.UploadText (String, Encoding, BlobRequestOptions)</code></td>
<td>Uploads a string of text to a block blob, with the specified encoding, and using a conditional request based on the BlobRequestOptions that you specify.</td>
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</table>
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.UploadText Method (String)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Uploads a string of text to a block blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlob
Dim content As String

instance.UploadText(content)
```
Syntax

Visual Basic

Public Overridable Sub UploadText ( _
    content As String _
)

C#

public virtual void UploadText ( _
    string content
)

C++

public:
    virtual void UploadText ( _
        String^ content
    )

J#


JScript

Parameters

content
    Type: System.String

    The text to upload, which will be encoded as a UTF-8 string.
Example

The following code example uploads a blob from text. This example overwrites the blob if it already exists in the container.

```csharp
static void UploadBlobFromText(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
                            new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Get a reference to the blob.
    CloudBlob blob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    // Upload the blob from a text string.
    blob.UploadText("Upload a blob from text.");
}
```
- **Thread Safety**

  Any public static (**Shared** in Visual Basic) members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.UploadText Method (String, Encoding, BlobRequestOptions)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Uploads a string of text to a block blob, with the specified encoding, and using a conditional request based on the BlobRequestOptions that you specify.

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

Visual Basic

Dim instance As CloudBlob
Dim content As String
Dim encoding As Encoding
Dim options As BlobRequestOptions

instance.UploadText(content, encoding, options)
### Syntax

#### Visual Basic

```vbnet
Public Overridable Sub UploadText ( _
    content As String, _
    encoding As Encoding, _
    options As BlobRequestOptions _
)
```

#### C#

```csharp
public virtual void UploadText (  
    string content,  
    Encoding encoding,  
    BlobRequestOptions options
)
```

#### C++

```cpp
public:
    virtual void UploadText (  
        String^ content,  
        Encoding^ encoding,  
        BlobRequestOptions^ options
    )
```

#### J#

```
```

#### JScript

```
```

### Parameters

- `content`
Type: `System.String`

The text to upload.

*encoding*

Type: `System.Text.Encoding`

An object that indicates the text encoding to use.

*options*

Type: `Microsoft.WindowsAzure.StorageClient.BlobRequestOptions`

An object that specifies any additional options for the request.
Example

The following code example writes to a blob using two different service clients.

```csharp
static void UploadIfNotExist(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access.
    CloudBlobClient blobClient =
      new CloudBlobClient(blobEndpoint,
                          new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Get a reference to the blob.
    CloudBlob blob = blobClient.GetBlobReference("mycontainer/myblob.txt");

    // Specify the if-none-match condition.
    BlobRequestOptions options = new BlobRequestOptions();
    options.AccessCondition = AccessCondition.IfNoneMatch("*");

    try
    {
        // Upload the blob only if it does not already exist.
        blob.UploadText("Upload this blob if it does not already exist.", Encoding.UTF8, options);
    }
    catch (StorageClientException e)
    {
        if (e.ErrorCode == StorageErrorCode.BlobAlreadyExists)
        {
            Console.WriteLine("Blob was not uploaded because it already exists.");
        }
        else
        {
            Console.WriteLine(e.Message);
        }
    }
}```
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob Properties

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
# Public Properties

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<th>Description</th>
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<td>Attributes</td>
<td>Gets the <a href="blobattributes">BlobAttributes</a> object that represents the blob's attributes.</td>
</tr>
<tr>
<td>Container</td>
<td>Gets a <a href="cloudblobcontainer">CloudBlobContainer</a> object representing the blob's container.</td>
</tr>
<tr>
<td>Metadata</td>
<td>Gets the blob's user-defined metadata.</td>
</tr>
<tr>
<td>Name</td>
<td>Gets the name of the blob.</td>
</tr>
<tr>
<td>Parent</td>
<td>Gets the <a href="cloudblobdirectory">CloudBlobDirectory</a> object representing the virtual parent directory for the blob.</td>
</tr>
<tr>
<td>Properties</td>
<td>Gets the blob's system properties.</td>
</tr>
<tr>
<td>ServiceClient</td>
<td>Gets the <a href="cloudblobclient">CloudBlobClient</a> object that represents the Blob service.</td>
</tr>
<tr>
<td>SnapshotTime</td>
<td>Gets the <a href="datatime">DateTime</a> value that uniquely identifies the snapshot, if this blob is a snapshot.</td>
</tr>
<tr>
<td>ToBlockBlob</td>
<td>Gets a <a href="cloudblockblob">CloudBlockBlob</a> object based on this blob.</td>
</tr>
<tr>
<td>ToPageBlob</td>
<td>Gets a <a href="cloudpageblob">CloudPageBlob</a> object based on this blob.</td>
</tr>
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<td>Uri</td>
<td>Gets the URI that identifies the blob.</td>
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</tbody>
</table>
See Also

Reference
CloudBlob Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.Attributes Property

See Also

| [This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the **BlobAttributes** object that represents the blob's attributes.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudBlob
Dim value As BlobAttributes

value = instance.Attributes
```
Syntax

Visual Basic

Public ReadOnly Property Attributes As BlobAttributes

C#

public BlobAttributes Attributes { get; }

C++

public:
property BlobAttributes^ Attributes { 
    BlobAttributes^ get();
}

J#

JScript

Property Value

Type: Microsoft.WindowsAzure.StorageClient.BlobAttributes

The blob's attributes.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
**CloudBlob.Container Property**

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a **CloudBlobContainer** object representing the blob's container.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>Dim instance As <code>CloudBlob</code></td>
</tr>
<tr>
<td>Dim value As <code>CloudBlobContainer</code></td>
</tr>
<tr>
<td>value = instance.Container</td>
</tr>
</tbody>
</table>
## Syntax

### Visual Basic

Public ReadOnly Property Container As CloudBlobContainer

### C#

public CloudBlobContainer Container { get; }

### C++

public:
virtual property CloudBlobContainer^ Container { CloudBlobContainer^ get () sealed; }

### J#

### JScript

**Property Value**


The blob's container.
- **Thread Safety**

  Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
**CloudBlob.Metadata Property**

<table>
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[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.]

Gets the blob's user-defined metadata.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlob
Dim value As NameValueCollection

value = instance.Metadata
```
## Syntax

### Visual Basic

```vbnet
Public Property Metadata As NameValueCollection
```

### C#

```csharp
public NameValueCollection Metadata { get; }
```

### C++

```cpp
public:
property NameValueCollection^ Metadata
{
    NameValueCollection^ get();
}
```

### J#

```jsharp
```

### JScript

```javascript
```

## Property Value

Type: System.Collections.Specialized.NameValueCollection

The metadata of the blob.
The following code example writes metadata to a blob.

```csharp
static void WriteBlobMetadata(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Return a blob reference.
    CloudBlob blob = new CloudBlob("mycontainer/myblob.txt", blobClient);

    // Write some text to the blob.
    blob.UploadText("this is a text blob");

    // Define some metadata for the blob.
    blob.Metadata["category"] = "images";
    blob.Metadata["owner"] = "azureix";

    // Write the metadata to the service.
    blob.SetMetadata();
}
```
Remarks

The **FetchAttributes** method populates the system properties and user-defined metadata of a blob. Before reading the properties or metadata of a blob, you should always call this method or the **BeginFetchAttributes** method to retrieve the latest values for the properties and metadata of the blob from the service.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Naming and Referencing Containers, Blobs, and Metadata
Setting and Retrieving Properties and Metadata
CloudBlob.Name Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the name of the blob.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

**Visual Basic**

```visualbasic
Dim instance As CloudBlob
Dim value As String

value = instance.Name
```
# Syntax

## Visual Basic

Public ReadOnly Property Name As String

## C#

```csharp
public string Name { get; }
```

## C++

```cpp
public:
property String^ Name {
    String^ get ();
}
```

## J#

## JScript

## Property Value

Returns the name of the blob.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.Parent Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the CloudBlobDirectory object representing the virtual parent directory for the blob.

Namespace: Microsoft.WindowsAzure.StorageClient  
## Usage

### Visual Basic

```vbnet
Dim instance As CloudBlob
Dim value As CloudBlobDirectory

value = instance.Parent
```
### Syntax

#### Visual Basic

Public ReadOnly Property Parent As CloudBlobDirectory

#### C#

```csharp
public CloudBlobDirectory Parent { get; }
```

#### C++

```cpp
public:
virtual property CloudBlobDirectory^ Parent {
    CloudBlobDirectory^ get () sealed;
}
```

#### J#

```
```

#### JScript

```
```

### Property Value


The blob's virtual parent directory.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.Properties Property

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the blob's system properties.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As CloudBlob
Dim value As BlobProperties

value = instance.Properties
```
## Syntax

### Visual Basic

Public Property Properties As BlobProperties

### C#

```csharp
public BlobProperties Properties { get; }
```

### C++

```cpp
public:
property BlobProperties^ Properties {
    BlobProperties^ get ();
}
```

### J#

```
```

### JScript

```
```

## Property Value

Type: [Microsoft.WindowsAzure.StorageClient.BlobProperties](#)

The system properties of the blob.
Remarks

The **FetchAttributes** method populates the system properties and user-defined metadata of a blob. Before reading the properties or metadata of a blob, you should always call this method or the **BeginFetchAttributes** method to retrieve the latest values for the properties and metadata of the blob from the service.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Setting and Retrieving Properties and Metadata
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the `CloudBlobClient` object that represents the Blob service.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

#### Visual Basic

```vbnet
Dim instance As CloudBlob
Dim value As CloudBlobClient

value = instance.ServiceClient
```
### Syntax

<table>
<thead>
<tr>
<th></th>
<th>Visual Basic</th>
<th>C#</th>
<th>C++</th>
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<th>JScript</th>
</tr>
</thead>
</table>
|   | Public Property ServiceClient As **CloudBlobClient**                       | public **CloudBlobClient**  ServiceClient { get; }                  | public:
|   |                                                                           |                                                                    | property **CloudBlobClient**^ ServiceClient {                     |                                                                    |                                                                    |
|   |                                                                           |                                                                    | CloudBlobClient^ get ();                                           |                                                                    |                                                                    |
|   |                                                                           |                                                                    | }                                                                   |                                                                    |                                                                    |

### Property Value


A client object that specifies the Blob service endpoint.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.SnapshotTime Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the **DateTime** value that uniquely identifies the snapshot, if this blob is a snapshot.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudBlob
Dim value As Nullable(Of DateTime)

value = instance.SnapshotTime
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Property SnapshotTime As Nullable(Of DateTime)</td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public Nullable&lt;DateTime&gt; SnapshotTime { get; }</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public: property Nullable&lt;DateTime&gt; SnapshotTime {</td>
</tr>
<tr>
<td></td>
<td>Nullable&lt;DateTime&gt; get ();</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

Type: [System.Nullable](https://docs.microsoft.com/en-us/dotnet/api/system.nullable)

A value that uniquely identifies the snapshot.
Remarks

If the blob is not a snapshot, this property returns null.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Working with Snapshots
CloudBlob.ToBlockBlob Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a CloudBlockBlob object based on this blob.

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

Visual Basic

Dim instance As CloudBlob
Dim value As CloudBlockBlob

value = instance.ToBlockBlob
### Syntax

**Visual Basic**

```vbnet
Public ReadOnly Property ToBlockBlob As CloudBlockBlob
```

**C#**

```csharp
public CloudBlockBlob ToBlockBlob { get; }
```

**C++**

```cpp
public:
property CloudBlockBlob^ ToBlockBlob { 
CloudBlockBlob^ get ();
}
```

**J#**

```jsharp```

**JScript**

```js```

### Property Value


A reference to a block blob.
Remarks

This property casts a **CloudBlob** object to an object of type **CloudBlockBlob**.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlob.ToPageBlob Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a CloudPageBlob object based on this blob.

Namespace: Microsoft.WindowsAzure.StorageClient
## Usage

**Visual Basic**

<table>
<thead>
<tr>
<th>Dim instance As <code>CloudBlob</code></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim value As <code>CloudPageBlob</code></td>
</tr>
<tr>
<td>value = instance.ToPageBlob</td>
</tr>
</tbody>
</table>
**Syntax**

**Visual Basic**

Public ReadOnly Property ToPageBlob As **CloudPageBlob**

**C#**

public **CloudPageBlob** ToPageBlob { get; }

**C++**

public:
property **CloudPageBlob**^ ToPageBlob {
    **CloudPageBlob**^ get ();
}

**J#**


**JScript**


**Property Value**


A reference to a page blob.
Remarks

This property casts a CloudBlob object to an object of type CloudPageBlob.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the URI that identifies the blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

#### Visual Basic

```vbnet
Dim instance As CloudBlob
Dim value As Uri

value = instance.Uri
```
## Syntax

<table>
<thead>
<tr>
<th><strong>Visual Basic</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Public ReadOnly Property Uri As Uri</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>C#</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>public Uri Uri { get; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>C++</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>public: virtual property Uri^ Uri { Uri^ get () sealed; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>J#</strong></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>JScript</strong></th>
</tr>
</thead>
</table>

### Property Value

Type: [System.Uri](https://docs.microsoft.com/en-us/dotnet/api/system.uri)

The address of the blob.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlob Class
CloudBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient Class

Provides a client for accessing the Windows Azure Blob service.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```visualbasic
Dim instance As CloudBlobClient
```
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Public Class CloudBlobClient</strong></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>C#</th>
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<tr>
<td><strong>public class CloudBlobClient</strong></td>
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<tr>
<td><strong>public ref class CloudBlobClient</strong></td>
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<table>
<thead>
<tr>
<th>J#</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>
Remarks

The **CloudBlobClient** class provides a point of access to the Blob service. The service client encapsulates the base URI for the Blob service. If the service client will be used for authenticated access, it also encapsulates the credentials for accessing the storage account.
Inheritance Hierarchy

System.Object
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient Members

See Also  Constructors  Events  Methods  Properties

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Provides a client for accessing the Windows Azure Blob service.

The following tables list the members exposed by the CloudBlobClient type.
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<tr>
<td>CloudBlobClient</td>
<td>Overloaded.</td>
</tr>
</tbody>
</table>
## Public Properties

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<tr>
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<th>Description</th>
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</thead>
<tbody>
<tr>
<td><strong>BaseUri</strong></td>
<td>Gets the base URI for the Blob service client.</td>
</tr>
<tr>
<td><strong>Credentials</strong></td>
<td>Gets the account credentials used to create the Blob service client.</td>
</tr>
<tr>
<td><strong>DefaultDelimiter</strong></td>
<td>Gets or sets the default delimiter that may be used to create a blob directory structure of blobs.</td>
</tr>
<tr>
<td><strong>ParallelOperationThreadCount</strong></td>
<td>Gets or sets the number of blocks that may be simultaneously uploaded when uploading a blob that is greater than the value specified by the <code>SingleBlobUploadThresholdInBytes</code> property.</td>
</tr>
<tr>
<td><strong>ReadAheadInBytes</strong></td>
<td>Gets or sets the number of bytes to pre-fetch when reading from a stream.</td>
</tr>
<tr>
<td><strong>RetryPolicy</strong></td>
<td>Gets or sets the default retry policy for requests made via the Blob service client.</td>
</tr>
<tr>
<td><strong>SingleBlobUploadThresholdInBytes</strong></td>
<td>Gets or sets the maximum size of a blob in bytes that may be uploaded in a single operation, without using blocks.</td>
</tr>
<tr>
<td><strong>Timeout</strong></td>
<td>Gets or sets the default timeout for requests made by the Blob service client.</td>
</tr>
<tr>
<td><strong>UseIntegrityControlForStreamReading</strong></td>
<td>Gets or sets a value indicating whether the integrity of each block should be verified when reading from a stream.</td>
</tr>
<tr>
<td><strong>WriteBlockSizeInBytes</strong></td>
<td>Gets or sets the block size for writing to a block blob.</td>
</tr>
<tr>
<td>Name</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>BeginGetServiceProperties</strong></td>
<td>Begins an asynchronous operation to get an account’s Blob service properties.</td>
</tr>
<tr>
<td><strong>BeginListBlobsWithPrefixSegmented</strong></td>
<td>Overloaded. Begins an asynchronous operation to return a result segment containing a collection of blob items whose names begin with the specified prefix.</td>
</tr>
<tr>
<td><strong>BeginListContainersSegmented</strong></td>
<td>Overloaded. Begins an asynchronous request to return a result segment containing a collection of containers.</td>
</tr>
<tr>
<td><strong>BeginSetServiceProperties</strong></td>
<td>Begins an asynchronous operation to set an account’s Blob service properties, including Windows Azure Storage Analytics.</td>
</tr>
<tr>
<td><strong>EndGetServiceProperties</strong></td>
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<tr>
<td><strong>Equals</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
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</tbody>
</table>
|                                           | Returns a reference to a
<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td><strong>GetBlobDirectoryReference</strong></td>
<td>CloudBlobDirectory object with the specified address.</td>
</tr>
<tr>
<td><strong>GetBlobReference</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>GetBlockBlob</strong></td>
<td>This method is obsolete; use GetBlockBlobReference instead. Obsolete.</td>
</tr>
<tr>
<td><strong>GetBlockBlobReference</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>GetContainerReference</strong></td>
<td>Returns a reference to a CloudBlobContainer object with the specified address.</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><strong>GetPageBlob</strong></td>
<td>This method is obsolete; use GetPageBlobReference. Obsolete.</td>
</tr>
<tr>
<td><strong>GetPageBlobReference</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>GetServiceProperties</strong></td>
<td>Gets the properties of a storage account’s Blob service, including Windows Azure Storage Analytics.</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><strong>ListBlobsWithPrefix</strong></td>
<td>Overloaded. Returns an enumerable collection of blob items whose names begin with the specified prefix.</td>
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<td><strong>ListBlobsWithPrefixSegmented</strong></td>
<td>Overloaded. Returns a result segment containing a collection of blob items whose names begin with the specified prefix.</td>
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<td><strong>ListContainers</strong></td>
<td>Overloaded. Returns an enumerable collection of containers.</td>
</tr>
<tr>
<td><strong>ListContainersSegmented</strong></td>
<td>Overloaded. Returns a result segment containing a collection of containers whose names begin with the specified prefix.</td>
</tr>
<tr>
<td><strong>SetServiceProperties</strong></td>
<td>Sets the properties of a storage account’s Blob service, including Windows Azure Storage Analytics and default service version.</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------------------------</td>
</tr>
</tbody>
</table>

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## Protected Methods

<table>
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<tr>
<th>Name</th>
<th>Description</th>
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<tbody>
<tr>
<td><code>Finalize</code></td>
<td>(Inherited from <code>Object</code>)</td>
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<tr>
<td><code>MemberwiseClone</code></td>
<td>(Inherited from <code>Object</code>)</td>
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</table>

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## Public Events

<table>
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<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ResponseReceived</td>
<td>Occurs when a response is received from the server.</td>
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</tbody>
</table>
See Also

Reference
CloudBlobClient Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient Constructor

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td><strong>CloudBlobClient(String)</strong></td>
<td>Initializes a new instance of the <a href="#">CloudBlobClient</a> class to be used for anonymous access.</td>
</tr>
<tr>
<td><strong>CloudBlobClient(String, StorageCredentials)</strong></td>
<td>Initializes a new instance of the <a href="#">CloudBlobClient</a> class using the specified Blob service endpoint and account credentials.</td>
</tr>
<tr>
<td><strong>CloudBlobClient(Uri, StorageCredentials)</strong></td>
<td>Initializes a new instance of the <a href="#">CloudBlobClient</a> class using the specified Blob service endpoint and account credentials.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient Constructor (String)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudBlobClient class to be used for anonymous access.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

Dim baseAddress As String

Dim instance As New CloudBlobClient(baseAddress)
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Public Sub New ( _
| 
|    baseAddress As String _
| ) |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public CloudBlobClient (</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>string baseAddress</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| public:
| CloudBlobClient ( |
| 
|    String^ baseAddress |
| ) |

<table>
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</tr>
</thead>
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<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>

### Parameters

**baseAddress**

Type: *System.String*

The Blob service endpoint to use to create the client.
Example
The following code example shows a console application that uses an
anonymous client to download the text content of a blob in a public container.
C#
using System;
using Microsoft.WindowsAzure;
using Microsoft.WindowsAzure.StorageClient;
namespace StorageSample
{
class Program
{
static void Main(string[] args)
{
CreateAnonymousClient();
}

static void CreateAnonymousClient()
{
//Create service client for anonymous access to t
CloudBlobClient publicClient = new CloudBlobClien

//Get a reference to a blob in a public container
CloudBlob publicBlob = publicClient.GetBlobRefere

//Attempt to download the blob's contents.
try
{
Console.WriteLine(publicBlob.DownloadText());
}
catch (StorageClientException e)
{
Console.WriteLine("Error code: ", e.ErrorCode
Console.WriteLine("Error message: ", e.Messag


Remarks

This constructor creates a service client that may be used for anonymous access against publically accessible containers.
Platforms

Development Platforms
Change History
See Also

Reference

CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient Constructor (String, StorageCredentials)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudBlobClient class using the specified Blob service endpoint and account credentials.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

### Visual Basic

Dim baseAddress As String
Dim credentials As StorageCredentials

Dim instance As New CloudBlobClient(baseAddress, credentials)
### Syntax

#### Visual Basic

```vbnet
Public Sub New (_
    baseAddress As String, _
    credentials As StorageCredentials _
)
```

#### C#

```csharp
public CloudBlobClient (_
    string baseAddress, _
    StorageCredentials credentials)
```

#### C++

```cpp
public:
CloudBlobClient (_
    String^ baseAddress, _
    StorageCredentials^ credentials)
```

#### J#

```jsharp
```

#### JScript

```jscript
```

### Parameters

**baseAddress**

Type: System.String

The Blob service endpoint to use to create the client.
credentials
Type: Microsoft.WindowsAzure.StorageCredentials

The account credentials.
The following code example creates a credentialed service client and uploads text content to a blob.

```csharp
static void UploadBlobFromFile(string blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a container, which may or may not exist.
    CloudBlobContainer container = blobClient.GetContainerReference("mycontainer");

    //Create a new container, if it does not exist.
    container.CreateIfNotExist();

    //Get a reference to a blob, which may or may not exist.
    CloudBlob blob = container.GetBlobReference("myfile.txt");

    //Upload content to the blob, which will create the blob if it does not already exist.
    blob.UploadFile("c:\myfile.txt");
}
```
Platforms

Development Platforms
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See Also

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CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient Constructor (Uri, StorageCredentials)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudBlobClient class using the specified Blob service endpoint and account credentials.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim baseUri As Uri
Dim credentials As StorageCredentials

Dim instance As New CloudBlobClient(baseUri, credentials)
```
Syntax

**Visual Basic**

Public Sub New ( _
    baseUri As Uri, _
    credentials As StorageCredentials _
)

**C#**

public CloudBlobClient ( 
    Uri baseUri, 
    StorageCredentials credentials
)

**C++**

public:

CloudBlobClient ( 
    Uri^ baseUri, 
    StorageCredentials^ credentials
)

**J#**


**JScript**


### Parameters

*baseUri*

Type: System.Uri

The Blob service endpoint to use to create the client.
credentials
Type: Microsoft.WindowsAzure.StorageCredentials

The account credentials.
Example

The following code example creates a credentialed service client and uploads text content to a blob.

```csharp
static void UploadBlobFromFileSync(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a container, which may or may not exist.
    CloudBlobContainer container = blobClient.GetContainerReference("mycontainer");

    //Create a new container, if it does not exist.
    container.CreateIfNotExist();

    //Get a reference to a blob, which may or may not exist.
    CloudBlob blob = container.GetBlobReference("myfile.txt");

    //Upload content to the blob, which will create the blob if it does not already exist.
    blob.UploadFile("c:\myfile.txt");
}
```
Platforms

Development Platforms
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See Also

Reference

CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Methods (see also Protected Methods)

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<td>Begins an asynchronous operation to get an account’s Blob service properties.</td>
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<tr>
<td><strong>BeginListBlobsWithPrefixSegmented</strong></td>
<td>Overloaded. Begins an asynchronous operation to return a result segment containing a collection of blob items whose names begin with the specified prefix.</td>
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<tr>
<td><strong>BeginListContainersSegmented</strong></td>
<td>Overloaded. Begins an asynchronous request to return a result segment containing a collection of containers.</td>
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<tr>
<td><strong>BeginSetServiceProperties</strong></td>
<td>Begins an asynchronous operation to set an account’s Blob service properties, including Windows Azure Storage Analytics.</td>
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<tr>
<td><strong>EndGetServiceProperties</strong></td>
<td>Ends an asynchronous operation to get an account’s Blob service properties.</td>
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</tr>
<tr>
<td><strong>Equals</strong></td>
<td>(Inherited from <strong>Object</strong>) Returns a reference to a</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td>GetBlobDirectoryReference</td>
<td>Returns a CloudBlobDirectory object with the specified address.</td>
</tr>
<tr>
<td>GetBlobReference</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>GetBlockBlob</td>
<td>This method is obsolete; use GetBlockBlobReference instead.</td>
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<tr>
<td>GetBlockBlobReference</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>GetContainerReference</td>
<td>Returns a reference to a CloudBlobContainer object with the specified address.</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetPageBlob</td>
<td>This method is obsolete; use GetPageBlobReference.</td>
</tr>
<tr>
<td>GetPageBlobReference</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>GetServiceProperties</td>
<td>Gets the properties of a storage account's Blob service, including Windows Azure Storage Analytics.</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ListBlobsWithPrefix</td>
<td>Returns an enumerable collection of blob items whose names begin with the specified prefix.</td>
</tr>
<tr>
<td>ListBlobsWithPrefixSegmented</td>
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<tr>
<td>ListContainersSegmented</td>
<td>Overloaded. Returns a result segment containing a collection of containers whose names begin with the specified prefix.</td>
</tr>
<tr>
<td>Set</td>
<td>Sets the properties of a storage account.</td>
</tr>
<tr>
<td><strong>SetServiceProperties</strong></td>
<td>account's Blob service, including Windows Azure Storage Analytics and default service version.</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
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</table>
## Protected Methods

<table>
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<tr>
<td>Finalize</td>
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<tr>
<td>MemberwiseClone</td>
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See Also

Reference
CloudBlobClient Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient.BeginGetServiceProperties Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to get an account’s Blob service properties.

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

**Visual Basic**

Dim instance As CloudBlobClient
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginGetServiceProperties(callback,...)
## Syntax

### Visual Basic

```vbnet
Public Function BeginGetServiceProperties ( _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginGetServiceProperties (  
    AsyncCallback callback,  
    Object state
)
```

### C++

```cpp
public:  
IAsyncResult^ BeginGetServiceProperties (  
    AsyncCallback^ callback,  
    Object^ state
)
```

### J#

```jsharp
```

### JScript

```
```

## Parameters

**callback**

Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.


**state**

Type: `System.Object`

A user-defined object that will be passed to the callback delegate.

**Return Value**

Returns `IAsyncResult`. 
Remarks

The local storage service currently does not support this method.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
ServiceProperties
CloudBlobClient.BeginListBlobsWithPrefixSegmented Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to return a result segment containing a collection of blob items whose names begin with the specified prefix.
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudBlobClient.BeginListBlobsWithPrefixSegmented(String, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to return a result segment containing a collection of blob items whose names begin with the specified prefix.</td>
</tr>
<tr>
<td><code>CloudBlobClient.BeginListBlobsWithPrefixSegmented(String, Int32, ResultContinuation, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to return a result segment containing a collection of blob items whose names begin with the specified prefix. Use this overload when you want to control the maximum number of results returned at a time, and when you want to use a continuation token to determine whether there are more results to return from the service after the current page completes.</td>
</tr>
</tbody>
</table>
See Also

Reference

CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
Begins an asynchronous operation to return a result segment containing a collection of blob items whose names begin with the specified prefix.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudBlobClient
Dim prefix As String
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginListBlobsWithPrefixSegmented
## Syntax

### Visual Basic

```vbnet
Public Function BeginListBlobsWithPrefixSegmented ( 
    prefix As String, 
    callback As AsyncCallback, 
    state As Object 
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginListBlobsWithPrefixSegmented ( 
    string prefix, 
    AsyncCallback callback, 
    Object state 
)
```

### C++

```cpp
public: 
IAsyncResult^ BeginListBlobsWithPrefixSegmented ( 
    String^ prefix, 
    AsyncCallback^ callback, 
    Object^ state 
)
```

### J#

```jsharp

```

### JScript

```javascript

```

## Parameters

- **prefix**
Type: **System.String**

The blob name prefix. This value must be preceded by the name of the container.

**callback**
Type: **System.AsyncCallback**

The callback delegate that will receive notification when the asynchronous operation completes.

**state**
Type: **System.Object**

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: **System.IAsyncResult**

An **IAsyncResult** that references the asynchronous operation.
The following sample code lists blobs in a container with an asynchronous operation. The blob prefix includes the name of the container and the beginning of the blob name.

```csharp
static void ListBlobsInSegmentsAsynchronously(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Begin the operation to return a page of up to 5000 blobs, passing the service client to the callback.
    blobClient.BeginListBlobsWithPrefixSegmented("lotsofblobs/0", ListBlobsInSegmentsCallback, blobClient);
}

static void ListBlobsInSegmentsCallback(IAsyncResult result)
{
    CloudBlobClient blobClient = (CloudBlobClient)result.AsyncState;

    //End the operation.
    ResultSegment<IListBlobItem> resultSegment = blobClient.EndListBlobsWithPrefixSegmented(result);

    //Enumerate the blob items.
    foreach (var blobItem in resultSegment.Results)
    {
        Console.WriteLine(blobItem.Uri);
    }

    //Check the continuation token to determine whether there are more results.
    if (resultSegment.ContinuationToken != null)
    {
        //Get the next result segment.
        resultSegment = resultSegment.GetNext();
    }
}
```
// Enumerate the blob items.
foreach (var blobItem in resultSegment.Results)
{
    Console.WriteLine(blobItem.Uri);
}
}
Remarks

The **BeginListBlobsWithPrefixSegmented** method begins an operation to list blobs in pages. A page is a set of results of a specified size; it is represented by the **ResultSegment** class. By returning blobs in pages, you can control the number of blobs returned per operation. This may be useful if, for example, you are displaying a web page with some predefined number of blobs on it.

To specify the page size to return, pass in a non-zero value for the **maxResults** parameter. Passing in zero for the **maxResults** parameter returns either the maximum number of results available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the **HasMoreResults** property to check whether the page is complete. If **HasMoreResults** is **true**, the complete page has not been returned for some reason. Call **GetNext** to return the remaining results in the page.

Note that if you have not specified a page size, **HasMoreResults** will always be **false**.

Check the value of the **ContinuationToken** property to determine whether there are more results to return from the service after the page is complete. The continuation token is non-null as long as there are more results to return from the service. If the page is complete, then **HasMoreResults** will be **false**, but if the continuation token is non-null, there are additional results to return beyond that page.

Call the **GetNext** method to return the next segment of results from the service.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient.BeginListBlobsWithPrefixSegmented Method (String, Int32, ResultContinuation, AsyncCallback, Object)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to return a result segment containing a collection of blob items whose names begin with the specified prefix. Use this overload when you want to control the maximum number of results returned at a time, and when you want to use a continuation token to determine whether there are more results to return from the service after the current page completes.

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

Visual Basic

Dim instance As CloudBlobClient
Dim prefix As String
Dim maxResults As Integer
Dim continuationToken As ResultContinuation
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginListBlobsWithPrefixSegmented
## Syntax

### Visual Basic

```vbnet
Public Function BeginListBlobsWithPrefixSegmented (_
    prefix As String, _
    maxResults As Integer, _
    continuationToken As ResultContinuation, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginListBlobsWithPrefixSegmented(
    string prefix,
    int maxResults,
    ResultContinuation continuationToken,
    AsyncCallback callback,
    Object state
)
```

### C++

```cpp
public:
IAsyncResult^ BeginListBlobsWithPrefixSegmented ( 
    String^ prefix,
    int maxResults,
    ResultContinuation^ continuationToken,
    AsyncCallback^ callback,
    Object^ state
)
```

### J#
**Parameters**

*prefix*
Type: System.String

The blob name prefix. This value must be preceded by the name of the container.

*maxResults*
Type: System.Int32

A non-negative integer value that indicates the maximum number of results to be returned at a time, up to the per-operation limit of 5000. If this value is zero, the maximum possible number of results will be returned.

*continuationToken*
Type: Microsoft.WindowsAzure.StorageClient.ResultContinuation

A continuation token returned by a previous listing operation.

*callback*
Type: System.AsyncCallback

The callback delegate that will receive notification when the asynchronous operation completes.

*state*
Type: System.Object

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
Example

The following sample code lists blobs in a container with an asynchronous operation. The blob prefix includes the name of the container and the beginning of the blob name.

```csharp
static void ListBlobsInSegmentsAsynchronously(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Begin the operation to return the first segment.
    blobClient.BeginListBlobsWithPrefixSegmented("lotsofblobs/0", ListBlobsInSegmentsCallback, blobClient);
}

static void ListBlobsInSegmentsCallback(IAsyncResult result)
{
    CloudBlobClient blobClient = (CloudBlobClient)result.AsyncState;

    //End the operation.
    ResultSegment<IListBlobItem> resultSegment = blobClient.EndListBlobsWithPrefixSegmented(result);

    //Enumerate the blob items.
    foreach (var blobItem in resultSegment.Results)
    {
        Console.WriteLine(blobItem.Uri);
    }

    //Check the continuation token to determine whether there are more results.
    if (resultSegment.ContinuationToken != null)
    {
        //Get the next result segment.
        resultSegment = resultSegment.GetNext();
    }
```
// Enumerate the blob items.
foreach (var blobItem in resultSegment.ResultSet)
{
    Console.WriteLine(blobItem.Uri);
}
}
Remarks

The **BeginListBlobsWithPrefixSegmented** method begins an operation to list blobs in pages. A page is a set of results of a specified size; it is represented by the **ResultSegment** class. By returning blobs in pages, you can control the number of blobs returned per operation. This may be useful if, for example, you are displaying a web page with some predefined number of blobs on it.

To specify the page size to return, pass in a non-zero value for the **maxResults** parameter. Passing in zero for the **maxResults** parameter returns either the maximum number of results available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the **HasMoreResults** property to check whether the page is complete. If **HasMoreResults** is **true**, the complete page has not been returned for some reason. Call **GetNext** to return the remaining results in the page.

Note that if you have not specified a page size, **HasMoreResults** will always be **false**.

Check the value of the **ContinuationToken** property to determine whether there are more results to return from the service after the page is complete. The continuation token is non-null as long as there are more results to return from the service. If the page is complete, then **HasMoreResults** will be **false**, but if the continuation token is non-null, there are additional results to return beyond that page.

Call the **GetNext** method to return the next segment of results from the service.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient.BeginListContainersSegmented Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous request to return a result segment containing a collection of containers.
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
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<tbody>
<tr>
<td><code>CloudBlobClient.BeginListContainersSegmented(AsyncCallback, Object)</code></td>
<td>Begins an asynchronous request to return a result segment containing a collection of containers.</td>
</tr>
<tr>
<td><code>CloudBlobClient.BeginListContainersSegmented(String, ContainerListingDetails, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous request to return a result segment containing a collection of containers with names that begin with the specified prefix, and with the specified set of details to include when listing the containers in this storage account.</td>
</tr>
<tr>
<td><code>CloudBlobClient.BeginListContainersSegmented(String, ContainerListingDetails, Int32, ResultContinuation, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous request to return a result segment containing a collection of containers with names that begin with the specified prefix, and with the specified set of details to include when listing the containers in this storage account. Use this overload when you want to control the maximum number of results returned at a time, and when you want to use a continuation token to determine whether there are more results to return from the service after the current page completes.</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td><code>CloudBlobClient.BeginListContainersSegmented(String, AsyncCallback, Object)</code></td>
<td>request to return a result segment containing a collection of containers whose names begin with the specified prefix.</td>
</tr>
</tbody>
</table>
See Also

Reference
- CloudBlobClient Class
- CloudBlobClient Members
- Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient.BeginListContainersSegmented Method (AsyncCallback, Object)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous request to return a result segment containing a collection of containers.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

### Visual Basic

```vbnet
Dim instance As CloudBlobClient
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginListContainersSegmented(callback)
```
## Syntax

### Visual Basic

```vbnet
Public Function BeginListContainersSegmented ( _
callback As AsyncCallback, _
state As Object _
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginListContainersSegmented ( 
AsyncCallback callback, 
Object state
)
```

### C++

```cpp
public: 
IAsyncResult^ BeginListContainersSegmented ( 
AsyncCallback^ callback, 
Object^ state
)
```

### J#

```xml
```

### JScript

```xml
```

### Parameters

`callback`  
Type: `System.AsyncCallback`  

The callback delegate that will receive notification when the asynchronous operation completes.
**state**

Type: [System.Object](https://docs.microsoft.com/en-us/dotnet/api/system.object)

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: [System.IAsyncResult](https://docs.microsoft.com/en-us/dotnet/api/system.iasyncresult)

An **IAsyncResult** that references the asynchronous operation.
Example

The following code sample lists containers in the storage account asynchronously, in result segments of ten containers at a time.

C#

```csharp
static void ListContainersInSegmentsAsynchronously(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Begin the operation to return the first segment of 10 containers in the account.
    blobClient.BeginListContainersSegmented(
        "", ContainerListingDetails.None, 10,
        listContainersInSegmentsCallback,
        blobClient);
}

static void ListContainersInSegmentsCallback(IAsyncResult result)
{
    CloudBlobClient blobClient = (CloudBlobClient)result.AsyncState;
    ResultSegment<CloudBlobContainer> resultSegment =
        blobClient.EndListContainersSegmented(result);

    // Enumerate the containers.
    foreach (var container in resultSegment.Results)
    {
        Console.WriteLine(container.Name);
    }

    // Check whether the page is complete.
    if (resultSegment.HasMoreResults)
    {
        resultSegment = resultSegment.GetNext();

        // Enumerate the containers.
        foreach (var container in resultSegment.Results)
        {
```
Console.WriteLine(container.Name);

} 

} 

}
Remarks

The BeginListContainersSegmented method begins an operation to list containers in pages. A page is set of results of a specified size; it is represented by the ResultSegment class. By returning containers in pages, you can control the number of containers returned per operation. This may be useful if, for example, you are displaying a web page with some predefined number of containers on it.

To specify the page size to return, pass in a non-zero value for the maxResults parameter. Passing in zero for the maxResults parameter returns either the maximum number of results available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the HasMoreResults property to check whether the page is complete. If HasMoreResults is true, the complete page has not been returned for some reason. Call GetNext to return the remaining results in the page.

Note that if you have not specified a page size, HasMoreResults will always be false.

Check the value of the ContinuationToken property to determine whether there are more results to return from the service after the page is complete. The continuation token is non-null as long as there are more results to return from the service. If the page is complete, then HasMoreResults will be false, but if the continuation token is non-null, there are additional results to return beyond that page.

Call the GetNext method to return the next segment of results from the service.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
Change History
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient.BEGINLISTCONTAINERSSEGMENTED Method (String, ContainerListingDetails, AsyncCallback, Object)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous request to return a result segment containing a collection of containers with names that begin with the specified prefix, and with the specified set of details to include when listing the containers in this storage account.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

| Dim instance As CloudBlobClient  |
| Dim prefix As String             |
| Dim detailsIncluded As ContainerListingDetails |
| Dim callback As AsyncCallback   |
| Dim state As Object              |
| Dim returnValue As IAsyncResult |

returnValue = instance.BeginListContainersSegmented(1)
<table>
<thead>
<tr>
<th>Syntax</th>
<th>Example</th>
</tr>
</thead>
</table>
| Visual Basic | Public Function BeginListContainersSegmented ( _
|            |    prefix As String, _
|            |    detailsIncluded As ContainerListingDetails, _
|            |    callback As AsyncCallback, _
|            |    state As Object _
|            | ) As IAsyncResult |
| C#       | public IAsyncResult BeginListContainersSegmented ( _
|            |    string prefix, _
|            |    ContainerListingDetails detailsIncluded, _
|            |    AsyncCallback callback, _
|            |    Object state _
| C++      | public: IAsyncResult^ BeginListContainersSegmented ( _
|            |    String^ prefix, _
|            |    ContainerListingDetails detailsIncluded, _
|            |    AsyncCallback^ callback, _
|            |    Object^ state _
| J#       | JScript |
**Parameters**

*prefix*
  Type: `System.String`
  The container name prefix.

*detailsIncluded*
  Type: `Microsoft.WindowsAzure.StorageClient.ContainerListingDetails`
  A value that indicates whether to return container metadata with the listing.

*callback*
  Type: `System.AsyncCallback`
  The callback delegate that will receive notification when the asynchronous operation completes.

*state*
  Type: `System.Object`
  A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the asynchronous operation.
Example

The following code sample lists containers in the storage account asynchronously, in result segments of ten containers at a time.

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
</table>
| ```csharp
static void ListContainersInSegmentsAsynchronously(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Begin the operation to return the first segment of 10 containers in the account.
    blobClient.BeginListContainersSegmented(
        "", ContainerListingDetails.None, 10, null, ListContainersInSegmentsCallback, blobClient);
}

static void ListContainersInSegmentsCallback(IAsyncResult result)
{
    CloudBlobClient blobClient = (CloudBlobClient)result.AsyncState;
    ResultSegment<CloudBlobContainer> resultSegment = blobClient.EndListContainersSegmented(result);

    //Enumerate the containers.
    foreach (var container in resultSegment.Results)
    {
        Console.WriteLine(container.Name);
    }

    //Check whether the page is complete.
    if (resultSegment.HasMoreResults)
    {
        resultSegment = resultSegment.GetNext();

        //Enumerate the containers.
        foreach (var container in resultSegment.Results)
        {
            Console.WriteLine(container.Name);
        }
    }
``` |
Remarks

The **BeginListContainersSegmented** method begins an operation to list containers in pages. A page is set of results of a specified size; it is represented by the **ResultSegment** class. By returning containers in pages, you can control the number of containers returned per operation. This may be useful if, for example, you are displaying a web page with some predefined number of containers on it.

To specify the page size to return, pass in a non-zero value for the **maxResults** parameter. Passing in zero for the **maxResults** parameter returns either the maximum number of results available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the **HasMoreResults** property to check whether the page is complete. If **HasMoreResults** is **true**, the complete page has not been returned for some reason. Call **GetNext** to return the remaining results in the page.

Note that if you have not specified a page size, **HasMoreResults** will always be **false**.

Check the value of the **ContinuationToken** property to determine whether there are more results to return from the service after the page is complete. The continuation token is non-null as long as there are more results to return from the service. If the page is complete, then **HasMoreResults** will be **false**, but if the continuation token is non-null, there are additional results to return beyond that page.

Call the **GetNext** method to return the next segment of results from the service.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference

CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient.BeginListContainersSegmented Method (String, ContainerListingDetails, Int32, ResultContinuation, AsyncCallback, Object)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous request to return a result segment containing a collection of containers with names that begin with the specified prefix, and with the specified set of details to include when listing the containers in this storage account. Use this overload when you want to control the maximum number of results returned at a time, and when you want to use a continuation token to determine whether there are more results to return from the service after the current page completes.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Visual Basic

Dim instance As CloudBlobClient  
Dim prefix As String  
Dim detailsIncluded As ContainerListingDetails  
Dim maxResults As Integer  
Dim continuationToken As ResultContinuation  
Dim callback As AsyncCallback  
Dim state As Object  
Dim returnValue As IAsyncResult  

returnValue = instance.BeginListContainersSegmented({
## Syntax

### Visual Basic

```vbnet
Public Function BeginListContainersSegmented (_
    prefix As String, _
    detailsIncluded As ContainerListingDetails, _
    maxResults As Integer, _
    continuationToken As ResultContinuation, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginListContainersSegmented ( string prefix,
    ContainerListingDetails detailsIncluded, int maxResults,
    ResultContinuation continuationToken, AsyncCallback callback,
    Object state
)
```

### C++

```cpp
public:
    IAsyncResult^ BeginListContainersSegmented ( 
        String^ prefix,
        ContainerListingDetails detailsIncluded, int maxResults,
        ResultContinuation^ continuationToken, AsyncCallback^ callback,
        Object^ state
    )
```
**Parameters**

*prefix*
Type: `System.String`

The container name prefix.

*detailsIncluded*
Type: `Microsoft.WindowsAzure.StorageClient.ContainerListingDetails`

A value that indicates whether to return container metadata with the listing.

*maxResults*
Type: `System.Int32`

A non-negative integer value that indicates the maximum number of results to be returned in the result segment, up to the per-operation limit of 5000. If this value is zero, the maximum possible number of results will be returned.

*continuationToken*
Type: `Microsoft.WindowsAzure.StorageClient.ResultContinuation`

A continuation token returned by a previous listing operation.

*callback*
Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.

*state*
Type: `System.Object`

A user-defined object that will be passed to the callback delegate.
**Return Value**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the asynchronous operation.
Example

The following code sample lists containers in the storage account asynchronously, in result segments of ten containers at a time.

```csharp
static void ListContainersInSegmentsAsynchronously(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Begin the operation to return the first segment of 10 containers in the account.
    blobClient.BeginListContainersSegmented(
        "", ContainerListingDetails.None, 10, null,
        ListContainersInSegmentsCallback, blobClient);
}

static void ListContainersInSegmentsCallback(IAsyncResult result)
{
    CloudBlobClient blobClient = (CloudBlobClient)result.AsyncState;
    ResultSegment<CloudBlobContainer> resultSegment = blobClient.EndListContainersSegmented(result);

    //Enumerate the containers.
    foreach (var container in resultSegment.Results)
    {
        Console.WriteLine(container.Name);
    }

    //Check whether the page is complete.
    if (resultSegment.HasMoreResults)
    {
        resultSegment = resultSegment.GetNext();

        //Enumerate the containers.
        foreach (var container in resultSegment.Results)
        {
```
Console.WriteLine(container.Name);
    }

}
Remarks

The **BeginListContainersSegmented** method begins an operation to list containers in pages. A page is set of results of a specified size; it is represented by the **ResultSegment** class. By returning containers in pages, you can control the number of containers returned per operation. This may be useful if, for example, you are displaying a web page with some predefined number of containers on it.

To specify the page size to return, pass in a non-zero value for the **maxResults** parameter. Passing in zero for the **maxResults** parameter returns either the maximum number of results available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the **HasMoreResults** property to check whether the page is complete. If **HasMoreResults** is **true**, the complete page has not been returned for some reason. Call **GetNext** to return the remaining results in the page.

Note that if you have not specified a page size, **HasMoreResults** will always be **false**.

Check the value of the **ContinuationToken** property to determine whether there are more results to return from the service after the page is complete. The continuation token is non-null as long as there are more results to return from the service. If the page is complete, then **HasMoreResults** will be **false**, but if the continuation token is non-null, there are additional results to return beyond that page.

Call the **GetNext** method to return the next segment of results from the service.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
Begins an asynchronous request to return a result segment containing a collection of containers whose names begin with the specified prefix.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudBlobClient
Dim prefix As String
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginListContainersSegmented()
```
### Syntax

#### Visual Basic

<table>
<thead>
<tr>
<th>Public Function BeginListContainersSegmented ( prefix As String, callback As AsyncCallback, state As Object ) As IAsyncResult</th>
</tr>
</thead>
</table>

#### C#

<table>
<thead>
<tr>
<th>public IAsyncResult BeginListContainersSegmented ( string prefix, AsyncCallback callback, Object state )</th>
</tr>
</thead>
</table>

#### C++

<table>
<thead>
<tr>
<th>public: IAsyncResult^ BeginListContainersSegmented ( String^ prefix, AsyncCallback^ callback, Object^ state )</th>
</tr>
</thead>
</table>

#### J#

|---|

#### JScript

|---|

### Parameters

- **prefix**
Type: System.String

The container name prefix.

*callback*

Type: System.AsyncCallback

The callback delegate that will receive notification when the asynchronous operation completes.

*state*

Type: System.Object

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
The following code sample lists containers in the storage account asynchronously, in result segments of ten containers at a time.

```csharp
static void ListContainersInSegmentsAsynchronously(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Begin the operation to return the first segment of 10 containers in the account.
    blobClient.BeginListContainersSegmented(
        "", ContainerListingDetails.None,
        10,
        null,
        ListContainersInSegmentsCallback,
        blobClient);
}

static void ListContainersInSegmentsCallback(IAsyncResult result)
{
    CloudBlobClient blobClient = (CloudBlobClient)result.AsyncState;
    ResultSegment<CloudBlobContainer> resultSegment =
        blobClient.EndListContainersSegmented(result);

    //Enumerate the containers.
    foreach (var container in resultSegment.Results)
    {
        Console.WriteLine(container.Name);
    }

    //Check whether the page is complete.
    if (resultSegment.HasMoreResults)
    {
        resultSegment = resultSegment.GetNext();

        //Enumerate the containers.
        foreach (var container in resultSegment.Results)
        {
```
Console.WriteLine(container.Name);
**Remarks**

The **BeginListContainersSegmented** method begins an operation to list containers in pages. A page is set of results of a specified size; it is represented by the **ResultSegment** class. By returning containers in pages, you can control the number of containers returned per operation. This may be useful if, for example, you are displaying a web page with some predefined number of containers on it.

To specify the page size to return, pass in a non-zero value for the `maxResults` parameter. Passing in zero for the `maxResults` parameter returns either the maximum number of results available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the `HasMoreResults` property to check whether the page is complete. If `HasMoreResults` is `true`, the complete page has not been returned for some reason. Call `GetNext` to return the remaining results in the page.

Note that if you have not specified a page size, `HasMoreResults` will always be `false`.

Check the value of the `ContinuationToken` property to determine whether there are more results to return from the service after the page is complete. The continuation token is non-null as long as there are more results to return from the service. If the page is complete, then `HasMoreResults` will be `false`, but if the continuation token is non-null, there are additional results to return beyond that page.

Call the `GetNext` method to return the next segment of results from the service.
_thread safety_

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to set an account’s Blob service properties, including Windows Azure Storage Analytics.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudBlobClient
Dim properties As ServiceProperties
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginSetServiceProperties(properties...
## Syntax

### Visual Basic

```vbnet
Public Function BeginSetServiceProperties ( _
    properties As ServiceProperties, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginSetServiceProperties ( 
    ServiceProperties properties, 
    AsyncCallback callback, 
    Object state 
)
```

### C++

```cpp
public: 
    IAsyncResult^ BeginSetServiceProperties ( 
        ServiceProperties^ properties, 
        AsyncCallback^ callback, 
        Object^ state 
    )
```

### J#

```csharp
```

### JScript

```csharp
```

### Parameters

- `properties`
The Blob service settings to set.

**callback**
Type: [System.AsyncCallback](https://docs.microsoft.com/en-us/dotnet/api/system.asynccallback)

The callback delegate that will receive notification when the asynchronous operation completes.

**state**
Type: [System.Object](https://docs.microsoft.com/en-us/dotnet/api/system.object)

A user-defined object that will be passed to the callback delegate.

**Return Value**

Remarks

The *properties* parameter specifies the logging, metrics, and default service version settings for the account’s Blob service.

The local storage service currently does not support this method.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
ServiceProperties
CloudBlobClient.EndGetServiceProperties Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to get an account’s Blob service properties.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlobClient
Dim asyncResult As IAsyncResult
Dim returnValue As ServiceProperties

returnValue = instance.EndGetServiceProperties(asyncResult)
```
## Syntax

### Visual Basic

```
Public Function EndGetServiceProperties ( _
    asyncResult As IAsyncResult _
) As ServiceProperties
```

### C#

```
public ServiceProperties EndGetServiceProperties ( IAsyncResult asyncResult
```

### C++

```
public:
ServiceProperties^ EndGetServiceProperties ( IAsyncResult^ asyncResult
```

### J#

```
```

### JScript

```
```

## Parameters

- **asyncResult**
  - Type: `System.IAsyncResult`
  - An `IAsyncResult` that references the pending asynchronous operation.

## Return Value

Returns `ServiceProperties`. 
Remarks

The local storage service currently does not support this method.
- **Thread Safety**
  
  Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
ServiceProperties
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to return a result segment containing a collection of blob items whose names begin with the specified prefix.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudBlobClient
Dim asyncResult As IAsyncResult
Dim returnValue As ResultSegment(Of IListBlobItem)

returnValue = instance.EndListBlobsWithPrefixSegmented
## Syntax

### Visual Basic

```vbnet
Public Function EndListBlobsWithPrefixSegmented (_
    asyncResult As IAsyncResult _
) As ResultSegment(Of IListBlobItem)
```

### C#

```csharp
public ResultSegment<IListBlobItem> EndListBlobsWithPrefixSegmented(
    IAsyncResult asyncResult
)
```

### C++

```cpp
public:
    ResultSegment<IListBlobItem^>^ EndListBlobsWithPrefixSegmented(
    IAsyncResult^ asyncResult
)
```

### J#

```jsharp```

### JScript

```jscript```

## Parameters

**asyncResult**

Type: **System.IAsyncResult**

An **IAsyncResult** that references the pending asynchronous operation.

## Return Value
Type: Microsoft.WindowsAzure.StorageClient.ResultSegment

A result segment containing objects that implement **IListBlobItem**.
Example

The following sample code lists blobs in a container with an asynchronous operation. The blob prefix includes the name of the container and the beginning of the blob name.

```csharp
static void ListBlobsInSegmentsAsynchronously(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Begin the operation to return a page of up to 5000 blobs, passing the service client to the callback.
    blobClient.BeginListBlobsWithPrefixSegmented("lotsofblobs/0", ListBlobsInSegmentsCallback, blobClient);
}

static void ListBlobsInSegmentsCallback(IAsyncResult result)
{
    CloudBlobClient blobClient = (CloudBlobClient)result.AsyncState;

    //End the operation.
    ResultSegment<IListBlobItem> resultSegment = blobClient.EndListBlobsWithPrefixSegmented(result);

    //Enumerate the blob items.
    foreach (var blobItem in resultSegment.Results)
    {
        Console.WriteLine(blobItem.Uri);
    }

    //Check the continuation token to determine whether there are more results.
    if (resultSegment.ContinuationToken != null)
    {
        //Get the next result segment.
        resultSegment = resultSegment.GetNext();
    }
```
//Enumerate the blob items.
foreach (var blobItem in resultSegment.Results)
{
    Console.WriteLine(blobItem.Uri);
}
Remarks

This method blocks until the listing operation is complete.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient.EndListContainersSegmented Method

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to return a result segment containing a collection of containers.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

Dim instance As CloudBlobClient
Dim asyncResult As IAsyncResult
Dim returnValue As ResultSegment(Of CloudBlobContainer)

returnValue = instance.EndListContainersSegmented(asyncResult)
Syntax

Visual Basic

Public Function EndListContainersSegmented ( _
    asyncResult As IAsyncResult _
) As ResultSegment(Of CloudBlobContainer)

C#

public ResultSegment<CloudBlobContainer> EndListContainersSegmented ( IAsyncResult asyncResult )

C++

public: 
ResultSegment<CloudBlobContainer> EndListContainersSegmented ( IAsyncResult asyncResult )

J#

JScript

Parameters

asyncResult
Type: System.IAsyncResult

An IAsyncResult that references the pending asynchronous operation.

Return Value
Type: Microsoft.WindowsAzure.StorageClient.ResultSegment

A result segment of containers.
Example

The following code sample lists containers in the storage account asynchronously, in result segments of ten containers at a time.

```csharp
static void ListContainersInSegmentsAsynchronously(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Begin the operation to return the first segment of 10 containers in the account.
    blobClient.BeginListContainersSegmented(
        null, ContainerListingDetails.None, 10, null,
        ListContainersInSegmentsCallback, blobClient);
}

static void ListContainersInSegmentsCallback(IAsyncResult result)
{
    CloudBlobClient blobClient = (CloudBlobClient)result.AsyncState;
    ResultSegment<CloudBlobContainer> resultSegment =
        blobClient.EndListContainersSegmented(result);

    //Enumerate the containers.
    foreach (var container in resultSegment.Results)
    {
        Console.WriteLine(container.Name);
    }

    //Check whether the page is complete.
    if (resultSegment.HasMoreResults)
    {
        resultSegment = resultSegment.GetNext();
        //Enumerate the containers.
        foreach (var container in resultSegment.Results)
        {
```
Console.WriteLine(container.Name);
}
}
Remarks

This method blocks until the listing operation is complete.
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient.EndSetServiceProperties Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to set an account’s Blob service properties.

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

Visual Basic

Dim instance As CloudBlobClient
Dim asyncResult As IAsyncResult

instance.EndSetServiceProperties(asyncResult)
Syntax

Visual Basic

Public Sub EndSetServiceProperties ( _
    asyncResult As IAsyncResult _
)

C#

public void EndSetServiceProperties (  
    IAsyncResult asyncResult  
)

C++

public:
    void EndSetServiceProperties (  
    IAsyncResult^ asyncResult  
)

J#

JScript

Parameters

asyncResult
Type: System.IAsyncResult

An IAsyncResult that references the pending asynchronous operation.
Remarks

The local storage service currently does not support this method.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
ServiceProperties
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a reference to a CloudBlobDirectory object with the specified address.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

#### Visual Basic

```vbnet
Dim instance As CloudBlobClient
Dim blobDirectoryAddress As String
Dim returnValue As CloudBlobDirectory

returnValue = instance.GetBlobDirectoryReference(blobDirectoryAddress)
```
### Syntax

#### Visual Basic

Public Function GetBlobDirectoryReference ( _
    blobDirectoryAddress As String _
) As CloudBlobDirectory

#### C#

```csharp
public CloudBlobDirectory GetBlobDirectoryReference ( 
    string blobDirectoryAddress 
)
```

#### C++

```cpp
public:
CloudBlobDirectory^ GetBlobDirectoryReference ( 
    String^ blobDirectoryAddress 
)
```

#### J#

#### JScript

### Parameters

(blobDirectoryAddress
  
Type: System.String

The absolute URI to the directory, or a relative URI beginning with the container name.

### Return Value

A reference to a blob directory.
Example

The following example gets a reference to a blob directory, then lists the blobs beneath it. The listing is carried out in two ways. In the first case, blobs are listed hierarchically. The result of the hierarchical listing contains only the blobs and blob directories that lie directly beneath the specified blob directory. A hierarchical listing is the default approach. The listing approach is determined by the value of the `UseFlatBlobListing` property; by default, this property is set to `false`.

In the second case, `UseFlatBlobListing` is explicitly set to `true`. A flat blob listing ignores the virtual hierarchy, so that all blobs beneath the blob directory are included in the listing.

```csharp
static void ListBlobsInDirectory(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a blob directory in a container.
    CloudBlobDirectory blobDir = blobClient.GetBlobDirectoryReference("mycontainer/a/b/");

    //List blobs and directories in this blob directory hierarchically.
    foreach (var blobItem in blobDir.ListBlobs())
    {
        Console.WriteLine(blobItem.Uri);
    }
    Console.WriteLine();

    //List blobs in this blob directory using a flat listing.
    BlobRequestOptions options = new BlobRequestOptions();
    options.UseFlatBlobListing = true;
    foreach (var blobItem in blobDir.ListBlobs(options))
    {
```
Console.WriteLine(blobItem.Uri);
}
Remarks

A blob directory simplifies working with a hierarchical organization of blobs. A blob directory is a blob name prefix that can be used to navigate a hierarchy. The prefix may end in a delimiter character, but a delimiter is not required; the directory can end in any character.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources

Naming and Referencing Containers, Blobs, and Metadata
CloudBlobClient.GetBlobReference Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudBlobClient.GetBlobReference(String)</code></td>
<td>Returns a reference to a <a href="#">CloudBlob</a> with the specified address.</td>
</tr>
<tr>
<td><code>CloudBlobClient.GetBlobReference(String, Nullable)</code></td>
<td>Returns a reference to a blob with the specified address, and with the specified snapshot timestamp, if the blob is a snapshot.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Naming and Referencing Containers, Blobs, and Metadata
Returns a reference to a `CloudBlob` with the specified address.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlobClient
Dim blobAddress As String
Dim returnValue As CloudBlob

returnValue = instance.GetBlobReference(blobAddress)
```
## Syntax

### Visual Basic

Public Function GetBlobReference ( _
    blobAddress As String _
) As CloudBlob

### C#

public CloudBlob GetBlobReference (  
    string blobAddress
)

### C++

public:
CloudBlob^ GetBlobReference (  
    String^ blobAddress
)

### J#


### JScript


## Parameters

*blobAddress*

Type: System.String

The absolute URI to the blob, or a relative URI beginning with the container name.

## Return Value
Type: `Microsoft.WindowsAzure.StorageClient.CloudBlob`

A reference to a blob.
Example

The following example shows two ways to call the **GetBlobReference** method.

```csharp
//Get a reference to a blob using a relative address.
CloudBlob publicBlob = publicClient.GetBlobReference("mypubliccontainer/publicBlob.txt");

//Get a reference to a blob using an absolute address.
CloudBlob publicBlob = publicClient.GetBlobReference("https://storagesample.blob.core.windows.net/mypubliccontainer/publicBlob.txt");
```
Remarks

The **GetBlobReference** method returns a reference to the named blob, but it does not indicate whether the blob exists, as it does not make a round-trip to the service. If you need to ascertain the blob's existence, call a method such as **FetchAttributes**, and handle the resulting **StorageClientException** in the event the blob does not exist. The **FetchAttributes** method executes a HEAD request to populate the blob's properties and metadata and as such is a lightweight option for determining whether the blob exists.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Naming and Referencing Containers, Blobs, and Metadata
CloudBlobClient.GetBlobReference Method (String, Nullable)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a reference to a blob with the specified address, and with the specified snapshot timestamp, if the blob is a snapshot.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlobClient
Dim blobAddress As String
Dim snapshotTime As Nullable(Of DateTime)
Dim returnValue As CloudBlob

returnValue = instance.GetBlobReference(blobAddress,
```

## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Public Function GetBlobReference ( _
  blobAddress As String, _
  snapshotTime As Nullable(Of DateTime) _
) As CloudBlob |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public CloudBlob GetBlobReference (</td>
</tr>
</tbody>
</table>
  string blobAddress, |
  Nullable<DateTime> snapshotTime |
) |

<table>
<thead>
<tr>
<th>C++</th>
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<tbody>
<tr>
<td>public:</td>
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<tr>
<td>CloudBlob^ GetBlobReference (</td>
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</table>
  String^ blobAddress, |
  Nullable<DateTime> snapshotTime |
) |

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<tr>
<th>J#</th>
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</table>

<table>
<thead>
<tr>
<th>JScript</th>
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</thead>
</table>

## Parameters

**blobAddress**

Type: System.String

The absolute URI to the blob, or a relative URI beginning with the containe name.
**snapshotTime**
Type: **System.Nullable**

The snapshot timestamp, if the blob is a snapshot.

**Return Value**
Type: **Microsoft.WindowsAzure.StorageClient.CloudBlob**

A reference to a blob.
Example

The following code example demonstrates how to get a blob snapshot using the `GetBlobReference(String, Generic Nullable)` method to revert changes to a blob.

```csharp
static void SnapshotExample(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint,
        new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Get a reference to a blob and populate it with example data.
    CloudBlob myBlob = blobClient.GetBlobReference("mycontainer/myblob.txt");
    myBlob.UploadText("Example data.");

    // Create a snapshot of the blob.
    CloudBlob blobSnapshot1 = myBlob.CreateSnapshot();

    // Modify the example blob with a change to be reverted.
    myBlob.UploadText("Example change to be discarded.");

    // Revert the change by copying the contents of the snapshot blob back into the original.
}
```
Remarks

The **GetBlobReference** method returns a reference to the named blob, but it does not indicate whether the blob exists, as it does not make a round-trip to the service. If you need to ascertain the blob's existence, call a method such as **FetchAttributes**, and handle the resulting **StorageClientException** in the event the blob does not exist. The **FetchAttributes** method executes a HEAD request to populate the blob's properties and metadata and as such is a lightweight option for determining whether the blob exists.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient.GetBlockBlob Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

This method is obsolete; use GetBlockBlobReference instead.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As CloudBlobClient
Dim blobAddress As String
Dim returnValue As CloudBlockBlob

returnValue = instance.GetBlockBlob(blobAddress)
```
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
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<tbody>
<tr>
<td><code>&lt;ObsoleteAttribute&gt;</code> _</td>
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<tr>
<td><code>&lt;EditorBrowsableAttribute(EditorBrowsableState.Never)</code></td>
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<tr>
<td>Public Function GetBlockBlob ( _</td>
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<td>) As CloudBlockBlob</td>
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<th>JScript</th>
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</table>

**Parameters**

blobAddress
Type: `System.String`

The absolute URI to the blob, or a relative URI beginning with the container name.

**Return Value**

Type: `Microsoft.WindowsAzure.StorageClient.CloudBlockBlob`

A reference to a block blob.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Naming and Referencing Containers, Blobs, and Metadata
CloudBlobClient.GetBlockBlobReference Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

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<th>Description</th>
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<tr>
<td>CloudBlobClient.GetBlockBlobReference(String)</td>
<td>Returns a reference to a CloudBlobBlob with the specified address.</td>
</tr>
<tr>
<td>CloudBlobClient.GetBlockBlobReference(String, Nullable)</td>
<td>Returns a reference to a CloudBlobBlob with the specified address, and with the specified snapshot timestamp, if the blob is a snapshot.</td>
</tr>
</tbody>
</table>
See Also

Reference

CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
Returns a reference to a CloudBlockBlob with the specified address.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlobClient
Dim blobAddress As String
Dim returnValue As CloudBlockBlob

returnValue = instance.GetBlockBlobReference(blobAddress)
```
## Syntax

### Visual Basic

```vbnet
Public Function GetBlockBlobReference ( __
    blobAddress As String __
) As CloudBlockBlob
```

### C#

```csharp
public CloudBlockBlob GetBlockBlobReference ( 
    string blobAddress
)
```

### C++

```cpp
public:
    CloudBlockBlob^ GetBlockBlobReference ( 
        String^ blobAddress
    )
```

### J#

```jsharp```

```jscript```

### Parameters

**blobAddress**

Type: `System.String`

The absolute URI to the blob, or a relative URI beginning with the container name.

### Return Value
Type: `Microsoft.WindowsAzure.StorageClient.CloudBlockBlob`

A reference to a block blob.
Remarks

This method returns a reference to the named block blob, but it does not indicate whether the blob exists, as it does not make a round-trip to the service. If you need to ascertain the blob's existence, call a method such as `FetchAttributes`, and handle the resulting `StorageClientException` in the event the blob does not exist. The `FetchAttributes` method executes a HEAD request to populate the blob's properties and metadata and as such is a lightweight option for determining whether the blob exists.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient.GetBlockBlobReference Method (String, Nullable)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a reference to a CloudBlockBlob with the specified address, and with the specified snapshot timestamp, if the blob is a snapshot.

Namespace: Microsoft.WindowsAzure.StorageClient
## Usage

### Visual Basic

Dim instance As **CloudBlobClient**
Dim blobAddress As **String**
Dim snapshotTime As **Nullable(Of DateTime)**
Dim returnValue As **CloudBlockBlob**

returnValue = instance.GetBlockBlobReference(blobAddress)
## Syntax

### Visual Basic

```vbnet
Public Function GetBlockBlobReference ( _
    blobAddress As String, _
    snapshotTime As Nullable(Of DateTime) _
) As CloudBlockBlob
```

### C#

```csharp
public CloudBlockBlob GetBlockBlobReference (  
    string blobAddress,  
    Nullable<DateTime> snapshotTime
)
```

### C++

```cpp
public:  
CloudBlockBlob GetBlockBlobReference (  
    String^ blobAddress,  
    Nullable<DateTime> snapshotTime
)
```

### J#

```javascript
```

### JScript

```javascript
```

## Parameters

- **blobAddress**
  - Type: `System.String`

  The absolute URI to the blob, or a relative URI beginning with the container name.
**snapshotTime**
Type: [System.Nullable](https://docs.microsoft.com/en-us/dotnet/api/system.nullable)

The snapshot timestamp, if the blob is a snapshot.

**Return Value**

A reference to a block blob.
Remarks

The `GetBlockBlobReference` method returns a reference to the named block blob, but it does not indicate whether the blob exists, as it does not make a round-trip to the service. If you need to ascertain the blob's existence, call a method such as `FetchAttributes`, and handle the resulting `StorageClientException` in the event the blob does not exist. The `FetchAttribute` method executes a HEAD request to populate the blob's properties and metadata and as such is a lightweight option for determining whether the blob exists.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
See Also

Reference
CloudBlobClient Class  
CloudBlobClient Members  
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient.GetContainerReference Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a reference to a CloudBlobContainer object with the specified address.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlobClient
Dim containerAddress As String
Dim returnValue As CloudBlobContainer

returnValue = instance.GetContainerReference(containerAddress)
```
**Syntax**

**Visual Basic**

```vbnet
Public Function GetContainerReference ( _
    containerAddress As String _
) As CloudBlobContainer
```

**C#**

```csharp
public CloudBlobContainer GetContainerReference ( _
    string containerAddress
)
```

**C++**

```cpp
public:
    CloudBlobContainer^ GetContainerReference ( _
        String^ containerAddress
    )
```

**J#**

```jsharp```

**JScript**

```jscript```

**Parameters**

containerAddress  
Type: `System.String`

The name of the container, or an absolute URI to the container.

**Return Value**

Type: `Microsoft.WindowsAzure.StorageClient.CloudBlobContainer`
A reference to a container.
Remarks

The **GetContainerReference** method returns a reference to the named container, but it does not indicate whether the container exists, as it does not make a round trip to the service. If you need to ascertain the existence of the container, call a method such as **FetchAttributes**, and handle the resulting **StorageClientException** in the event the blob does not exist. The **FetchAttribute** method executes a HEAD request to populate the properties and metadata of the blob and as such is a lightweight option for determining whether the blob exists.

Note

When you specify a container name in the parameter, you must be aware of the character limitations related to container names. For more information, see [Naming and Referencing Containers, Blobs, and Metadata](#).
Thread Safety

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Naming and Referencing Containers, Blobs, and Metadata
CloudBlobClient.GetPageBlob Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

This method is obsolete; use GetPageBlobReference.

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

Visual Basic

Dim instance As CloudBlobClient
Dim blobAddress As String
Dim returnValue As CloudPageBlob

returnValue = instance.GetPageBlob(blobAddress)
## Syntax

### Visual Basic

```vbnet
<EditorBrowsableAttribute(EditorBrowsableState.Never)>
<ObsoleteAttribute>
Public Function GetPageBlob ( _
    blobAddress As String _
) As CloudPageBlob
```

### C#

```csharp
[EditorBrowsableAttribute(EditorBrowsableState.Never)]
[ObsoleteAttribute]
public CloudPageBlob GetPageBlob ( 
    string blobAddress
)
```

### C++

```cpp
[EditorBrowsableAttribute(EditorBrowsableState::Never)]
[ObsoleteAttribute]
public:
CloudPageBlob^ GetPageBlob ( 
    String^ blobAddress
)
```

### J#

```
```

### JScript

```
```

## Parameters

- `blobAddress`
Type: `System.String`

The absolute URI to the blob, or a relative URI beginning with the containe name.

**Return Value**

Type: `Microsoft.WindowsAzure.StorageClient.CloudPageBlob`

A reference to a page blob.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Naming and Referencing Containers, Blobs, and Metadata
CloudBlobClient.GetPageBlobReference Method

See Also

This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
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<tbody>
<tr>
<td><code>CloudBlobClient.GetPageBlobReference(String)</code></td>
<td>Returns a reference to a <a href="#">CloudPageBlob</a> object with the specified address.</td>
</tr>
<tr>
<td><code>CloudBlobClient.GetPageBlobReference(String, Nullable)</code></td>
<td>Returns a reference to a <a href="#">CloudPageBlob</a> object with the specified address, and with the specified snapshot timestamp, if the blob is a snapshot.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient.GetPageBlobReference Method (String)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a reference to a CloudPageBlob object with the specified address.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As CloudBlobClient
Dim blobAddress As String
Dim returnValue As CloudPageBlob

returnValue = instance.GetPageBlobReference(blobAddress)
### Syntax

#### Visual Basic

Public Function GetPageBlobReference ( _
    blobAddress As String _
) As CloudPageBlob

#### C#

public CloudPageBlob GetPageBlobReference (  
    string blobAddress
)

#### C++

public:
CloudPageBlob^ GetPageBlobReference (  
    String^ blobAddress
)

#### J#


#### JScript


### Parameters

**blobAddress**

Type: System.String

The absolute URI to the blob, or a relative URI beginning with the containe name.

### Return Value
Type: `Microsoft.WindowsAzure.StorageClient.CloudPageBlob`

A reference to a page blob.
Remarks

This method returns a reference to the named page blob, but it does not indicate whether the blob exists, as it does not make a round-trip to the service. If you need to ascertain the blob's existence, call a method such as FetchAttributes, and handle the resulting StorageClientException in the event the blob does not exist. The FetchAttributes method executes a HEAD request to populate the blob's properties and metadata and as such is a lightweight option for determining whether the blob exists.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient.GetPageBlobReference Method (String, Nullable)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a reference to a CloudPageBlob object with the specified address, and with the specified snapshot timestamp, if the blob is a snapshot.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbc
Dim instance As CloudBlobClient
Dim blobAddress As String
Dim snapshotTime As Nullable(Of DateTime)
Dim returnValue As CloudPageBlob

returnValue = instance.GetPageBlobReference(blobAddress)
```
## Syntax

### Visual Basic

```vbnet
Public Function GetPageBlobReference ( _
    blobAddress As String, _
    snapshotTime As Nullable(Of DateTime) _) _
) As CloudPageBlob
```

### C#

```csharp
public CloudPageBlob GetPageBlobReference (string blobAddress,
                                         Nullable<DateTime> snapshotTime)
```

### C++

```cpp
public:
CloudPageBlob^ GetPageBlobReference (String^ blobAddress,
                                       Nullable<DateTime> snapshotTime)
```

### J#

```
JScript
```

### Parameters

**blobAddress**

Type: `System.String`

The absolute URI to the blob, or a relative URI beginning with the containe name.
**snapshotTime**

Type: `System.Nullable`

The snapshot timestamp, if the blob is a snapshot.

**Return Value**

Type: `Microsoft.WindowsAzure.StorageClient.CloudPageBlob`

A reference to a page blob.
Remarks

The GetPageBlobReference method returns a reference to the named page blob but it does not indicate whether the blob exists, as it does not make a round-trip to the service. If you need to ascertain the blob's existence, call a method such as FetchAttributes, and handle the resulting StorageClientException in the event the blob does not exist. The FetchAttributes method executes a HEAD request to populate the blob's properties and metadata and as such is a lightweight option for determining whether the blob exists.
### Thread Safety

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
Gets the properties of a storage account’s Blob service, including Windows Azure Storage Analytics.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

### Visual Basic

```vbscript
Dim instance As CloudBlobClient
Dim returnValue As ServiceProperties

returnValue = instance.GetServiceProperties
```
## Syntax

**Visual Basic**

Public Function GetServiceProperties As ServiceProperties

**C#**

public ServiceProperties GetServiceProperties()

**C++**

public: ServiceProperties^ GetServiceProperties()

**J#**

**JScript**

### Return Value

Returns a [ServiceProperties](#) object that specifies the account’s Blob service settings.
Remarks

The local storage service currently does not support this method.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
ServiceProperties
CloudBlobClient.ListBlobsWithPrefix Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns an enumerable collection of blob items whose names begin with the specified prefix.
### Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CloudBlobClient.ListBlobsWithPrefix(String)</strong></td>
<td>Returns an enumerable collection of blob items whose names begin with the specified prefix and that are retrieved lazily.</td>
</tr>
<tr>
<td><strong>CloudBlobClient.ListBlobsWithPrefix(String, BlobRequestOptions)</strong></td>
<td>Returns an enumerable collection of blob items whose names begin with the specified prefix, that are retrieved lazily, using a conditional request based on the <strong>BlobRequestOptions</strong> that you specify.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient.ListBlobsWithPrefix Method (String)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns an enumerable collection of blob items whose names begin with the specified prefix and that are retrieved lazily.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

Dim instance As CloudBlobClient
Dim prefix As String
Dim returnValue As IEnumerable(Of IListBlobItem)

returnValue = instance.ListBlobsWithPrefix(prefix)
**Parameters**

*prefix*

Type: `System.String`

The blob name prefix. This value must be preceded by the name of the container.

**Return Value**
Type: System.Collections.Generic.IEnumerable

An enumerable collection of objects that implement IListBlobItem.
Example
The following code example lists blobs beginning with a specified prefix. Note
that the prefix must include the name of the container.
C#

static void ListBlobsInVirtualDirectory(Uri blobEndpoint, str
{
//Create service client for credentialed access to the Bl
CloudBlobClient blobClient =
new CloudBlobClient(blobEndpoint, new StorageCredenti

//List blobs in container 'mycontainer' beginning with pr
//The results list only blobs directly beneath 'mycontain
foreach (var blobItem in blobClient.ListBlobsWithPrefix("
{
Console.WriteLine(blobItem.Uri);
}

//Results similar to:
//http://storagesample.blob.core.windows.net/mycontainer/
//http://storagesample.blob.core.windows.net/mycontainer/
Console.WriteLine();

//List blobs in container 'mycontainer' beginning with pr
//The results list all blobs beneath 'mycontainer/a/', ev
BlobRequestOptions options = new BlobRequestOptions();
options.UseFlatBlobListing = true;
foreach (var blobItem in blobClient.ListBlobsWithPrefix("
{
Console.WriteLine(blobItem.Uri);
}

//Results similar to:
//http://storagesample.blob.core.windows.net/mycontainer/


Remarks

The types of objects returned by the `ListBlobsWithPrefix` method depend on the type of listing that is being performed. If the `UseFlatBlobListing` property is set to `true`, `ListBlobsWithPrefix` will return an enumerable collection of `CloudBlob` objects. If `UseFlatBlobListing` is set to `false` (the default value), the listing may return a collection containing `CloudBlob` objects and `CloudBlobDirectory` objects. The latter case provides a convenience for subsequent enumerations over a virtual blob hierarchy.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference

CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns an enumerable collection of blob items whose names begin with the specified prefix, that are retrieved lazily, using a conditional request based on the BlobRequestOptions that you specify.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As CloudBlobClient
Dim prefix As String
Dim options As BlobRequestOptions
Dim returnValue As IEnumerable(Of IListBlobItem)

returnValue = instance.ListBlobsWithPrefix(prefix, options)
**Parameters**

- **prefix**
  - Type: `System.String`

  The blob name prefix. This value must be preceded by the name of the
container.

*options*
Type: `Microsoft.WindowsAzure.StorageClient.BlobRequestOptions`

An object that specifies any additional options for the request.

**Return Value**

Type: `System.Collections.Generic.IEnumerable`

An enumerable collection of objects that implement `IListBlobItem` and are retrieved lazily.
Example
The following code example lists blobs beginning with a specified prefix. Note
that the prefix must include the name of the container.
C#

static void ListBlobsInVirtualDirectory(Uri blobEndpoint, str
{
//Create service client for credentialed access to the Bl
CloudBlobClient blobClient =
new CloudBlobClient(blobEndpoint, new StorageCredenti

//List blobs in container 'mycontainer' beginning with pr
//The results list only blobs directly beneath 'mycontain
foreach (var blobItem in blobClient.ListBlobsWithPrefix("
{
Console.WriteLine(blobItem.Uri);
}

//Results similar to:
//http://storagesample.blob.core.windows.net/mycontainer/
//http://storagesample.blob.core.windows.net/mycontainer/
Console.WriteLine();

//List blobs in container 'mycontainer' beginning with pr
//The results list all blobs beneath 'mycontainer/a/', ev
BlobRequestOptions options = new BlobRequestOptions();
options.UseFlatBlobListing = true;
foreach (var blobItem in blobClient.ListBlobsWithPrefix("
{
Console.WriteLine(blobItem.Uri);
}

//Results similar to:
//http://storagesample.blob.core.windows.net/mycontainer/


//http://storagesample.blob.core.windows.net/mycontainer/a/b/00002.txt
//http://storagesample.blob.core.windows.net/mycontainer/a/b/c/00003.txt
//http://storagesample.blob.core.windows.net/mycontainer/a/b/c/00004.txt
//http://storagesample.blob.core.windows.net/mycontainer/a/b/c/00005.txt
//http://storagesample.blob.core.windows.net/mycontainer/a/b/c/00006.txt
//http://storagesample.blob.core.windows.net/mycontainer/a/b/c/00007.txt
//http://storagesample.blob.core.windows.net/mycontainer/a/b/c/00008.txt
//http://storagesample.blob.core.windows.net/mycontainer/a/b/c/00009.txt
//http://storagesample.blob.core.windows.net/mycontainer/a/b/c/00010.txt
//http://storagesample.blob.core.windows.net/mycontainer/a/b/c/00011.txt
//http://storagesample.blob.core.windows.net/mycontainer/a/b/c/00012.txt
//http://storagesample.blob.core.windows.net/mycontainer/a/b/c/00013.txt
//http://storagesample.blob.core.windows.net/mycontainer/a/b/c/00014.txt
//http://storagesample.blob.core.windows.net/mycontainer/a/b/c/00015.txt
//http://storagesample.blob.core.windows.net/mycontainer/a/b/c/00016.txt
//http://storagesample.blob.core.windows.net/mycontainer/a/b/c/00017.txt
//http://storagesample.blob.core.windows.net/mycontainer/a/b/c/00018.txt
//http://storagesample.blob.core.windows.net/mycontainer/a/b/c/00019.txt
//http://storagesample.blob.core.windows.net/mycontainer/a/b/c/00020.txt
//http://storagesample.blob.core.windows.net/mycontainer/a/b/c/00021.txt
//http://storagesample.blob.core.windows.net/mycontainer/a/b/c/00022.txt
//http://storagesample.blob.core.windows.net/mycontainer/a/b/c/00023.txt
//http://storagesample.blob.core.windows.net/mycontainer/a/b/c/00024.txt
//http://storagesample.blob.core.windows.net/mycontainer/a/b/c/00025.txt
//http://storagesample.blob.core.windows.net/mycontainer/a/b/c/00026.txt
//http://storagesample.blob.core.windows.net/mycontainer/a/b/c/00027.txt
//http://storagesample.blob.core.windows.net/mycontainer/a/b/c/00028.txt
//
Remarks

The types of objects returned by the ListBlobsWithPrefix method depend on the type of listing that is being performed. If the UseFlatBlobListing property is set to **true**, ListBlobsWithPrefix will return an enumerable collection of CloudBlob objects. If UseFlatBlobListing is set to **false** (the default value), the listing may return a collection containing CloudBlob objects and CloudBlobDirectory objects. The latter case provides a convenience for subsequent enumerations over a virtual blob hierarchy.
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient.ListBlobsWithPrefixSegmented Method

See Also

This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.

Returns a result segment containing a collection of blob items whose names begin with the specified prefix.
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CloudBlobClient.ListBlobsWithPrefixSegmented(String)</strong></td>
<td>Returns a result segment containing a collection of blob items whose names begin with the specified prefix.</td>
</tr>
<tr>
<td><strong>CloudBlobClient.ListBlobsWithPrefixSegmented(String, BlobRequestOptions)</strong></td>
<td>Returns a result segment containing a collection of blob items whose names begin with the specified prefix, using a conditional request based on the <code>BlobRequestOptions</code> that you specify.</td>
</tr>
<tr>
<td><strong>CloudBlobClient.ListBlobsWithPrefixSegmented(String, Int32, ResultContinuation)</strong></td>
<td>Returns a result segment containing a collection of blob items whose names begin with the specified prefix. Use this overload when you want to control the maximum number of results returned at a time, and when you want to use a continuation token to determine whether there are more results to return from the service after the current page completes.</td>
</tr>
<tr>
<td><strong>CloudBlobClient.ListBlobsWithPrefixSegmented(String, Int32, BlobRequestOptions)</strong></td>
<td>Returns a result segment containing a collection of blob items whose names begin with the specified prefix, using a conditional request based on the <code>BlobRequestOptions</code> that you specify.</td>
</tr>
<tr>
<td><strong>CloudBlobClient.ListBlobsWithPrefixSegmented</strong>&lt;br&gt;<strong>(String, Int32, ResultContinuation, BlobRequestOptions)</strong></td>
<td>you specify. Use this overload when you want to control the maximum number of results returned at a time, and when you want to use a continuation token to determine whether there are more results to return from the service after the current page completes.</td>
</tr>
</tbody>
</table>
See Also

Reference

CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient.ListBlobsWithPrefixSegmented Method (String)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a result segment containing a collection of blob items whose names begin with the specified prefix.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

| Dim instance As **CloudBlobClient** |
| Dim prefix As **String** |
| Dim returnValue As **ResultSegment(Of IListBlobItem)** |

returnValue = instance.ListBlobsWithPrefixSegmented( |
## Syntax

### Visual Basic

```vbnet
Public Function ListBlobsWithPrefixSegmented ( _
    prefix As String _
) As ResultSegment(Of IListBlobItem)
```

### C#

```csharp
public ResultSegment<ILISTBlobItem> ListBlobsWithPrefixSegmented(
    string prefix
)
```

### C++

```cpp
public:
ResultSegment<ILISTBlobItem>^ ListBlobsWithPrefixSegmented(
    String^ prefix
)
```

### J#

```java

```

### JScript

```javascript

```

### Parameters

- **prefix**
  - Type: `System.String`

  The blob name prefix. This value must be preceded by the name of the container.
Return Value

Type: Microsoft.WindowsAzure.StorageClient.ResultSegment

A result segment containing objects that implement IListBlobItem.
Example

The following code example returns blobs in segments, using a flat listing.

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>static void ListBlobsInSegments(Uri blobEndpoint, string accountName, string accountKey)</td>
</tr>
<tr>
<td>{</td>
</tr>
<tr>
<td>//Create service client for credentialed access to blobs</td>
</tr>
<tr>
<td>CloudBlobClient blobClient =</td>
</tr>
<tr>
<td>new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));</td>
</tr>
<tr>
<td>//Return blobs using a flat listing.</td>
</tr>
<tr>
<td>BlobRequestOptions options = new BlobRequestOptions();</td>
</tr>
<tr>
<td>options.UseFlatBlobListing = true;</td>
</tr>
<tr>
<td>//List blobs in container 'lotsofblobs' beginning with prefix '0', using a flat listing.</td>
</tr>
<tr>
<td>//This first operation will return up to 5000 blobs.</td>
</tr>
<tr>
<td>ResultSegment&lt;IListBlobItem&gt; resultSegment = blobClient.ListBlobsWithPrefixSegmented(&quot;lotsofblobs/0&quot;, options);</td>
</tr>
<tr>
<td>foreach (var blobItem in resultSegment.Results)</td>
</tr>
<tr>
<td>{</td>
</tr>
<tr>
<td>Console.WriteLine(blobItem.Uri);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>ResultContinuation continuationToken = resultSegment.ContinuationToken;</td>
</tr>
<tr>
<td>//Check whether there are more results.</td>
</tr>
<tr>
<td>while (continuationToken != null)</td>
</tr>
<tr>
<td>{</td>
</tr>
<tr>
<td>resultSegment = resultSegment.GetNext();</td>
</tr>
<tr>
<td>foreach (var blobItem in resultSegment.Results)</td>
</tr>
<tr>
<td>{</td>
</tr>
<tr>
<td>Console.WriteLine(blobItem.Uri);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>continuationToken = resultSegment.ContinuationToken;</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>
Remarks

The ListBlobsWithPrefixSegmented method lists blobs in pages. A page is set of results of a specified size; it is represented by the ResultSegment class. By returning blobs in pages, you can control the number of blobs returned per operation. This may be useful if, for example, you are displaying a web page with some predefined number of blobs on it.

To specify the page size to return, pass in a non-zero value for the maxResults parameter. Passing in zero for the maxResults parameter returns either the maximum number of results available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the HasMoreResults property to check whether the page is complete. If HasMoreResults is true, the complete page has not been returned for some reason. Call GetNext to return the remaining results in the page.

Note that if you have not specified a page size, HasMoreResults will always be false.

Check the value of the ContinuationToken property to determine whether there are more results to return from the service after the page is complete. The continuation token is non-null as long as there are more results to return from the service. If the page is complete, then HasMoreResults will be false, but if the continuation token is non-null, there are additional results to return beyond that page.

Call the GetNext method to return the next segment of results from the service.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a result segment containing a collection of blob items whose names begin with the specified prefix, using a conditional request based on the BlobRequestOptions that you specify.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudBlobClient
Dim prefix As String
Dim options As BlobRequestOptions
Dim returnValue As ResultSegment(Of IListBlobItem)

returnValue = instance.ListBlobsWithPrefixSegmented(
```
### Syntax

**Visual Basic**

```vbnet
Public Function ListBlobsWithPrefixSegmented ( _
    prefix As String, _
    options As BlobRequestOptions _) As ResultSegment(Of IListBlobItem)
```

**C#**

```csharp
public ResultSegment<IListBlobItem> ListBlobsWithPrefixSegmented ( _
    string prefix, _
    BlobRequestOptions options)
```

**C++**

```cpp
public:
ResultSegment<IListBlobItem>^ ListBlobsWithPrefixSegmented ( _
    String^ prefix, _
    BlobRequestOptions^ options)
```

**J#**

```jsharp
```

**JScript**

```js
```

#### Parameters

**prefix**

Type: `System.String`
The blob name prefix. This value must be preceded by the name of the container.

**options**

Type: `Microsoft.WindowsAzure.StorageClient.BlobRequestOptions`

An object that specifies any additional options for the request.

**Return Value**

Type: `Microsoft.WindowsAzure.StorageClient.ResultSegment`

A result segment containing objects that implement `IListBlobItem`. 
**Example**

The following code example returns blobs in segments, using a flat listing.

```csharp
static void ListBlobsInSegments(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Return blobs using a flat listing.
    BlobRequestOptions options = new BlobRequestOptions();
    options.UseFlatBlobListing = true;

    // List blobs in container 'lotsofblobs' beginning with prefix '0', using a flat listing.
    // This first operation will return up to 5000 blobs.
    ResultSegment<IListBlobItem> resultSegment = blobClient.ListBlobsWithPrefixSegmented("lotsofblobs/0", options);
    foreach (var blobItem in resultSegment.Results)
    {
        Console.WriteLine(blobItem.Uri);
    }

    ResultContinuation continuationToken = resultSegment.ContinuationToken;

    // Check whether there are more results.
    while (continuationToken != null)
    {
        resultSegment = resultSegment.GetNext();
        foreach (var blobItem in resultSegment.Results)
        {
            Console.WriteLine(blobItem.Uri);
        }
        continuationToken = resultSegment.ContinuationToken;
    }
}
```
Remarks

The `ListBlobsWithPrefixSegmented` method lists blobs in pages. A page is set of results of a specified size; it is represented by the `ResultSegment` class. By returning blobs in pages, you can control the number of blobs returned per operation. This may be useful if, for example, you are displaying a web page with some predefined number of blobs on it.

To specify the page size to return, pass in a non-zero value for the `maxResults` parameter. Passing in zero for the `maxResults` parameter returns either the maximum number of results available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the `HasMoreResults` property to check whether the page is complete. If `HasMoreResults` is `true`, the complete page has not been returned for some reason. Call `GetNext` to return the remaining results in the page.

Note that if you have not specified a page size, `HasMoreResults` will always be `false`.

Check the value of the `ContinuationToken` property to determine whether there are more results to return from the service after the page is complete. The continuation token is non-null as long as there are more results to return from the service. If the page is complete, then `HasMoreResults` will be `false`, but if the continuation token is non-null, there are additional results to return beyond that page.

Call the `GetNext` method to return the next segment of results from the service.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference

CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient.ListBlobsWithPrefixSegmented Method (String, Int32, ResultContinuation)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a result segment containing a collection of blob items whose names begin with the specified prefix. Use this overload when you want to control the maximum number of results returned at a time, and when you want to use a continuation token to determine whether there are more results to return from the service after the current page completes.

Namespace: Microsoft.WindowsAzure.StorageClient
Dim instance As CloudBlobClient
Dim prefix As String
Dim maxResults As Integer
Dim continuationToken As ResultContinuation
Dim returnValue As ResultSegment(Of IListBlobItem)

returnValue = instance.ListBlobsWithPrefixSegmented(}
### Syntax

**Visual Basic**

```vbnet
Public Function ListBlobsWithPrefixSegmented (_
    prefix As String, _
    maxResults As Integer, _
    continuationToken As ResultContinuation _
) As ResultSegment(Of IListBlobItem)
```

**C#**

```csharp
public ResultSegment<IListBlobItem> ListBlobsWithPrefixSegmented(
    string prefix,
    int maxResults,
    ResultContinuation continuationToken
)
```

**C++**

```cpp
public:
ResultSegment<IListBlobItem>^ ListBlobsWithPrefixSegmented(
    String^ prefix,
    int maxResults,
    ResultContinuation^ continuationToken
)
```

**J#**

```jsharp```

**JScript**

```jscript```

### Parameters
prefix
Type: System.String

The blob name prefix. This value must be preceded by the name of the container.

maxResults
Type: System.Int32

A non-negative integer value that indicates the maximum number of results to be returned at a time, up to the per-operation limit of 5000.

continuationToken
Type: Microsoft.WindowsAzure.StorageClient.ResultContinuation

A continuation token returned by a previous listing operation.

Return Value

Type: Microsoft.WindowsAzure.StorageClient.ResultSegment

A result segment containing objects that implement IListBlobItem.
Example

The following code example returns blobs in segments, using a flat listing.

```csharp
static void ListBlobsInSegments(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Return blobs using a flat listing.
    BlobRequestOptions options = new BlobRequestOptions();
    options.UseFlatBlobListing = true;

    //List blobs in container 'lotsofblobs' beginning with prefix '0', using a flat listing.
    //This first operation will return up to 5000 blobs.
    ResultSegment<IListBlobItem> resultSegment = blobClient.ListBlobsWithPrefixSegmented("lotsofblobs/0", options);
    foreach (var blobItem in resultSegment.Results)
    {
        Console.WriteLine(blobItem.Uri);
    }

    ResultContinuation continuationToken = resultSegment.ContinuationToken;

    //Check whether there are more results.
    while (continuationToken != null)
    {
        resultSegment = resultSegment.GetNext();
        foreach (var blobItem in resultSegment.Results)
        {
            Console.WriteLine(blobItem.Uri);
        }
        continuationToken = resultSegment.ContinuationToken;
    }
}
```
Remarks

The `ListBlobsWithPrefixSegmented` method lists blobs in pages. A page is a set of results of a specified size; it is represented by the `ResultSegment` class. By returning blobs in pages, you can control the number of blobs returned per operation. This may be useful if, for example, you are displaying a web page with some predefined number of blobs on it.

To specify the page size to return, pass in a non-zero value for the `maxResults` parameter. Passing in zero for the `maxResults` parameter returns either the maximum number of results available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the `HasMoreResults` property to check whether the page is complete. If `HasMoreResults` is `true`, the complete page has not been returned for some reason. Call `GetNext` to return the remaining results in the page.

Note that if you have not specified a page size, `HasMoreResults` will always be `false`.

Check the value of the `ContinuationToken` property to determine whether there are more results to return from the service after the page is complete. The continuation token is non-null as long as there are more results to return from the service. If the page is complete, then `HasMoreResults` will be `false`, but if the continuation token is non-null, there are additional results to return beyond that page.

Call the `GetNext` method to return the next segment of results from the service.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient.ListBlobsWithPrefixSegmented Method (String, Int32, ResultContinuation, BlobRequestOptions)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a result segment containing a collection of blob items whose names begin with the specified prefix, using a conditional request based on the BlobRequestOptions that you specify. Use this overload when you want to control the maximum number of results returned at a time, and when you want to use a continuation token to determine whether there are more results to return from the service after the current page completes.

Namespace: Microsoft.WindowsAzure.StorageClient  
**Usage**

**Visual Basic**

| Dim instance As `CloudBlobClient` |
| Dim prefix As `String` |
| Dim maxResults As `Integer` |
| Dim continuationToken As `ResultContinuation` |
| Dim options As `BlobRequestOptions` |
| Dim returnValue As `ResultSegment(Of IListBlobItem)` |

```vbnet
returnValue = instance.ListBlobsWithPrefixSegmented()
```
**Syntax**

### Visual Basic

```vbnet
Public Function ListBlobsWithPrefixSegmented ( _
    prefix As String, _
    maxResults As Integer, _
    continuationToken As ResultContinuation, _
    options As BlobRequestOptions _
) As ResultSegment(Of IListBlobItem)
```

### C#

```csharp
public ResultSegment<IListBlobItem> ListBlobsWithPrefixSegmented ( _
    string prefix, _
    int maxResults, _
    ResultContinuation continuationToken, _
    BlobRequestOptions options
)
```

### C++

```cpp
public:
    ResultSegment<IListBlobItem^>^ ListBlobsWithPrefixSegmented ( _
        String^ prefix, _
        int maxResults, _
        ResultContinuation^ continuationToken, _
        BlobRequestOptions^ options
    )
```

### J#

```
```

### JScript

```
```
**Parameters**

*prefix*
  Type: `System.String`

  The blob name prefix. This value must be preceded by the name of the container.

*maxResults*
  Type: `System.Int32`

  A non-negative integer value that indicates the maximum number of results to be returned at a time, up to the per-operation limit of 5000.

*continuationToken*
  Type: `Microsoft.WindowsAzure.StorageClient.ResultContinuation`

  A continuation token returned by a previous listing operation.

*options*
  Type: `Microsoft.WindowsAzure.StorageClient.BlobRequestOptions`

  An object that specifies any additional options for the request.

**Return Value**

Type: `Microsoft.WindowsAzure.StorageClient.ResultSegment`

A result segment containing objects that implement `IListBlobItem`. 
Example

The following code example returns blobs in segments, using a flat listing.

```csharp
static void ListBlobsInSegments(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Return blobs using a flat listing.
    BlobRequestOptions options = new BlobRequestOptions;
    options.UseFlatBlobListing = true;

    //List blobs in container 'lotsofblobs' beginning
    //This first operation will return up to 5000 blobs.
    ResultSegment<IListBlobItem> resultSegment = blobClient.ListBlobsWithPrefixSegmented("lotsofblobs/0", options);
    foreach (var blobItem in resultSegment.Results)
    {
        Console.WriteLine(blobItem.Uri);
    }

    ResultContinuation continuationToken = resultSegment.ContinuationToken;

    //Check whether there are more results.
    while (continuationToken != null)
    {
        resultSegment = resultSegment.GetNext();
        foreach (var blobItem in resultSegment.Results)
        {
            Console.WriteLine(blobItem.Uri);
        }
        continuationToken = resultSegment.ContinuationToken;
    }
}
```
Remarks

The `ListBlobsWithPrefixSegmented` method lists blobs in pages. A page is set of results of a specified size; it is represented by the `ResultSegment` class. By returning blobs in pages, you can control the number of blobs returned per operation. This may be useful if, for example, you are displaying a web page with some predefined number of blobs on it.

To specify the page size to return, pass in a non-zero value for the `maxResults` parameter. Passing in zero for the `maxResults` parameter returns either the maximum number of results available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the `HasMoreResults` property to check whether the page is complete. If `HasMoreResults` is `true`, the complete page has not been returned for some reason. Call `GetNext` to return the remaining results in the page.

Note that if you have not specified a page size, `HasMoreResults` will always be `false`.

Check the value of the `ContinuationToken` property to determine whether there are more results to return from the service after the page is complete. The continuation token is non-null as long as there are more results to return from the service. If the page is complete, then `HasMoreResults` will be `false`, but if the continuation token is non-null, there are additional results to return beyond that page.

Call the `GetNext` method to return the next segment of results from the service.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient.ListContainers Method

See Also

This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.

Returns an enumerable collection of containers.
## Overload List

<table>
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<td>Returns an enumerable collection of containers.</td>
</tr>
<tr>
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<td>Returns an enumerable collection of containers whose names begin with the specified prefix.</td>
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<td>CloudBlobClient.ListContainers (String, ContainerListingDetails)</td>
<td>Returns an enumerable, lazily retrieved collection of containers whose names begin with the specified prefix, and optionally returns container metadata.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient.ListContainers Method ()

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns an enumerable collection of containers.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudBlobClient
Dim returnValue As IEnumerable(Of CloudBlobContainer)

returnValue = instance.ListContainers
```
**Syntax**

**Visual Basic**

Public Function ListContainers As IEnumerable(Of CloudBlobContainer)

**C#**

public IEnumerable<CloudBlobContainer> ListContainers()

**C++**

public: IEnumerable<CloudBlobContainer^>^ ListContainers ()

**J#**

**JScript**

---

**Return Value**

Type: System.Collections.Generic.IEnumerable

An enumerable collection of containers.
The following code example demonstrates a few different options for listing containers in a storage account.

```csharp
static void ListContainersInAccount(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to Blob service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //List all containers in this storage account.
    foreach (var container in blobClient.ListContainers())
    {
        Console.WriteLine("Container:" + container.Name);
    }
    Console.WriteLine();

    //List containers in this storage account whose names begin with the prefix "my".
    foreach (var container in blobClient.ListContainers("my"))
    {
        Console.WriteLine("Container:" + container.Name);
    }
    Console.WriteLine();

    //List containers in this storage account whose names begin with the prefix "my" and return container metadata.
    //Note that requesting the container's metadata as part of the listing operation populates the metadata, so it's not necessary to call FetchAttributes().
    foreach (var container in blobClient.ListContainers("my", ContainerListingDetails.Metadata))
    {
        Console.WriteLine("Container:" + container.Name);
        //Write out the container's metadata values.
        Console.WriteLine("Container metadata:");
        foreach (var metadataKey in container.Metadata.Keys)
        
```
{ Console.WriteLine("\tMetadata key: " + metadataKey.ToString());
}
Remarks

This method lists all containers in the storage account.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference

CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
### CloudBlobClient.ListContainers Method (String)

**See Also**  Example

| ![Image]() |

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns an enumerable collection of containers whose names begin with the specified prefix.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>

```vbnet
Dim instance As CloudBlobClient
Dim prefix As String
Dim returnValue As IEnumerable(Of CloudBlobContainer)

returnValue = instance.ListContainers(prefix)
```
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Public Function ListContainers ( _
|   prefix As String _
| ) As IEnumerable(Of CloudBlobContainer) |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public IEnumerable&lt;CloudBlobContainer&gt; ListContainers (</td>
</tr>
<tr>
<td>string prefix</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public:</td>
</tr>
<tr>
<td>IEnumerable&lt;CloudBlobContainer&gt;&amp; ListContainers (</td>
</tr>
<tr>
<td>String&amp; prefix</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>

**Parameters**

`prefix`  
Type: System.String

The container name prefix.

**Return Value**
Type: System.Collections.Generic.IEnumerable

An enumerable collection of containers.
The following code example demonstrates a few different options for listing containers in a storage account.

```csharp
static void ListContainersInAccount(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //List all containers in this storage account.
    foreach (var container in blobClient.ListContainers())
    {
        Console.WriteLine("Container:" + container.Name);
    }

    //List containers in this storage account whose names begin with the prefix "my".
    foreach (var container in blobClient.ListContainers("my"))
    {
        Console.WriteLine("Container:" + container.Name);
    }

    //List containers in this storage account whose names begin with the prefix "my" and return container metadata.
    //Note that requesting the container's metadata as part of the listing operation populates the metadata, so it's not necessary to call FetchAttributes().
    foreach (var container in blobClient.ListContainers("my", ContainerListingDetails.Metadata))
    {
        Console.WriteLine("Container:" + container.Name);
        //Write out the container's metadata values.
        Console.WriteLine("Container metadata:");
        foreach (var metadataKey in container.Metadata.Keys)
        {
            Console.WriteLine("{0} = {1}", metadataKey, container.Metadata[metadataKey]);
        }
    }
}
```
{  
  Console.WriteLine("\tMetadata key: " + metadataKey.ToString());  
}
Remarks

This method lists all containers in the storage account whose names begin with the specified prefix.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient.ListContainers Method (String, ContainerListingDetails)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns an enumerable, lazily retrieved collection of containers whose names begin with the specified prefix, and optionally returns container metadata.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As CloudBlobClient
Dim prefix As String
Dim detailsIncluded As ContainerListingDetails
Dim returnValue As IEnumerable(Of CloudBlobContainer)

returnValue = instance.ListContainers(prefix, detailsIncluded)
```
## Syntax

**Visual Basic**

```vbnet
Public Function ListContainers ( 
    prefix As String, 
    detailsIncluded As ContainerListingDetails 
) As IEnumerable(Of CloudBlobContainer)
```

**C#**

```csharp
public IEnumerable<CloudBlobContainer> ListContainers( 
    string prefix, 
    ContainerListingDetails detailsIncluded
)
```

**C++**

```cpp
public: 
    IEnumerable<CloudBlobContainer^>^ ListContainers ( 
    String^ prefix, 
    ContainerListingDetails detailsIncluded
)
```

**J#**

```jsharp```

**JScript**

```jscript```

### Parameters

- **prefix**
  - Type: `System.String`
  - The container name prefix.
**detailsIncluded**
Type: `Microsoft.WindowsAzure.StorageClient.ContainerListingDetails`

A value that indicates whether to return container metadata with the listing.

**Return Value**

Type: `System.Collections.Generic.IEnumerable`

An enumerable collection of containers that are retrieved lazily.
Example

The following code example demonstrates a few different options for listing containers in a storage account.

C#

```csharp
static void ListContainersInAccount(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to
    //CloudBlobClient blobClient =
    //    new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //List all containers in this storage account.
    foreach (var container in blobClient.ListContainers())
    {
        Console.WriteLine("Container:" + container.Name);
    }
    Console.WriteLine();

    //List containers in this storage account whose names begin with the prefix "my".
    foreach (var container in blobClient.ListContainers("my"))
    {
        Console.WriteLine("Container:" + container.Name);
    }
    Console.WriteLine();

    //List containers in this storage account whose names begin with the prefix "my",
    //and return container metadata.
    //Note that requesting the container's metadata as part of the listing operation
    //populates the metadata, so it's not necessary to call FetchAttributes().
    foreach (var container in blobClient.ListContainers("my", ContainerListingDetails.Metadata))
    {
        Console.WriteLine("Container:" + container.Name);
        //Write out the container's metadata values.
        Console.WriteLine("Container metadata:");
        foreach (var metadataKey in container.Metadata.Keys)
        {...
```
{  
    Console.WriteLine("\tMetadata key: " + metadataKey.ToString());  
}

Remarks

This method lists all containers in the storage account whose names begin with the specified prefix, and optionally returns container metadata. To return container metadata with the listing, set the `detailsIncluded` parameter to `Metadata`. To enumerate containers without metadata, set the `detailsIncluded` parameter to `None`.

Note

If you specify that the listing should include container metadata, each container metadata will be populated; it's not necessary to fetch the container's attributes to populate the metadata.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient.ListContainersSegmented Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a result segment containing a collection of containers whose names begin with the specified prefix.
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudBlobClient.ListContainersSegmented()</code></td>
<td>Returns a result segment containing a collection of containers.</td>
</tr>
<tr>
<td><code>CloudBlobClient.ListContainersSegmented(String)</code></td>
<td>Returns a result segment containing a collection of containers whose names begin with the specified prefix.</td>
</tr>
<tr>
<td><code>CloudBlobClient.ListContainersSegmented(String, ContainerListingDetails, Int32, ResultContinuation)</code></td>
<td>Returns a result segment containing a collection of containers whose names begin with the specified prefix. Use this overload when you want to control the maximum number of results returned at a time, and when you want to use a continuation token to determine whether there are more results to return from the service after the current page completes, and when you want to control which details to include when listing the containers in this storage account.</td>
</tr>
</tbody>
</table>
See Also

Reference

CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a result segment containing a collection of containers.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlobClient
Dim returnValue As ResultSegment(Of CloudBlobContainer)

returnValue = instance.ListContainersSegmented
```
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Function ListContainersSegmented As ResultSegment</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public ResultSegment&lt;CloudBlobContainer&gt; ListContainersSegmented</td>
</tr>
</tbody>
</table>

<table>
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<th>C++</th>
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<tbody>
<tr>
<td>public: ResultSegment&lt;CloudBlobContainer&gt;^&gt;^ ListContainersSegmented</td>
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</table>

<table>
<thead>
<tr>
<th>J#</th>
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</table>

<table>
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<th>JScript</th>
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</thead>
</table>

### Return Value

Type: Microsoft.WindowsAzure.StorageClient.ResultSegment

A result segment of containers.
**Example**

The following code example lists containers beginning with the specified prefix in pages of 10.

### C#

```csharp
static void ListContainersInSegments(Uri blobEndpoint, string accountName, string accountKey) {
    // Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Return the first segment of 10 containers in the account.
    ResultSegment<CloudBlobContainer> resultSegment = blobClient.ListContainersSegmented("my", ContainerListingDetails.None, 10, null);

    // Print container names to the console.
    WriteContainersInResultSegment(resultSegment);

    // Check HasMoreResults to determine whether the page is complete.
    if (resultSegment.HasMoreResults) {
        // Get the rest of the results in the page.
        resultSegment = resultSegment.GetNext();

        // Print container names to the console.
        WriteContainersInResultSegment(resultSegment);
    }

    // After the page is complete, check the continuation token to determine whether there are more results on the server.
    while (resultSegment.ContinuationToken != null) {
        resultSegment = resultSegment.GetNext();

        // Print container names to the console.
    }
}
```

---

<table>
<thead>
<tr>
<th>Example</th>
<th>C#</th>
</tr>
</thead>
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| The following code example lists containers beginning with the specified prefix in pages of 10. | static void ListContainersInSegments(Uri blobEndpoint, string accountName, string accountKey) {
    // Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Return the first segment of 10 containers in the account.
    ResultSegment<CloudBlobContainer> resultSegment = blobClient.ListContainersSegmented("my", ContainerListingDetails.None, 10, null);

    // Print container names to the console.
    WriteContainersInResultSegment(resultSegment);

    // Check HasMoreResults to determine whether the page is complete.
    if (resultSegment.HasMoreResults) {
        // Get the rest of the results in the page.
        resultSegment = resultSegment.GetNext();

        // Print container names to the console.
        WriteContainersInResultSegment(resultSegment);
    }

    // After the page is complete, check the continuation token to determine whether there are more results on the server.
    while (resultSegment.ContinuationToken != null) {
        resultSegment = resultSegment.GetNext();

        // Print container names to the console.
    }
} |
static void WriteContainersInResultSegment(ResultSegment<CloudBlobContainer> resultSegment)
{
    foreach (var container in resultSegment.Results)
    {
        Console.WriteLine(container.Name);
    }
}
Remarks

The `ListContainersSegmented` method begins an operation to list containers in pages. A page is set of results of a specified size; it is represented by the `ResultSegment` class. By returning containers in pages, you can control the number of containers returned per operation. This may be useful if, for example, you are displaying a web page with some predefined number of containers on it.

To specify the page size to return, pass in a non-zero value for the `maxResults` parameter. Passing in zero for the `maxResults` parameter returns either the maximum number of results available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the `HasMoreResults` property to check whether the page is complete. If `HasMoreResults` is `true`, the complete page has not been returned for some reason. Call `GetNext` to return the remaining results in the page.

Note that if you have not specified a page size, `HasMoreResults` will always be `false`.

Check the value of the `ContinuationToken` property to determine whether there are more results to return from the service after the page is complete. The continuation token is non-null as long as there are more results to return from the service. If the page is complete, then `HasMoreResults` will be `false`, but if the continuation token is non-null, there are additional results to return beyond that page.

Call the `GetNext` method to return the next segment of results from the service.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a result segment containing a collection of containers whose names begin with the specified prefix.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbs
Dim instance As CloudBlobClient
Dim prefix As String
Dim returnValue As ResultSegment(Of CloudBlobContainer)

returnValue = instance.ListContainersSegmented(prefix)
```
Syntax

Visual Basic

Public Function ListContainersSegmented ( _
    prefix As String _
) As ResultSegment(Of CloudBlobContainer)

C#

public ResultSegment<CloudBlobContainer> ListContainersSegmented ( 
    string prefix
)

C++

public: 
ResultSegment<CloudBlobContainer>^ ListContainersSegmented ( 
    String^ prefix
)

J#

JScript

Parameters

prefix
Type: System.String

The container name prefix.

Return Value
Type: Microsoft.WindowsAzure.StorageClient.ResultSegment
A result segment of containers.
The following code example lists containers beginning with the specified prefix, in pages of 10.

**C#**

```csharp
static void ListContainersInSegments(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Return the first segment of 10 containers in the account.
    ResultSegment<CloudBlobContainer> resultSegment =
        blobClient.ListContainersSegmented("my", ContainerListingDetails.None, 10, null);

    //Print container names to the console.
    WriteContainersInResultSegment(resultSegment);

    //Check HasMoreResults to determine whether the page is complete.
    if (resultSegment.HasMoreResults)
    {
        //Get the rest of the results in the page.
        resultSegment = resultSegment.GetNext();

        //Print container names to the console.
        WriteContainersInResultSegment(resultSegment);
    }

    //After the page is complete, check the continuation token to determine whether there are more results on the server.
    while (resultSegment.ContinuationToken != null)
    {
        resultSegment = resultSegment.GetNext();

        //Print container names to the console.
    }
}
```
static void WriteContainersInResultSegment(ResultSegment<CloudBlobContainer> resultSegment)
{
    foreach (var container in resultSegment.Results)
    {
        Console.WriteLine(container.Name);
    }
}

WriteContainersInResultSegment(resultSegment, null);
Remarks

The ListContainersSegmented method begins an operation to list containers in pages. A page is set of results of a specified size; it is represented by the ResultSegment class. By returning containers in pages, you can control the number of containers returned per operation. This may be useful if, for example, you are displaying a web page with some predefined number of containers on it.

To specify the page size to return, pass in a non-zero value for the maxResults parameter. Passing in zero for the maxResults parameter returns either the maximum number of results available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the HasMoreResults property to check whether the page is complete. If HasMoreResults is true, the complete page has not been returned for some reason. Call GetNext to return the remaining results in the page.

Note that if you have not specified a page size, HasMoreResults will always be false.

Check the value of the ContinuationToken property to determine whether there are more results to return from the service after the page is complete. The continuation token is non-null as long as there are more results to return from the service. If the page is complete, then HasMoreResults will be false, but if the continuation token is non-null, there are additional results to return beyond that page.

Call the GetNext method to return the next segment of results from the service.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient.ListContainersSegmented Method (String, ContainerListingDetails, Int32, ResultContinuation)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a result segment containing a collection of containers whose names begin with the specified prefix. Use this overload when you want to control the maximum number of results returned at a time, and when you want to use a continuation token to determine whether there are more results to return from the service after the current page completes, and when you want to control which details to include when listing the containers in this storage account.

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

**Visual Basic**

```vbnet
Dim instance As CloudBlobClient
Dim prefix As String
Dim detailsIncluded As ContainerListingDetails
Dim maxResults As Integer
Dim continuationToken As ResultContinuation
Dim returnValue As ResultSegment(Of CloudBlobContainer)

returnValue = instance.ListContainersSegmented(prefix)
```
Syntax

**Visual Basic**

Public Function ListContainersSegmented ( _
    prefix As String, _
    detailsIncluded As ContainerListingDetails, _
    maxResults As Integer, _
    continuationToken As ResultContinuation _
) As ResultSegment(Of CloudBlobContainer)

**C#**

public ResultSegment<CloudBlobContainer> ListContainersSegmented(
    string prefix,
    ContainerListingDetails detailsIncluded,
    int maxResults,
    ResultContinuation continuationToken
)

**C++**

public:
ResultSegment<CloudBlobContainer>^ ListContainersSegmented(
    String^ prefix,
    ContainerListingDetails detailsIncluded,
    int maxResults,
    ResultContinuation^ continuationToken
)

**J#**

**JScript**
Parameters

prefix
Type: System.String
The container name prefix.

detailsIncluded
Type: Microsoft.WindowsAzure.StorageClient.ContainerListingDetails
A value that indicates whether to return container metadata with the listing.

maxResults
Type: System.Int32
A non-negative integer value that indicates the maximum number of results to be returned in the result segment, up to the per-operation limit of 5000. If this value is zero, the maximum possible number of results will be returned.

continuationToken
Type: Microsoft.WindowsAzure.StorageClient.ResultContinuation
A continuation token returned by a previous listing operation.

Return Value
Type: Microsoft.WindowsAzure.StorageClient.ResultSegment
A result segment of containers.
Example

The following code example lists containers beginning with the specified prefix, in pages of 10.

```csharp
static void ListContainersInSegments(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Return the first segment of 10 containers in the account.
    ResultSegment<CloudBlobContainer> resultSegment =
        blobClient.ListContainersSegmented("my", ContainerListingDetails.None, 10, null);

    //Print container names to the console.
    WriteContainersInResultSegment(resultSegment);

    //Check HasMoreResults to determine whether the page is complete.
    if (resultSegment.HasMoreResults)
    {
        //Get the rest of the results in the page.
        resultSegment = resultSegment.GetNext();

        //Print container names to the console.
        WriteContainersInResultSegment(resultSegment);
    }

    //After the page is complete, check the continuation token to determine whether there are more results on the server.
    while (resultSegment.ContinuationToken != null)
    {
        resultSegment = resultSegment.GetNext();

        //Print container names to the console.
    }
}
```
static void WriteContainersInResultSegment(ResultSegment<CloudBlobContainer> resultSegment)
{
    foreach (var container in resultSegment.Results)
    {
        Console.WriteLine(container.Name);
    }
}
Remarks

The **ListContainersSegmented** method begins an operation to list containers in pages. A page is set of results of a specified size; it is represented by the **ResultSegment** class. By returning containers in pages, you can control the number of containers returned per operation. This may be useful if, for example, you are displaying a web page with some predefined number of containers on it.

To specify the page size to return, pass in a non-zero value for the **maxResults** parameter. Passing in zero for the **maxResults** parameter returns either the maximum number of results available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the **HasMoreResults** property to check whether the page is complete. If **HasMoreResults** is **true**, the complete page has not been returned for some reason. Call **GetNext** to return the remaining results in the page.

Note that if you have not specified a page size, **HasMoreResults** will always be **false**.

Check the value of the **ContinuationToken** property to determine whether there are more results to return from the service after the page is complete. The continuation token is non-null as long as there are more results to return from the service. If the page is complete, then **HasMoreResults** will be **false**, but if the continuation token is non-null, there are additional results to return beyond that page.

Call the **GetNext** method to return the next segment of results from the service.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient.SetServiceProperties Method

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Sets the properties of a storage account’s Blob service, including Windows Azure Storage Analytics and default service version.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```
Dim instance As CloudBlobClient
Dim properties As ServiceProperties

instance.SetServiceProperties(properties)
```
## Syntax

### Visual Basic

```vbnet
Public Sub SetServiceProperties (_
    properties As ServiceProperties _
)
```

### C#

```csharp
public void SetServiceProperties (  
    ServiceProperties properties
)
```

### C++

```cpp
public:
    void SetServiceProperties (  
        ServiceProperties^ properties
    )
```

### J#

```jsharp
```

### JScript

```javascript
```

## Parameters

- **properties**
  - The Blob service settings to set.
Example

The following snippet enables all logging and metrics for blob activities in the storage account with a 7 day retention period.

```csharp
CloudBlobClient client = storageAccount.CreateCloudBlobClient();

ServiceProperties sp = new ServiceProperties();
sp.Logging.Version = "1.0";
sp.Logging.RetentionDays = 7;
sp.Logging.LoggingOperations = LoggingOperations.All;
sp.Metrics.Version = "1.0";
sp.Metrics.MetricsLevel = MetricsLevel.ServiceAndApi;
client.SetServiceProperties(sp);
```
Remarks

The *properties* parameter specifies settings on the account’s Blob service for logging, metrics, and the default service version for unversioned requests.

The local storage service currently does not support this method.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
ServiceProperties

Other Resources
Storage Analytics Overview
Improved HTTP Headers for Resume on Download and a Change in If-Match Conditions
CloudBlobClient Properties

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

<table>
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<tr>
<th>Name</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>BaseUri</td>
<td>Gets the base URI for the Blob service client.</td>
</tr>
<tr>
<td>Credentials</td>
<td>Gets the account credentials used to create the Blob service client.</td>
</tr>
<tr>
<td>DefaultDelimiter</td>
<td>Gets or sets the default delimiter that may be used to create a blob directory structure of blobs.</td>
</tr>
<tr>
<td>ParallelOperationThreadCount</td>
<td>Gets or sets the number of blocks that may be simultaneously uploaded when uploading a blob that is greater than the value specified by the SingleBlobUploadThresholdInBytes property.</td>
</tr>
<tr>
<td>ReadAheadInBytes</td>
<td>Gets or sets the number of bytes to pre-fetch when reading from a stream.</td>
</tr>
<tr>
<td>RetryPolicy</td>
<td>Gets or sets the default retry policy for requests made via the Blob service client.</td>
</tr>
<tr>
<td>SingleBlobUploadThresholdInBytes</td>
<td>Gets or sets the maximum size of a blob in bytes that may be uploaded in a single operation, without using blocks.</td>
</tr>
<tr>
<td>Timeout</td>
<td>Gets or sets the default timeout for requests made by the Blob service client.</td>
</tr>
<tr>
<td>UseIntegrityControlForStreamReading</td>
<td>Gets or sets a value indicating whether the integrity of each block should be verified when reading from a stream.</td>
</tr>
<tr>
<td>WriteBlockSizeInBytes</td>
<td>Gets or sets the block size for writing to a block blob.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlobClient Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient.BaseUri Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the base URI for the Blob service client.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

**Visual Basic**

```
Dim instance As CloudBlobClient
Dim value As Uri

value = instance.BaseUri
```
## Syntax

**Visual Basic**

```vbnet
Public Property BaseUri As Uri
```

**C#**

```csharp
public Uri BaseUri { get; }
```

**C++**

```cpp
public:
property Uri^ BaseUri {
    Uri^ get ();
}
```

**J#**

**JScript**

**Property Value**

Type: [System.Uri](https://docs.microsoft.com/en-us/dotnet/api/system.uri)

The base URI used to construct the Blob service client.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the account credentials used to create the Blob service client.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudBlobClient
Dim value As StorageCredentials

value = instance.Credentials
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><strong>Public Property Credentials As</strong> StorageCredentials</td>
</tr>
<tr>
<td>C#</td>
<td><code>public StorageCredentials Credentials { get; }</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: property StorageCredentials^ Credentials {</code>&lt;br&gt;<code>StorageCredentials^ get ();</code></td>
</tr>
<tr>
<td>J#</td>
<td>-</td>
</tr>
<tr>
<td>JScript</td>
<td>-</td>
</tr>
</tbody>
</table>

## Property Value

Type: [Microsoft.WindowsAzure.StorageCredentials](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storagecredentials)

The account credentials.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
**CloudBlobClient.DefaultDelimiter Property**

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the default delimiter that may be used to create a blob directory structure of blobs.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As CloudBlobClient
Dim value As String

value = instance.DefaultDelimiter

instance.DefaultDelimiter = value
```
### Syntax

<table>
<thead>
<tr>
<th><strong>Visual Basic</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Public Property DefaultDelimiter As String</code></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>C#</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><code>public string DefaultDelimiter { get; set; }</code></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>C++</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><code>public: String^ DefaultDelimiter { String^ get (); void set (String^ value); }</code></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>J#</strong></th>
<th></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>JScript</strong></th>
<th></th>
</tr>
</thead>
</table>

### Property Value

Type: `System.String`

The default delimiter.
Remarks

By default, the default delimiter is a forward slash character (/). The character specified by the **DefaultDelimiter** property can be used to organize blobs in a virtual directory structure, which can then be traversed hierarchically.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient.ParallelOperationThreadCount Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the number of blocks that may be simultaneously uploaded when uploading a blob that is greater than the value specified by the SingleBlobUploadThresholdInBytes property.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlobClient
Dim value As Integer

value = instance.ParallelOperationThreadCount

instance.ParallelOperationThreadCount = value
```
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Property ParallelOperationThreadCount As Integer</td>
</tr>
</tbody>
</table>

**C#**

```csharp
public int ParallelOperationThreadCount { get; set; }
```

**C++**

```cpp
public:
property int ParallelOperationThreadCount {
    int get (){
    void set (int value);
}
```

**J#**

**JScript**

**Property Value**

Type: [System.Int32](https://docs.microsoft.com/en-us/dotnet/api/system.int32)

The number of block upload operations that may proceed in parallel, up to the maximum of 64.
Remarks

When you upload a blob that is greater than the value specified by the SingleBlobUploadThresholdInBytes property, it is automatically divided into blocks that are uploaded individually and assembled into the complete blob by the service. The ParallelOperationThreadCount property specifies how many blocks may be uploaded simultaneously.

The default value of the ParallelOperationThreadCount property is the minimum number of asynchronous I/O threads created on demand by the system thread pool.

The value of ParallelOperationThreadCount applies per logical operation, so if you are performing two operations, you will have up to the value of ParallelOperationThreadCount threads for each operation. The total number of threads available is limited by the number of threads available in the system thread pool.

Note that there is no benefit to setting this value to a number higher than the number of blocks that are being uploaded.
- **Thread Safety**

  Any public static (**Shared** in Visual Basic) members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the number of bytes to pre-fetch when reading from a stream.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Dim instance As **CloudBlobClient**  
Dim value As **Long**  

value = instance.ReadAheadInBytes

instance.ReadAheadInBytes = value |
### Syntax

**Visual Basic**

```vbnet
Public Property ReadAheadInBytes As Long
```

**C#**

```csharp
public long ReadAheadInBytes { get; set; }
```

**C++**

```cpp
public:
property long long ReadAheadInBytes {
    long long get ();
    void set (long long value);
}
```

**J#**

```jsharp```

**JScript**

```jscript```

### Property Value

Type: [System.Int64](https://docs.microsoft.com/en-us/dotnet/api/system.int64?view=netframework-4.8)

The number of bytes to read ahead from a stream.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
See Also

Reference

CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient.RetryPolicy Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the default retry policy for requests made via the Blob service client.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```visualbasic
Dim instance As CloudBlobClient
Dim value As RetryPolicy

value = instance.RetryPolicy

instance.RetryPolicy = value
```
## Syntax

### Visual Basic

Public Property RetryPolicy As RetryPolicy

### C#

public RetryPolicy RetryPolicy { get; set; }

### C++

public:
property RetryPolicy^ RetryPolicy {
    RetryPolicy^ get ();
    void set (RetryPolicy^ value);
}

### J#


### JScript


## Property Value


The retry policy.
Remarks

Setting the retry policy for the service client establishes the default policy for all requests made via the client, unless the request explicitly sets the retry policy.

To set the retry policy for an individual request, set the `RetryPolicy` property of the `BlobRequestOptions` class to a delegate of type `RetryPolicy`. This property can be set to one of the methods provided by the `RetryPolicies` class, or to a custom retry policy delegate that you define.

For details on implementing either a pre-defined or a custom retry policy, see `RetryPolicies`. 
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
**CloudBlobClient_SINGLEBlobUploadThresholdInBytes Property**

<table>
<thead>
<tr>
<th>See Also</th>
</tr>
</thead>
</table>

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the maximum size of a blob in bytes that may be uploaded in a single operation, without using blocks.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

### Visual Basic

<table>
<thead>
<tr>
<th>Dim instance As CloudBlobClient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim value As Long</td>
</tr>
</tbody>
</table>

value = instance.SingleBlobUploadThresholdInBytes

instance.SingleBlobUploadThresholdInBytes = value
## Syntax

### Visual Basic

```vbnet
Public Property SingleBlobUploadThresholdInBytes As Long
```

### C#

```csharp
public long SingleBlobUploadThresholdInBytes { get; set; }
```

### C++

```cpp
public:
property long long SingleBlobUploadThresholdInBytes :
    long long get () ;
    void set (long long value) ;
}
```

### J#

```jsharp
```

### JScript

```jscript
```

## Property Value

Type: [System.Int64](https://docs.microsoft.com/en-us/dotnet/api/system.int64)

The maximum size of a blob, in bytes, that may be uploaded as a single blob, ranging from between 1 and 64 MB inclusive. The default value is 33554432 bytes (32 MB).
Remarks

This property is new in the Windows Azure SDK 1.3.
- **Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
ParallelOperationThreadCount
CloudBlobClient.Timeout Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the default timeout for requests made by the Blob service client.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Dim instance As CloudBlobClient
Dim value As TimeSpan

value = instance.Timeout

instance.Timeout = value
## Syntax

**Visual Basic**

Public Property Timeout As TimeSpan

**C#**

public TimeSpan Timeout { get; set; }

**C++**

public:

property TimeSpan Timeout {
    TimeSpan get();
    void set(TimeSpan value);
}

**J#**

**JScript**

---

### Property Value

Type: [System.TimeSpan](https://docs.microsoft.com/en-us/dotnet/api/system.timespan)

The timeout interval.
Remarks

The server timeout interval begins at the time that the complete request has been received by the service, and the server begins processing the response. If the timeout interval elapses before the response is returned to the client, the operation times out. The timeout interval resets with each retry, if the request is retried.

The default timeout interval for a request made via the service client is 90 seconds. You can change this value on the service client by setting this property so that all subsequent requests made via the service client will use the new timeout interval. You can also change this value for an individual request, by setting the Timeout property.

Important

If you are downloading a large blob, you should increase the value of the Timeout property beyond the default value.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Setting Timeouts for Blob Service Operations
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets a value indicating whether the integrity of each block should be verified when reading from a stream.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudBlobClient
Dim value As Boolean

value = instance.UseIntegrityControlForStreamReading
instance.UseIntegrityControlForStreamReading = value
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Property UseIntegrityControlForStreamReading As C# public bool UseIntegrityControlForStreamReading { get }</td>
<td></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public bool UseIntegrityControlForStreamReading { get; set (bool value); }</td>
<td></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public: property bool UseIntegrityControlForStreamReading { bool get (); void set (bool value); }</td>
<td></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

Type: `System.Boolean`

*True* if using integrity control for stream reading; otherwise, *false*. The default value is *true*. 
Remarks

When reading small amounts of data, the entire block will need to be downloaded in order to verify its integrity.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient.WriteByteBlockSizeInBytes Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the block size for writing to a block blob.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

### Visual Basic

Dim instance As **CloudBlobClient**
Dim value As **Long**

value = instance.WriteBlockSizeInBytes

instance.WriteBlockSizeInBytes = value
## Syntax

### Visual Basic

```vbnet
Public Property WriteBlockSizeInBytes As Long
```

### C#

```csharp
public long WriteBlockSizeInBytes { get; set; }
```

### C++

```cpp
public:
    property long long WriteBlockSizeInBytes {
        long long get ();
        void set (long long value);
    }
```

### J#

```
```

### JScript

```
```

## Property Value

Type: [System.Int64](https://docs.microsoft.com/en-us/dotnet/api/system.int64)

The size of a block, in bytes, ranging from between 1 and 4 MB inclusive.
- **Thread Safety**
  Any public static (Shared in Visual Basic) members of this type are thread safe.
  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient Events

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Events

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<tr>
<th>Name</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>ResponseReceived</td>
<td>Occurs when a response is received from the server.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlobClient Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient.ResponseReceived Event

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Occurs when a response is received from the server.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlobClient
Dim handler As EventHandler(Of ResponseReceivedEventArgs)
AddHandler instance.ResponseReceived, handler
```
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Event ResponseReceived As EventHandler(Of ResponseReceivedEventArgs)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public event EventHandler&lt;ResponseReceivedEventArgs&gt; ResponseReceived</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| public:
  event EventHandler<ResponseReceivedEventArgs^>^ ResponseReceived;
  void add (EventHandler<ResponseReceivedEventArgs>^ handler);
  void remove (EventHandler<ResponseReceivedEventArgs>^ handler); |

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>JScript</td>
</tr>
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</table>

<table>
<thead>
<tr>
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</table>
Platforms

Development Platforms
See Also

Reference
CloudBlobClient Class
CloudBlobClient Members
Microsoft.WindowsAzure.StorageClient Namespace
**CloudBlobContainer Class**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a container in the Windows Azure Blob service.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
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</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim instance As <code>CloudBlobContainer</code></td>
</tr>
</tbody>
</table>
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td>Public Class CloudBlobContainer</td>
</tr>
<tr>
<td>C#</td>
<td>public class CloudBlobContainer</td>
</tr>
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<td>JScript</td>
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</tr>
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</table>
**Inheritance Hierarchy**

System.Object

Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a container in the Windows Azure Blob service.

The following tables list the members exposed by the CloudBlobContainer type.
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<tbody>
<tr>
<td>Attributes</td>
<td>Gets the container's attributes.</td>
</tr>
<tr>
<td>Metadata</td>
<td>Gets the container's metadata.</td>
</tr>
<tr>
<td>Name</td>
<td>Gets the name of the container.</td>
</tr>
<tr>
<td>Properties</td>
<td>Gets the container's system properties.</td>
</tr>
<tr>
<td>ServiceClient</td>
<td>Gets the service client for the container.</td>
</tr>
<tr>
<td>Uri</td>
<td>Gets the container's URI.</td>
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## Public Methods (see also **Protected Methods**)

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<tr>
<th>Name</th>
<th>Description</th>
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<td>Overloaded.</td>
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<tr>
<td><strong>BeginCreateIfNotExist</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>BeginDelete</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>BeginFetchAttributes</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>BeginGetPermissions</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>BeginListBlobsSegmented</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>BeginSetMetadata</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>BeginSetPermissions</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>Create</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>CreateIfNotExist</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>Delete</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>EndCreate</strong></td>
<td>Ends an asynchronous operation to create a container.</td>
</tr>
<tr>
<td><strong>EndCreateIfNotExist</strong></td>
<td>Returns the result of an asynchronous request to create the container if it does not already exist.</td>
</tr>
<tr>
<td><strong>EndDelete</strong></td>
<td>Ends an asynchronous operation to delete a container.</td>
</tr>
<tr>
<td><strong>EndFetchAttributes</strong></td>
<td>Ends an asynchronous operation to retrieve the container's attributes.</td>
</tr>
<tr>
<td><strong>EndGetPermissions</strong></td>
<td>Returns the asynchronous result of the request to get the permissions settings for the container.</td>
</tr>
<tr>
<td><strong>EndListBlobsSegmented</strong></td>
<td>Ends an asynchronous operation to return a result segment containing a collection of blob items in the container.</td>
</tr>
<tr>
<td><strong>EndSetMetadata</strong></td>
<td>Ends an asynchronous request operation to set user-defined metadata on the container.</td>
</tr>
<tr>
<td><strong>EndSetPermissions</strong></td>
<td>Returns the result of an asynchronous request to set permissions for the container.</td>
</tr>
<tr>
<td><strong>Equals</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>FetchAttributes</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>GetBlobReference</td>
<td>Gets a reference to a blob in this container.</td>
</tr>
<tr>
<td>GetBlockBlobReference</td>
<td>Gets a reference to a block blob in this container.</td>
</tr>
<tr>
<td>GetDirectoryReference</td>
<td>Gets a reference to a virtual blob directory beneath this container.</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>GetPageBlobReference</td>
<td>Gets a reference to a page blob in this container.</td>
</tr>
<tr>
<td>GetPermissions</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>GetSharedAccessSignature</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>GetType</td>
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</tr>
<tr>
<td>ListBlobs</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>ListBlobsSegmented</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>SetMetadata</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>SetPermissions</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
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<th>Description</th>
</tr>
</thead>
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<td><code>Finalize</code></td>
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<td><code>MemberwiseClone</code></td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
<tr>
<td><code>ParseETagAndLastModified</code></td>
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See Also

Reference
CloudBlobContainer Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobContainer Constructor

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudBlobContainer(String)</code></td>
<td>Initializes a new instance of the <code>CloudBlobContainer</code> class.</td>
</tr>
<tr>
<td><code>CloudBlobContainer(String, CloudBlobClient)</code></td>
<td>Initializes a new instance of the <code>CloudBlobContainer</code> class with a <code>CloudBlobClient</code> object that specifies the endpoint for the Blob service.</td>
</tr>
<tr>
<td><code>CloudBlobContainer(String, StorageCredentials)</code></td>
<td>Initializes a new instance of the <code>CloudBlobContainer</code> class using the storage account's authentication credentials.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Naming and Referencing Containers, Blobs, and Metadata
CloudBlobContainer Constructor (String)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudBlobContainer class.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

**Visual Basic**

```vbnet
Dim containerAddress As String
Dim instance As New CloudBlobContainer(containerAddress)
```
## Syntax

### Visual Basic

```vbnet
Public Sub New ( _
    containerAddress As String _
)
```

### C#

```csharp
public CloudBlobContainer ( 
    string containerAddress
)
```

### C++

```cpp
public:
CloudBlobContainer ( 
    String^ containerAddress
)
```

### J#

```jsharp

```

### JScript

```jscript

```

## Parameters

**containerAddress**

Type: `System.String`

The absolute URI to the container.
Platforms

DevelopmentPlatforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Naming and Referencing Containers, Blobs, and Metadata
CloudBlobContainer Constructor (String, CloudBlobClient)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudBlobContainer class with a CloudBlobClient object that specifies the endpoint for the Blob service.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

Dim containerAddress As String
Dim service As CloudBlobClient

Dim instance As New CloudBlobContainer(containerAddress)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **Visual Basic** | `Public Sub New ( _
  containerAddress As String, _
  service As CloudBlobClient _
) ` |
| **C#** | `public CloudBlobContainer (  
  string containerAddress,
  CloudBlobClient service  
) ` |
| **C++** | `public:
  CloudBlobContainer (  
    String^ containerAddress,
    CloudBlobClient^ service  
) ` |
| **J#** |  |
| **JScript** |  |

### Parameters

- **containerAddress**
  - Type: System.String

  Either the absolute URI to the container, or the container name.
service
Type: Microsoft.WindowsAzure.StorageClient.CloudBlobClient

A client object that specifies the endpoint for the Blob service.
Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Naming and Referencing Containers, Blobs, and Metadata
CloudBlobContainer Constructor (String, StorageCredentials)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudBlobContainer class using the storage account's authentication credentials.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim containerAddress As String
Dim credentials As StorageCredentials

Dim instance As New CloudBlobContainer(containerAddress)
```
## Syntax

### Visual Basic

```vbnet
Public Sub New (_
    containerAddress As String, _
    credentials As StorageCredentials _
)
```

### C#

```csharp
public CloudBlobContainer (  
    string containerAddress,  
    StorageCredentials credentials
)
```

### C++

```cpp
public:
CloudBlobContainer (  
    String^ containerAddress,  
    StorageCredentials^ credentials
)
```

### J#

```jsharp

```

### JScript

```javascript

```

### Parameters

- `containerAddress`
  
  Type: `System.String`

  The absolute URI to the container.
credentials
Type: Microsoft.WindowsAzure.StorageCredentials

The account credentials.
Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Naming and Referencing Containers, Blobs, and Metadata
CloudBlobContainer Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods (see also **Protected Methods**)  

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BeginCreate</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>BeginCreateIfNotExist</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>BeginDelete</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>BeginFetchAttributes</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>BeginGetPermissions</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>BeginListBlobsSegmented</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>BeginSetMetadata</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>BeginSetPermissions</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>Create</td>
<td>Overladen.</td>
</tr>
<tr>
<td>CreateIfNotExist</td>
<td>Overladen.</td>
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<tr>
<td>Delete</td>
<td>Overladen.</td>
</tr>
<tr>
<td>EndCreate</td>
<td>Ends an asynchronous operation to create a container.</td>
</tr>
<tr>
<td>EndCreateTimeExist</td>
<td>Returns the result of an asynchronous request to create the container if it does not already exist.</td>
</tr>
<tr>
<td>EndDelete</td>
<td>Ends an asynchronous operation to delete a container.</td>
</tr>
<tr>
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<td>Returns the result of an asynchronous request to set permissions for the container.</td>
</tr>
<tr>
<td>Equals</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>Method</td>
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See Also

Reference
CloudBlobContainer Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobContainer.BeginCreate Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<td><strong>CloudBlobContainer.BeginCreate</strong> <em>(BlobRequestOptions, AsyncCallback, Object)</em></td>
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<tr>
<td><strong>CloudBlobContainer.BeginCreate</strong> <em>(AsyncCallback, Object)</em></td>
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See Also

Reference
CloudBlobContainer Class
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Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions

Other Resources
Naming and Referencing Containers, Blobs, and Metadata
Begins an asynchronous operation to create a container, using a conditional request based on the BlobRequestOptions that you specify.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim instance As CloudBlobContainer
Dim options As BlobRequestOptions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginCreate(options, callback,
```

**Syntax**

**Visual Basic**

Public Function BeginCreate (    
    options As BlobRequestOptions, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult

**C#**

public IAsyncResult BeginCreate (    
    BlobRequestOptions options,
    AsyncCallback callback,
    Object state
)

**C++**

public: 
IAasyncResult^ BeginCreate (    
    BlobRequestOptions^ options,
    AsyncCallback^ callback,
    Object^ state
)

**J#**

**JScript**

**Parameters**

*options*

An object that specifies any additional options for the request.

*callback*

Type: [System.AsyncCallback](https://msdn.microsoft.com/en-us/library/system.asynccallback)

The callback delegate that will receive notification when the asynchronous operation completes.

*state*

Type: [System.Object](https://msdn.microsoft.com/en-us/library/system.object)

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: [System.IAsyncResult](https://msdn.microsoft.com/en-us/library/system.iaasyncresult)

An [IAsyncResult](https://msdn.microsoft.com/en-us/library/system.iaasyncresult) that references the asynchronous operation.
Example

The following code example creates a new container and defines metadata for it and handles the error in case a container with the same name already exists.

```csharp
static void CreateContainerAsync(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference for the new container.
    CloudBlobContainer container = blobClient.GetContainerReference("newcontainer");

    //Define metadata for the container.
    container.Metadata["media"] = "video";

    //Begin the operation to create the container.
    container.BeginCreate(CreateContainerCallback, container);
}

static void CreateContainerCallback(IAsyncResult result)
{
    CloudBlobContainer container = (CloudBlobContainer)result.AsyncState;

    //End the operation. Handle the error in case the container already exists.
    try
    {
        container.EndCreate(result);
        Console.WriteLine("Container " + container.Name + " created successfully.");
    }
    catch (StorageClientException e)
    {
        if (e.ErrorCode == StorageErrorCode.ContainerAlreadyExists)
        {
```
Console.WriteLine("Cannot create the container.");

else
{
    Console.WriteLine(e.ErrorCode);
}
Remarks

Containers are created directly beneath the storage account. It's not possible to nest one container beneath another.

You can specify metadata on the container at the time that you created it. In this case, the call to **BeginCreate** writes the metadata to the new container, so it's not necessary to also call **SetMetadata**.

The **BeginCreate** method throws a **StorageClientException** if the specified container already exists. The error code returned by the service is **ContainerAlreadyExists**. If a container with the same name is still being deleted, the service returns error code **ContainerBeingDeleted**. If you specify a container with upper-case characters in its name, the method throws a **StorageClientException**.

You can optionally create a default or root container for your storage account. The root container may be inferred from a URL requesting a blob resource. The root container makes it possible to reference a blob from the top level of the storage account hierarchy, without referencing the container name. To add the root container to your storage account, create a container named **$root**.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions

Other Resources
Naming and Referencing Containers, Blobs, and Metadata
CloudBlobContainer.BeginCreate Method (AsyncCallback, Object)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to create a container.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```visualbasic
Dim instance As CloudBlobContainer
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginCreate(callback, state)
```
### Syntax

#### Visual Basic

```vbnet
Public Function BeginCreate ( _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

#### C#

```csharp
public IAsyncResult BeginCreate ( _
    AsyncCallback callback, _
    Object state _
)
```

#### C++

```cpp
public:
IAsyncResult^ BeginCreate ( _
    AsyncCallback^ callback, _
    Object^ state _
)
```

#### J#

```xml

```

#### JScript

```xml

```

### Parameters

**callback**

Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.
**state**
Type: System.Object

A user-defined object that will be passed to the callback delegate.

**Return Value**
Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
Example

The following code example creates a new container and defines metadata for it and handles the error in case a container with the same name already exists.

```csharp
static void CreateContainerAsync(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference for the new container.
    CloudBlobContainer container = blobClient.GetContainerReference("newcontainer");

    //Define metadata for the container.
    container.Metadata["media"] = "video";

    //Begin the operation to create the container.
    container.BeginCreate(CreateContainerCallback, container);
}

static void CreateContainerCallback(IAsyncResult result)
{
    CloudBlobContainer container = (CloudBlobContainer)result.AsyncState;

    //End the operation. Handle the error in case the container already exists.
    try
    {
        container.EndCreate(result);
        Console.WriteLine("Container " + container.Name + " created successfully.");
    }
    catch (StorageClientException e)
    {
        if (e.ErrorCode == StorageErrorCode.ContainerAlreadyExists)
        {
```
Console.WriteLine("Cannot create the container.");
}
else
{
    Console.WriteLine(e.ErrorCode);
}
}
Remarks

Containers are created immediately beneath the storage account. It's not possible to nest one container beneath another.

You can specify metadata on the container at the time that you created it. In this case, the call to `BeginCreate` writes the metadata to the new container, so it's not necessary to also call `SetMetadata`.

The `BeginCreate` method throws a `StorageClientException` if the specified container already exists. The error code returned by the service is `ContainerAlreadyExists`. If a container with the same name is still being deleted, the service returns error code `ContainerBeingDeleted`.

You can optionally create a default or root container for your storage account. The root container may be inferred from a URL requesting a blob resource. The root container makes it possible to reference a blob from the top level of the storage account hierarchy, without referencing the container name. To add the root container to your storage account, create a container named `$root`. 
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<td><code>CloudBlobContainer.BeginCreateIfNotExist(BlobRequestOptions, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous request to create the container if it does not already exist, using a conditional request based on the <code>BlobRequestOptions</code> that you specify.</td>
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<tr>
<td><code>CloudBlobContainer.BeginCreateIfNotExist(AsyncCallback, Object)</code></td>
<td>Begins an asynchronous request to create the container if it does not already exist.</td>
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See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions

Other Resources
Naming and Referencing Containers, Blobs, and Metadata
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous request to create the container if it does not already exist, using a conditional request based on the BlobRequestOptions that you specify.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As CloudBlobContainer
Dim options As BlobRequestOptions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginCreateIfNotExist(options,
## Syntax

### Visual Basic

```vbnet
Public Function BeginCreateIfNotExist ( _
    options As BlobRequestOptions, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginCreateIfNotExist ( 
    BlobRequestOptions options, 
    AsyncCallback callback, 
    Object state
)
```

### C++

```cpp
public: 
IAsyncResult^ BeginCreateIfNotExist ( 
    BlobRequestOptions^ options, 
    AsyncCallback^ callback, 
    Object^ state
)
```

### J#

```
```

### JScript

```
```

### Parameters

- **options**
Type: `Microsoft.WindowsAzure.StorageClient.BlobRequestOptions`

An object that specifies any additional options for the request.

**callback**
Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.

**state**
Type: `System.Object`

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the asynchronous operation.
Example

The following code example creates a container if it does not already exist. Note that if the container does already exist, its metadata will not be updated.

```csharp
static void CreateContainerIfNotExistsAsync(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference for the new container.
    CloudBlobContainer container = blobClient.GetContainerReference("newcontainer");

    //Define metadata for the container.
    container.Metadata["media"] = "images";

    //Begin the operation to create the container.
    container.BeginCreateIfNotExist(CreateContainerIfNotExistsCallback,
        container);
}

static void CreateContainerIfNotExistsCallback(IAsyncResult result)
{
    CloudBlobContainer container = (CloudBlobContainer)result.AsyncState;
    //End the operation and indicate whether the container was created.
    if (container.EndCreateIfNotExist(result))
    {
        Console.WriteLine("Container created successfully.");
    }
    else
    {
        Console.WriteLine("Container was not created.");
    }
}
```
Remarks

Containers are created immediately beneath the storage account. It's not possible to nest one container beneath another.

You can specify metadata on the container at the time that you created it. In this case, the call to BeginCreateIfNotExist writes the metadata to the new container, so it's not necessary to also call SetMetadata.

You can optionally create a default or root container for your storage account. The root container may be inferred from a URL requesting a blob resource. The root container makes it possible to reference a blob from the top level of the storage account hierarchy, without referencing the container name. To add the root container to your storage account, create a container named $root.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions

Other Resources
Naming and Referencing Containers, Blobs, and Metadata
Begins an asynchronous request to create the container if it does not already exist.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

| Dim instance As **CloudBlobContainer** |
| Dim callback As **AsyncCallback**    |
| Dim state As **Object**              |
| Dim returnValue As **IAAsyncResult** |

```vbnet
returnValue = instance.BeginCreateIfNotExists(callback)
```
## Syntax

### Visual Basic

Public Function BeginCreateIfNotExist ( _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult

### C#

public IAsyncResult BeginCreateIfNotExist (  
    AsyncCallback callback,
    Object state
)

### C++

public:
    IAsyncResult^ BeginCreateIfNotExist (  
        AsyncCallback^ callback,
        Object^ state
    )

### J#

### JScript

## Parameters

**callback**

Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.
state
  Type: System.Object

  A user-defined object that will be passed to the callback delegate.

Return Value

Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
Example

The following code example creates a container if it does not already exist. Note that if the container does already exist, its metadata will not be updated.

```csharp
static void CreateContainerIfNotExistsAsync(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient =
       new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference for the new container.
    CloudBlobContainer container = blobClient.GetContainerReference("newcontainer");

    //Define metadata for the container.
    container.Metadata["media"] = "images";

    //Begin the operation to create the container.
    container.BeginCreateIfNotExist(CreateContainerIfNotExistsCallback, container);
}

static void CreateContainerIfNotExistsCallback(IAsyncResult result)
{
    CloudBlobContainer container = (CloudBlobContainer)result.AsyncState;
    //End the operation and indicate whether the container was created.
    if (container.EndCreateIfNotExist(result))
    {
        Console.WriteLine("Container created successfully.");
    }
    else
    {
        Console.WriteLine("Container was not created.");
    }
}
Remarks

Containers are created immediately beneath the storage account. It's not possible to nest one container beneath another.

You can specify metadata on the container at the time that you created it. In this case, the call to `BeginCreateIfNotExist` writes the metadata to the new container, so it's not necessary to also call `SetMetadata`.

You can optionally create a default or root container for your storage account. The root container may be inferred from a URL requesting a blob resource. The root container makes it possible to reference a blob from the top level of the storage account hierarchy, without referencing the container name. To add the root container to your storage account, create a container named `$root`. 
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Naming and Referencing Containers, Blobs, and Metadata
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[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<tr>
<td><strong>CloudBlobContainer.BeginDelete</strong></td>
<td>Begins an asynchronous operation to delete a container, using a conditional request based on the <strong>BlobRequestOptions</strong> that you specify.</td>
</tr>
<tr>
<td><strong>CloudBlobContainer.BeginDelete</strong></td>
<td>Begins an asynchronous operation to delete a container.</td>
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See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions
CloudBlobContainer.BeginDelete Method (BlobRequestOptions, AsyncCallback, Object)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to delete a container, using a conditional request based on the BlobRequestOptions that you specify.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

### Visual Basic

Dim instance As CloudBlobContainer
Dim options As BlobRequestOptions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginDelete(options, callback,
Syntax

Visual Basic

Public Function BeginDelete ( _
    options As BlobRequestOptions, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult

C#

public IAsyncResult BeginDelete ( BlobRequestOptions options,
    AsyncCallback callback,
    Object state
)

C++

public:
IAAsyncResult^ BeginDelete ( BlobRequestOptions^ options,
    AsyncCallback^ callback,
    Object^ state
)

J#


JScript


Parameters

options
Type: `Microsoft.WindowsAzure.StorageClient.BlobRequestOptions`

An object that specifies any additional options for the request.

**callback**
Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.

**state**
Type: `System.Object`

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the asynchronous operation.
Remarks

When a container is deleted, a container with the same name cannot be created for at least 35 seconds; the container may not be available for more than 35 seconds if the service is still processing the request. While the container is being deleted, attempts to create a container of the same name will fail with the service returning additional error information indicating that the container is being deleted. All other operations, including operations on any blobs under the container, will fail until the container has been deleted.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions
Begins an asynchronous operation to delete a container.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudBlobContainer
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginDelete(callback, state)
## Syntax

<p>| | |</p>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
</tbody>
</table>
| Public Function BeginDelete ( _
  callback As AsyncCallback, _
  state As Object _
) As IAsyncResult |  |
| **C#** |  |
| public IAsyncResult BeginDelete ( |
  AsyncCallback callback, |
  Object state |
) |  |
| **C++** |  |
| public: |
| IAsyncResult^ BeginDelete ( |
  AsyncCallback^ callback, |
  Object^ state |
) |  |
| **J#** |  |
|  |  |
| **JScript** |  |
|  |  |

### Parameters

**callback**

- **Type:** System.AsyncCallback

  The callback delegate that will receive notification when the asynchronous operation completes.
**state**

Type: *System.Object*

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: *System.IAsyncResult*

An *IAsyncResult* that references the asynchronous operation.
Remarks

When a container is deleted, a container with the same name cannot be created for at least 35 seconds; the container may not be available for more than 35 seconds if the service is still processing the request. While the container is being deleted, attempts to create a container of the same name will fail with the service returning additional error information indicating that the container is being deleted. All other operations, including operations on any blobs under the container, will fail until the container has been deleted.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
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<th>CloudBlobContainer.BeginFetchAttributes Method</th>
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[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<tbody>
<tr>
<td>CloudBlobContainer.BeginFetchAttributes (BlobRequestOptions, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to retrieve the container's attributes, using a conditional request based on the BlobRequestOptions that you specify.</td>
</tr>
<tr>
<td>CloudBlobContainer.BeginFetchAttributes (AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to retrieve the container's attributes.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions
Begins an asynchronous operation to retrieve the container's attributes, using a conditional request based on the `BlobRequestOptions` that you specify.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

### Visual Basic

Dim instance As CloudBlobContainer
Dim options As BlobRequestOptions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginFetchAttributes(options,
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
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</tr>
</thead>
</table>
| **Visual Basic** | `Public Function BeginFetchAttributes ( _
| | options As BlobRequestOptions, _
| | callback As AsyncCallback, _
| | state As Object _
| | ) As IAsyncResult` |
| **C#** | `public IAsyncResult BeginFetchAttributes ( BlobRequestOptions options,
| | AsyncCallback callback,
| | Object state
| | )` |
| **C++** | `public:
| | IAsyncResult^ BeginFetchAttributes ( BlobRequestOptions^ options,
| | AsyncCallback^ callback,
| | Object^ state
| | )` |
| **J#** | `null` |
| **JScript** | `null` |

### Parameters

- **options**

An object that specifies any additional options for the request.

*callback*

Type: [System.AsyncCallback](https://docs.microsoft.com/en-us/dotnet/api/system.asynccallback)

The callback delegate that will receive notification when the asynchronous operation completes.

*state*

Type: [System.Object](https://docs.microsoft.com/en-us/dotnet/api/system.object)

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: [System.IAsyncResult](https://docs.microsoft.com/en-us/dotnet/api/system.iaasyncresult)

An [IAasyncResult](https://docs.microsoft.com/en-us/dotnet/api/system.iaasyncresult) that references the asynchronous operation.
Example

The following code example retrieves a container's attributes and writes out its properties and metadata.

```csharp
static void FetchContainerAttributesAsync(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a container.
    CloudBlobContainer container = blobClient.GetContainerReference("mycontainer");

    //Populate the container's properties and metadata.
    container.BeginFetchAttributes(FetchContainerAttributesCallback, container);
}

static void FetchContainerAttributesCallback(IAsyncResult result)
{
    CloudBlobContainer container = (CloudBlobContainer)result.AsyncState;

    //Handle the exception in case the container does not exist.
    try
    {
        //End the operation.
        container.EndFetchAttributes(result);

        //List some container properties.
        Console.WriteLine("Container: "+ container.Name);
        Console.WriteLine();
        Console.WriteLine("Container properties:");
        Console.WriteLine("\tLastModifiedUTC: "+ container.Attributes.Properties.LastModifiedUtc);
        Console.WriteLine("\tETag: "+ container.Attributes.Properties.ETag);
    }
    catch
    {
        throw;
    }
}
```
Console.WriteLine();

// Enumerate the container's metadata.
foreach (var metadataKey in container.Metadata.Keys)
{
    Console.WriteLine("Metadata name: " + metadataKey.ToString());
    Console.WriteLine("Metadata value: " + container.Metadata[metadataKey.ToString()]);
}

} catch (StorageClientException e)
{
    if (e.ErrorCode == StorageErrorCode.ResourceNotFound)
    {
        Console.WriteLine("Container does not exist.");
    }
    else
    {
        Console.WriteLine(e.ErrorCode);
    }
}
Remarks

The `BeginFetchAttributes` method begins an operation to populate the container's system properties and user-defined metadata. Before reading a container's properties or metadata, you should always call this method or the `FetchAttributes` method to retrieve the latest values for the container's properties and metadata from the service.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions
Begins an asynchronous operation to retrieve the container's attributes.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As CloudBlobContainer
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginFetchAttributes(callback,
                                           state)
```

### Syntax

#### Visual Basic

```vbnet
Public Function BeginFetchAttributes ( _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

#### C#

```csharp
public IAsyncResult BeginFetchAttributes (  
    AsyncCallback callback,  
    Object state
)
```

#### C++

```cpp
public:  
    IAsyncResult^ BeginFetchAttributes (  
        AsyncCallback^ callback,  
        Object^ state
    )
```

#### J#

```javascript

```

#### JScript

```javascript

```

### Parameters

**callback**

Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.
**state**
Type: System.Object

A user-defined object that will be passed to the callback delegate.

**Return Value**
Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
The following code example retrieves a container's attributes and writes out its properties and metadata.

```csharp
static void FetchContainerAttributesAsync(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a container.
    CloudBlobContainer container = blobClient.GetContainerReference("mycontainer");

    //Populate the container's properties and metadata.
    container.BeginFetchAttributes(FetchContainerAttributesCallback, container);
}

static void FetchContainerAttributesCallback(IAsyncResult result)
{
    CloudBlobContainer container = (CloudBlobContainer)result.AsyncState;

    //Handle the exception in case the container does not exist.
    try
    {
        //End the operation.
        container.EndFetchAttributes(result);

        //List some container properties.
        Console.WriteLine("Container: " + container.Name);
        Console.WriteLine();
        Console.WriteLine("Container properties:");
        Console.WriteLine("\tLastModifiedUTC: " + container.Attributes.Properties.LastModifiedUtc);
        Console.WriteLine("\tETag: " + container.Attributes.Properties.ETag);
    }
    catch
    {
        //Handle any exceptions.
    }
}
```
Console.WriteLine();

// Enumerate the container's metadata.
foreach (var metadataKey in container.Metadata.Keys)
{
    Console.WriteLine("Metadata name: " + metadataKey.ToString());
    Console.WriteLine("Metadata value: " + container.Metadata[metadataKey.ToString()]);
}

catch (StorageClientException e)
{
    if (e.ErrorCode == StorageErrorCode.ResourceNotFound)
    {
        Console.WriteLine("Container does not exist.");
    }
    else
    {
        Console.WriteLine(e.ErrorCode);
    }
}
Remarks

The **BeginFetchAttributes** method begins an operation to populate the container's system properties and user-defined metadata. Before reading a container's properties or metadata, you should always call this method or the **FetchAttributes** method to retrieve the latest values for the container's properties and metadata from the service.
Thread Safety

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference

CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobContainer.BeginGetPermissions Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Managing Access to Blobs and Containers
## Overload List

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<td>CloudBlobContainer.BeginGetPermissions</td>
<td>Begins an asynchronous request to get the permissions settings for the container, using a conditional request based on the BlobRequestOptions that you specify.</td>
</tr>
<tr>
<td>CloudBlobContainer.BeginGetPermissions (AsyncCallback, Object)</td>
<td>Begins an asynchronous request to get the permissions settings for the container.</td>
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See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions
BlobContainerPermissions

Other Resources
Managing Access to Blobs and Containers
CloudBlobContainer.BeginGetPermissions Method (BlobRequestOptions, AsyncCallback, Object)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous request to get the permissions settings for the container, using a conditional request based on the BlobRequestOptions that you specify.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

#### Visual Basic

```vbnet
Dim instance As CloudBlobContainer
Dim options As BlobRequestOptions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginGetPermissions(options, callback)
```
## Syntax

### Visual Basic

```vbnet
Public Function BeginGetPermissions ( _
    options As BlobRequestOptions, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginGetPermissions (  
    BlobRequestOptions options,  
    AsyncCallback callback,  
    Object state
)
```

### C++

```cpp
public:  
    IAsyncResult^ BeginGetPermissions (  
        BlobRequestOptions^ options,  
        AsyncCallback^ callback,  
        Object^ state
    )
```

### J#

```jsharp```

### JScript

```
```

### Parameters

- `options`
An object that specifies any additional options for the request.

**callback**
Type: **System.AsyncCallback**

The callback delegate that will receive notification when the asynchronous operation completes.

**state**
Type: **System.Object**

A user-defined object that will be passed to the callback delegate.

**Return Value**
Type: **System.IAsyncResult**

An **IAsyncResult** that references the asynchronous operation.
Remarks

The **BeginGetPermissions** method begins an operation to return the container's permissions. The container's permissions include its public access setting and any shared access policies it may have.
Thread Safety

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions
BlobContainerPermissions

Other Resources
Managing Access to Blobs and Containers
BeginGetPermissions Method (AsyncCallback, Object)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous request to get the permissions settings for the container.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As CloudBlobContainer
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginGetPermissions(callback,
### Syntax

#### Visual Basic

```vbnet
Public Function BeginGetPermissions ( _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

#### C#

```csharp
public IAsyncResult BeginGetPermissions (  
    AsyncCallback callback,  
    Object state
)
```

#### C++

```cpp
public:  
    IAsyncResult^ BeginGetPermissions (  
        AsyncCallback^ callback,  
        Object^ state
    )
```

#### J#

```
```

#### JScript

```
```

### Parameters

**callback**

Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.
**state**

Type: [System.Object](https://docs.microsoft.com/en-us/dotnet/api/system.object)

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: [System.IAsyncResult](https://docs.microsoft.com/en-us/dotnet/api/system.iasyncresult)

An [IAsyncResult](https://docs.microsoft.com/en-us/dotnet/api/system.iasyncresult) that references the asynchronous operation.
Remarks

The `BeginGetPermissions` method begins an operation to return the container's permissions. The container's permissions include its public access setting and any shared access policies it may have.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobContainer.BeginListBlobsSegmented Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

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<td><strong>CloudBlobContainer.BeginListBlobsSegmented</strong></td>
<td>Begins an asynchronous operation to return a result segment containing a collection of blob items in the container, using a conditional request based on the <code>BlobRequestOptions</code> that you specify.</td>
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See Also

Reference

CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions
CloudBlobContainer.BeginListBlobsSegmented Method (BlobRequestOptions, AsyncCallback, Object)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to return a result segment containing a collection of blob items in the container, using a conditional request based on the BlobRequestOptions that you specify.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlobContainer
Dim options As BlobRequestOptions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginListBlobsSegmented(options)
```
## Syntax

### Visual Basic

```vbnet
Public Function BeginListBlobsSegmented ( _
    options As BlobRequestOptions, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginListBlobsSegmented (  
    BlobRequestOptions options,  
    AsyncCallback callback,  
    Object state
)
```

### C++

```cpp
public: 
    IAsyncResult^ BeginListBlobsSegmented (  
        BlobRequestOptions^ options,  
        AsyncCallback^ callback,  
        Object^ state
    )
```

### J#

```
```

### JScript

```
```

### Parameters

- **options**
Type: Microsoft.WindowsAzure.StorageClient.BlobRequestOptions

An object that specifies any additional options for the request.

callback
Type: System.AsyncCallback

The callback delegate that will receive notification when the asynchronous operation completes.

state
Type: System.Object

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
Remarks

The `BeginListBlobsSegmented` method begins an operation to list blobs in pages. To specify the page size to return, pass in a non-zero value for the `maxResults` parameter. Passing in zero for the `maxResults` parameter returns either the maximum number of results available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the `HasMoreResults` property to check whether the page is complete. For example, if you have specified a page size of 10,000, a value which exceeds the per-operation limit, `HasMoreResults` will return `true`, indicating that the page is not complete. Note that if you have not specified a page size, `HasMoreResults` will always be `false`.

If you have not specified a page size, or the value of `maxResults` is zero, then check the value of the `ContinuationToken` property to determine whether there are more results to return. The continuation token is non-null as long as there are more results to return from the service.

Call the `GetNext` method to return the next segment of results from the service.

The objects returned by the listing depend on the type of listing that is being performed. If the `UseFlatBlobListing` property is set to `true`, the listing will return an enumerable collection of `CloudBlob` objects. If `UseFlatBlobListing` is set to `false` (the default value), the listing may return a collection containing `CloudBlob` objects and `CloudBlobDirectory` objects. The latter case provides a convenience for subsequent enumerations over a virtual blob hierarchy.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to return a result segment containing a collection of blob items in the container.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

**Visual Basic**

```vbnet
Dim instance As CloudBlobContainer
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginListBlobsSegmented(callback)
```
### Syntax

**Visual Basic**

```vbnet
Public Function BeginListBlobsSegmented ( _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

**C#**

```csharp
public IAsyncResult BeginListBlobsSegmented (  
    AsyncCallback callback,  
    Object state
)
```

**C++**

```cpp
public:  
IAsyncResult^ BeginListBlobsSegmented (  
    AsyncCallback^ callback,  
    Object^ state
)
```

**J#**

**JScript**


### Parameters

**callback**

Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.
**state**
Type: [System.Object](https://docs.microsoft.com/en-us/dotnet/api/system.object)

A user-defined object that will be passed to the callback delegate.

**Return Value**
Type: [System.IAsyncResult](https://docs.microsoft.com/en-us/dotnet/api/system.iasyncresult)

An [IAsyncResult](https://docs.microsoft.com/en-us/dotnet/api/system.iasyncresult) that references the asynchronous operation.
Remarks

The `BeginListBlobsSegmented` method begins an operation to list blobs in pages. To specify the page size to return, pass in a non-zero value for the `maxResults` parameter. Passing in zero for the `maxResults` parameter returns either the maximum number of results available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the `HasMoreResults` property to check whether the page is complete. For example, if you have specified a page size of 10,000, a value which exceeds the per-operation limit, `HasMoreResults` will return `true`, indicating that the page is not complete. Note that if you have not specified a page size, `HasMoreResults` will always be `false`.

If you have not specified a page size, or the value of `maxResults` is zero, then check the value of the `ContinuationToken` property to determine whether there are more results to return. The continuation token is non-null as long as there are more results to return from the service.

Call the `GetNext` method to return the next segment of results from the service.

The objects returned by the listing depend on the type of listing that is being performed. If the `UseFlatBlobListing` property is set to `true`, the listing will return an enumerable collection of `CloudBlob` objects. If `UseFlatBlobListing` is set to `false` (the default value), the listing may return a collection containing `CloudBlob` objects and `CloudBlobDirectory` objects. The latter case provides a convenience for subsequent enumerations over a virtual blob hierarchy.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobContainer.BeginListBlobsSegmented Method (Int32, ResultContinuation, BlobRequestOptions, AsyncCallback, Object)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to return a result segment containing a collection of blob items in the container, using a conditional request based on the BlobRequestOptions that you specify. Use this overload when you want to control the maximum number of results returned at a time, and when you want to use a continuation token to determine whether there are more results to return from the service after the current page completes.

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

Visual Basic

Dim instance As CloudBlobContainer
Dim maxResults As Integer
Dim continuationToken As ResultContinuation
Dim options As BlobRequestOptions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginListBlobsSegmented(maxResults...
## Syntax

### Visual Basic

```vbnet
Public Function BeginListBlobsSegmented ( maxResults As Integer, continuationToken As ResultContinuation, options As BlobRequestOptions, callback As AsyncCallback, state As Object ) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginListBlobsSegmented ( int maxResults,
ResultContinuation continuationToken,
BlobRequestOptions options,
AsyncCallback callback,
Object state
)
```

### C++

```cpp
public: IAsyncResult^ BeginListBlobsSegmented ( int maxResults,
ResultContinuation^ continuationToken,
BlobRequestOptions^ options,
AsyncCallback^ callback,
Object^ state
)
```
**Parameters**

*maxResults*

Type: `System.Int32`

A non-negative integer value that indicates the maximum number of results to be returned at a time, up to the per-operation limit of 5000. If this value is zero, the maximum possible number of results will be returned, up to 5000.

*continuationToken*

Type: `Microsoft.WindowsAzure.StorageClient.ResultContinuation`

A continuation token returned by a previous listing operation.

*options*

Type: `Microsoft.WindowsAzure.StorageClient.BlobRequestOptions`

An object that specifies any additional options for the request.

*callback*

Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.

*state*

Type: `System.Object`

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the asynchronous operation.
Remarks

The `BeginListBlobsSegmented` method begins an operation to list blobs in pages. To specify the page size to return, pass in a non-zero value for the `maxResults` parameter. Passing in zero for the `maxResults` parameter returns either the maximum number of results available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the `HasMoreResults` property to check whether the page is complete. For example, if you have specified a page size of 10,000, a value which exceeds the per-operation limit, `HasMoreResults` will return `true`, indicating that the page is not complete. Note that if you have not specified a page size, `HasMoreResults` will always be `false`.

If you have not specified a page size, or the value of `maxResults` is zero, then check the value of the `ContinuationToken` property to determine whether there are more results to return. The continuation token is non-null as long as there are more results to return from the service.

Call the `GetNext` method to return the next segment of results from the service.

The objects returned by the listing depend on the type of listing that is being performed. If the `UseFlatBlobListing` property is set to `true`, the listing will return an enumerable collection of `CloudBlob` objects. If `UseFlatBlobListing` is set to `false` (the default value), the listing may return a collection containing `CloudBlob` objects and `CloudBlobDirectory` objects. The latter case provides a convenience for subsequent enumerations over a virtual blob hierarchy.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions
CloudBlobContainer.BeginSetMetadata Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

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<tr>
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</thead>
<tbody>
<tr>
<td><code>CloudBlobContainer.BeginSetMetadata(BlobRequestOptions, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to set user-defined metadata on the container using a conditional request based on the <code>BlobRequestOptions</code> that you specify.</td>
</tr>
<tr>
<td><code>CloudBlobContainer.BeginSetMetadata(AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to set user-defined metadata on the container.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to set user-defined metadata on the container using a conditional request based on the BlobRequestOptions that you specify.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

### Visual Basic

```vbnet
Dim instance As CloudBlobContainer
Dim options As BlobRequestOptions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginSetMetadata(options, callback)
```
### Syntax

#### Visual Basic

```
Public Function BeginSetMetadata ( _
options As BlobRequestOptions, _
callback As AsyncCallback, _
state As Object _
) As IAsyncResult
```

#### C#

```
public IAsyncResult BeginSetMetadata (  
    BlobRequestOptions options,  
    AsyncCallback callback,  
    Object state
)
```

#### C++

```
public:  
IAasyncResult^ BeginSetMetadata (  
    BlobRequestOptions^ options,  
    AsyncCallback^ callback,  
    Object^ state
)
```

#### J#

```
```

#### JScript

```
```

### Parameters

- `options`
Type: Microsoft.WindowsAzure.StorageClient.BlobRequestOptions

An object that specifies any additional options for the request.

`callback`
Type: System.AsyncCallback

The callback delegate that will receive notification when the asynchronous operation completes.

`state`
Type: System.Object

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: System.IAsyncResult

An `IAsyncResult` that references the asynchronous operation.
Remarks

The **BeginSetMetadata** method writes the metadata values that are specified by the container's **Metadata** property to the service. Note that setting the **Metadata** property sets metadata values on the container reference only; you must call **BeginSetMetadata** or **SetMetadata** to write them to the service.
- **Thread Safety**

  Any public static (*Shared* in Visual Basic) members of this type are thread safe.
  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions
CloudBlobContainer.BeginSetMetadata Method (AsyncCallback, Object)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to set user-defined metadata on the container.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As CloudBlobContainer
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginSetMetadata(callback, state)
**Syntax**

**Visual Basic**

```vbnet
Public Function BeginSetMetadata ( _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

**C#**

```csharp
public IAsyncResult BeginSetMetadata (AsyncCallback callback, Object state)
```

**C++**

```cpp
public:
IAAsyncResult^ BeginSetMetadata (AsyncCallback^ callback, Object^ state)
```

**J#**

```csharp
```

**JScript**

```javascript
```

**Parameters**

*callback*

Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.
**state**

Type: System.Object

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
Remarks

The **BeginSetMetadata** method writes the metadata values that are specified by the container's **Metadata** property to the service. Note that setting the **Metadata** property sets metadata values on the container reference only; you must call **BeginSetMetadata** or **SetMetadata** to write them to the service.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobContainer.BeginSetPermissions Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Managing Access to Blobs and Containers
## Overload List

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<td><code>CloudBlobContainer.BeginSetPermissions(BlobContainerPermissions, BlobRequestOptions, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous request to set permissions for the container, using a conditional request based on the <code>BlobRequestOptions</code> that you specify.</td>
</tr>
<tr>
<td><code>CloudBlobContainer.BeginSetPermissions(BlobContainerPermissions, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous request to set permissions for the container.</td>
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See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions
BlobContainerPermissions

Other Resources
Managing Access to Blobs and Containers
See Also

[BlobRequestOptions]

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous request to set permissions for the container, using a conditional request based on the BlobRequestOptions that you specify.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As CloudBlobContainer
Dim permissions As BlobContainerPermissions
Dim options As BlobRequestOptions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginSetPermissions(permissions)
**Syntax**

**Visual Basic**

```vbnet
Public Function BeginSetPermissions (_
    permissions As BlobContainerPermissions, _
    options As BlobRequestOptions, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

**C#**

```csharp
public IAsyncResult BeginSetPermissions (;
    BlobContainerPermissions permissions,
    BlobRequestOptions options,
    AsyncCallback callback,
    Object state
)
```

**C++**

```cpp
public:
IAsyncResult^ BeginSetPermissions (;
    BlobContainerPermissions^ permissions,
    BlobRequestOptions^ options,
    AsyncCallback^ callback,
    Object^ state
)
```

**J#**

**JScript**
Parameters

permissions
Type: Microsoft.WindowsAzure.StorageClient.BlobContainerPermissions

The permissions to apply to the container.

options
Type: Microsoft.WindowsAzure.StorageClient.BlobRequestOptions

An object that specifies any additional options for the request.

callback
Type: System.AsyncCallback

The callback delegate that will receive notification when the asynchronous operation completes.

state
Type: System.Object

A user-defined object that will be passed to the callback delegate.

Return Value

Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
Remarks

The **BeginSetPermissions** method begins an operation to set the container's permissions. The container's permissions include its public access setting and any shared access policies it may have.
- **Thread Safety**
  
  Any public static *(Shared in Visual Basic)* members of this type are thread safe.
  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions
BlobContainerPermissions

Other Resources
Managing Access to Blobs and Containers
CloudBlobContainer.BeginSetPermissions Method (BlobContainerPermissions, AsyncCallback, Object)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous request to set permissions for the container.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

### Visual Basic

```vbscript
Dim instance As CloudBlobContainer
Dim permissions As BlobContainerPermissions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginSetPermissions(permissions,...)```

# Syntax

## Visual Basic

```vbs
Public Function BeginSetPermissions ( _
    permissions As BlobContainerPermissions, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

## C#

```csharp
public IAsyncResult BeginSetPermissions (BlobContainerPermissions permissions,
AsyncCallback callback,
Object state
)
```

## C++

```cpp
public: 
IAsyncResult^ BeginSetPermissions ( 
    BlobContainerPermissions^ permissions,
    AsyncCallback^ callback,
    Object^ state
)
```

## J#

```jsharp

```

## JScript

```jscript

```

### Parameters

- `permissions`
Type: `Microsoft.WindowsAzure.StorageClient.BlobContainerPermissions`  
The permissions to apply to the container.

`callback`  
Type: `System.AsyncCallback`  
The callback delegate that will receive notification when the asynchronous operation completes.

`state`  
Type: `System.Object`  
A user-defined object that will be passed to the callback delegate.

**Return Value**  
Type: `System.IAsyncResult`  
An `IAsyncResult` that references the asynchronous operation.
Remarks

The `BeginSetPermissions` method begins an operation to set the container's permissions. The container's permissions include its public access setting and any shared access policies it may have.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions
BlobContainerPermissions
CloudBlobContainer.Create Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

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<td>Creates the container using a conditional request based on the BlobRequestOptions that you specify.</td>
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See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Naming and Referencing Containers, Blobs, and Metadata
CloudBlobContainer.Create Method ()

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Creates the container.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
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<td><strong>Visual Basic</strong></td>
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<tr>
<td>Dim instance As <strong>CloudBlobContainer</strong></td>
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<tr>
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<tr>
<td>Public Sub Create</td>
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</tbody>
</table>
The following code example creates a container named `$root`. If the container might already exist, use `CreateIfNotExist`.

```csharp
var account = CloudStorageAccount.Parse(
    "AccountName=myAccount;AccountKey=myAccountKey;DefaultEndpointsProtocol=http"
); var blobClient = account.CreateCloudBlobClient(); var blobContainer = blobClient.GetContainerReference("$root"); blobContainer.Create();
```
Remarks

Containers are created immediately beneath the storage account. It's not possible to nest one container beneath another.

You can specify metadata on the container at the time that you created it. In this case, the call to Create writes the metadata to the new container, so it's not necessary to also call SetMetadata.

The Create method throws a StorageClientException if the specified container already exists. The error code returned by the service is ContainerAlreadyExists. If a container with the same name is still being deleted, the service returns error code ContainerBeingDeleted.

You can optionally create a default or root container for your storage account. The root container may be inferred from a URL requesting a blob resource. The root container makes it possible to reference a blob from the top level of the storage account hierarchy, without referencing the container name. To add the root container to your storage account, create a container named $root.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Naming and Referencing Containers, Blobs, and Metadata
CloudBlobContainer.Create Method (BlobRequestOptions)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Creates the container using a conditional request based on the BlobRequestOptions that you specify.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As CloudBlobContainer
Dim options As BlobRequestOptions

instance.Create(options)
```
## Syntax

### Visual Basic

```vbnet
Public Sub Create ( _
    options As BlobRequestOptions _
)
```

### C#

```csharp
public void Create (  
    BlobRequestOptions options
)
```

### C++

```cpp
public:
    void Create ( 
        BlobRequestOptions^ options
    )
```

### J#

```
```

### JScript

```
```

## Parameters

- **options**
  - Type: [Microsoft.WindowsAzure.StorageClient.BlobRequestOptions](#)

  An object that specifies any additional options for the request.
Remarks

Containers are created immediately beneath the storage account. It's not possible to nest one container beneath another.

You can specify metadata on the container at the time that you created it. In this case, the call to Create writes the metadata to the new container, so it's not necessary to also call SetMetadata.

The Create method throws a StorageClientException if the specified container already exists. The error code returned by the service is ContainerAlreadyExists. If a container with the same name is still being deleted, the service returns error code ContainerBeingDeleted.

You can optionally create a default or root container for your storage account. The root container may be inferred from a URL requesting a blob resource. The root container makes it possible to reference a blob from the top level of the storage account hierarchy, without referencing the container name. To add the root container to your storage account, create a container named $root.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions

Other Resources
Naming and Referencing Containers, Blobs, and Metadata
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<td>CloudBlobContainer.CreateIfNotExist()</td>
<td>Creates the container if it does not already exist.</td>
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<tr>
<td>CloudBlobContainer.CreateIfNotExist(BlobRequestOptions)</td>
<td>Creates the container if it does not already exist, using a conditional request based on the BlobRequestOptions that you specify.</td>
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</table>
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Naming and Referencing Containers, Blobs, and Metadata
**CloudBlobContainer.CreateIfNotExist Method ()**

**See Also**  Example

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</table>

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Creates the container if it does not already exist.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

**Visual Basic**

Dim instance As CloudBlobContainer
Dim returnValue As Boolean

returnValue = instance.CreateIfNotExist
## Syntax

### Visual Basic

Public Function CreateIfNotExist As Boolean

### C#

public bool CreateIfNotExist ()

### C++

public:
bool CreateIfNotExist ()

### J#

### JScript

### Return Value

Type: [System.Boolean](https://docs.microsoft.com/en-us/dotnet/api/system.boolean)

`true` if the container did not already exist and was created; otherwise, `false`. 
Example

The following code example creates a container if it does not exist.

```csharp
static void UploadBlobFromFile(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint,
            new StorageCredentialsAccountAndKey(accountName,
                    accountKey));

    //Get a reference to a container, which may or may not exist.
    CloudBlobContainer container = blobClient.GetContainerReference("mycontainer");

    //Create a new container, if it does not exist.
    container.CreateIfNotExist();

    //Get a reference to a blob, which may or may not exist.
    CloudBlob blob = container.GetBlobReference("myfile.txt");

    //Upload content to the blob, which will create the blob if it does not already exist.
    blob.UploadFile("c:\myfile.txt");
}
```
Remarks

Containers are created immediately beneath the storage account. It's not possible to nest one container beneath another.

You can specify metadata on the container at the time that you created it. In this case, the call to `CreateIfNotExist` writes the metadata to the new container, so it's not necessary to also call `SetMetadata`.

The `CreateIfNotExist` method throws a `StorageClientException` if the specified container already exists. The error code returned by the service is `ContainerAlreadyExists`.

You can optionally create a default or root container for your storage account. The root container may be inferred from a URL requesting a blob resource. The root container makes it possible to reference a blob from the top level of the storage account hierarchy, without referencing the container name. To add the root container to your storage account, create a container named `$root`. 
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Naming and Referencing Containers, Blobs, and Metadata
CloudBlobContainer.CreateIfNotExist Method (BlobRequestOptions)

See Also Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Creates the container if it does not already exist, using a conditional request based on the BlobRequestOptions that you specify.

Namespace: Microsoft.WindowsAzure.StorageClient
Dim instance As CloudBlobContainer
Dim options As BlobRequestOptions
Dim returnValue As Boolean

returnValue = instance.CreateIfNotExist(options)
**Syntax**

**Visual Basic**

```vbnet
Public Function CreateIfNotExist ( _
    options As BlobRequestOptions _
) As Boolean
```

**C#**

```csharp
public bool CreateIfNotExist (  
    BlobRequestOptions options
)
```

**C++**

```cpp
public:
bool CreateIfNotExist (  
    BlobRequestOptions^ options
)
```

**J#**

**JScript**

**Parameters**

- **options**
  - Type: `Microsoft.WindowsAzure.StorageClient.BlobRequestOptions`

  An object that specifies any additional options for the request.

**Return Value**

- Type: `System.Boolean`
true if the container did not already exist and was created; otherwise false.
Example

The following code example creates a container if it does not exist.

```c#
static void UploadBlobFromFile(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a container, which may or may not exist.
    CloudBlobContainer container = blobClient.GetContainerReference("mycontainer");

    //Create a new container, if it does not exist
    container.CreateIfNotExist();

    //Get a reference to a blob, which may or may not exist.
    CloudBlob blob = container.GetBlobReference("myfile.txt");

    //Upload content to the blob, which will create the blob if it does not already exist.
    blob.UploadFile("c:\myfile.txt");
}
```
## Remarks

Containers are created immediately beneath the storage account. It's not possible to nest one container beneath another.

You can specify metadata on the container at the time that you created it. In this case, the call to `CreateIfNotExists` writes the metadata to the new container, so it's not necessary to also call `SetMetadata`.

The `CreateIfNotExists` method throws a `StorageClientException` if the specified container already exists. The error code returned by the service is `ContainerAlreadyExists`.

You can optionally create a default or root container for your storage account. The root container may be inferred from a URL requesting a blob resource. The root container makes it possible to reference a blob from the top level of the storage account hierarchy, without referencing the container name. To add the root container to your storage account, create a container named `$root`.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions
CloudBlobContainer.Delete Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<td>CloudBlobContainer.Delete (BlobRequestOptions)</td>
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See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Deletes the container.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

<table>
<thead>
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<th>Visual Basic</th>
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<tbody>
<tr>
<td>Dim instance As CloudBlobContainer</td>
</tr>
<tr>
<td>instance.Delete</td>
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</tbody>
</table>
### Syntax

<table>
<thead>
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<th>Visual Basic</th>
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<tbody>
<tr>
<td>Public Sub Delete</td>
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</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public void Delete ()</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: void Delete ()</td>
</tr>
</tbody>
</table>

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<th>JScript</th>
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</table>
Remarks

When a container is deleted, a container with the same name cannot be created for at least 35 seconds; the container may not be available for more than 35 seconds if the service is still processing the request. While the container is being deleted, attempts to create a container of the same name will fail with the service returning additional error information indicating that the container is being deleted. All other operations, including operations on any blobs under the container, will fail until the container has been deleted.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
Deletes the container using a conditional request based on the `BlobRequestOptions` that you specify.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
<table>
<thead>
<tr>
<th>Usage</th>
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<tbody>
<tr>
<td>Visual Basic</td>
</tr>
</tbody>
</table>

```vbnet
Dim instance As CloudBlobContainer
Dim options As BlobRequestOptions

instance.Delete(options)
```
### Syntax

**Visual Basic**

```vbnet
Public Sub Delete ( _
    options As BlobRequestOptions _
)
```

**C#**

```csharp
public void Delete ( )
```  

**C++**

```cpp
public:  
void Delete ( )
```  

**J#**

```jscript

```

**JScript**

```js

```

### Parameters

- **options**
  - Type: [Microsoft.WindowsAzure.StorageClient.BlobRequestOptions](#)
  
  An object that specifies any additional options for the request.
Remarks

When a container is deleted, a container with the same name cannot be created for at least 35 seconds; the container may not be available for more than 35 seconds if the service is still processing the request. While the container is being deleted, attempts to create a container of the same name will fail with the service returning additional error information indicating that the container is being deleted. All other operations, including operations on any blobs under the container, will fail until the container has been deleted.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions
CloudBlobContainer.EndCreate Method

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to create a container.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlobContainer
Dim asyncResult As IAsyncResult

instance.EndCreate(asyncResult)
```
## Syntax

### Visual Basic

```vbnet
Public Sub EndCreate ( _
    asyncResult As IAsyncResult _
)
```

### C#

```csharp
public void EndCreate (
    IAsyncResult asyncResult
)
```

### C++

```cpp
public:
  void EndCreate ( 
    IAsyncResult^ asyncResult
  )
```

### J#

```
```

### JScript

```
```

## Parameters

`asyncResult`

Type: `System.IAsyncResult`

An `IAsyncResult` that references the pending asynchronous operation.
The following code example creates a new container and defines metadata for it, and handles the error in case a container with the same name already exists.

**C#**

```csharp
static void CreateContainerAsync(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference for the new container.
    CloudBlobContainer container = blobClient.GetContainerReference("newcontainer");

    //Define metadata for the container.
    container.Metadata["media"] = "video";

    //Begin the operation to create the container.
    container.BeginCreate(CreateContainerCallback, container);
}

static void CreateContainerCallback(IAsyncResult result)
{
    CloudBlobContainer container = (CloudBlobContainer)result.AsyncState;

    //End the operation. Handle the error in case the container already exists.
    try
    {
        container.EndCreate(result);
        Console.WriteLine("Container " + container.Name + " created successfully.");
    }
    catch (StorageClientException e)
    {
        if (e.ErrorCode == StorageErrorCode.ContainerAlreadyExists)
        {
            Console.WriteLine("Cannot create the container because it already exists.");
        }
    }
}
```
} else {
    Console.WriteLine(e.ErrorCode);
}
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
Returns the result of an asynchronous request to create the container if it does not already exist.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

**Visual Basic**

Dim instance As **CloudBlobContainer**
Dim asyncResult As **IAsyncResult**
Dim returnValue As **Boolean**

returnValue = instance.EndCreateIfNotExist(asyncResult)
## Syntax

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<tr>
<th>Language</th>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Function EndCreateIfNotExists ( _ asyncResult As IAsyncResult _ ) As Boolean</td>
<td></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public bool EndCreateIfNotExists ( IAsyncResult asyncResult )</td>
<td></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public: bool EndCreateIfNotExists ( IAsyncResult^ asyncResult )</td>
<td></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>

### Parameters

- **asyncResult**
  - Type: System.IAsyncResult
  - An `IAasyncResult` that references the pending asynchronous operation.

### Return Value

- Type: System.Boolean
true if the container did not already exist and was created; otherwise, false.
Example

The following code example creates a container if it does not already exist. Note that if the container does already exist, its metadata will not be updated.

```csharp
static void CreateContainerIfNotExistsAsync(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference for the new container.
    CloudBlobContainer container = blobClient.GetContainerReference("newcontainer");

    //Define metadata for the container.
    container.Metadata["media"] = "images";

    //Begin the operation to create the container.
    container.BeginCreateIfNotExistAsync(CreateContainerIfNotExistsCallback,
    container);}

static void CreateContainerIfNotExistsCallback(IAsyncResult result)
{
    CloudBlobContainer container = (CloudBlobContainer)result.AsyncState;
    //End the operation and indicate whether the container was created.
    if (container.EndCreateIfNotExist(result))
    {
        Console.WriteLine("Container created successfully.");
    }
    else
    {
        Console.WriteLine("Container was not created.");
    }
}
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
**CloudBlobContainer.EndDelete Method**

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.]

Ends an asynchronous operation to delete a container.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlobContainer
Dim asyncResult As IAsyncResult

instance.EndDelete(asyncResult)
```
## Syntax

### Visual Basic

```vbnet
Public Sub EndDelete ( _
    asyncResult As IAsyncResult _
)
```

### C#

```csharp
public void EndDelete (  
    IAsyncResult asyncResult
)
```

### C++

```cpp
public:
void EndDelete (  
    IAsyncResult^ asyncResult
)
```

### J#

```jsp
JScript
```

### Parameters

**asyncResult**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the pending asynchronous operation.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
| CloudBlobContainer.EndFetchAttributes Method |
| See Also                                      |

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to retrieve the container's attributes.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As CloudBlobContainer
Dim asyncResult As IAsyncResult

instance.EndFetchAttributes(asyncResult)
```
### Syntax

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Public Sub EndFetchAttributes ( _asyncResult As IAsyncResult _ )</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>public void EndFetchAttributes ( IAsyncResult asyncResult )</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>public:</td>
<td>void EndFetchAttributes ( IAsyncResult^ asyncResult )</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Parameters

*asyncResult*

Type: `System.IAsyncResult`  
An `IAsyncResult` that references the pending asynchronous operation.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobContainer.EndGetPermissions Method

See Also

This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.

Returns the asynchronous result of the request to get the permissions settings for the container.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbscript
Dim instance As CloudBlobContainer
Dim asyncResult As IAsyncResult
Dim returnValue As BlobContainerPermissions

returnValue = instance.EndGetPermissions(asyncResult)
```
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Function EndGetPermissions ( _</td>
</tr>
<tr>
<td>asyncResult As IAsyncResult _</td>
</tr>
<tr>
<td>) As BlobContainerPermissions</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public BlobContainerPermissions EndGetPermissions (</td>
</tr>
<tr>
<td>IAsyncResult asyncResult</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public:</td>
</tr>
<tr>
<td>BlobContainerPermissions^ EndGetPermissions (</td>
</tr>
<tr>
<td>IAsyncResult^ asyncResult</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

| J#                                    |

| JScript                               |

### Parameters

*asyncResult*

Type: `System.IAsyncResult`

An `IAsyncResult` that references the pending asynchronous operation.

### Return Value

Type: `Microsoft.WindowsAzure.StorageClient.BlobContainerPermissions`
The container's permissions.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobContainer.EndListBlobsSegmented Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to return a result segment containing a collection of blob items in the container.

Namespace: Microsoft.WindowsAzure.StorageClient
## Usage

### Visual Basic

```vbnet
Dim instance As CloudBlobContainer
Dim asyncResult As IAsyncResult
Dim returnValue As ResultSegment(Of IListBlobItem)

returnValue = instance.EndListBlobsSegmented(asyncResult)
```
# Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Function EndListBlobsSegmented ( _ asyncResult As IAsyncResult _ ) As ResultSegment(Of IListBlobItem)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public ResultSegment&lt;IListBlobItem&gt; EndListBlobsSegmented ( IAsyncResult asyncResult )</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: ResultSegment&lt;IListBlobItem&gt;^ EndListBlobsSegmented ( IAsyncResult^ asyncResult )</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

## Parameters

- **asyncResult**
  - Type: System.IAsyncResult

  An IAsyncResult that references the pending asynchronous operation.

## Return Value
Type: Microsoft.WindowsAzure.StorageClient.ResultSegment

A result segment containing objects that implement IListBlobItem.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobContainer.EndSetMetadata Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous request operation to set user-defined metadata on the container.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudBlobContainer
Dim asyncResult As IAsyncResult

instance.EndSetMetadata(asyncResult)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Sub EndSetMetadata ( _ asyncResult As IAsyncResult _ )</td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public void EndSetMetadata ( IAsyncResult asyncResult )</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public: void EndSetMetadata ( IAsyncResult^ asyncResult )</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Parameters

* **asyncResult**
  
  Type: *System.IAsyncResult*
  
  An **IAsyncResult** that references the pending asynchronous operation.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobContainer.EndSetPermissions Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns the result of an asynchronous request to set permissions for the container.

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

**Visual Basic**

Dim instance As CloudBlobContainer
Dim asyncResult As IAsyncResult

instance.EndSetPermissions(asyncResult)
**Syntax**

**Visual Basic**

```vbnet
Public Sub EndSetPermissions ( _
    asyncResult As IAsyncResult _
)
```

**C#**

```csharp
public void EndSetPermissions (  
    IAsyncResult asyncResult
)
```

**C++**

```cpp
public:
void EndSetPermissions (  
    IAsyncResult^ asyncResult
)
```

**J#**

**JScript**

**Parameters**

- **asyncResult**
  - Type: `System.IAsyncResult`

  An `IAsyncResult` that references the pending asynchronous operation.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobContainer.FetchAttributes Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CloudBlobContainer.FetchAttributes</strong></td>
<td>Retrieves the container's attributes, including its system properties and user-defined metadata.</td>
</tr>
<tr>
<td><strong>CloudBlobContainer.FetchAttributes</strong> <em>(BlobRequestOptions)</em></td>
<td>Retrieves the container's attributes, including its system properties and user-defined metadata, using a conditional request based on the <a href="#">BlobRequestOptions</a> that you specify.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Setting and Retrieving Properties and Metadata
CloudBlobContainer.FetchAttributes Method ()

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Retrieves the container's attributes, including its system properties and user-defined metadata.

Namespace: Microsoft.WindowsAzure.StorageClient
## Usage

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim instance As CloudBlobContainer</td>
</tr>
<tr>
<td>instance.FetchAttributes</td>
</tr>
<tr>
<td>Language</td>
</tr>
<tr>
<td>----------</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td><strong>C#</strong></td>
</tr>
<tr>
<td><strong>C++</strong></td>
</tr>
<tr>
<td><strong>J#</strong></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
</tr>
</tbody>
</table>
Example

The following code example fetches the container's attributes and writes out its properties and metadata.

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>static void ListContainerPropertiesAndMetadata(Uri blobEndpoint, string accountName, string accountKey) {</td>
</tr>
<tr>
<td>// Create service client for credentialed access to the Blob service.</td>
</tr>
<tr>
<td>CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));</td>
</tr>
<tr>
<td>// Get a reference to a container.</td>
</tr>
<tr>
<td>CloudBlobContainer container = blobClient.GetContainerReference(&quot;mycontainer&quot;);</td>
</tr>
<tr>
<td>// Populate the container's attributes.</td>
</tr>
<tr>
<td>container.FetchAttributes();</td>
</tr>
<tr>
<td>// List some container properties.</td>
</tr>
<tr>
<td>Console.WriteLine(&quot;Container: &quot;+container.Name);</td>
</tr>
<tr>
<td>Console.WriteLine();</td>
</tr>
<tr>
<td>Console.WriteLine(&quot;Container properties:&quot;);</td>
</tr>
<tr>
<td>Console.WriteLine(&quot;\tLastModifiedUTC: &quot; + container.Attributes.Properties.LastModifiedUtc);</td>
</tr>
<tr>
<td>Console.WriteLine(&quot;\tETag: &quot; + container.Attributes.Properties.ETag);</td>
</tr>
<tr>
<td>Console.WriteLine();</td>
</tr>
<tr>
<td>// Enumerate the container's metadata.</td>
</tr>
<tr>
<td>foreach (var metadataKey in container.Metadata.Keys) {</td>
</tr>
<tr>
<td>Console.WriteLine(&quot;Metadata name: &quot; + metadataKey.ToString());</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>
Remarks

The **FetchAttributes** method begins an operation to populate the container's system properties and user-defined metadata. Before reading a container's properties or metadata, you should always call this method or the **BeginFetchAttributes** method to retrieve the latest values for the container's properties and metadata from the service.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Setting and Retrieving Properties and Metadata
<table>
<thead>
<tr>
<th>CloudBlobContainer.FetchAttributes Method (BlobRequestOptions)</th>
</tr>
</thead>
</table>

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Retrieves the container's attributes, including its system properties and user-defined metadata, using a conditional request based on the BlobRequestOptions that you specify.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlobContainer
Dim options As BlobRequestOptions

instance.FetchAttributes(options)
```
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Sub FetchAttributes ( _ _ options As BlobRequestOptions _ )</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public void FetchAttributes ( BlobRequestOptions options )</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: void FetchAttributes ( BlobRequestOptions^ options )</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

**Parameters**

**options**

Type: [Microsoft.WindowsAzure.StorageClient.BlobRequestOptions](#)

An object that specifies any additional options for the request.
Example

The following code example fetches the container's attributes and writes out its properties and metadata.

```csharp
static void ListContainerPropertiesAndMetadata(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a container.
    CloudBlobContainer container = blobClient.GetContainerReference("mycontainer");

    //Populate the container's attributes.
    container.FetchAttributes();

    //List some container properties.
    Console.WriteLine("Container:	" + container.Name);
    Console.WriteLine();
    Console.WriteLine("Container properties:");
    Console.WriteLine("\tLastModifiedUTC: " + container.Attributes.Properties.LastModifiedUtc);
    Console.WriteLine("\tETag: " + container.Attributes.Properties.ETag);
    Console.WriteLine();

    //Enumerate the container's metadata.
    foreach (var metadataKey in container.Metadata.Keys)
    {
        Console.WriteLine("Metadata name: " + metadataKey.ToString());
    }
}
```
Remarks

The **FetchAttributes** method begins an operation to populate the container's system properties and user-defined metadata. Before reading a container's properties or metadata, you should always call this method or the **BeginFetchAttributes** method to retrieve the latest values for the container's properties and metadata from the service.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions

Other Resources
Setting and Retrieving Properties and Metadata
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a reference to a blob in this container.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbscript
Dim instance As CloudBlobContainer
Dim blobAddressUri As String
Dim returnValue As CloudBlob

returnValue = instance.GetBlobReference(blobAddressUri)
```
Syntax

Visual Basic

Public Function GetBlobReference ( _
    blobAddressUri As String _
) As CloudBlob

C#

public CloudBlob GetBlobReference (  
    string blobAddressUri  
)

C++

public:
    CloudBlob^ GetBlobReference (  
        String^ blobAddressUri  
    )

J#


JScript


Parameters

blobAddressUri
    Type: System.String

    The URI of the blob relative to the container.

Return Value

Type: Microsoft.WindowsAzure.StorageClient.CloudBlob
A reference to a blob.
Remarks

The `blobAddressUri` parameter is the URI of the blob relative to the container. For example, consider the following code sample:

```csharp
public CloudBlob GetCloudBlob(string storageAccountName, string key)
{
    // Create a reference to the storage account.
    StorageCredentialsAccountAndKey storageCredentials = new StorageCredentialsAccountAndKey(storageAccountName, key);
    CloudStorageAccount storageAccount = new CloudStorageAccount(storageCredentials, false);

    // Create a reference to a blob container and a blob within the container.
    CloudBlobClient blobClient = storageAccount.CreateCloudBlobClient();
    CloudBlobContainer container = blobClient.GetContainerReference("mycontainer");
    CloudBlob myBlob = container.GetBlobReference("myblob");

    return myBlob;
}
```
Thread Safety

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
Gets a reference to a block blob in this container.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlobContainer
Dim blobAddressUri As String
Dim returnValue As CloudBlockBlob

returnValue = instance.GetBlockBlobReference(blobAddressUri)
```
Syntax

Visual Basic

Public Function GetBlockBlobReference (_
    blobAddressUri As String _
) As CloudBlockBlob

C#

public CloudBlockBlob GetBlockBlobReference ( _
    string blobAddressUri
)

C++

public:
CloudBlockBlob^ GetBlockBlobReference ( _
    String^ blobAddressUri
)

J#

JScript

Parameters

blobAddressUri
    Type: System.String

    The URI of the blob relative to the container.

Return Value

Type: Microsoft.WindowsAzure.StorageClient.CloudBlockBlob
A reference to a block blob.
Remarks

The `blobAddressUri` parameter is the URI of the block blob relative to the container. For example, consider the following code sample:

```csharp
public CloudBlockBlob GetCloudBlockBlob(string storageAccountName, string key)
{
    // Create a reference to the storage account.
    StorageCredentialsAccountAndKey storageCredentials = new StorageCredentialsAccountAndKey(storageAccountName, key);
    CloudStorageAccount storageAccount = new CloudStorageAccount(storageCredentials, false);

    // Create a reference to a blob container and a block blob within the container.
    CloudBlobClient blobClient = storageAccount.CreateCloudBlobClient();
    CloudBlobContainer container = blobClient.GetContainerReference("mycontainer");
    CloudBlockBlob myBlob = container.GetBlockBlobReference("myblob");

    return myBlob;
}
```
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a reference to a virtual blob directory beneath this container.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlobContainer
Dim relativeAddress As String
Dim returnValue As CloudBlobDirectory

returnValue = instance.GetDirectoryReference(relativeAddress)
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **Visual Basic** | `Public Function GetDirectoryReference ( _
relativeAddress As String _) As CloudBlobDirectory` |
| **C#** | `public CloudBlobDirectory GetDirectoryReference ( string relativeAddress )` |
| **C++** | `public:
CloudBlobDirectory^ GetDirectoryReference ( String^ relativeAddress )` |
| **J#** |  |
| **JScript** |  |

### Parameters

- **relativeAddress**  
  Type: `System.String`  
  The name of the virtual blob directory, or the absolute URI to the virtual blob directory.

### Return Value

A reference to a virtual blob directory.
 Threadsafety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobContainer.GetPageBlobReference Method

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a reference to a page blob in this container.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```visualbasic
Dim instance As CloudBlobContainer
Dim blobAddressUri As String
Dim returnValue As CloudPageBlob

returnValue = instance.GetPageBlobReference(blobAddressUri)
```
Syntax

Visual Basic

Public Function GetPageBlobReference ( _
  blobAddressUri As String _
) As CloudPageBlob

C#

public CloudPageBlob GetPageBlobReference ( 
  string blobAddressUri
)

C++

public: 
CloudPageBlob^ GetPageBlobReference ( 
  String^ blobAddressUri
)

J#


JScript

Parameters

blobAddressUri
Type: System.String

The URI of the blob relative to the container.

Return Value

Type: Microsoft.WindowsAzure.StorageClient.CloudPageBlob
A reference to a page blob.
Remarks

The `blobAddressUri` parameter is the URI of the page blob relative to the container. For example, consider the following code sample:

```csharp
public CloudPageBlob GetCloudPageBlob(string storageAccountName, s
{
    // Create a reference to the storage account.
    StorageCredentialsAccountAndKey storageCredentials = new Storage
    CloudStorageAccount storageAccount = new CloudStorageAccount(s

    // Create a reference to a blob container and a page blob with.
    CloudBlobClient blobClient = storageAccount.CreateCloudBlobCli
    CloudBlobContainer container = blobClient.GetContainerReference;
    CloudPageBlob myBlob = container.GetPageBlobReference("myblob"

    return myBlob;
}
```
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
Change History
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobContainer.GetPermissions Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Managing Access to Blobs and Containers
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CloudBlobContainer.GetPermissions()</td>
<td>Gets the permissions settings for the container.</td>
</tr>
<tr>
<td>CloudBlobContainer.GetPermissions(BlobRequestOptions)</td>
<td>Gets the permissions settings for the container, using a conditional request based on the BlobRequestOptions that you specify.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobContainerPermissions

Other Resources
Managing Access to Blobs and Containers
Managing Access to Blobs and Containers
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the permissions settings for the container.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As CloudBlobContainer
Dim returnValue As BlobContainerPermissions

returnValue = instance.GetPermissions
### Syntax

<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public Function GetPermissions As BlobContainerPermissions</td>
<td></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public BlobContainerPermissions GetPermissions ()</td>
<td></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td></td>
</tr>
<tr>
<td>public: BlobContainerPermissions GetPermissions ()</td>
<td></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Return Value**


The container's permissions.
Remarks

The **GetPermissions** method begins an operation to return the container's permissions. The container's permissions include its public access setting and any shared access policies it may have.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
- CloudBlobContainer Class
- CloudBlobContainer Members
- Microsoft.WindowsAzure.StorageClient Namespace
- BlobContainerPermissions

Other Resources
- Managing Access to Blobs and Containers
- Managing Access to Blobs and Containers
Gets the permissions settings for the container, using a conditional request based on the `BlobRequestOptions` that you specify.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlobContainer
Dim options As BlobRequestOptions
Dim returnValue As BlobContainerPermissions

returnValue = instance.GetPermissions(options)
```
## Syntax

### Visual Basic

```vbnet
Public Function GetPermissions (  
    options As BlobRequestOptions  
) As BlobContainerPermissions
```

### C#

```csharp
public BlobContainerPermissions GetPermissions (  
    BlobRequestOptions options  
)
```

### C++

```cpp
public:  
    BlobContainerPermissions^ GetPermissions (  
        BlobRequestOptions^ options  
    )
```

### J#

```
```

### JScript

```
```

## Parameters

**options**

Type: [Microsoft.WindowsAzure.StorageClient.BlobRequestOptions](#)

An object that specifies any additional options for the request.

## Return Value

Type: [Microsoft.WindowsAzure.StorageClient.BlobContainerPermissions](#)
The container's permissions.
Remarks

The **GetPermissions** method begins an operation to return the container's permissions. The container's permissions include its public access setting and any shared access policies it may have.
Thread Safety

Any public static (**Shared** in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions
BlobContainerPermissions
CloudBlobContainer.GetSharedAccessSignature Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Managing Access to Blobs and Containers
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudBlobContainer.GetSharedAccessSignature(SharedAccessPolicy)</code></td>
<td>Returns a shared access signature for a blob which grants access to the content and metadata of that blob.</td>
</tr>
<tr>
<td><code>CloudBlobContainer.GetSharedAccessSignature(SharedAccessPolicy, String)</code></td>
<td>Returns a shared access signature for the container which grants access to the content and metadata of any blob in the container, and to the list of blobs in the container.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Managing Access to Blobs and Containers
CloudBlobContainer.GetSharedAccessSignature Method (SharedAccessPolicy)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a shared access signature for a blob which grants access to the content and metadata of that blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

#### Visual Basic

```vbnet
Dim instance As CloudBlobContainer
Dim policy As SharedAccessPolicy
Dim returnValue As String

returnValue = instance.GetSharedAccessSignature(policy)
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| Visual Basic | `Public Function GetSharedAccessSignature ( _
| | policy As SharedAccessPolicy _) As String` |
| C# | `public string GetSharedAccessSignature ( SharedAccessPolicy policy)` |
| C++ | `public: String^ GetSharedAccessSignature ( SharedAccessPolicy^ policy)` |
| J# |  |
| JScript |  |

### Parameters

*policy*

Type: [Microsoft.WindowsAzure.StorageClient.SharedAccessPolicy](#)

The access policy for the shared access signature.

### Return Value

Type: [System.String](#)
A shared access signature.
Example

The following code example creates a shared access signature for a container. Note that the access policy is defined on the container, rather than on the signature.

```csharp
static void CreateSASUsingContainerAccessPolicy()
{
    //Retrieve storage account information from an app.config file.
    //This is one way to store and retrieve a connection string
    //that will run locally, rather than in Windows Azure.
    CloudStorageAccount storageAccount = CloudStorageAccount.Parse(ConfigurationManager.AppSettings["StorageAccountConnectionString"]);

    //Create the blob client object.
    CloudBlobClient blobClient = storageAccount.CreateCloudBlobClient();

    //Get a reference to the container for which shared access signature will be created.
    CloudBlobContainer container = blobClient.GetContainerReference("mysascontainer");
    container.CreateIfNotExist();

    //Create a permission policy, consisting of a container-level access policy and a public access setting, and store it on the container.
    BlobContainerPermissions containerPermissions = new BlobContainerPermissions();

    //The container-level access policy provides read/write access to the container for 10 hours.
    {
        //If valid immediately, don’t set SharedAccessStartTime,
        //to avoid failures caused by small clock differences.
        //This policy goes live one hour from now.
        SharedAccessStartTime = DateTime.UtcNow.AddHours(1),
        SharedAccessExpiryTime = DateTime.UtcNow.AddHours(11),
        Permissions = SharedAccessPermissions.Write | SharedAccessPermissions.Read
    });
```
// The public access setting explicitly specifies that the container is private,
// so that it can't be accessed anonymously.
containerPermissions.PublicAccess = BlobContainerPublicAccessType.Off;

// Set the permission policy on the container.
container.SetPermissions(containerPermissions);

// Get the shared access signature to share with clients.
// Note that this call passes in an empty access policy,
// so that the shared access signature will use the 'mypolicy' access policy
string sas = container.GetSharedAccessSignature(new SharedAccessPolicy(), "mypolicy");

// Clients can use the signature to create a service client.
StorageCredentialsSharedAccessSignature sasCreds = new StorageCredentialsSharedAccessSignature(sas);
CloudBlobClient sasBlobClient = new CloudBlobClient(storageAccount.BlobEndpoint, sasCreds);

// Return a reference to a blob.
CloudBlob blob = sasBlobClient.GetBlobReference("mysascontainer/myblob.txt");

// Upload text to the blob. If the blob does not exist, it will be created.
// If the blob does exist, its existing content will be overwritten.
blob.UploadText("Hello SAS World");

Remarks

A shared access signature is a token that provides delegated access to blob resources. You can provide this token to clients in order to grant them specific permissions to resources for a controlled period of time. A shared access signature created for a blob grants access just to the content and metadata of the blob. A shared access signature created for a container grants access to the content and metadata of any blob in the container, and to the list of blobs in the container.

The parameters of the shared access signature that govern access are:

- The start time at which the signature becomes valid.
- The time at which it expires.
- The permissions that it grants.

These parameters are specified in an access policy, represented by the SharedAccessPolicy class. There are two ways to specify an access policy:

- You can specify it on a single shared access signature. In this case, the interval over which the signature may be valid is limited to one hour.
- You can specify it by creating a container-level access policy, which can be associated with one or more shared access signatures. This approach has the advantage of making it possible to revoke a shared access signature, if it should be compromised. To specify that the access policy should be used by the signature, call the overload that includes the groupPolicyIdentifier parameter.

You can also specify some parameters of the access policy on the signature and some on a container-level access policy. However, if you specify a parameter in both places, the parameter specified for the signature overrides that provided by the container-level access policy.

For more information on shared access signatures, see Creating a Shared Access
Signature. For details on container-level access policies, see Specify a Container-Level Access Policy.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Managing Access to Blobs and Containers
Returns a shared access signature for the container which grants access to the content and metadata of any blob in the container, and to the list of blobs in the container.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As CloudBlobContainer
Dim policy As SharedAccessPolicy
Dim groupPolicyIdentifier As String
Dim returnValue As String

returnValue = instance.GetSharedAccessSignature(policy)
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Public Function GetSharedAccessSignature ( _  
|   policy As SharedAccessPolicy, _  
|   groupPolicyIdentifier As String _  
| ) As String |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
</table>
| public string GetSharedAccessSignature (  
|   SharedAccessPolicy policy,  
|   string groupPolicyIdentifier  
| ) |

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| public:  
| String^ GetSharedAccessSignature (  
|   SharedAccessPolicy^ policy,  
|   String^ groupPolicyIdentifier  
| ) |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>

### Parameters

- **policy**

  The access policy for the shared access signature.
groupPolicyIdentifier
Type: System.String

A container-level access policy.

Return Value
Type: System.String

A shared access signature.
Example

The following code example creates a shared access signature for a container. Note that the access policy is defined on the container, rather than on the signature.

```
C#

static void CreateSASUsingContainerAccessPolicy()
{
    //Retrieve storage account information from an app.config file.
    //This is one way to store and retrieve a connection string that will run locally, rather than in Windows Azure.
    CloudStorageAccount storageAccount = CloudStorageAccount.Parse(
        ConfigurationManager.AppSettings["StorageAccountConnectionString"]) ;

    //Create the blob client object.
    CloudBlobClient blobClient = storageAccount.CreateCloudBlobClient();

    //Get a reference to the container for which shared access signature will be created.
    CloudBlobContainer container = blobClient.GetContainerReference("mysascontainer");
    container.CreateIfNotExist();

    //Create a permission policy, consisting of a container-level access policy and a public access setting, and store it on the container.
    BlobContainerPermissions containerPermissions = new BlobContainerPermissions();

    //The container-level access policy provides read/write access to the container for 10 hours.
    {
        //If valid immediately, don’t set SharedAccessStartTime,
        //to avoid failures caused by small clock differences.
        //This policy goes live one hour from now.
        SharedAccessStartTime = DateTime.UtcNow.AddHours(1),
        SharedAccessExpiryTime = DateTime.UtcNow.AddHours(11),
    });
}
```
Permissions = SharedAccessPermissions.Write;
}

// The public access setting explicitly specifies
// so that it can't be accessed anonymously.
containerPermissions.PublicAccess = BlobContainerPublicAccessType.Off;

// Set the permission policy on the container.
container.SetPermissions(containerPermissions);

// Get the shared access signature to share with clients.
// Note that this call passes in an empty access policy,
// signature will use the 'mypolicy' access policy.
string sas = container.GetSharedAccessSignature(new SharedAccessPolicy(),"mypolicy");

// Clients can use the signature to create a service
// StorageCredentialsSharedAccessSignature sasCreds =
// new StorageCredentialsSharedAccessSignature(sas);
// CloudBlobClient sasBlobClient = new CloudBlobClient(
// new StorageCredentialsSharedAccessSignature(sas));

// Return a reference to a blob.
CloudBlob blob = sasBlobClient.GetBlobReference("mysascontainer/myblob.txt");

// Upload text to the blob. If the blob does not
// If the blob does exist, its existing content will
blob.UploadText("Hello SAS World");
Remarks

A shared access signature is a token that provides delegated access to blob resources. You can provide this token to clients in order to grant them specific permissions to resources for a controlled period of time. A shared access signature created for a blob grants access just to the content and metadata of the blob. A shared access signature created for a container grants access to the content and metadata of any blob in the container, and to the list of blobs in the container.

The parameters of the shared access signature that govern access are:

- The start time at which the signature becomes valid.
- The time at which it expires.
- The permissions that it grants.

These parameters are specified in an access policy, represented by the `SharedAccessPolicy` class. There are two ways to specify an access policy:

- You can specify it on a single shared access signature. In this case, the interval over which the signature may be valid is limited to one hour.

- You can specify it by creating a container-level access policy, which can be associated with one or more shared access signatures. This approach has the advantage of making it possible to revoke a shared access signature, if it should be compromised. To specify that the access policy should be used by the signature, call the overload that includes the `groupPolicyIdentifier` parameter.

You can also specify some parameters of the access policy on the signature and some on a container-level access policy. However, if you specify a parameter in both places, the parameter specified for the signature overrides that provided by the container-level access policy.

For more information on shared access signatures, see Creating a Shared Acces
For details on container-level access policies, see "Specifying a Container-Level Access Policy."
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobContainer.ListBlobs Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudBlobContainer.ListBlobs()</code></td>
<td>Returns an enumerable collection of the blobs in the container.</td>
</tr>
<tr>
<td><code>CloudBlobContainer.ListBlobs(BlobRequestOptions)</code></td>
<td>Returns an enumerable collection of the blobs in the container, that are retrieved lazily, using a conditional request based on the <code>BlobRequestOptions</code> that you specify.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobContainer.ListBlobs Method ()

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns an enumerable collection of the blobs in the container.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

#### Visual Basic

Dim instance As **CloudBlobContainer**
Dim returnValue As **IEnumerable(Of IListBlobItem)**

returnValue = instance.ListBlobs
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Function ListBlobs As IEnumerable(Of IListBlobItem)</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public IEnumerable&lt;IListBlobItem&gt; ListBlobs ()</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public:</code> <code>IEnumerable&lt;IListBlobItem&gt;^</code> <code>ListBlobs ()</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>

### Return Value

Type: `System.Collections.Generic.IEnumerable`

An enumerable collection of objects that implement `IListBlobItem`. 
The following code example lists blobs in a container first hierarchically, and then using a flat blob listing. Note that the two listings will differ only if the blobs in the container include a delimiter character in their names, and therefore constitute a virtual directory structure.

**C#**

```csharp
static void ListBlobsInContainer(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
                             new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to the container.
    CloudBlobContainer container = blobClient.GetContainerReference("myblobs");

    //List blobs and directories in this container hierarchically.
    foreach (var blobItem in container.ListBlobs())
    {
        Console.WriteLine(blobItem.Uri);
    }
    Console.WriteLine();

    //List blobs in this container using a flat listing.
    BlobRequestOptions options = new BlobRequestOptions();
    options.UseFlatBlobListing = true;

    //List snapshots, which requires a flat blob listing.
    options.BlobListingDetails = BlobListingDetails.Snapshots;

    foreach (var blobItem in container.ListBlobs(options))
    {
        Console.WriteLine(blobItem.Uri);
    }
}
```
Remarks

The types of objects returned by the **ListBlobs** method depend on the type of listing that is being performed. If the **UseFlatBlobListing** property is set to **true** the listing will return an enumerable collection of **CloudBlob** objects. If **UseFlatBlobListing** is set to **false** (the default value), the listing may return a collection containing **CloudBlob** objects and **CloudBlobDirectory** objects. The latter case provides a convenience for subsequent enumerations over a virtual blob hierarchy.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference

CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
Returns an enumerable collection of the blobs in the container, that are retrieved lazily, using a conditional request based on the BlobRequestOptions that you specify.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudBlobContainer
Dim options As BlobRequestOptions
Dim returnValue As IEnumerable(Of IListBlobItem)

returnValue = instance.ListBlobs(options)
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Public Function ListBlobs ( _  
| options As BlobRequestOptions _  
| ) As IEnumerable(Of IListBlobItem) |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
</table>
| public IEnumerable<IListBlobItem> ListBlobs (  
| BlobRequestOptions options  
| ) |

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| public: 
| IEnumerable<IListBlobItem>^ ListBlobs (  
| BlobRequestOptions^ options  
| ) |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>

### Parameters

- **options**  
  Type: `Microsoft.WindowsAzure.StorageClient.BlobRequestOptions`  
  An object that specifies any additional options for the request.

### Return Value

Type: `System.Collections.Generic.IEnumerable`
An enumerable collection of objects that implement `IListBlobItem` and are retrieved lazily.
The following code example lists blobs in a container first hierarchically, and then using a flat blob listing. Note that the two listings will differ only if the blobs in the container include a delimiter character in their names, and therefore constitute a virtual directory structure.

```csharp
static void ListBlobsInContainer(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
            new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to the container.
    CloudBlobContainer container = blobClient.GetContainerReference("myblobs");

    //List blobs and directories in this container hierarchically.
    foreach (var blobItem in container.ListBlobs())
    {
        Console.WriteLine(blobItem.Uri);
    }
    Console.WriteLine();

    //List blobs in this container using a flat listing.
    BlobRequestOptions options = new BlobRequestOptions();
    options.UseFlatBlobListing = true;

    //List snapshots, which requires a flat blob listing.
    options.BlobListingDetails = BlobListingDetails.Snapshots;

    foreach (var blobItem in container.ListBlobs(options))
    {
        Console.WriteLine(blobItem.Uri);
    }
}
Remarks

The types of objects returned by the `ListBlobs` method depend on the type of listing that is being performed. If the `UseFlatBlobListing` property is set to `true` the listing will return an enumerable collection of `CloudBlob` objects. If `UseFlatBlobListing` is set to `false` (the default value), the listing may return a collection containing `CloudBlob` objects and `CloudBlobDirectory` objects. The latter case provides a convenience for subsequent enumerations over a virtual blob hierarchy.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions
CloudBlobContainer/ListBlobsSegmented Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CloudBlobContainer.ListBlobsSegmented(BlobRequestOptions)</td>
<td>Returns a result segment containing a collection of blob items in the container.</td>
</tr>
<tr>
<td>CloudBlobContainer.ListBlobsSegmented(Int32, ResultContinuation, BlobRequestOptions)</td>
<td>Returns a result segment containing a collection of blob items in the container. Use this overload when you want to control the maximum number of results returned at a time, and when you want to use a continuation token to determine whether there are more results to return from the service after the current page completes.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a result segment containing a collection of blob items in the container.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

### Visual Basic

```vbnet
Dim instance As CloudBlobContainer
Dim options As BlobRequestOptions
Dim returnValue As ResultSegment(Of IListBlobItem)

returnValue = instance.ListBlobsSegmented(options)
```
### Syntax

**Visual Basic**

```vbnet
Public Function ListBlobsSegmented ( _
    options As BlobRequestOptions _
) As ResultSegment(Of IListBlobItem)
```

**C#**

```csharp
public ResultSegment<IListBlobItem> ListBlobsSegmented(
    BlobRequestOptions options
)
```

**C++**

```cpp
public:
  ResultSegment<IListBlobItem*> ListBlobsSegmented(
    BlobRequestOptions* options
)
```

**J#**

**JScript**

**Parameters**

**options**  
*Type: Microsoft.WindowsAzure.StorageClient.BlobRequestOptions*

An object that specifies any additional options for the request.

**Return Value**
Type: Microsoft.WindowsAzure.StorageClient.ResultSegment

A result segment containing objects that implement IListBlobItem.
Remarks

The **ListBlobsSegmented** method begins an operation to list blobs in pages. To specify the page size to return, pass in a non-zero value for the `maxResults` parameter. Passing in zero for the `maxResults` parameter returns either the maximum number of results available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the `HasMoreResults` property to check whether the page is complete. For example, if you have specified a page size of 10,000, a value which exceeds the per-operation limit, `HasMoreResults` will return `true`, indicating that the page is not complete. Note that if you have not specified a page size, `HasMoreResults` will always be `false`.

If you have not specified a page size, or the value of `maxResults` is zero, then check the value of the `ContinuationToken` property to determine whether there are more results to return. The continuation token is non-null as long as there are more results to return from the service.

Call the **GetNext** method to return the next segment of results from the service.

The objects returned by the listing depend on the type of listing that is being performed. If the `UseFlatBlobListing` property is set to `true`, the listing will return an enumerable collection of `CloudBlob` objects. If `UseFlatBlobListing` is set to `false` (the default value), the listing may return a collection containing `CloudBlob` objects and `CloudBlobDirectory` objects. The latter case provides a convenience for subsequent enumerations over a virtual blob hierarchy.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.
  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions
CloudBlobContainer.ListBlobsSegmented Method (Int32, ResultContinuation, BlobRequestOptions)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a result segment containing a collection of blob items in the container. Use this overload when you want to control the maximum number of results returned at a time, and when you want to use a continuation token to determine whether there are more results to return from the service after the current page completes.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlobContainer
Dim maxResults As Integer
Dim continuationToken As ResultContinuation
Dim options As BlobRequestOptions
Dim returnValue As ResultSegment(Of IListBlobItem)

returnValue = instance.ListBlobsSegmented(maxResults,
```
### Syntax

#### Visual Basic

```vbnet
Public Function ListBlobsSegmented ( _
    maxResults As Integer, _
    continuationToken As ResultContinuation, _
    options As BlobRequestOptions _
) As ResultSegment(Of IListBlobItem)
```

#### C#

```csharp
public ResultSegment<IListBlobItem> ListBlobsSegmented ( _
    int maxResults,
    ResultContinuation continuationToken,
    BlobRequestOptions options
)
```

#### C++

```cpp
public:
ResultSegment<IListBlobItem>^ ListBlobsSegmented ( _
    int maxResults,
    ResultContinuation^ continuationToken,
    BlobRequestOptions^ options
)
```

#### J#

```jsharp
```

#### JScript

```jscript
```

**Parameters**

- `maxResults`
Type: `System.Int32`

A non-negative integer value that indicates the maximum number of results to be returned at a time, up to the per-operation limit of 5000. If this value is zero, the maximum possible number of results will be returned, up to 5000.

`continuationToken`
Type: `Microsoft.WindowsAzure.StorageClient.ResultContinuation`

A continuation token returned by a previous listing operation.

`options`
Type: `Microsoft.WindowsAzure.StorageClient.BlobRequestOptions`

An object that specifies any additional options for the request.

**Return Value**

Type: `Microsoft.WindowsAzure.StorageClient.ResultSegment`

A result segment containing objects that implement `IListBlobItem`. 
Example

The following code example lists blobs in a container in sets of pages.

```csharp
static void ListBlobsInContainerInSegments(Uri blobEndpoint,
                                          string accountName,
                                          string accountKey)
{
    //Create service client for credentialed access to
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
                             new StorageCredentialsAccountAndKey(accountName,
                                                                  accountKey));

    //Get a reference to a container that contains lots
    CloudBlobContainer container = blobClient.GetContainerReference("lotsofblobs");

    //Return blobs using a flat listing.
    BlobRequestOptions options = new BlobRequestOptions();
    options.UseFlatBlobListing = true;

    //This first operation will return up to 5000 blobs.
    ResultSegment<IListBlobItem> resultSegment = container.ListBlobsSegmented(options);
    foreach (var blobItem in resultSegment.Results)
    {
        Console.WriteLine(blobItem.Uri);
    }

    ResultContinuation continuationToken = resultSegment.ContinuationToken;

    //Check whether there are more results and list them in pages.
    while (continuationToken != null)
    {
        resultSegment = container.ListBlobsSegmented(1000, continuationToken, options);
        foreach (var blobItem in resultSegment.Results)
        {
            Console.WriteLine(blobItem.Uri);
        }
    }
}
```
continuationToken = resultSegment.ContinuationToken;
Remarks

The **ListBlobsSegmented** method begins an operation to list blobs in pages. To specify the page size to return, pass in a non-zero value for the **maxResults** parameter. Passing in zero for the **maxResults** parameter returns either the maximum number of results available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the **HasMoreResults** property to check whether the page is complete. For example, if you have specified a page size of 10,000, a value which exceeds the per-operation limit, **HasMoreResults** will return **true**, indicating that the page is not complete. Note that if you have not specified a page size, **HasMoreResults** will always be **false**.

If you have not specified a page size, or the value of **maxResults** is zero, then check the value of the **ContinuationToken** property to determine whether there are more results to return. The continuation token is non-null as long as there are more results to return from the service.

Call the **GetNext** method to return the next segment of results from the service.

The objects returned by the listing depend on the type of listing that is being performed. If the **UseFlatBlobListing** property is set to **true**, the listing will return an enumerable collection of **CloudBlob** objects. If **UseFlatBlobListing** is set to **false** (the default value), the listing may return a collection containing **CloudBlob** objects and **CloudBlobDirectory** objects. The latter case provides a convenience for subsequent enumerations over a virtual blob hierarchy.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim response As [HttpWebResponse]
Me.ParseETagAndLastModified(response)
```
# Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Protected Sub ParseETagAndLastModified ( _
| response As [HttpWebResponse] _) |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>protected void ParseETagAndLastModified (</td>
</tr>
<tr>
<td>[HttpWebResponse] response</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>protected: void ParseETagAndLastModified (</td>
</tr>
<tr>
<td>[HttpWebResponse] response</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobContainer.SetMetadata Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudBlobContainer.SetMetadata()</code></td>
<td>Sets the container's user-defined metadata.</td>
</tr>
<tr>
<td><code>CloudBlobContainer.SetMetadata(BlobRequestOptions)</code></td>
<td>Sets the container's user-defined metadata, using a conditional request based on the <code>BlobRequestOptions</code> that you specify.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Naming and Referencing Containers, Blobs, and Metadata
Setting and Retrieving Properties and Metadata
Sets the container's user-defined metadata.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlobContainer
instance.SetMetadata
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Sub SetMetadata</td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public void SetMetadata ()</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public: void SetMetadata ()</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
Example

The following code example defines some metadata for a container and writes it to the container.

C#

```csharp
static void WriteContainerMetadata(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
            new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Return a container reference.
    CloudBlobContainer container = new CloudBlobContainer("mycontainer", blobClient);

    //Create the container if it does not exist.
    container.CreateIfNotExist();

    //Define some metadata for the container.
    container.Metadata["category"] = "images";
    container.Metadata["owner"] = "azureix";

    //Write the metadata to the service.
    container.SetMetadata();
}
```
**Remarks**

The `SetMetadata` method writes the metadata values that are specified by the container's `Metadata` property to the service. Note that setting the `Metadata` property sets metadata values on the blob reference only; you must call `SetMetadata` or `BeginSetMetadata` to write them to the service.

You can also set metadata on a container when the container is created, without calling `SetMetadata`.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference

CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources

Naming and Referencing Containers, Blobs, and Metadata
Setting and Retrieving Properties and Metadata
CloudBlobContainer.SetMetadata Method (BlobRequestOptions)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Sets the container's user-defined metadata, using a conditional request based on the BlobRequestOptions that you specify.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudBlobContainer
Dim options As BlobRequestOptions
instance.SetMetadata(options)
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
</table>
| **Visual Basic** | Public Sub SetMetadata ( _
| | options As BlobRequestOptions _
| | ) |
| **C#** | public void SetMetadata ( 
| | BlobRequestOptions options |
| **C++** | public:
| | void SetMetadata ( 
| | BlobRequestOptions^ options |
| **J#** |  |
| **JScript** |  |

### Parameters

**options**

Type: [Microsoft.WindowsAzure.StorageClient.BlobRequestOptions](#)

An object that specifies any additional options for the request.
The following code example defines some metadata for a container and writes it to the container.

C#

```csharp
static void WriteContainerMetadata(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
                            new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Return a container reference.
    CloudBlobContainer container = new CloudBlobContainer("mycontainer", blobClient);

    //Create the container if it does not exist.
    container.CreateIfNotExist();

    //Define some metadata for the container.
    container.Metadata["category"] = "images";
    container.Metadata["owner"] = "azureix";

    //Write the metadata to the service. Set a retry policy on the call.
    container.SetMetadata(
        new BlobRequestOptions()
        {
        });
}
Remarks

The **SetMetadata** method writes the metadata values that are specified by the container's **Metadata** property to the service. Note that setting the **Metadata** property sets metadata values on the blob reference only; you must call **SetMetadata** or **BeginSetMetadata** to write them to the service.

You can also set metadata on a container when the container is created, without calling **SetMetadata**.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobRequestOptions

Other Resources
Setting and Retrieving Properties and Metadata
CloudBlobContainer.SetPermissions Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Managing Access to Blobs and Containers
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudBlobContainer.SetPermissions (BlobContainerPermissions)</code></td>
<td>Sets permissions for the container.</td>
</tr>
<tr>
<td><code>CloudBlobContainer.SetPermissions (BlobContainerPermissions, BlobRequestOptions)</code></td>
<td>Sets permissions for the container, using a conditional request based on the <code>BlobRequestOptions</code> that you specify.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobContainerPermissions

Other Resources
Managing Access to Blobs and Containers
Managing Access to Blobs and Containers
Sets permissions for the container.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim instance As CloudBlobContainer
Dim permissions As BlobContainerPermissions

instance.SetPermissions(permissions)
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| Visual Basic | ```vb
Public Sub SetPermissions (_
    permissions As BlobContainerPermissions _
)
``` |
| C# | ```csharp
public void SetPermissions (\n    BlobContainerPermissions permissions\n)
``` |
| C++ | ```cpp
public:
    void SetPermissions (\n        BlobContainerPermissions^ permissions\n)
``` |
| J# | ```jsharp
``` |
| JScript | ```js
``` |

**Parameters**

*permissions*

Type: [Microsoft.WindowsAzure.StorageClient.BlobContainerPermissions](#)

The permissions to apply to the container.
Example

The following code example sets both public access permissions and a container level access policy on the container. The example then generates a shared access signature for the container.

```csharp
static void CreateSAS()
{
    // Retrieve storage account information from an app.config file.
    // This is one way to store and retrieve a connection string.
    // an application that will run locally, rather than an application that will run in Windows Azure.
    CloudStorageAccount storageAccount = CloudStorageAccount.Parse(
        ConfigurationManager.AppSettings["StorageAccountConnectionString"]);

    // Create the blob client object.
    CloudBlobClient blobClient = storageAccount.CreateCloudBlobClient();

    // Get a reference to the container for which the shared access signature will be created.
    CloudBlobContainer container = blobClient.GetContainerReference("mysascontainer");
    container.CreateIfNotExist();

    // Create a permission policy to set the public access setting for the container.
    BlobContainerPermissions containerPermissions = new BlobContainerPermissions();

    // The public access setting explicitly specifies that the container is private,
    // so that it can't be accessed anonymously.
    containerPermissions.PublicAccess = BlobContainerPublicAccessType.Off;
    container.SetPermissions(containerPermissions);

    // Get the shared access signature to share with users,
    // specifying a signature-level access policy.
    string sas = container.GetSharedAccessSignature(new SharedAccessPolicy()
    {
```
// A shared access signature not tied to a container cannot be valid for more than 60 minutes.
// If valid immediately, don’t set SharedAccessStartTime, and specify a duration less than 60 minutes
// to avoid clock skew risk.
// SharedAccessstartTime = DateTime.UtcNow,

SharedAccessExpiryTime = DateTime.UtcNow.AddMinutes(30),
Permissions = SharedAccessPermissions.Write
});

// The shared access signature then can be used to create a service client.
// This code would likely be run from a different client,
// demonstrate how to consume the shared access signature.

// Create the blob client directly, using the shared access signature.
CloudBlobClient sasBlobClient = new CloudBlobClient(storageAccount.BlobEndpoint,
    new StorageCredentialsSharedAccessSignature(sas));

// Return a reference to a blob.
CloudBlob blob = sasBlobClient.GetBlobReference("mysascontainer/myblob.txt");

// Upload text to the blob. If the blob does not exist,
// If the blob does exist, its existing content will be overwritten.
blob.UploadText("Write to a blob using shared access credentials.");
Remarks

The SetPermissions method sets two types of permissions for the container:

- Public access permissions, which determine whether container data and blob resources are available for anonymous access.
- Container-level access policies, which can be used to specify parameters for a shared access signature for the container.
**Thread Safety**

Any public static ([Shared](#) in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobContainerPermissions

Other Resources
Managing Access to Blobs and Containers
Managing Access to Blobs and Containers
CloudBlobContainer.SetPermissions Method (BlobContainerPermissions, BlobRequestOptions)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Sets permissions for the container, using a conditional request based on the BlobRequestOptions that you specify.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudBlobContainer
Dim permissions As BlobContainerPermissions
Dim options As BlobRequestOptions

instance.SetPermissions(permissions, options)
```
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Sub SetPermissions (_ permissions As BlobContainerPermissions, _ options As BlobRequestOptions _)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public void SetPermissions (</td>
</tr>
<tr>
<td>BlobContainerPermissions permissions,</td>
</tr>
<tr>
<td>BlobRequestOptions options</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public:</td>
</tr>
<tr>
<td>void SetPermissions (</td>
</tr>
<tr>
<td>BlobContainerPermissions^ permissions,</td>
</tr>
<tr>
<td>BlobRequestOptions^ options</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

### Parameters

- **permissions**
  - Type: [Microsoft.WindowsAzure.StorageClient.BlobContainerPermissions](#)  
  - The permissions to apply to the container.
options
Type: Microsoft.WindowsAzure.StorageClient.BlobRequestOptions

An object that specifies any additional options for the request.
Example

The following code example sets both public access permissions and a container-level access policy on the container. The example then generates a shared access signature for the container.

C#

```csharp
static void CreateSAS()
{
    // Retrieve storage account information from an app.config file.
    // This is one way to store and retrieve a connection string for an application that will run locally, rather than in Windows Azure.
    CloudStorageAccount storageAccount = CloudStorageAccount.Parse(ConfigurationManager.AppSettings["StorageAccountConnectionString"]);

    // Create the blob client object.
    CloudBlobClient blobClient = storageAccount.CreateCloudBlobClient();

    // Get a reference to the container for which the shared access signature will be created.
    CloudBlobContainer container = blobClient.GetContainerReference("mysascontainer");
    container.CreateIfNotExist();

    // Create a permission policy to set the public access for the container.
    BlobContainerPermissions containerPermissions = new BlobContainerPermissions();

    // The public access setting explicitly specifies a setting that can't be accessed anonymously.
    containerPermissions.PublicAccess = BlobContainerPublicAccessType.Off;

    // Set the permission policy on the container.
    container.SetPermissions(containerPermissions);

    // Get the shared access signature to share with users.
    // specifying a signature-level access policy.
    string sas = container.GetSharedAccessSignature(new SharedAccessPolicy() {
```
// A shared access signature not tied to a container-level access policy cannot be valid for more than 60 minutes. // If valid immediately, don’t set SharedAccessStartTime and specify a duration less than 60 minutes to avoid clock skew risk. // SharedAccessStartTime = DateTime.UtcNow, // A shared access signature not tied to a container-level access policy cannot be valid for more than 60 minutes. // If valid immediately, don’t set SharedAccessStartTime to avoid clock skew risk. // SharedAccessStartTime = DateTime.UtcNow,

SharedAccessExpiryTime = DateTime.UtcNow.AddMinutes(30), Permissions = SharedAccessPermissions.Write
});

// The shared access signature then can be used to create a service client.
// This code would likely be run from a different client, but is included there to demonstrate how to consume the shared access signature.

// Create the blob client directly, using the shared access signature.
CloudBlobClient sasBlobClient = new CloudBlobClient(storageAccount.BlobEndpoint, new StorageCredentialsSharedAccessSignature(sas));

// Return a reference to a blob.
CloudBlob blob = sasBlobClient.GetBlobReference("mysascontainer/myblob.txt");

// Upload text to the blob. If the blob does not exist, it will be created.
// If the blob does exist, its existing content will be overwritten.
blob.UploadText("Write to a blob using shared access credentials.

}
Remarks

The **SetPermissions** method sets two types of permissions for the container:

- Public access permissions, which determine whether container data and blob resources are available for anonymous access.

- Container-level access policies, which can be used to specify parameters for a shared access signature for the container.
- **Thread Safety**

  Any public static (*Shared* in Visual Basic) members of this type are thread safe.
  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
- CloudBlobContainer Class
- CloudBlobContainer Members
- Microsoft.WindowsAzure.StorageClient Namespace
- BlobRequestOptions
- BlobContainerPermissions

Other Resources
- Managing Access to Blobs and Containers
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attributes</td>
<td>Gets the container's attributes.</td>
</tr>
<tr>
<td>Metadata</td>
<td>Gets the container's metadata.</td>
</tr>
<tr>
<td>Name</td>
<td>Gets the name of the container.</td>
</tr>
<tr>
<td>Properties</td>
<td>Gets the container's system properties.</td>
</tr>
<tr>
<td>ServiceClient</td>
<td>Gets the service client for the container.</td>
</tr>
<tr>
<td>Uri</td>
<td>Gets the container's URI.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlobContainer Class
Microsoft.WindowsAzure.StorageClient Namespace
**CloudBlobContainer.Attributes Property**

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.]

Gets the container's attributes.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudBlobContainer
Dim value As BlobContainerAttributes

value = instance.Attributes
```
## Syntax

<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public Property Attributes As BlobContainerAttributes</td>
<td></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public BlobContainerAttributes Attributes { get; }</td>
<td></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td></td>
</tr>
<tr>
<td>public: property BlobContainerAttributes^ Attributes { BlobContainerAttributes^ get (); }</td>
<td></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Property Value


The container's attributes.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
Gets the container's metadata.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

### Visual Basic

<table>
<thead>
<tr>
<th>Dim instance As <code>CloudBlobContainer</code></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim value As <code>NameValueCollection</code></td>
</tr>
<tr>
<td>value = instance.Metadata</td>
</tr>
</tbody>
</table>
## Syntax

### Visual Basic

Public ReadOnly Property Metadata As NameValueCollection

### C#

public NameValueCollection Metadata { get; }

### C++

public:
property NameValueCollection^ Metadata {
    NameValueCollection^ get ();
}

### J#

### JScript

---

**Property Value**

Type: [System.Collections.Specialized.NameValueCollection](https://docs.microsoft.com/en-us/dotnet/api/system.collections.specialized.namevaluecollection)

The container's metadata.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Naming and Referencing Containers, Blobs, and Metadata
Setting and Retrieving Properties and Metadata
CloudBlobContainer.Name Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the name of the container.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlobContainer
Dim value As String

value = instance.Name
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Property Name As <strong>String</strong></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td><code>public string Name { get; }</code></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><code>public: String^ Name { String^ get (); }</code></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

Type: [System.String](https://docs.microsoft.com/en-us/dotnet/api/system.string)  
The container's name.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobContainer.Properties Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the container's system properties.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlobContainer
Dim value As BlobContainerProperties

value = instance.Properties
```
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public ReadOnly Property Properties As BlobContainerProperties</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public BlobContainerProperties Properties { get; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: property BlobContainerProperties^ Properties {</td>
</tr>
<tr>
<td>BlobContainerProperties^ get ();</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

### Property Value


The container's properties.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
BlobContainerProperties

Other Resources
Setting and Retrieving Properties and Metadata
CloudBlobContainer.ServiceClient Property

See Also


[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the service client for the container.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Dim instance As **CloudBlobContainer**  
Dim value As **CloudBlobClient**  
value = instance.ServiceClient |
## Syntax

### Visual Basic

Public Property ServiceClient As CloudBlobClient

### C#

```csharp
public CloudBlobClient ServiceClient { get; }
```

### C++

```cpp
public:
property CloudBlobClient^ ServiceClient {
    CloudBlobClient^ get ();
}
```

### J#

```
```

### JScript

```
```

## Property Value


A client object that specifies the endpoint for the Blob service.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobContainer.Uri Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the container's URI.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As CloudBlobContainer
Dim value As Uri

value = instance.Uri
```
### Syntax

**Visual Basic**

```
Public Property Uri As Uri
```

**C#**

```
public Uri Uri { get; }
```

**C++**

```
public:
property Uri^ Uri {
    Uri^ get ();
}
```

**J#**

```

```

**JScript**

```

```

### Property Value

**Type:** System.Uri

The absolute URI to the container.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.
  Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
See Also

Reference
CloudBlobContainer Class
CloudBlobContainer Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobDirectory Class

See Also  Members

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a blob directory of blobs, designated by a delimiter character.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

Dim instance As CloudBlobDirectory
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Class CloudBlobDirectory</td>
</tr>
<tr>
<td>Implements IListBlobItem</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public class CloudBlobDirectory : IListBlobItem</td>
</tr>
</tbody>
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<table>
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<tr>
<th>C++</th>
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<td>public ref class CloudBlobDirectory : IListBlobItem</td>
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</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>
Inheritance Hierarchy

System.Object
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
See Also

Reference
CloudBlobDirectory Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobDirectory Members

See Also	Methods	Properties

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a blob directory of blobs, designated by a delimiter character.

The following tables list the members exposed by the CloudBlobDirectory type.
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Container</td>
<td>Gets the container for the blob directory.</td>
</tr>
<tr>
<td>Parent</td>
<td>Gets the parent directory for the blob directory.</td>
</tr>
<tr>
<td>ServiceClient</td>
<td>Gets the service client for the blob directory.</td>
</tr>
<tr>
<td>Uri</td>
<td>Gets the URI that identifies the blob directory.</td>
</tr>
</tbody>
</table>

[Top](#)
# Public Methods (see also **Protected Methods**)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✤ <strong>BeginListBlobsSegmented</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td>✤ <strong>EndListBlobsSegmented</strong></td>
<td>Ends an asynchronous request to return a result segment containing a collection of blob items.</td>
</tr>
<tr>
<td>✤ <strong>Equals</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>✤ <strong>GetBlobReference</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td>✤ <strong>GetBlockBlobReference</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td>✤ <strong>GetHashCode</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>✤ <strong>GetPageBlobReference</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td>✤ <strong>GetSubdirectory</strong></td>
<td>Returns a blob subdirectory within this blob directory.</td>
</tr>
<tr>
<td>✤ <strong>GetType</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>✤ <strong>ListBlobs</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td>✤ <strong>ListBlobsSegmented</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td>✤ <strong>ToString</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>

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See Also

Reference
CloudBlobDirectory Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobDirectory Methods
See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods (see also Protected Methods)

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<th>Name</th>
<th>Description</th>
</tr>
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<tbody>
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<td>Overloaded.</td>
</tr>
<tr>
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<tr>
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<tr>
<td><strong>GetSubdirectory</strong></td>
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<tr>
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</tr>
<tr>
<td><strong>ListBlobs</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>ListBlobsSegmented</strong></td>
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</tr>
<tr>
<td><strong>ToString</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
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</table>
## Protected Methods

<table>
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<tr>
<td>✧ MemberwiseClone</td>
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</tbody>
</table>
See Also

Reference
CloudBlobDirectory Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CloudBlobDirectory.BeginListBlobsSegmented(BlobRequestOptions, AsyncCallback, Object)</td>
<td>Begins an asynchronous request to return a result segment containing a collection of blob items, using a conditional request based on the BlobRequestOptions that you specify.</td>
</tr>
<tr>
<td>CloudBlobDirectory.BeginListBlobsSegmented(AsyncCallback, Object)</td>
<td>Begins an asynchronous request to return a result segment containing a collection of blob items.</td>
</tr>
<tr>
<td>CloudBlobDirectory.BeginListBlobsSegmented(Int32, ResultContinuation, BlobRequestOptions, AsyncCallback, Object)</td>
<td>Begins an asynchronous request to return a result segment containing a collection of blob items, using a conditional request based on the BlobRequestOptions that you specify. Use this overload when you want to control the maximum number of results returned at a time, and when you want to use a continuation token to determine whether there are more results to return from the service after the current page completes.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlobDirectory Class
CloudBlobDirectory Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobDirectory.BeginListBlobsSegmented Method (BlobRequestOptions, AsyncCallback, Object)

See Also Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous request to return a result segment containing a collection of blob items, using a conditional request based on the BlobRequestOptions that you specify.

Namespace: Microsoft.WindowsAzure.StorageClient
## Usage

### Visual Basic

```vbnet
Dim instance As CloudBlobDirectory
Dim options As BlobRequestOptions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginListBlobsSegmented(options)
```
## Syntax

### Visual Basic

```
Public Function BeginListBlobsSegmented ( _
    options As BlobRequestOptions, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```
public IAsyncResult BeginListBlobsSegmented ( 
    BlobRequestOptions options, 
    AsyncCallback callback, 
    Object state
)
```

### C++

```
public: 
IAsyncResult^ BeginListBlobsSegmented ( 
    BlobRequestOptions^ options, 
    AsyncCallback^ callback, 
    Object^ state
)
```

### J#

```
```

### JScript

```
```

### Parameters

- **options**
An object that specifies any additional options for the request.

**callback**
The callback delegate that will receive notification when the asynchronous operation completes.

**state**
A user-defined object that will be passed to the callback delegate.

**Return Value**
An IAsyncResult that references the asynchronous operation.
**Example**

The following code example lists the blobs in a blob directory in segments, using the default hierarchical listing.

```csharp
static void ListBlobsInDirectoryAsynchronously(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a blob directory.
    CloudBlobDirectory blobDir = blobClient.GetBlobDirectoryReference("myvirtualdir/a/" AUTHOR"

    //Begin the operation to return the first segment of blobs, passing the service client to the callback.
    blobDir.BeginListBlobsSegmented(ListBlobsInDirectoryCallback, blobDir);
}

static void ListBlobsInDirectoryCallback(IAsyncResult result)
{
    CloudBlobDirectory blobDir = (CloudBlobDirectory)result.AsyncState;

    //End the operation.
    ResultSegment<IListBlobItem> resultSegment = blobDir.EndListBlobsSegmented(result);

    //Enumerate the blob items.
    foreach (var blobItem in resultSegment.Results)
    {
        Console.WriteLine(blobItem.Uri);
    }

    //Check the continuation token to determine whether there are more results.
    if (resultSegment.ContinuationToken != null)
    {
        //Get the next result segment, returning up to 1000 blobs per operation.
        blobDir.BeginListBlobsSegmented(1000, resultSegment.ContinuationToken, new BlobRequestOptions(), ListBlobsInSegmentsCallback, blobDir);
    }
}
```
Remarks

The **BeginListBlobsSegmented** method begins an operation to list blobs in pages. To specify the page size to return, pass in a non-zero value for the **maxResults** parameter. Passing in zero for the **maxResults** parameter returns either the maximum number of results available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the **HasMoreResults** property to check whether the page is complete. For example, if you have specified a page size of 10,000, a value which exceeds the per-operation limit, **HasMoreResults** will return **true**, indicating that the page is not complete. Note that if you have not specified a page size, **HasMoreResults** will always be **false**.

If you have not specified a page size, or the value of **maxResults** is zero, then check the value of the **ContinuationToken** property to determine whether there are more results to return. The continuation token is non-null as long as there are more results to return from the service.

Call the **GetNext** method to return the next segment of results from the service.

The objects returned by the listing depend on the type of listing that is being performed. If the **UseFlatBlobListing** property is set to **true**, the listing will return an enumerable collection of **CloudBlob** objects. If **UseFlatBlobListing** is set to **false** (the default value), the listing may return a collection containing **CloudBlob** objects and **CloudBlobDirectory** objects. The latter case provides a convenience for subsequent enumerations over a virtual blob hierarchy.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference

CloudBlobDirectory Class
CloudBlobDirectory Members
Microsoft.WindowsAzure.StorageClient Namespace
Begins an asynchronous request to return a result segment containing a collection of blob items.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

<table>
<thead>
<tr>
<th>Dim instance As CloudBlobDirectory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim callback As AsyncCallback</td>
</tr>
<tr>
<td>Dim state As Object</td>
</tr>
<tr>
<td>Dim returnValue As IAsyncResult</td>
</tr>
</tbody>
</table>

```vbnet
returnValue = instance.BeginListBlobsSegmented(callback)
```
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Public Function BeginListBlobsSegmented ( _
  callback As AsyncCallback, _
  state As Object _
) As IAsyncResult |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public IAsyncResult BeginListBlobsSegmented (</td>
</tr>
</tbody>
</table>
  AsyncCallback callback, |
  Object state |
) |

<table>
<thead>
<tr>
<th>C++</th>
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</thead>
<tbody>
<tr>
<td>public:</td>
</tr>
<tr>
<td>IAsyncResult^ BeginListBlobsSegmented (</td>
</tr>
</tbody>
</table>
  AsyncCallback^ callback, |
  Object^ state |
) |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>----------------------------------</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td>----------------------------------</td>
</tr>
</tbody>
</table>

### Parameters

**callback**

The callback delegate that will receive notification when the asynchronous operation completes.

**state**
A user-defined object that will be passed to the callback delegate.

**Return Value**

An *IAsyncResult* that references the asynchronous operation.
Example
The following code example lists the blobs in a blob directory in segments, using
the default hierarchical listing.

static void ListBlobsInDirectoryAsynchronously(Uri blobEndpoi
{
//Create service client for credentialed access to the Bl
CloudBlobClient blobClient = new CloudBlobClient(blobEndp

//Get a reference to a blob directory.
CloudBlobDirectory blobDir = blobClient.GetBlobDirectoryR

//Begin the operation to return the first segment of blob
blobDir.BeginListBlobsSegmented(ListBlobsInDirectoryCallb
}

static void ListBlobsInDirectoryCallback(IAsyncResult result)
{
CloudBlobDirectory blobDir = (CloudBlobDirectory)result.A
//End the operation.
ResultSegment<IListBlobItem> resultSegment = blobDir.EndL
//Enumerate the blob items.
foreach (var blobItem in resultSegment.Results)
{
Console.WriteLine(blobItem.Uri);
}

//Check the continuation token to determine whether there
if (resultSegment.ContinuationToken != null)
{
//Get the next result segment, returning up to 1000 b
blobDir.BeginListBlobsSegmented(1000, resultSegment.C
}


Remarks

The **BeginListBlobsSegmented** method begins an operation to list blobs in pages. To specify the page size to return, pass in a non-zero value for the `maxResults` parameter. Passing in zero for the `maxResults` parameter returns either the maximum number of results available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the `HasMoreResults` property to check whether the page is complete. For example, if you have specified a page size of 10,000, a value which exceeds the per-operation limit, `HasMoreResults` will return **true**, indicating that the page is not complete. Note that if you have not specified a page size, `HasMoreResults` will always be **false**.

If you have not specified a page size, or the value of `maxResults` is zero, then check the value of the `ContinuationToken` property to determine whether there are more results to return. The continuation token is non-null as long as there are more results to return from the service.

Call the **GetNext** method to return the next segment of results from the service.

The objects returned by the listing depend on the type of listing that is being performed. If the `UseFlatBlobListing` property is set to **true**, the listing will return an enumerable collection of `CloudBlob` objects. If `UseFlatBlobListing` is set to **false** (the default value), the listing may return a collection containing `CloudBlob` objects and `CloudBlobDirectory` objects. The latter case provides a convenience for subsequent enumerations over a virtual blob hierarchy.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobDirectory Class
CloudBlobDirectory Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobDirectory.BeginListBlobsSegmented Method (Int32, ResultContinuation, BlobRequestOptions, AsyncCallback, Object)

See Also Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous request to return a result segment containing a collection of blob items, using a conditional request based on the BlobRequestOptions that you specify. Use this overload when you want to control the maximum number of results returned at a time, and when you want to use a continuation token to determine whether there are more results to return from the service after the current page completes.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlobDirectory
Dim maxResults As Integer
Dim continuationToken As ResultContinuation
Dim options As BlobRequestOptions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginListBlobsSegmented(maxResults)
```
### Syntax

#### Visual Basic

```vbnet
Public Function BeginListBlobsSegmented (_
    maxResults As Integer, _
    continuationToken As ResultContinuation, _
    options As BlobRequestOptions, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

#### C#

```csharp
public IAsyncResult BeginListBlobsSegmented (
    int maxResults,
    ResultContinuation continuationToken,
    BlobRequestOptions options,
    AsyncCallback callback,
    Object state
)
```

#### C++

```cpp
public:
    IAsyncResult^ BeginListBlobsSegmented ( 
        int maxResults, 
        ResultContinuation^ continuationToken, 
        BlobRequestOptions^ options, 
        AsyncCallback^ callback, 
        Object^ state 
    )
```

#### J#
**Parameters**

*maxResults*
A non-negative integer value that indicates the maximum number of results to be returned at a time, up to the per-operation limit of 5000. If this value is zero, the maximum possible number of results will be returned, up to 5000.

*continuationToken*
A continuation token returned by a previous listing operation.

$options*
An object that specifies any additional options for the request.

*callback*
The callback delegate that will receive notification when the asynchronous operation completes.

*state*
A user-defined object that will be passed to the callback delegate.

**Return Value**
An **IAsyncResult** that references the asynchronous operation.
Example

The following code example lists the blobs in a blob directory in segments, using the default hierarchical listing.

```csharp
static void ListBlobsInDirectoryAsynchronously(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Get a reference to a blob directory.
    CloudBlobDirectory blobDir = blobClient.GetBlobDirectoryReference("myvirtualdir/a/";

    // Begin the operation to return the first segment of blobs, passing the service client to the callback.
    blobDir.BeginListBlobsSegmented(ListBlobsInDirectoryCallback, blobDir);
}

static void ListBlobsInDirectoryCallback(IAsyncResult result)
{
    CloudBlobDirectory blobDir = (CloudBlobDirectory)result.AsyncState;
    // End the operation.
    ResultSegment<IListBlobItem> resultSegment = blobDir.EndListBlobsSegmented(result);

    // Enumerate the blob items.
    foreach (var blobItem in resultSegment.Results)
    {
        Console.WriteLine(blobItem.Uri);
    }

    // Check the continuation token to determine whether there are more results.
    if (resultSegment.ContinuationToken != null)
    {
        // Get the next result segment, returning up to 1000 blobs per operation.
        blobDir.BeginListBlobsSegmented(1000, resultSegment.ContinuationToken, new BlobRequestOptions(), ListBlobsInSegmentsCallback, blobDir);
    }
}
```
Remarks

The **BeginListBlobsSegmented** method begins an operation to list blobs in pages. To specify the page size to return, pass in a non-zero value for the `maxResults` parameter. Passing in zero for the `maxResults` parameter returns either the maximum number of results available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the `HasMoreResults` property to check whether the page is complete. For example, if you have specified a page size of 10,000, a value which exceeds the per-operation limit, `HasMoreResults` will return **true**, indicating that the page is not complete. Note that if you have not specified a page size, `HasMoreResults` will always be **false**.

If you have not specified a page size, or the value of `maxResults` is zero, then check the value of the `ContinuationToken` property to determine whether there are more results to return. The continuation token is non-null as long as there are more results to return from the service.

Call the **GetNext** method to return the next segment of results from the service.

The objects returned by the listing depend on the type of listing that is being performed. If the **UseFlatBlobListing** property is set to **true**, the listing will return an enumerable collection of `CloudBlob` objects. If **UseFlatBlobListing** is set to **false** (the default value), the listing may return a collection containing `CloudBlob` objects and `CloudBlobDirectory` objects. The latter case provides a convenience for subsequent enumerations over a virtual blob hierarchy.
- **Thread Safety**

  Any public static (Shared in Visual Basic) members of this type are thread safe.
  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference

CloudBlobDirectory Class
CloudBlobDirectory Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous request to return a result segment containing a collection of blob items.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlobDirectory
Dim asyncResult As IAsyncResult
Dim returnValue As ResultSegment(Of IListBlobItem)

returnValue = instance.EndListBlobsSegmented(asyncResult)
```
## Syntax

### Visual Basic

```vbnet
Public Function EndListBlobsSegmented ( _
    asyncResult As IAsyncResult _
) As ResultSegment(Of IListBlobItem)
```

### C#

```csharp
public ResultSegment<IListBlobItem> EndListBlobsSegmented(
    IAsyncResult asyncResult
)
```

### C++

```cpp
public: 
ResultSegment<IListBlobItem^>^ EndListBlobsSegmented(
    IAsyncResult^ asyncResult
)
```

### J#

```jsharp```

### JScript

```jscript```

### Parameters

*asyncResult*

An *IAsyncResult* that references the pending asynchronous operation.

### Return Value

A result segment containing objects that implement *IListBlobItem*. 
Example

The following code example lists the blobs in a blob directory in segments, using the default hierarchical listing.

```csharp
static void ListBlobsInDirectoryAsynchronously(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a blob directory.
    CloudBlobDirectory blobDir = blobClient.GetBlobDirectoryReference("myvirtualdir/a/");

    //Begin the operation to return the first segment of blobs, passing the service client to the callback.
    blobDir.BeginListBlobsSegmented(ListBlobsInDirectoryCallback, blobDir);
}

static void ListBlobsInDirectoryCallback(IAsyncResult result)
{
    CloudBlobDirectory blobDir = (CloudBlobDirectory)result.AsyncState;
    //End the operation.
    ResultSegment<IListBlobItem> resultSegment = blobDir.EndListBlobsSegmented(result);

    //Enumerate the blob items.
    foreach (var blobItem in resultSegment.Results)
    {
        Console.WriteLine(blobItem.Uri);
    }

    //Check the continuation token to determine whether there are more results.
    if (resultSegment.ContinuationToken != null)
    {
        //Get the next result segment, returning up to 1000 blobs per operation.
        blobDir.BeginListBlobsSegmented(1000, resultSegment.ContinuationToken, new BlobRequestOptions(), ListBlobsInSegmentsCallback, blobDir);
    }
}
```
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobDirectory Class
CloudBlobDirectory Members
Microsoft.WindowsAzure.StorageClient Namespace
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<th>CloudBlobDirectory.GetBlobReference Method</th>
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[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
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<th>Name</th>
<th>Description</th>
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<tbody>
<tr>
<td><code>CloudBlobDirectory.GetBlobReference(String)</code></td>
<td>Returns a reference to a blob in this blob directory.</td>
</tr>
<tr>
<td><code>CloudBlobDirectory.GetBlobReference(String, Nullable)</code></td>
<td>Returns a reference to a blob in this blob directory, or the snapshot if the blob is a snapshot.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlobDirectory Class
CloudBlobDirectory Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobDirectory.GetBlobReference Method (String)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a reference to a blob in this blob directory.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlobDirectory
Dim itemName As String
Dim returnValue As CloudBlob

returnValue = instance.GetBlobReference(itemName)
```
### Parameters

- **itemName**
  - The name of the blob.

### Return Value

- A reference to a blob.
- **Thread Safety**

  Any public static (Shared in Visual Basic) members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobDirectory Class
CloudBlobDirectory Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobDirectory.GetBlobReference Method (String, Nullable)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a reference to a blob in this blob directory, or the snapshot if the blob is a snapshot.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlobDirectory
Dim itemName As String
Dim snapshotTime As Nullable(Of DateTime)
Dim returnValue As CloudBlob

returnValue = instance.GetBlobReference(itemName, snapshotTime)
```
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
<th>C#</th>
<th>C++</th>
<th>J#</th>
<th>JScript</th>
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</thead>
</table>
| Public Function GetBlobReference ( _
  itemName As String, _
  snapshotTime As Nullable(Of DateTime) _
) As CloudBlob                  | public CloudBlob GetBlobReference (  
  string itemName, 
  Nullable<DateTime> snapshotTime  
)                           | public:
CloudBlob^ GetBlobReference ( 
  String^ itemName, 
  Nullable<DateTime> snapshotTime 
)                           |                                  |                                  |

### Parameters

**itemName**
- The name of the blob.

**snapshotTime**
- The snapshot timestamp, if the blob is a snapshot.
Return Value

A reference to a blob.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobDirectory Class
CloudBlobDirectory Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>CloudBlobDirectory.GetBlockBlobReference (String)</td>
<td>Returns a reference to a block blob in this blob directory.</td>
</tr>
<tr>
<td>CloudBlobDirectory.GetBlockBlobReference (String, Nullable)</td>
<td>Returns a reference to a block blob in this blob directory, or to a snapshot if the blob is a snapshot.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlobDirectory Class
CloudBlobDirectory Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobDirectory.GetBlockBlobReference Method (String)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a reference to a block blob in this blob directory.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlobDirectory
Dim itemName As String
Dim returnValue As CloudBlockBlob

returnValue = instance.GetBlockBlobReference(itemName)
```
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Function GetBlockBlobReference ( _</td>
</tr>
<tr>
<td>itemName As String _</td>
</tr>
<tr>
<td>) As CloudBlockBlob</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public CloudBlockBlob GetBlockBlobReference (</td>
</tr>
<tr>
<td>string itemName</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
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<tbody>
<tr>
<td>public:</td>
</tr>
<tr>
<td>CloudBlockBlob^ GetBlockBlobReference (</td>
</tr>
<tr>
<td>String^ itemName</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>

### Parameters

**itemName**

The name of the block blob.

### Return Value

A reference to a block blob.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also
CloudBlobDirectory.GetBlockBlobReference Method (String, Nullable)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a reference to a block blob in this blob directory, or to a snapshot if the blob is a snapshot.

Namespace: Microsoft.WindowsAzure.StorageClient
### Visual Basic

Dim instance As CloudBlobDirectory
Dim itemName As String
Dim snapshotTime As Nullable(Of DateTime)
Dim returnValue As CloudBlockBlob

returnValue = instance.GetBlockBlobReference(itemName)
### Syntax

#### Visual Basic

```vbnet
Public Function GetBlockBlobReference ( _
    itemName As String, _
    snapshotTime As Nullable(Of DateTime) _
) As CloudBlockBlob
```

#### C#

```csharp
public CloudBlockBlob GetBlockBlobReference (  
    string itemName,  
    Nullable<DateTime> snapshotTime
)
```

#### C++

```cpp
public:  
    CloudBlockBlob^ GetBlockBlobReference (  
        String^ itemName,  
        Nullable<DateTime> snapshotTime
    )
```

#### J#

#### JScript

### Parameters

**itemName**

The name of the block blob.

**snapshotTime**

The snapshot timestamp, if the blob is a snapshot.
Return Value

A reference to a block blob.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobDirectory Class
CloudBlobDirectory Members
Microsoft.WindowsAzure.StorageClient Namespace

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CloudBlobDirectory.GetPageBlobReference (String)</strong></td>
<td>Returns a reference to a page blob in this blob directory.</td>
</tr>
<tr>
<td><strong>CloudBlobDirectory.GetPageBlobReference (String, Nullable)</strong></td>
<td>Returns a reference to a page blob in this blob directory, or to a snapshot if the blob is a snapshot.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlobDirectory Class
CloudBlobDirectory Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a reference to a page blob in this blob directory.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

### Visual Basic

Dim instance As CloudBlobDirectory
Dim itemName As String
Dim returnValue As CloudPageBlob

returnValue = instance.GetPageBlobReference(itemName)
Syntax

Visual Basic

Public Function GetPageBlobReference ( _
    itemName As String _
) As CloudPageBlob

C#

public CloudPageBlob GetPageBlobReference (  
    string itemName
)

C++

public:
CloudPageBlob^ GetPageBlobReference (  
    String^ itemName
)

J#


JScript

Parameters

itemName

The name of the page blob.

Return Value

A reference to a page blob.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudBlobDirectory Class
CloudBlobDirectory Members
Microsoft.WindowsAzure.StorageClient Namespace
>Returns a reference to a page blob in this blob directory, or to a snapshot if the blob is a snapshot.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Dim instance As CloudBlobDirectory
Dim itemName As String
Dim snapshotTime As Nullable(Of DateTime)
Dim returnValue As CloudPageBlob

returnValue = instance.GetPageBlobReference(itemName,
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Public Function GetPageBlobReference ( _
| item\Name As String, _
| snapshotTime As Nullable(Of DateTime) _
| ) As CloudPageBlob |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
</table>
| public CloudPageBlob GetPageBlobReference ( _
| string itemName, _
| Nullable<DateTime> snapshotTime |
| ) |

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| public:
| CloudPageBlob^ GetPageBlobReference ( _
| String^ itemName, _
| Nullable<DateTime> snapshotTime |
| ) |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>

### Parameters

- **itemName**
  - The name of the page blob.

- **snapshotTime**
  - The snapshot timestamp, if the blob is a snapshot.
**Return Value**

A reference to a page blob.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobDirectory Class
CloudBlobDirectory Members
Microsoft.WindowsAzure.StorageClient Namespace
Returns a blob subdirectory within this blob directory.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudBlobDirectory
Dim itemName As String
Dim returnValue As CloudBlobDirectory

returnValue = instance.GetSubdirectory(itemName)
## Syntax

### Visual Basic

```
Public Function GetSubdirectory ( _
    itemName As String _
) As CloudBlobDirectory
```

### C#

```
public CloudBlobDirectory GetSubdirectory (string itemName)
```

### C++

```
public:
CloudBlobDirectory^ GetSubdirectory (String^ itemName)
```

### J#

```
JScript
```

## Parameters

- **itemName**
  
The name of the blob subdirectory.

## Return Value

A [CloudBlobDirectory](#) object representing the blob subdirectory.
Example

The following code example gets a subdirectory of a blob directory, then enumerates the blobs in the subdirectory.

```csharp
static void GetVirtualSubdirectory(Uri blobEndpoint,
{ }
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint,
    CloudBlobDirectory blobDir = blobClient.GetBlobDirectoryReference("myvirtualdir/a/"),
    CloudBlobDirectory subDir = blobDir.GetSubdirectory("b/");
    foreach (var blobItem in subDir.ListBlobs())
    { }
        Console.WriteLine("Blob: " + blobItem.Uri);
        Console.WriteLine("Blob parent: " + blobItem.
        Console.WriteLine("Blob container: " + blobItem.
        Console.WriteLine();
    }
    Console.WriteLine();
```
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobDirectory Class
CloudBlobDirectory Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

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<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudBlobDirectory.ListBlobs()</code></td>
<td>Returns an enumerable collection of items in this blob directory in a hierarchical listing.</td>
</tr>
<tr>
<td><code>CloudBlobDirectory.ListBlobs(BlobRequestOptions)</code></td>
<td>Returns an enumerable collection of blob items in this blob directory that is lazily retrieved, either as a flat listing or by blob subdirectory, using a conditional request based on the <code>BlobRequestOptions</code> that you specify.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlobDirectory Class
CloudBlobDirectory Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns an enumerable collection of items in this blob directory in a hierarchical listing.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlobDirectory
Dim returnValue As IEnumerable(Of IListBlobItem)

returnValue = instance.ListBlobs
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Function ListBlobs As IEnumerable(Of IListBlobItem)</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public IEnumerable&lt;IListBlobItem&gt; ListBlobs()</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: IEnumerable&lt;IListBlobItem&gt;^ ListBlobs()</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>

#### Return Value

An enumerable collection of objects that implement `IListBlobItem`. 
Example
This code example lists blobs in a blob directory, first hierarchically and then as
a flat listing.

static void ListBlobsInDirectory(Uri blobEndpoint, string acc
{
//Create service client for credentialed access to the Bl
CloudBlobClient blobClient = new CloudBlobClient(blobEndp

//Get a reference to a blob directory in a container name
CloudBlobDirectory blobDir = blobClient.GetBlobDirectoryR

//List blobs and directories in this blob directory hiera
foreach (var blobItem in blobDir.ListBlobs())
{
Console.WriteLine(blobItem.Uri);
}
Console.WriteLine();

//List blobs in this blob directory using a flat listing.
BlobRequestOptions options = new BlobRequestOptions();
options.UseFlatBlobListing = true;
foreach (var blobItem in blobDir.ListBlobs(options))
{
Console.WriteLine(blobItem.Uri);
}
}


Remarks

The types of objects returned by the **ListBlobs** method depend on the type of listing that is being performed. If the **UseFlatBlobListing** property is set to **true** the listing will return an enumerable collection of **CloudBlob** objects. If **UseFlatBlobListing** is set to **false** (the default value), the listing may return a collection containing **CloudBlob** objects and **CloudBlobDirectory** objects. The latter case provides a convenience for subsequent enumerations over a virtual blob hierarchy.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobDirectory Class
CloudBlobDirectory Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns an enumerable collection of blob items in this blob directory that is lazily retrieved, either as a flat listing or by blob subdirectory, using a conditional request based on the BlobRequestOptions that you specify.

**Namespace**: Microsoft.WindowsAzure.StorageClient

## Usage

### Visual Basic

```vbnet
Dim instance As CloudBlobDirectory
Dim options As BlobRequestOptions
Dim returnValue As IEnumerable(Of IListBlobItem)

returnValue = instance.ListBlobs(options)
```
Syntax

Visual Basic

Public Function ListBlobs ( _
    options As BlobRequestOptions _
) As IEnumerable(Of IListBlobItem)

C#

public IEnumerable<IListBlobItem> ListBlobs (BlobRequestOptions options)

C++

public:
IEnumerable<IListBlobItem>^ ListBlobs (BlobRequestOptions^ options)

J#

JScript

Parameters

options
An object that specifies any additional options for the request.

Return Value

An enumerable collection of objects that implement IListBlobItem and are retrieved lazily.
Example
This code example lists blobs in a blob directory, first hierarchically and then as
a flat listing.

static void ListBlobsInDirectory(Uri blobEndpoint, string acc
{
//Create service client for credentialed access to the Bl
CloudBlobClient blobClient = new CloudBlobClient(blobEndp

//Get a reference to a blob directory in a container name
CloudBlobDirectory blobDir = blobClient.GetBlobDirectoryR

//List blobs and directories in this blob directory hiera
foreach (var blobItem in blobDir.ListBlobs())
{
Console.WriteLine(blobItem.Uri);
}
Console.WriteLine();

//List blobs in this blob directory using a flat listing.
BlobRequestOptions options = new BlobRequestOptions();
options.UseFlatBlobListing = true;
foreach (var blobItem in blobDir.ListBlobs(options))
{
Console.WriteLine(blobItem.Uri);
}
}


Remarks

The types of objects returned by the ListBlobs method depend on the type of listing that is being performed. If the UseFlatBlobListing property is set to true the listing will return an enumerable collection of CloudBlob objects. If UseFlatBlobListing is set to false (the default value), the listing may return a collection containing CloudBlob objects and CloudBlobDirectory objects. The latter case provides a convenience for subsequent enumerations over a virtual blob hierarchy.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlobDirectory Class
CloudBlobDirectory Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobDirectory.ListBlobsSegmented Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudBlobDirectory.ListBlobsSegmented(BlobRequestOptions)</code></td>
<td>Returns a result segment containing a collection of blob items.</td>
</tr>
<tr>
<td><code>CloudBlobDirectory.ListBlobsSegmented(Int32, ResultContinuation, BlobRequestOptions)</code></td>
<td>Returns a result segment containing a collection of blob items. Use this overload when you want to control the maximum number of results returned at a time, and when you want to use a continuation token to determine whether there are more results to return from the service after the current page completes.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlobDirectory Class
CloudBlobDirectory Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobDirectory.ListBlobsSegmented Method (BlobRequestOptions)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a result segment containing a collection of blob items.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

### Visual Basic

```vbnet
Dim instance As CloudBlobDirectory
Dim options As BlobRequestOptions
Dim returnValue As ResultSegment(Of IListBlobItem)

returnValue = instance.ListBlobsSegmented(options)
```
## Syntax

**Visual Basic**

```vbnet
Public Function ListBlobsSegmented ( _
    options As BlobRequestOptions _
) As ResultSegment(Of IListBlobItem)
```

**C#**

```csharp
public ResultSegment<IListBlobItem> ListBlobsSegmented ( BlobRequestOptions options
)
```

**C++**

```cpp
public:
ResultSegment<IListBlobItem^>^ ListBlobsSegmented ( BlobRequestOptions^ options
)
```

**J#**

**JScript**

---

### Parameters

`options`

An object that specifies any additional options for the request.

### Return Value

A result segment containing objects that implement `IListBlobItem`. 
Remarks

The `ListBlobsSegmented` method begins an operation to list blobs in pages. To specify the page size to return, pass in a non-zero value for the `maxResults` parameter. Passing in zero for the `maxResults` parameter returns either the maximum number of results available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the `HasMoreResults` property to check whether the page is complete. For example, if you have specified a page size of 10,000, a value which exceeds the per-operation limit, `HasMoreResults` will return `true`, indicating that the page is not complete. Note that if you have not specified a page size, `HasMoreResults` will always be `false`.

If you have not specified a page size, or the value of `maxResults` is zero, then check the value of the `ContinuationToken` property to determine whether there are more results to return. The continuation token is non-null as long as there are more results to return from the service.

Call the `GetNext` method to return the next segment of results from the service.

The types of objects returned by the `ListBlobsSegmented` method depend on the type of listing that is being performed. If the `UseFlatBlobListing` property is set to `true`, the listing will return an enumerable collection of `CloudBlob` objects. If `UseFlatBlobListing` is set to `false` (the default value), the listing may return a collection containing `CloudBlob` objects and `CloudBlobDirectory` objects. The latter case provides a convenience for subsequent enumerations over a virtual blob hierarchy.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobDirectory Class
CloudBlobDirectory Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobDirectory.ListBlobsSegmented Method (Int32, ResultContinuation, BlobRequestOptions)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a result segment containing a collection of blob items. Use this overload when you want to control the maximum number of results returned at a time, and when you want to use a continuation token to determine whether there are more results to return from the service after the current page completes.

**Namespace:** Microsoft.WindowsAzure.StorageClient
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

```
Dim instance As CloudBlobDirectory
Dim maxResults As Integer
Dim continuationToken As ResultContinuation
Dim options As BlobRequestOptions
Dim returnValue As ResultSegment(Of IListBlobItem)

returnValue = instance.ListBlobsSegmented(maxResults,
```

## Syntax

### Visual Basic

Public Function ListBlobsSegmented ( _
    maxResults As Integer, _
    continuationToken As ResultContinuation, _
    options As BlobRequestOptions _
) As ResultSegment(Of IListBlobItem)

### C#

public ResultSegment<IListBlobItem> ListBlobsSegmented ( _
    int maxResults,
    ResultContinuation continuationToken,
    BlobRequestOptions options
)

### C++

public:
ResultSegment<IListBlobItem>* ListBlobsSegmented ( _
    int maxResults,
    ResultContinuation* continuationToken,
    BlobRequestOptions* options
)

### J#


### Parameters

- `maxResults`
A non-negative integer value that indicates the maximum number of results to be returned at a time, up to the per-operation limit of 5000. If this value is zero, the maximum possible number of results will be returned, up to 5000.

continuationToken
A continuation token returned by a previous listing operation.

options
An object that specifies any additional options for the request.

Return Value
A result segment containing objects that implement IListBlobItem.
Remarks

The **ListBlobsSegmented** method begins an operation to list blobs in pages. To specify the page size to return, pass in a non-zero value for the *maxResults* parameter. Passing in zero for the *maxResults* parameter returns either the maximum number of results available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the **HasMoreResults** property to check whether the page is complete. For example, if you have specified a page size of 10,000, a value which exceeds the per-operation limit, **HasMoreResults** will return **true**, indicating that the page is not complete. Note that if you have not specified a page size, **HasMoreResults** will always be **false**.

If you have not specified a page size, or the value of *maxResults* is zero, then check the value of the **ContinuationToken** property to determine whether there are more results to return. The continuation token is non-null as long as there are more results to return from the service.

Call the **GetNext** method to return the next segment of results from the service.

The types of objects returned by the **ListBlobsSegmented** method depend on the type of listing that is being performed. If the **UseFlatBlobListing** property is set to **true**, the listing will return an enumerable collection of **CloudBlob** objects. If **UseFlatBlobListing** is set to **false** (the default value), the listing may return a collection containing **CloudBlob** objects and **CloudBlobDirectory** objects. The latter case provides a convenience for subsequent enumerations over a virtual blob hierarchy.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudBlobDirectory Class
CloudBlobDirectory Members
Microsoft.WindowsAzure.StorageClient Namespace
<table>
<thead>
<tr>
<th><strong>CloudBlobDirectory Properties</strong></th>
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<tr>
<td><strong>See Also</strong></td>
</tr>
</tbody>
</table>

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Container</strong></td>
<td>Gets the container for the blob directory.</td>
</tr>
<tr>
<td><strong>Parent</strong></td>
<td>Gets the parent directory for the blob directory.</td>
</tr>
<tr>
<td><strong>ServiceClient</strong></td>
<td>Gets the service client for the blob directory.</td>
</tr>
<tr>
<td><strong>Uri</strong></td>
<td>Gets the URI that identifies the blob directory.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlobDirectory Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the container for the blob directory.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlobDirectory
Dim value As CloudBlobContainer

value = instance.Container
```
## Syntax

### Visual Basic

Public ReadOnly Property Container As CloudBlobContainer

### C#

public CloudBlobContainer Container { get; }

### C++

public:
virtual property CloudBlobContainer^ Container {
    CloudBlobContainer^ get () sealed;
}

### J#

### JScript

### Property Value

The container for the blob directory.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobDirectory Class
CloudBlobDirectory Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobDirectory.Parent Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the parent directory for the blob directory.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>

Dim instance As CloudBlobDirectory
Dim value As CloudBlobDirectory

value = instance.Parent
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public ReadOnly Property Parent As CloudBlobDirectory</td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public CloudBlobDirectory Parent { get; }</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public: virtual property CloudBlobDirectory^ Parent { CloudBlobDirectory^ get () sealed; }</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

The blob directory's parent directory.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlobDirectory Class
CloudBlobDirectory Members
Microsoft.WindowsAzure.StorageClient Namespace
<table>
<thead>
<tr>
<th><strong>CloudBlobDirectory.ServiceClient Property</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>See Also</strong></td>
</tr>
</tbody>
</table>

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the service client for the blob directory.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlobDirectory
Dim value As CloudBlobClient

value = instance.ServiceClient
```
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Property ServiceClient As <strong>CloudBlobClient</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>public <strong>CloudBlobClient</strong> ServiceClient { get; }</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
<th></th>
</tr>
</thead>
</table>
| public: property **CloudBlobClient**^ ServiceClient {  
**CloudBlobClient**^ get ();  
} |  |

<table>
<thead>
<tr>
<th>J#</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Property Value

A client object that specifies the endpoint for the Blob service.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudBlobDirectory Class
CloudBlobDirectory Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobDirectory.Uri Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the URI that identifies the blob directory.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudBlobDirectory
Dim value As Uri

value = instance.Uri
```
### Syntax

#### Visual Basic

Public Property Uri As Uri

#### C#

public Uri Uri { get; }

#### C++

public:
virtual property Uri^ Uri {
    Uri^ get () sealed;
}

#### J#

#### JScript

#### Property Value

The URI to the blob directory.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
[See Also]

Reference
CloudBlobDirectory Class
CloudBlobDirectory Members
Microsoft.WindowsAzure.StorageClient Namespace
---

**CloudBlockBlob Class**

<table>
<thead>
<tr>
<th>See Also</th>
<th>Members</th>
</tr>
</thead>
</table>

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a blob that is uploaded as a set of blocks.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

### Visual Basic

Dim instance As CloudBlockBlob
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
</tbody>
</table>
| Public Class CloudBlockBlob  
Inherits CloudBlob |  |
| **C#** |  |
| public class CloudBlockBlob : CloudBlob |  |
| **C++** |  |
| public ref class CloudBlockBlob : public CloudBlob |  |
| **J#** |  |
|  |  |
| **JScript** |  |
Inheritance Hierarchy

System.Object
  Microsoft.WindowsAzure.StorageClient.CloudBlockBlob
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a blob that is uploaded as a set of blocks.

The following tables list the members exposed by the CloudBlockBlob type.
## Public Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CloudBlockBlob</td>
<td>Overloaded.</td>
</tr>
</tbody>
</table>

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## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Attributes</strong></td>
<td>Gets the <a href="#">BlobAttributes</a> object that represents the blob's attributes. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td><strong>Container</strong></td>
<td>Gets a <a href="#">CloudBlobContainer</a> object representing the blob's container. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td><strong>Metadata</strong></td>
<td>Gets the blob's user-defined metadata. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td><strong>Name</strong></td>
<td>Gets the name of the blob. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td><strong>Parent</strong></td>
<td>Gets the <a href="#">CloudBlobDirectory</a> object representing the virtual parent directory for the blob. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td><strong>Properties</strong></td>
<td>Gets the blob's system properties. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td><strong>ServiceClient</strong></td>
<td>Gets the <a href="#">CloudBlobClient</a> object that represents the Blob service. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td><strong>SnapshotTime</strong></td>
<td>Gets the <a href="#">DateTime</a> value that uniquely identifies the snapshot, if this blob is a snapshot. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td><strong>ToBlockBlob</strong></td>
<td>Gets a <a href="#">CloudBlockBlob</a> object based on this blob. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td><strong>ToPageBlob</strong></td>
<td>Gets a <a href="#">CloudPageBlob</a> object based on this blob. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td><strong>Uri</strong></td>
<td>Gets the URI that identifies the blob. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
</tbody>
</table>
### Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BeginCopyFromBlob</strong></td>
<td>Overloaded. Begins an asynchronous operation to copy another blob's contents, properties, and metadata to the blob referenced by this CloudBlob object. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>BeginCreateSnapshot</strong></td>
<td>Overloaded. Begins an asynchronous operation to create a snapshot of the blob. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>BeginDelete</strong></td>
<td>Overloaded. Begins an asynchronous operation to delete the blob. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>BeginDeleteIfExists</strong></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>BeginDownloadBlockList</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>BeginDownloadToStream</strong></td>
<td>Overloaded. Begins an asynchronous operation to download the contents of a blob to a stream. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>BeginFetchAttributes</strong></td>
<td>Overloaded. Begins an asynchronous operation to populate the blob's properties and metadata. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>BeginPutBlock</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>BeginPutBlockList</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>BeginSetMetadata</strong></td>
<td>Overloaded. Begins an asynchronous operation to update the blob's metadata. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>BeginSetProperties</strong></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>BeginUploadFromStream</strong></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>CopyFromBlob</strong></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>CreateSnapshot</strong></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>Delete</strong></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>DeleteIfExists</strong></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>DownloadBlockList</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>DownloadByteArray</td>
<td>Overloaded. Downloads the blob's contents as an array of bytes. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>DownloadText</td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>DownloadToFile</td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>DownloadToStream</td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>EndCopyFromBlob</td>
<td>Ends an asynchronous operation to copy a blob's contents, properties, and metadata to a new blob. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>EndCreateSnapshot</td>
<td>Ends an asynchronous operation to create a snapshot of the blob. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>EndDelete</td>
<td>Ends an asynchronous operation to delete the blob. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>EndDeleteIfExists</td>
<td>Ends an asynchronous operation to delete the blob if it exists. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>EndDownloadBlockList</td>
<td>Ends an asynchronous operation to return an enumerable collection of the blob's blocks, using the specified block list filter, using a conditional request based on the BlobRequestOptions specified.</td>
</tr>
<tr>
<td>EndDownloadToStream</td>
<td>Ends an asynchronous operation to download the contents of a blob to a stream. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>EndFetchAttributes</td>
<td>Ends an asynchronous operation to populate the blob's properties and metadata. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>EndPutBlock</td>
<td>Ends an asynchronous operation to upload a single block.</td>
</tr>
<tr>
<td>EndPutBlockList</td>
<td>Ends an asynchronous operation to upload a list of blocks to a new or existing blob.</td>
</tr>
<tr>
<td>EndSetMetadata</td>
<td>Ends an asynchronous operation to update the blob's metadata. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>EndSetProperties</td>
<td>Ends an asynchronous operation to update the blob's properties. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td><strong>EndUploadFromStream</strong></td>
<td>blob from a stream. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>Equals</strong></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><strong>FetchAttributes</strong></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><strong>GetSharedAccessSignature</strong></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><strong>OpenRead</strong></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>OpenWrite</strong></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>PutBlock</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>PutBlockList</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>SetMetadata</strong></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>SetProperties</strong></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><strong>UploadByteArray</strong></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>UploadFile</strong></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>UploadFromStream</strong></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>UploadText</strong></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>❌ Finalize</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td>❌ MemberwiseClone</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td>❌ ParseSizeAndLastModified</td>
<td>Parses values from a Blob service response. This method is protected. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlockBlob Class
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
CloudBlockBlob Constructor

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudBlockBlob(String)</code></td>
<td>Initializes a new instance of the <a href="#">CloudBlockBlob</a> class using an absolute URI to the blob.</td>
</tr>
<tr>
<td><code>CloudBlockBlob(String, CloudBlobClient)</code></td>
<td>Initializes a new instance of the <a href="#">CloudBlockBlob</a> class using a relative URI to the blob, and a <a href="#">CloudBlobClient</a> object that specifies the endpoint for the Blob service.</td>
</tr>
<tr>
<td><code>CloudBlockBlob(String, StorageCredentials)</code></td>
<td>Initializes a new instance of the <a href="#">CloudBlockBlob</a> class using an absolute URI to the blob, and the storage account credentials.</td>
</tr>
<tr>
<td><code>CloudBlockBlob(String, StorageCredentials, Boolean)</code></td>
<td>Initializes a new instance of the <a href="#">CloudBlockBlob</a> class using an absolute URI to the blob and the storage account credentials, specifying whether path-style URIs are used.</td>
</tr>
<tr>
<td><code>CloudBlockBlob(String, Boolean)</code></td>
<td>Initializes a new instance of the <a href="#">CloudBlockBlob</a> class using an absolute URI to the blob, specifying whether path-style URIs are used.</td>
</tr>
<tr>
<td><code>CloudBlockBlob(String, Nullable, CloudBlobClient)</code></td>
<td>Initializes a new instance of the <a href="#">CloudBlockBlob</a> class using a relative URI to the blob, and a <a href="#">CloudBlobClient</a> object that specifies the endpoint for the Blob service, or snapshot if the blob is a snapshot.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlockBlob Constructor (String)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudBlockBlob class using an absolute URI to the blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim blobAbsoluteUri As String
Dim instance As New CloudBlockBlob(blobAbsoluteUri)
```
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Public Sub New (_
  blobAbsoluteUri As String _ |
|               ) |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public CloudBlockBlob (</td>
</tr>
</tbody>
</table>
  string blobAbsoluteUri  |
| ) |

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public:</td>
</tr>
<tr>
<td>CloudBlockBlob (</td>
</tr>
</tbody>
</table>
  String^ blobAbsoluteUri  |
| ) |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

**Parameters**

*blobAbsoluteUri*

Type: System.String

The absolute URI to the blob.
Platforms

Development Platforms
See Also

Reference
CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlockBlob Constructor (String, CloudBlobClient)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudBlockBlob class using a relative URI to the blob, and a CloudBlobClient object that specifies the endpoint for the Blob service.

Namespace: Microsoft.WindowsAzure.StorageClient
## Usage

### Visual Basic

```vbnet
Dim blobUri As String
Dim client As CloudBlobClient

Dim instance As New CloudBlockBlob(blobUri, client)
```
## Syntax

### Visual Basic

```vbnet
Public Sub New (_
    blobUri As String, _
    client As CloudBlobClient _
)
```

### C#

```csharp
public CloudBlockBlob (  
    string blobUri,  
    CloudBlobClient client
)
```

### C++

```cpp
public:
CloudBlockBlob (  
    String^ blobUri,  
    CloudBlobClient^ client
)
```

### J#

```
```

### JScript

```
```

## Parameters

**blobUri**

Type: `System.String`

The relative URI to the blob, beginning with the container name.
client
Type: Microsoft.WindowsAzure.StorageClient.CloudBlobClient
A client object that specifies the endpoint for the Blob service.
Platforms

Development Platforms
See Also

Reference
CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlockBlob Constructor (String, StorageCredentials)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudBlockBlob class using an absolute URI to the blob, and the storage account credentials.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim blobAbsoluteUri As String
Dim credentials As StorageCredentials

Dim instance As New CloudBlockBlob(blobAbsoluteUri, credentials)
### Syntax

#### Visual Basic

```vbnet
Public Sub New (_
    blobAbsoluteUri As String, _
    credentials As StorageCredentials _
)
```

#### C#

```csharp
public CloudBlockBlob (  
    string blobAbsoluteUri,  
    StorageCredentials credentials
)
```

#### C++

```cpp
public:  
    CloudBlockBlob (  
        String^ blobAbsoluteUri,  
        StorageCredentials^ credentials
    )
```

#### J#

```fsharp```

#### JScript

```javascript```

### Parameters

- **blobAbsoluteUri**
  - Type: `System.String`
  - The absolute URI to the blob.
credentials

Type: Microsoft.WindowsAzure.StorageCredentials

The account credentials.
Platforms

Development Platforms
See Also

Reference

CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlockBlob Constructor (String, StorageCredentials, Boolean)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudBlockBlob class using an absolute URI to the blob and the storage account credentials, specifying whether path-style URIs are used.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim blobAbsoluteUri As String
Dim credentials As StorageCredentials
Dim usePathStyleUris As Boolean

Dim instance As New CloudBlockBlob(blobAbsoluteUri, credentials)
### Syntax

#### Visual Basic

```vbnet
Public Sub New(
    blobAbsoluteUri As String,
    credentials As StorageCredentials,
    usePathStyleUris As Boolean
)
```

#### C#

```csharp
public CloudBlockBlob(
    string blobAbsoluteUri,
    StorageCredentials credentials,
    bool usePathStyleUris
)
```

#### C++

```cpp
public:
CloudBlockBlob(
    String^ blobAbsoluteUri,
    StorageCredentials^ credentials,
    bool usePathStyleUris
)
```

#### J#

```jscript

```

#### JScript

```javascript

```

### Parameters

- **blobAbsoluteUri**
Type: **System.String**

The absolute URI to the blob.

*credentials*

Type: **Microsoft.WindowsAzure.StorageCredentials**

The account credentials.

*usePathStyleUris*

Type: **System.Boolean**

**True** to use path-style URIs; otherwise, **false**.
Platforms

Development Platforms
See Also

Reference
CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlockBlob Constructor (String, Boolean)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudBlockBlob class using an absolute URI to the blob, specifying whether path-style URIs are used.

Namespace: Microsoft.WindowsAzure.StorageClient
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>
| Dim blobAbsoluteUri As *String*
Dim usePathStyleUris As *Boolean*

Dim instance As New *CloudBlockBlob*(blobAbsoluteUri, usePathStyleUris)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| Visual Basic | `Public Sub New ( _
| | blobAbsoluteUri As String, _
| | usePathStyleUris As Boolean _
| | )` |
| C# | `public CloudBlockBlob ( _
| | string blobAbsoluteUri, _
| | bool usePathStyleUris _
| | )` |
| C++ | `public:
| | CloudBlockBlob ( _
| | String^ blobAbsoluteUri, _
| | bool usePathStyleUris _
| | )` |
| J# | `JScript` |

### Parameters

- **blobAbsoluteUri**
  - Type: `System.String`
  - The absolute URI to the blob.
**usePathStyleUris**

Type: [System.Boolean](https://docs.microsoft.com/en-us/dotnet/api/system.boolean)

*True* to use path-style URIs; otherwise, *false*. 
 Platforms

Development Platforms
See Also

Reference

CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlockBlob Constructor (String, Nullable, CloudBlobClient)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudBlockBlob class using a relative URI to the blob, and a CloudBlobClient object that specifies the endpoint for the Blob service, or snapshot if the blob is a snapshot.

Namespace: Microsoft.WindowsAzure.StorageClient
## Usage

### Visual Basic

<table>
<thead>
<tr>
<th>Dim blobUri As String</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim snapshotTime As Nullable(Of DateTime)</td>
</tr>
<tr>
<td>Dim client As CloudBlobClient</td>
</tr>
</tbody>
</table>

Dim instance As New CloudBlockBlob(blobUri, snapshotTime)
**Syntax**

**Visual Basic**

Public Sub New ( _
  blobUri As String, _
  snapshotTime As Nullable(Of DateTime), _
  client As CloudBlobClient _
)

**C#**

public CloudBlockBlob (  
  string blobUri,  
  Nullable<DateTime> snapshotTime,  
  CloudBlobClient client
)

**C++**

public:  
CloudBlockBlob (  
  String^ blobUri,  
  Nullable<DateTime> snapshotTime,  
  CloudBlobClient^ client
)

**J#**

**JScript**

**Parameters**

*blobUri*
Type: `System.String`

The relative URI to the blob, beginning with the container name.

`snapshotTime`
Type: `System.Nullable`

The snapshot timestamp, if the blob is a snapshot.

`client`
Type: `Microsoft.WindowsAzure.StorageClient.CloudBlobClient`

A client object that specifies the endpoint for the Blob service.
 Platforms

 Development Platforms
See Also

Reference
CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="BeginCopyFromBlob" /></td>
<td>Overloaded. Begins an asynchronous operation to copy another blob's contents, properties, and metadata to the blob referenced by this <a href="#">CloudBlob</a> object. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><img src="image" alt="BeginCreateSnapshot" /></td>
<td>Overloaded. Begins an asynchronous operation to create a snapshot of the blob. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><img src="image" alt="BeginDelete" /></td>
<td>Overloaded. Begins an asynchronous operation to delete the blob. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><img src="image" alt="BeginDeleteIfExists" /></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><img src="image" alt="BeginDownloadBlockList" /></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><img src="image" alt="BeginDownloadToStream" /></td>
<td>Overloaded. Begins an asynchronous operation to download the contents of a blob to a stream. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><img src="image" alt="BeginFetchAttributes" /></td>
<td>Overloaded. Begins an asynchronous operation to populate the blob's properties and metadata. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><img src="image" alt="BeginPutBlock" /></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><img src="image" alt="BeginPutBlockList" /></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><img src="image" alt="BeginSetMetadata" /></td>
<td>Overloaded. Begins an asynchronous operation to update the blob's metadata. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><img src="image" alt="BeginSetProperties" /></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><img src="image" alt="BeginUploadFromStream" /></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>CopyFromBlob</td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>CreateSnapshot</td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>Delete</td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>DeleteIfExists</td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>DownloadBlockList</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>DownloadByteArray</td>
<td>Overloaded. Downloads the blob's contents as an array of bytes. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>DownloadText</td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>DownloadToFile</td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>DownloadToStream</td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>EndCopyFromBlob</td>
<td>Ends an asynchronous operation to copy a blob's contents, properties, and metadata to a new blob. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>EndCreateSnapshot</td>
<td>Ends an asynchronous operation to create a snapshot of the blob. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>EndDelete</td>
<td>Ends an asynchronous operation to delete the blob. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>EndDeleteIfExists</td>
<td>Ends an asynchronous operation to delete the blob if it exists. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>EndDownloadBlockList</td>
<td>Ends an asynchronous operation to return an enumerable collection of the blob's blocks, using the specified block list filter, using a conditional request based on the BlobRequestOptions specified.</td>
</tr>
<tr>
<td>EndDownloadToStream</td>
<td>Ends an asynchronous operation to download the contents of a blob to a stream. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>EndFetchAttributes</td>
<td>Ends an asynchronous operation to populate the blob's properties and metadata.</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>EndPutBlock</strong></td>
<td>Ends an asynchronous operation to upload a single block.</td>
</tr>
<tr>
<td><strong>EndPutBlockList</strong></td>
<td>Ends an asynchronous operation to upload a list of blocks to a new or existing blob.</td>
</tr>
<tr>
<td><strong>EndSetMetadata</strong></td>
<td>Ends an asynchronous operation to update the blob's metadata.</td>
</tr>
<tr>
<td><strong>EndSetProperties</strong></td>
<td>Ends an asynchronous operation to update the blob's properties.</td>
</tr>
<tr>
<td><strong>EndUploadFromStream</strong></td>
<td>Ends an asynchronous operation to upload a blob from a stream.</td>
</tr>
<tr>
<td><strong>Equals</strong></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><strong>FetchAttributes</strong></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><strong>GetSharedAccessSignature</strong></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><strong>OpenRead</strong></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>OpenWrite</strong></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>PutBlock</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>PutBlockList</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>SetMetadata</strong></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>SetProperties</strong></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><strong>UploadByteArray</strong></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>UploadFile</strong></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>UploadFromStream</strong></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>UploadText</strong></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![ ] Finalize</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td>![ ] MemberwiseClone</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td>![ ] ParseSizeAndLastModified</td>
<td>Parses values from a Blob service response. This method is protected.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlockBlob Class
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
CloudBlockBlob.BeginDownloadBlockList Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudBlockBlob.BeginDownloadBlockList(BlockListingFilter, BlobRequestOptions, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to return an enumerable collection of the blob's blocks, using the specified block list filter, based on the <code>BlobRequestOptions</code> specified.</td>
</tr>
<tr>
<td><code>CloudBlockBlob.BeginDownloadBlockList(BlockListingFilter, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to return an enumerable collection of the blob's blocks, using the specified block list filter.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
CloudBlockBlob.BeginDownloadBlockList Method (BlockListingFilter, BlobRequestOptions, AsyncCallback, Object)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to return an enumerable collection of the blob's blocks, using the specified block list filter, using a conditional request based on the BlobRequestOptions specified.

Namespace: Microsoft.WindowsAzure.StorageClient  
**Usage**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Dim instance As *CloudBlockBlob*
| Dim blockListingFilter As *BlockListingFilter*
| Dim options As *BlobRequestOptions*
| Dim callback As *AsyncCallback*
| Dim state As *Object*
| Dim returnValue As *IAasyncResult*

returnValue = instance.BeginDownloadBlockList(blockL:...
## Syntax

### Visual Basic

```vbnet
Public Function BeginDownloadBlockList ( _
    blockListingFilter As BlockListingFilter, _
    options As BlobRequestOptions, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginDownloadBlockList ( _
    BlockListingFilter blockListingFilter, _
    BlobRequestOptions options, _
    AsyncCallback callback, _
    Object state
)
```

### C++

```cpp
public:
    IAsyncResult^ BeginDownloadBlockList ( _
        BlockListingFilter^ blockListingFilter, _
        BlobRequestOptions^ options, _
        AsyncCallback^ callback, _
        Object^ state
    )
```

### J#

```
```

### JScript

```
```
**Parameters**

*blockListingFilter*

Type: `Microsoft.WindowsAzure.StorageClient.BlockListingFilter`

One of the enumeration values that indicates whether to return committed blocks, uncommitted blocks, or both.

*options*

Type: `Microsoft.WindowsAzure.StorageClient.BlobRequestOptions`

An object that specifies any additional options for the request.

*callback*

Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.

*state*

Type: `System.Object`

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the asynchronous operation.
Remarks

The **BeginDownloadBlockList** method begins an operation to download the block list for the blob, using the specified block listing filter. The block listing filter specifies whether to include only committed blobs, only uncommitted blobs, or both.

The committed block list includes the list of blocks that have been successfully committed to a blob. The list of committed blocks is returned in the same order that they were committed to the blob.

You can use the uncommitted block list to determine which blocks are missing from the blob in cases where either writing a block or committing the block list has failed. The list of uncommitted blocks is returned beginning with the most recently uploaded block to the oldest uploaded block. If a block ID has been uploaded more than once, only the most recently uploaded block appears in the list.

When blocks have been uploaded but the blob has not yet been committed with **PutBlockList**, calling **BeginDownloadBlockList** with **All** returns the uncommitted blocks.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
CloudBlockBlob.BeginDownloadBlockList Method (BlockListingFilter, AsyncCallback, Object)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to return an enumerable collection of the blob's blocks, using the specified block list filter.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudBlockBlob
Dim blockListingFilter As BlockListingFilter
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginDownloadBlockList(blockListingFilter, callback, state)
### Syntax

#### Visual Basic

```vbnet
Public Function BeginDownloadBlockList ( _
    blockListingFilter As BlockListingFilter, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

#### C#

```csharp
public IAsyncResult BeginDownloadBlockList (
    BlockListingFilter blockListingFilter,
    AsyncCallback callback,
    Object state
)
```

#### C++

```cpp
public: 
IAsyncResult^ BeginDownloadBlockList ( 
    BlockListingFilter blockListingFilter, 
    AsyncCallback^ callback, 
    Object^ state
)
```

#### J#

```jsharp
```

#### JScript

```jscript
```

### Parameters

*blockListingFilter*
Type: Microsoft.WindowsAzure.StorageClient.BlockListingFilter

One of the enumeration values that indicates whether to return committed blocks, uncommitted blocks, or both.

**callback**
Type: System AsyncCallback

The callback delegate that will receive notification when the asynchronous operation completes.

**state**
Type: System.Object

A user-defined object that will be passed to the callback delegate.

**Return Value**
Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
Remarks

The **BeginDownloadBlockList** method begins an operation to download the block list for the blob, using the specified block listing filter. The block listing filter specifies whether to include only committed blobs, only uncommitted blobs, or both.

The committed block list includes the list of blocks that have been successfully committed to a blob. The list of committed blocks is returned in the same order that they were committed to the blob.

You can use the uncommitted block list to determine which blocks are missing from the blob in cases where either writing a block or committing the block list has failed. The list of uncommitted blocks is returned beginning with the most recently uploaded block to the oldest uploaded block. If a block ID has been uploaded more than once, only the most recently uploaded block appears in the list.

When blocks have been uploaded but the blob has not yet been committed with **PutBlockList**, calling **BeginDownloadBlockList** with **All** returns the uncommitted blocks.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
CloudBlockBlob.BeginPutBlock Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudBlockBlob.BeginPutBlock(String, Stream, String, BlobRequestOptions, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to upload a single block, using a conditional request based on the <code>BlobRequestOptions</code> specified.</td>
</tr>
<tr>
<td><code>CloudBlockBlob.BeginPutBlock(String, Stream, String, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to upload a single block.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
CloudBlockBlob.BeginPutBlock Method (String, Stream, String, BlobRequestOptions, AsyncCallback, Object)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to upload a single block, using a conditional request based on the BlobRequestOptions specified.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

### Visual Basic

```vbnet
Dim instance As CloudBlockBlob
Dim blockId As String
Dim blockData As Stream
Dim contentMD5 As String
Dim options As BlobRequestOptions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginPutBlock(blockId, blockData, options, contentMD5, callback, state)
```
Syntax

**Visual Basic**

```vbnet
Public Function BeginPutBlock ( _
    blockId As String, _
    blockData As Stream, _
    contentMD5 As String, _
    options As BlobRequestOptions, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

**C#**

```csharp
public IAsyncResult BeginPutBlock (  
    string blockId,  
    Stream blockData,  
    string contentMD5,  
    BlobRequestOptions options,  
    AsyncCallback callback,  
    Object state  
)
```

**C++**

```c++
public:  
IAsyncResult^ BeginPutBlock (  
    String^ blockId,  
    Stream^ blockData,  
    String^ contentMD5,  
    BlobRequestOptions^ options,  
    AsyncCallback^ callback,  
    Object^ state  
)
```
**Parameters**

*blockId*

Type: `System.String`

A base64-encoded block ID that identifies the block.

*blockData*

Type: `System.IO.Stream`

A stream that provides the data for the block.

*contentMD5*

Type: `System.String`

A hash value used to verify the integrity of the block. May be `null` or an empty string.

*options*

Type: `Microsoft.WindowsAzure.StorageClient.BlobRequestOptions`

An object that specifies any additional options for the request.

*callback*

Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.

*state*

Type: `System.Object`

A user-defined object that will be passed to the callback delegate.

**Return Value**
Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
Remarks

The **BeginPutBlock** method begins an operation to upload a block for future inclusion in a block blob. A block may be up to 4 MB in size.

After you have uploaded a set of blocks, you can create or update the blob on the server from this set by calling the **BeginPutBlockList** method. Each block in the set is identified by a block ID that is unique within that blob. Block IDs are scoped to a particular blob, so different blobs can have blocks with same IDs.

If you call **BeginPutBlock** on a blob that does not yet exist, a new block blob is created with a content length of 0. This blob is enumerated by a blob listing operation if the **UncommittedBlobs** option is specified. The block or blocks that you uploaded are not committed until you commit the block list for the new blob. A blob created this way is maintained on the server for a week; if you have not added more blocks or committed blocks to the blob within that time period, then the blob is garbage collected.

The maximum block blob size currently supported is 200 GB, and up to 50,000 blocks. A blob can have a maximum of 100,000 uncommitted blocks at any given time, and the set of uncommitted blocks cannot exceed 400 GB in total size.

A block that has been successfully uploaded does not become part of a blob until it is committed with a call to **BeginPutBlockList**. Before the block list is committed to create a new blob or update an existing blob, an operation to return the blob's contents does not include the contents of the uncommitted block.

If you upload a block that has the same block ID as another block that has not yet been committed, the last uploaded block with that ID will be committed on the next successful call to **BeginPutBlockList**.

On calling **BeginPutBlockList**, all uncommitted blocks specified in the block list are committed as part of the new blob. Any uncommitted blocks that were not specified in the block list for the blob will be garbage collected and removed from the Blob service. Any uncommitted blocks will also be garbage collected if they are not committed within a week following the last successful block upload.
If another write operation is performed on the blob, any uncommitted blocks will also be garbage collected.

For a given blob, all block IDs must be the same length, but the block contents can be of different size. If a block is uploaded with a block ID of a different length than the block IDs for any existing uncommitted blocks, an exception is thrown, with an error code of `InvalidBlockId`.

Calling `BeginPutBlock` does not update the last modified time of an existing blob.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
CloudBlockBlob.BeginPutBlock Method (String, Stream, String, AsyncCallback, Object)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to upload a single block.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudBlockBlob
Dim blockId As String
Dim blockData As Stream
Dim contentMD5 As String
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginPutBlock(blockId, blockData)
<table>
<thead>
<tr>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>
| Public Function BeginPutBlock (  
  blockId As String,  
  blockData As Stream,  
  contentMD5 As String,  
  callback As AsyncCallback,  
  state As Object  
) As IAsyncResult |
| **C#** |
| public IAsyncResult BeginPutBlock (  
  string blockId,  
  Stream blockData,  
  string contentMD5,  
  AsyncCallback callback,  
  Object state  
) |
| **C++** |
| public:  
IAsyncResult^ BeginPutBlock (  
  String^ blockId,  
  Stream^ blockData,  
  String^ contentMD5,  
  AsyncCallback^ callback,  
  Object^ state  
) |
| **J#** |
|
JScript

Parameters

`blockId`
Type: `System.String`
A base64-encoded block ID that identifies the block.

`blockData`
Type: `System.IO.Stream`
A stream that provides the data for the block.

`contentMD5`
Type: `System.String`
A hash value used to verify the integrity of the block. May be `null` or an empty string.

`callback`
Type: `System.AsyncCallback`
The callback delegate that will receive notification when the asynchronous operation completes.

`state`
Type: `System.Object`
A user-defined object that will be passed to the callback delegate.

Return Value

Type: `System.IAsyncResult`
An `IAsyncResult` that references the asynchronous operation.
Remarks

The `BeginPutBlock` method begins an operation to upload a block for future inclusion in a block blob. A block may be up to 4 MB in size.

After you have uploaded a set of blocks, you can create or update the blob on the server from this set by calling the `BeginPutBlockList` method. Each block in the set is identified by a block ID that is unique within that blob. Block IDs are scoped to a particular blob, so different blobs can have blocks with same IDs.

If you call `BeginPutBlock` on a blob that does not yet exist, a new block blob is created with a content length of 0. This blob is enumerated by a blob listing operation if the `UncommittedBlobs` option is specified. The block or blocks that you uploaded are not committed until you commit the block list for the new blob. A blob created this way is maintained on the server for a week; if you have not added more blocks or committed blocks to the blob within that time period, then the blob is garbage collected.

The maximum block blob size currently supported is 200 GB, and up to 50,000 blocks. A blob can have a maximum of 100,000 uncommitted blocks at any given time, and the set of uncommitted blocks cannot exceed 400 GB in total size.

A block that has been successfully uploaded does not become part of a blob until it is committed with a call to `BeginPutBlockList`. Before the block list is committed to create a new blob or update an existing blob, an operation to return the blob’s contents does not include the contents of the uncommitted block.

If you upload a block that has the same block ID as another block that has not yet been committed, the last uploaded block with that ID will be committed on the next successful call to `BeginPutBlockList`.

On calling `BeginPutBlockList`, all uncommitted blocks specified in the block list are committed as part of the new blob. Any uncommitted blocks that were not specified in the block list for the blob will be garbage collected and removed from the Blob service. Any uncommitted blocks will also be garbage collected if they are not committed within a week following the last successful block upload.
If another write operation is performed on the blob, any uncommitted blocks will also be garbage collected.

For a given blob, all block IDs must be the same length, but the block contents can be of different size. If a block is uploaded with a block ID of a different length than the block IDs for any existing uncommitted blocks, an exception is thrown, with an error code of \texttt{InvalidBlockId}.

Calling \texttt{BeginPutBlock} does not update the last modified time of an existing blob.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
CloudBlockBlob.BeginPutBlockList Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<thead>
<tr>
<th>Name</th>
<th>Description</th>
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<tbody>
<tr>
<td><code>CloudBlockBlob.BeginPutBlockList(IEnumerable, BlobRequestOptions, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to upload a list of blocks to a new or existing blob, using a conditional request based on the <code>BlobRequestOptions</code> specified.</td>
</tr>
<tr>
<td><code>CloudBlockBlob.BeginPutBlockList(IEnumerable, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to upload a list of blocks to a new or existing blob.</td>
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</table>
See Also

Reference
CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
CloudBlockBlob.BeginPutBlockList Method (IEnumerable, BlobRequestOptions, AsyncCallback, Object)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to upload a list of blocks to a new or existing blob, using a conditional request based on the BlobRequestOptions specified.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

### Visual Basic

```vbnet
Dim instance As CloudBlockBlob
Dim blockList As IEnumerable(Of String)
Dim options As BlobRequestOptions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginPutBlockList(blockList, options)
```
# Syntax

## Visual Basic

```
Public Function BeginPutBlockList ( _
    blockList As IEnumerable(Of String), _
    options As BlobRequestOptions, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

## C#

```
public IAsyncResult BeginPutBlockList (  
    IEnumerable<string> blockList,  
    BlobRequestOptions options,  
    AsyncCallback callback,  
    Object state
)
```

## C++

```
public:  
    IAsyncResult^ BeginPutBlockList (  
        IEnumerable<String^>^ blockList,  
        BlobRequestOptions^ options,  
        AsyncCallback^ callback,  
        Object^ state
    )
```

## J#

```
JScript
```

## JScript
**Parameters**

*blockList*
   - Type: System.Collections.Generic.IEnumerable
   - An enumerable collection of block IDs, as base64-encoded strings.

*options*
   - Type: Microsoft.WindowsAzure.StorageClient.BlobRequestOptions
   - An object that specifies any additional options for the request.

*callback*
   - Type: System.AsyncCallback
   - The callback delegate that will receive notification when the asynchronous operation completes.

*state*
   - Type: System.Object
   - A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
Remarks

The **BeginPutBlockList** method begins an operation to write to a blob by specifying the list of block IDs that make up the blob. In order to be written as part of a blob, a block must have been successfully written to the service using **BeginPutBlock**.

By calling **BeginPutBlockList**, you can modify an existing blob by inserting, updating, or deleting individual blocks, without uploading the whole blob again. You can specify block IDs from both the current committed block list and the uncommitted block list to create a new blob or update the content of an existing blob. In this way you can update a blob by specifying a few new blocks from the uncommitted block list, and the rest from the committed block list, which are already part of the existing blob.

The maximum number of blocks that may be committed is 50,000, and the maximum size of a blob that may be committed via **BeginPutBlockList** is 200 GB. The maximum number of uncommitted blocks that may be associated with a blob is 100,000, and the maximum size of the uncommitted block list is 400 GB.

When you call **BeginPutBlockList** to update an existing blob, the blob's existing properties and metadata are overwritten. However, any existing snapshots are retained with the blob. You can use include an access condition to perform the operation only if a specified condition is met.

If **BeginPutBlockList** fails due to a missing block, you will need to upload the missing block.

Any uncommitted blocks will be garbage collected if there are no successful calls to upload a block or commit the block list within a week following the last successful block upload. If the blob's contents are modified in some other way, any uncommitted blocks will be garbage collected.
Thread Safety

Any public static (**Shared** in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
Begins an asynchronous operation to upload a list of blocks to a new or existing blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

#### Visual Basic

Dim instance As CloudBlockBlob
Dim blockList As IEnumerable(Of String)
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginPutBlockList(blockList, callback, state)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Function BeginPutBlockList ( _ blockList As IEnumerable(Of String), _ callback As AsyncCallback, _ state As Object _ ) As IAsyncResult</td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public IAsyncResult BeginPutBlockList ( IEnumerable&lt;string&gt; blockList, AsyncCallback callback, Object state )</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public: IAsyncResult^ BeginPutBlockList ( IEnumerable&lt;String^&gt;^ blockList, AsyncCallback^ callback, Object^ state )</td>
</tr>
</tbody>
</table>
| **J#** | **JScript** | **Parameters**

**blockList**
Type: System.Collections.Generic.IEnumerable

An enumerable collection of block IDs, as base64-encoded strings.

**callback**
Type: System.AsyncCallback

The callback delegate that will receive notification when the asynchronous operation completes.

**state**
Type: System.Object

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
Remarks

The **BeginPutBlockList** method begins an operation to write to a blob by specifying the list of block IDs that make up the blob. In order to be written as part of a blob, a block must have been successfully written to the service using **BeginPutBlock**.

By calling **BeginPutBlockList**, you can modify an existing blob by inserting, updating, or deleting individual blocks, without uploading the whole blob again. You can specify block IDs from both the current committed block list and the uncommitted block list to create a new blob or update the content of an existing blob. In this way you can update a blob by specifying a few new blocks from the uncommitted block list, and the rest from the committed block list, which are already part of the existing blob.

The maximum number of blocks that may be committed is 50,000, and the maximum size of a blob that may be committed via **BeginPutBlockList** is 200 GB. The maximum number of uncommitted blocks that may be associated with a blob is 100,000, and the maximum size of the uncommitted block list is 400 GB.

When you call **BeginPutBlockList** to update an existing blob, the blob's existing properties and metadata are overwritten. However, any existing snapshots are retained with the blob. You can use include an access condition to perform the operation only if a specified condition is met.

If **BeginPutBlockList** fails due to a missing block, you will need to upload the missing block.

Any uncommitted blocks will be garbage collected if there are no successful calls to upload a block or commit the block list within a week following the last successful block upload. If the blob's contents are modified in some other way, any uncommitted blocks will be garbage collected.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
CloudBlockBlob.DownloadBlockList Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

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<td><code>CloudBlockBlob.DownloadBlockList()</code></td>
<td>Returns an enumerable collection of the committed blocks comprising the blob.</td>
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<tr>
<td><code>CloudBlockBlob.DownloadBlockList(BlobRequestOptions)</code></td>
<td>Returns an enumerable collection of the committed blocks comprising the blob, using a conditional request based on the <code>BlobRequestOptions</code> specified.</td>
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<tr>
<td><code>CloudBlockBlob.DownloadBlockList(BlockListingFilter)</code></td>
<td>Returns an enumerable collection of the blob's blocks, using the specified block list filter.</td>
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<tr>
<td><code>CloudBlockBlob.DownloadBlockList(BlockListingFilter, BlobRequestOptions)</code></td>
<td>Returns an enumerable collection of the blob's blocks, using the specified block list filter.</td>
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</tbody>
</table>
See Also

Reference
CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns an enumerable collection of the committed blocks comprising the blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlockBlob
Dim returnValue As IEnumerable(Of ListBlockItem)

returnValue = instance.DownloadBlockList
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Function DownloadBlockList As <em>IEnumerable</em>(Of <em>ListBlockItem</em>)</td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public <em>IEnumerable</em>&lt;<code>ListBlockItem</code>&gt; DownloadBlockList</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public: <em>IEnumerable</em>&lt;<code>ListBlockItem</code>&gt;^&gt;^ DownloadBlockList ()</td>
</tr>
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<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Return Value

Type: System.Collections.Generic.IEnumerable

An enumerable collection of objects implementing *ListBlockItem*. 
Example

The following code example downloads the block list for a blob and enumerates the blocks in the list. The example first downloads the committed blocks, then the uncommitted blocks, then the entire block list.

C#

```csharp
static void DownloadBlockListForBlob(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service, using development storage.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint,
        new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a block blob.
    CloudBlockBlob blockBlob = blobClient.GetBlockBlobReference("mycontainer/mybinaryblob.mp3");

    //Download the committed blocks in the block list.
    foreach (var blockListItem in blockBlob.DownloadBlockList())
    {
        Console.WriteLine("Block ID: " + blockListItem.Name);
        Console.WriteLine("Block size: " + blockListItem.Size);
        Console.WriteLine("Is block committed?: " + blockListItem.Committed);
        Console.WriteLine();
    }

    //Download only uncommitted blocks.
    foreach (var blockListItem in blockBlob.DownloadBlockList(BlockListingFilter.Uncommitted))
    {
        Console.WriteLine("Block ID: " + blockListItem.Name);
        Console.WriteLine("Block size: " + blockListItem.Size);
        Console.WriteLine("Is block committed?: " + blockListItem.Committed);
        Console.WriteLine();
    }

    //Download all blocks.
    foreach (var blockListItem in blockBlob.DownloadBlockList(BlockListingFilter.All))
    {
        Console.WriteLine("Block ID: " + blockListItem.Name);
        Console.WriteLine("Block size: " + blockListItem.Size);
        Console.WriteLine("Is block committed?: " + blockListItem.Committed);
        Console.WriteLine();
    }
}
```
{   Console.WriteLine("Block ID: " + blockListItem.Name);   Console.WriteLine("Block size: " + blockListItem.Size);   Console.WriteLine("Is block committed?: " + blockListItem.Committed);   Console.WriteLine();}
Remarks

The **DownloadBlockList** method downloads the list of committed blocks that comprise the blob. The committed block list includes the list of blocks that have been successfully committed to a blob.

The list of committed blocks is returned in the same order that they were committed to the blob. No block may appear more than once in the committed block list.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
CloudBlockBlob.DownloadBlockList Method (BlobRequestOptions)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns an enumerable collection of the committed blocks comprising the blob, using a conditional request based on the BlobRequestOptions specified.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
 Dim instance As CloudBlockBlob
 Dim options As BlobRequestOptions
 Dim returnValue As IEnumerable(Of ListBlockItem)

 returnValue = instance.DownloadBlockList(options)
```
**Syntax**

**Visual Basic**

```vbnet
Public Function DownloadBlockList (  
    options As BlobRequestOptions  
) As IEnumerable(Of ListBlockItem)
```

**C#**

```csharp
public IEnumerable<ListBlockItem> DownloadBlockList (  
    BlobRequestOptions options
)
```

**C++**

```cpp
public: 
    IEnumerable<ListBlockItem^> DownloadBlockList (  
        BlobRequestOptions^ options
    )
```

**J#**

```jscript
```

**JScript**

```jscript
```

**Parameters**

*options*

Type: `Microsoft.WindowsAzure.StorageClient.BlobRequestOptions`

An object that specifies any additional options for the request.

**Return Value**

Type: `System.Collections.Generic.IEnumerable`
An enumerable collection of objects implementing `ListBlockItem`. 
**Example**

The following code example downloads the block list for a blob and enumerates the blocks in the list. The example first downloads the committed blocks, then the uncommitted blocks, then the entire block list.

```csharp
static void DownloadBlockListForBlob(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service, using development storage.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint,
        new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a block blob.
    CloudBlockBlob blockBlob = blobClient.GetBlockBlobReference("mycontainer/mybinaryblob.mp3");

    //Download the committed blocks in the block list.
    foreach (var blockListItem in blockBlob.DownloadBlockList())
    {
        Console.WriteLine("Block ID: " + blockListItem.Name);
        Console.WriteLine("Block size: " + blockListItem.Size);
        Console.WriteLine("Is block committed?: " + blockListItem.Committed);
        Console.WriteLine();
    }

    //Download only uncommitted blocks.
    foreach (var blockListItem in blockBlob.DownloadBlockList(BlockListingFilter.Uncommitted))
    {
        Console.WriteLine("Block ID: " + blockListItem.Name);
        Console.WriteLine("Block size: " + blockListItem.Size);
        Console.WriteLine("Is block committed?: " + blockListItem.Committed);
        Console.WriteLine();
    }

    //Download all blocks.
    foreach (var blockListItem in blockBlob.DownloadBlockList())
    {
        Console.WriteLine("Block ID: " + blockListItem.Name);
        Console.WriteLine("Block size: " + blockListItem.Size);
        Console.WriteLine("Is block committed?: " + blockListItem.Committed);
        Console.WriteLine();
    }
```
{ Console.WriteLine("Block ID: " + blockListItem.Name);
    Console.WriteLine("Block size: " + blockListItem.Size);
    Console.WriteLine("Is block committed?: " + blockListItem.Committed);
    Console.WriteLine();
}
Remarks

The **DownloadBlockList** method downloads the list of committed blocks that comprise the blob. The committed block list includes the list of blocks that have been successfully committed to a blob.

The list of committed blocks is returned in the same order that they were committed to the blob. No block may appear more than once in the committed block list.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
CloudBlockBlob.DownloadBlockList Method (BlockListingFilter)

See Also Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns an enumerable collection of the blob's blocks, using the specified block list filter.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

Dim instance As CloudBlockBlob
Dim blockListingFilter As BlockListingFilter
Dim returnValue As IEnumerable(Of ListBlockItem)

returnValue = instance.DownloadBlockList(blockListingFilter)
**Syntax**

**Visual Basic**

```
Public Function DownloadBlockList (_
    blockListingFilter As BlockListingFilter _
) As IEnumerable(Of ListBlockItem)
```

**C#**

```
public IEnumerable<ListBlockItem> DownloadBlockList (_
    BlockListingFilter blockListingFilter _
)
```

**C++**

```
public: 
       IEnumerable<ListBlockItem>^ DownloadBlockList (_
       BlockListingFilter blockListingFilter _
)
```

**J#**

```
```

**JScript**

```
```

**Parameters**

`blockListingFilter`  
Type: [Microsoft.WindowsAzure.StorageClient.BlockListingFilter](#)  
One of the enumeration values that indicates whether to return committed blocks, uncommitted blocks, or both.

**Return Value**
Type: System.Collections.Generic.IEnumerable

An enumerable collection of objects implementing ListBlockItem.
Example
The following code example downloads the block list for a blob and enumerates
the blocks in the list. The example first downloads the committed blocks, then
the uncommitted blocks, then the entire block list.
C#

static void DownloadBlockListForBlob(Uri blobEndpoint, string
{
//Create service client for credentialed access to the Bl
CloudBlobClient blobClient = new CloudBlobClient(blobEndp
new StorageCredentialsAccountAndKey(accountName, acco

//Get a reference to a block blob.
CloudBlockBlob blockBlob = blobClient.GetBlockBlobReferen

//Download the committed blocks in the block list.
foreach (var blockListItem in blockBlob.DownloadBlockList
{
Console.WriteLine("Block ID: " + blockListItem.Name);
Console.WriteLine("Block size: " + blockListItem.Size
Console.WriteLine("Is block committed?: " + blockList
Console.WriteLine();
}

//Download only uncommitted blocks.
foreach (var blockListItem in blockBlob.DownloadBlockList
{
Console.WriteLine("Block ID: " + blockListItem.Name);
Console.WriteLine("Block size: " + blockListItem.Size
Console.WriteLine("Is block committed?: " + blockList
Console.WriteLine();
}

//Download all blocks.
foreach (var blockListItem in blockBlob.DownloadBlockList


{ 
    Console.WriteLine("Block ID: " + blockListItem.Name);
    Console.WriteLine("Block size: " + blockListItem.Size);
    Console.WriteLine("Is block committed?: " + blockListItem.Committed);
    Console.WriteLine();
}
Remarks

The **DownloadBlockList** method downloads the block list for the blob, using the specified block listing filter. The block listing filter specifies whether to include only committed blobs, only uncommitted blobs, or both.

The committed block list includes the list of blocks that have been successfully committed to a blob. The list of committed blocks is returned in the same order that they were committed to the blob. No block may appear more than once in the committed block list.

You can use the uncommitted block list to determine which blocks are missing from the blob in cases where writing a block or the block list has failed. The list of uncommitted blocks is returned beginning with the most recently uploaded block to the oldest uploaded block. If a block ID has been uploaded more than once, only the most recently uploaded block appears in the list.

When blocks have been uploaded but the blob has not yet been committed with **PutBlockList**, calling **DownloadBlockList** with All returns the uncommitted blocks.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
Change History
See Also

Reference
CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
Returns an enumerable collection of the blob's blocks, using the specified block list filter.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlockBlob
Dim blockListingFilter As BlockListingFilter
Dim options As BlobRequestOptions
Dim returnValue As IEnumerable(Of ListBlockItem)

returnValue = instance.DownloadBlockList(blockListingFilter)
```
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Function DownloadBlockList ( blockListingFilter As BlockListingFilter, options As BlobRequestOptions ) As IEnumerable(Of ListBlockItem)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>public IEnumerable&lt;ListBlockItem&gt; DownloadBlockList ( BlockListingFilter blockListingFilter, BlobRequestOptions options )</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>public: IEnumerable&lt;ListBlockItem&gt;&gt; DownloadBlockList ( BlockListingFilter blockListingFilter, BlobRequestOptions options )</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Parameters

**blockListingFilter**


One of the enumeration values that indicates whether to return committed blocks, uncommitted blocks, or both.
**options**

d.aspx)

An object that specifies any additional options for the request.

**Return Value**

Type: `System.Collections.Generic.IEnumerable`

An enumerable collection of objects implementing `ListBlockItem`. 
Example
The following code example downloads the block list for a blob and enumerates
the blocks in the list. The example first downloads the committed blocks, then
the uncommitted blocks, then the entire block list.
C#

static void DownloadBlockListForBlob(Uri blobEndpoint, string
{
//Create service client for credentialed access to the Bl
CloudBlobClient blobClient = new CloudBlobClient(blobEndp
new StorageCredentialsAccountAndKey(accountName, acco

//Get a reference to a block blob.
CloudBlockBlob blockBlob = blobClient.GetBlockBlobReferen

//Download the committed blocks in the block list.
foreach (var blockListItem in blockBlob.DownloadBlockList
{
Console.WriteLine("Block ID: " + blockListItem.Name);
Console.WriteLine("Block size: " + blockListItem.Size
Console.WriteLine("Is block committed?: " + blockList
Console.WriteLine();
}

//Download only uncommitted blocks.
foreach (var blockListItem in blockBlob.DownloadBlockList
{
Console.WriteLine("Block ID: " + blockListItem.Name);
Console.WriteLine("Block size: " + blockListItem.Size
Console.WriteLine("Is block committed?: " + blockList
Console.WriteLine();
}

//Download all blocks.
foreach (var blockListItem in blockBlob.DownloadBlockList


{  
    Console.WriteLine("Block ID: " + blockListItem.Name);
    Console.WriteLine("Block size: " + blockListItem.Size);
    Console.WriteLine("Is block committed?: " + blockListItem.Committed);
    
    Console.WriteLine();
}
Remarks

The **DownloadBlockList** method downloads the block list for the blob, using the specified block listing filter. The block listing filter specifies whether to include only committed blobs, only uncommitted blobs, or both.

The committed block list includes the list of blocks that have been successfully committed to a blob. The list of committed blocks is returned in the same order that they were committed to the blob. No block may appear more than once in the committed block list.

You can use the uncommitted block list to determine which blocks are missing from the blob in cases where writing a block or the block list has failed. The list of uncommitted blocks is returned beginning with the most recently uploaded block to the oldest uploaded block. If a block ID has been uploaded more than once, only the most recently uploaded block appears in the list.

When blocks have been uploaded but the blob has not yet been committed with **PutBlockList**, calling **DownloadBlockList** with **All** returns the uncommitted blocks.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to return an enumerable collection of the blob's blocks, using the specified block list filter, using a conditional request based on the BlobRequestOptions specified.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

<table>
<thead>
<tr>
<th>Dim instance As CloudBlockBlob</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim asyncResult As IAsyncResult</td>
</tr>
<tr>
<td>Dim returnValue As IEnumerable(Of ListBlockItem)</td>
</tr>
</tbody>
</table>

returnValue = instance.EndDownloadBlockList(asyncResult)
## Syntax

### Visual Basic

```vbnet
Public Function EndDownloadBlockList ( _
    asyncResult As IAsyncResult _
) As IEnumerable(Of ListBlockItem)
```

### C#

```csharp
public IEnumerable<ListBlockItem> EndDownloadBlockList (  
    IAsyncResult asyncResult
)
```

### C++

```cpp
public: 
IEnumerable<ListBlockItem>^ EndDownloadBlockList ( 
    IAsyncResult^ asyncResult
)
```

### J#

```jsharp
```

### JScript

```javascript
```

### Parameters

#### `asyncResult`

Type: `System.IAsyncResult`  
An `IAsyncResult` that references the pending asynchronous operation.

### Return Value
Type: System.Collections.Generic.IEnumerable

An enumerable collection of objects implementing ListBlockItem.
- **Thread Safety**

  Any public static (**Shared** in Visual Basic) members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
**Platforms**

**Development Platforms**
See Also

Reference
CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to upload a single block.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim instance As CloudBlockBlob
Dim asyncResult As IAsyncResult

instance.EndPutBlock(asyncResult)
```
## Syntax

**Visual Basic**

```vbnet
Public Sub EndPutBlock ( _
    asyncResult As IAsyncResult _
)
```

**C#**

```csharp
public void EndPutBlock (  
    IAsyncResult asyncResult
)
```

**C++**

```cpp
public:
    void EndPutBlock (  
        IAsyncResult asyncResult
    )
```

**J#**

```jsharp
```

**JScript**

```jscript
```

### Parameters

*asyncResult*

- **Type:** `System.IAsyncResult`

  An `IAsyncResult` that references the pending asynchronous operation.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlockBlob.EndPutBlockList Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to upload a list of blocks to a new or existing blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlockBlob
Dim asyncResult As IAsyncResult

instance.EndPutBlockList(asyncResult)
```
### Syntax

**Visual Basic**

```vbnet
Public Sub EndPutBlockList ( _
    asyncResult As IAsyncResult _
)
```

**C#**

```csharp
public void EndPutBlockList ( 
    IAsyncResult asyncResult
)
```

**C++**

```cpp
public:
void EndPutBlockList ( 
    IAsyncResult^ asyncResult
)
```

**J#**

```js
```

**JScript**

```js
```

### Parameters

**asyncResult**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the pending asynchronous operation.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlockBlob.PutBlock Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudBlockBlob.PutBlock(String, Stream, String)</code></td>
<td>Uploads a single block.</td>
</tr>
<tr>
<td><code>CloudBlockBlob.PutBlock(String, Stream, String, BlobRequestOptions)</code></td>
<td>Uploads a single block, using a conditional request based on the <code>BlobRequestOptions</code> specified.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
Uploads a single block.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudBlockBlob
Dim blockId As String
Dim blockData As Stream
Dim contentMD5 As String

instance.PutBlock(blockId, blockData, contentMD5)
```
## Syntax

### Visual Basic

```
Public Sub PutBlock (  
    blockId As String,  
    blockData As Stream,  
    contentMD5 As String  
)
```

### C#

```
public void PutBlock (  
    string blockId,  
    Stream blockData,  
    string contentMD5  
)
```

### C++

```
public:  
void PutBlock (  
    String^ blockId,  
    Stream^ blockData,  
    String^ contentMD5  
)
```

### J#

```
```

### JScript

```
```

### Parameters

*blockId*
Type: **System.String**

A base64-encoded block ID that identifies the block.

**blockData**

Type: **System.IO.Stream**

A stream that provides the data for the block.

**contentMD5**

Type: **System.String**

A hash value used to verify the integrity of the block. May be `null` or an empty string.
Remarks

The **PutBlock** method uploads a block for future inclusion in a block blob. A block may be up to 4 MB in size.

After you have uploaded a set of blocks, you can create or update the blob on the server from this set by calling the **PutBlockList** method. Each block in the set is identified by a block ID that is unique within that blob. Block IDs are scoped to a particular blob, so different blobs can have blocks with same IDs.

If you call **PutBlock** on a blob that does not yet exist, a new block blob is created with a content length of 0. This blob is enumerated by a blob listing operation if the **UncommittedBlobs** option is specified. The block or blocks that you uploaded are not committed until you commit the block list for the new blob. A blob created this way is maintained on the server for a week; if you have not added more blocks or committed blocks to the blob within that time period, then the blob is garbage collected.

The maximum block blob size currently supported is 200 GB, and up to 50,000 blocks. A blob can have a maximum of 100,000 uncommitted blocks at any given time, and the set of uncommitted blocks cannot exceed 400 GB in total size.

A block that has been successfully uploaded does not become part of a blob until it is committed with a call to **PutBlockList**. Before the block list is committed to create a new blob or update an existing blob, an operation to return the blob's contents does not include the contents of the uncommitted block.

If you upload a block that has the same block ID as another block that has not yet been committed, the last uploaded block with that ID will be committed on the next successful call to **PutBlockList**.

On calling **PutBlockList**, all uncommitted blocks specified in the block list are committed as part of the new blob. Any uncommitted blocks that were not specified in the block list for the blob will be garbage collected and removed from the Blob service. Any uncommitted blocks will also be garbage collected if they are not committed within a week following the last successful block upload.
If another write operation is performed on the blob, any uncommitted blocks will also be garbage collected.

For a given blob, all block IDs must be the same length, but the block contents can be of different size. If a block is uploaded with a block ID of a different length than the block IDs for any existing uncommitted blocks, an exception is thrown, with an error code of `InvalidBlockId`.

Calling **PutBlock** does not update the last modified time of an existing blob.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
CloudBlockBlob.PutBlock Method (String, Stream, String, BlobRequestOptions)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Uploads a single block, using a conditional request based on the BlobRequestOptions specified.

Namespace: Microsoft.WindowsAzure.StorageClient
## Usage

### Visual Basic

```vbnet
Dim instance As CloudBlockBlob
Dim blockId As String
Dim blockData As Stream
Dim contentMD5 As String
Dim options As BlobRequestOptions

instance.PutBlock(blockId, blockData, contentMD5, options)
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| Visual Basic | `Public Sub PutBlock ( _
|             |   blockId As String, _
|             |   blockData As Stream, _
|             |   contentMD5 As String, _
|             |   options As BlobRequestOptions _
|             | )`                                                                    |
| C#          | `public void PutBlock (
|             |   string blockId,
|             |   Stream blockData,
|             |   string contentMD5,
|             |   BlobRequestOptions options
|             | )`                                                                    |
| C++         | `public:
|             | void PutBlock (  
|             |   String^ blockId,
|             |   Stream^ blockData,
|             |   String^ contentMD5,
|             |   BlobRequestOptions^ options
|             | )`                                                                    |
| J#          | `JScript                                                             |
| JScript     | `JScript                                                             |
**Parameters**

*blockId*
  Type: **System.String**

  A base64-encoded block ID that identifies the block.

*blockData*
  Type: **System.IO.Stream**

  A stream that provides the data for the block.

*contentMD5*
  Type: **System.String**

  A hash value used to verify the integrity of the block. May be `null` or an empty string.

*options*
  Type: **Microsoft.WindowsAzure.StorageClient.BlobRequestOptions**

  An object that specifies any additional options for the request.
Remarks

The **PutBlock** method uploads a block for future inclusion in a block blob. A block may be up to 4 MB in size.

After you have uploaded a set of blocks, you can create or update the blob on the server from this set by calling the **PutBlockList** method. Each block in the set is identified by a block ID that is unique within that blob. Block IDs are scoped to a particular blob, so different blobs can have blocks with same IDs.

If you call **PutBlock** on a blob that does not yet exist, a new block blob is created with a content length of 0. This blob is enumerated by a blob listing operation if the **UncommittedBlobs** option is specified. The block or blocks that you uploaded are not committed until you commit the block list for the new blob. A blob created this way is maintained on the server for a week; if you have not added more blocks or committed blocks to the blob within that time period, then the blob is garbage collected.

The maximum block blob size currently supported is 200 GB, and up to 50,000 blocks. A blob can have a maximum of 100,000 uncommitted blocks at any given time, and the set of uncommitted blocks cannot exceed 400 GB in total size.

A block that has been successfully uploaded does not become part of a blob until it is committed with a call to **PutBlockList**. Before the block list is committed to create a new blob or update an existing blob, an operation to return the blob's contents does not include the contents of the uncommitted block.

If you upload a block that has the same block ID as another block that has not yet been committed, the last uploaded block with that ID will be committed on the next successful call to **PutBlockList**.

On calling **PutBlockList**, all uncommitted blocks specified in the block list are committed as part of the new blob. Any uncommitted blocks that were not specified in the block list for the blob will be garbage collected and removed from the Blob service. Any uncommitted blocks will also be garbage collected if they are not committed within a week following the last successful block upload.
If another write operation is performed on the blob, any uncommitted blocks will also be garbage collected.

For a given blob, all block IDs must be the same length, but the block contents can be of different size. For a given blob, all block IDs must be the same length. If a block is uploaded with a block ID of a different length than the block IDs for any existing uncommitted blocks, an exception is thrown, with an error code of \texttt{InvalidBlockId}.

Calling \texttt{PutBlock} does not update the last modified time of an existing blob.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
# Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudBlockBlob.PutBlockList(IEnumerable)</code></td>
<td>Uploads a list of blocks to a new or existing blob.</td>
</tr>
<tr>
<td><code>CloudBlockBlob.PutBlockList(IEnumerable, BlobRequestOptions)</code></td>
<td>Uploads a list of blocks to a new or existing blob, using a conditional request based on the <code>BlobRequestOptions</code> specified.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Uploads a list of blocks to a new or existing blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

### Visual Basic

```vbnet
Dim instance As CloudBlockBlob
Dim blockList As IEnumerable(Of String)

instance.PutBlockList(blockList)
```
## Syntax

### Visual Basic

```vbnet
Public Sub PutBlockList (  
    blockList As IEnumerable(Of String)  
)
```

### C#

```csharp
public void PutBlockList (  
    IEnumerable<string> blockList  
)
```

### C++

```cpp
public:  
void PutBlockList (  
    IEnumerable<String^> blockList  
)
```

### J#

```jsharp
```

### JScript

```jscript
```

**Parameters**

`blockList`

Type: System.Collections.Generic.IEnumerable

An enumerable collection of block IDs, as base64-encoded strings.
The following code example writes a set of blocks to a block blob, then commits the blocks to create or update the blob.

```csharp
static void BlockBlobUploadManyBlocks(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the blob.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint,
        new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a block blob.
    CloudBlockBlob blob = blobClient.GetBlockBlobReference("mycontainer/myblockblob");

    //Create a list to hold the block list.
    var blockList = new List<string>();

    byte[] data = new byte[100];
    for (int x = 0; x < 5; x++)
    {
        //Write blocks to the blob.
        using (var stream = new System.IO.MemoryStream(data))
        {
            //Create a block ID. All block ID strings must have same length.
            string blockID = Convert.ToBase64String(Encoding.UTF8.GetBytes(x.ToString()));

            blob.PutBlock(blockID, stream, null);
            blockList.Add(blockID);
        }
    }

    //Commit the block list of blocks we have uploaded.
    blob.PutBlockList(blockList);
}
Remarks

The **PutBlockList** method writes a blob by specifying the list of block IDs that make up the blob. In order to be written as part of a blob, a block must have been successfully written to the service using **PutBlock**.

By calling **PutBlockList**, you can modify an existing blob by inserting, updating, or deleting individual blocks, without uploading the whole blob again. You can specify block IDs from both the current committed block list and the uncommitted block list to create a new blob or update the content of an existing blob. In this way you can update a blob by specifying a few new blocks from the uncommitted block list, and the rest from the committed block list, which are already part of the existing blob.

The maximum number of blocks that may be committed is 50,000, and the maximum size of a blob that may be committed via **PutBlockList** is 200 GB. The maximum number of uncommitted blocks that may be associated with a blob is 100,000, and the maximum size of the uncommitted block list is 400 GB.

When you call **PutBlockList** to update an existing blob, the blob's existing properties and metadata are overwritten. However, any existing snapshots are retained with the blob. You can use include an access condition to perform the operation only if a specified condition is met.

If **PutBlockList** fails due to a missing block, you will need to upload the missing block.

Any uncommitted blocks will be garbage collected if there are no successful calls to upload a block or commit the block list within a week following the last successful block upload. If the blob's contents are modified in some other way, any uncommitted blocks will be garbage collected.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platform

Development Platforms
Change History
See Also

Reference
CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
<table>
<thead>
<tr>
<th>CloudBlockBlob.PutBlockList Method (IEnumerable, BlobRequestOptions)</th>
</tr>
</thead>
</table>

**See Also**  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.]

Uploads a list of blocks to a new or existing blob, using a conditional request based on the **BlobRequestOptions** specified.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim instance As <code>CloudBlockBlob</code></td>
</tr>
<tr>
<td>Dim blockList As <code>IEnumerable(Of String)</code></td>
</tr>
<tr>
<td>Dim options As <code>BlobRequestOptions</code></td>
</tr>
<tr>
<td>instance.PutBlockList(blockList, options)</td>
</tr>
</tbody>
</table>
### Syntax

#### Visual Basic

```vbnet
Public Sub PutBlockList ( _
    blockList As IEnumerable(Of String), _
    options As BlobRequestOptions _
)
```

#### C#

```csharp
public void PutBlockList (    
    IEnumerable<string> blockList,    
    BlobRequestOptions options
)
```

#### C++

```cpp
public:
    void PutBlockList (    
    IEnumerable<String^>^ blockList,    
    BlobRequestOptions^ options
    )
```

#### J#

```jsharp
```

#### JScript

```javascript
```

### Parameters

**blockList**

Type: System.Collections.Generic.IEnumerable

An enumerable collection of block IDs, as base64-encoded strings.
options

Type: Microsoft.WindowsAzure.StorageClient.BlobRequestOptions

An object that specifies any additional options for the request.
Example

The following code example writes a set of blocks to a block blob, then commits the blocks to create or update the blob.

C# static void BlockBlobUploadManyBlocks(Uri blobEndpoint) {
    //Create service client for credentialed access to the service.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a block blob.
    CloudBlockBlob blob = blobClient.GetBlockBlobReference("mycontainer/myblockblob");

    //Create a list to hold the block list.
    var blockList = new List<string>();

    byte[] data = new byte[100];
    for (int x = 0; x < 5; x++)
    {
        //Write blocks to the blob.
        using (var stream = new System.IO.MemoryStream(data))
        {
            //Create a block ID. All block ID strings must have same length.
            string blockID = Convert.ToBase64String(Encoding.UTF8.GetBytes(x.ToString()));

            blob.PutBlock(blockID, stream, null);
            blockList.Add(blockID);
        }
    }

    //Commit the block list of blocks we have uploaded.
    blob.PutBlockList(blockList);
}
Remarks

The **PutBlockList** method writes a blob by specifying the list of block IDs that make up the blob. In order to be written as part of a blob, a block must have been successfully written to the service using **PutBlock**.

By calling **PutBlockList**, you can modify an existing blob by inserting, updating, or deleting individual blocks, without uploading the whole blob again. You can specify block IDs from both the current committed block list and the uncommitted block list to create a new blob or update the content of an existing blob. In this way you can update a blob by specifying a few new blocks from the uncommitted block list, and the rest from the committed block list, which are already part of the existing blob.

The maximum number of blocks that may be committed is 50,000, and the maximum size of a blob that may be committed via **PutBlockList** is 200 GB. The maximum number of uncommitted blocks that may be associated with a blob is 100,000, and the maximum size of the uncommitted block list is 400 GB.

When you call **PutBlockList** to update an existing blob, the blob's existing properties and metadata are overwritten. However, any existing snapshots are retained with the blob. You can use include an access condition to perform the operation only if a specified condition is met.

If **PutBlockList** fails due to a missing block, you will need to upload the missing block.

Any uncommitted blocks will be garbage collected if there are no successful calls to upload a block or commit the block list within a week following the last successful block upload. If the blob's contents are modified in some other way, any uncommitted blocks will be garbage collected.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudBlockBlob Class
CloudBlockBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
CloudBlockBlob Properties

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attributes</td>
<td>Gets the BlobAttributes object that represents the blob's attributes. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>Container</td>
<td>Gets a CloudBlobContainer object representing the blob's container. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>Metadata</td>
<td>Gets the blob's user-defined metadata. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>Name</td>
<td>Gets the name of the blob. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>Parent</td>
<td>Gets the CloudBlobDirectory object representing the virtual parent directory for the blob. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>Properties</td>
<td>Gets the blob's system properties. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>ServiceClient</td>
<td>Gets the CloudBlobClient object that represents the Blob service. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>SnapshotTime</td>
<td>Gets the DateTime value that uniquely identifies the snapshot, if this blob is a snapshot. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>ToBlockBlob</td>
<td>Gets a CloudBlockBlob object based on this blob. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>ToPageBlob</td>
<td>Gets a CloudPageBlob object based on this blob. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>Uri</td>
<td>Gets the URI that identifies the blob. (Inherited from CloudBlob)</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudBlockBlob Class
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.CloudDrive (in Microsoft.WindowsAzure.CloudDrive.dll)
**Usage**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim instance As <strong>CloudDrive</strong></td>
</tr>
</tbody>
</table>
# Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td>Public Class CloudDrive</td>
</tr>
<tr>
<td>C#</td>
<td>public class CloudDrive</td>
</tr>
<tr>
<td>C++</td>
<td>public ref class CloudDrive</td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
Microsoft.WindowsAzure.StorageClient.CloudDrive
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudDrive Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The following tables list the members exposed by the CloudDrive type.
## Public Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CloudDrive</td>
<td></td>
</tr>
</tbody>
</table>

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### Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credentials</td>
<td></td>
</tr>
<tr>
<td>LocalPath</td>
<td></td>
</tr>
<tr>
<td>Uri</td>
<td></td>
</tr>
</tbody>
</table>

[Top](#)
## Public Methods (see also **Protected Methods**)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CopyTo</td>
<td></td>
</tr>
<tr>
<td>Create</td>
<td></td>
</tr>
<tr>
<td>CreateIfNotExist</td>
<td></td>
</tr>
<tr>
<td>Delete</td>
<td></td>
</tr>
<tr>
<td>Equals</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>GetMountedDrives</td>
<td></td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>InitializeCache</td>
<td></td>
</tr>
<tr>
<td>Mount</td>
<td></td>
</tr>
<tr>
<td>Snapshot</td>
<td></td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>Unmount</td>
<td></td>
</tr>
</tbody>
</table>

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## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>

[Top](#)
See Also

Reference
CloudDrive Class
Microsoft.WindowsAzure.StorageClient Namespace
Initializes a new instance of the CloudDrive Class.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.CloudDrive (in Microsoft.WindowsAzure.CloudDrive.dll)
## Usage

**Visual Basic**

Dim `uri` As `Uri`  
Dim `credentials` As `StorageCredentials`  

Dim `instance` As New `CloudDrive`(`uri`, `credentials`)
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Public Sub New ( _
| _ uri As Uri, _
| credentials As StorageCredentials _
| ) |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public CloudDrive (</td>
</tr>
<tr>
<td>_ Uri uri,</td>
</tr>
<tr>
<td>_ StorageCredentials credentials</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| public:
| CloudDrive ( |
| _ Uri uri, |
| _ StorageCredentials credentials |
| ) |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>
Remarks

The default constructor initializes any fields to their default values.
Platforms

Development Platforms
See Also

Reference
CloudDrive Class
CloudDrive Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Methods (see also Protected Methods)

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<tr>
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<td>Delete</td>
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<tr>
<td>Equals</td>
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</tr>
<tr>
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</tr>
<tr>
<td>ToString</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>Unmount</td>
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## Protected Methods

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<th>Description</th>
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</thead>
<tbody>
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<td>(Inherited from Object)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudDrive Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudDrive.CopyTo Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.CloudDrive (in Microsoft.WindowsAzure.CloudDrive.dll)
**Usage**

**Visual Basic**

```visualbasic
Dim instance As CloudDrive
Dim destination As Uri

instance.CopyTo(destination)
```
## Syntax

### Visual Basic

```vbnet
Public Sub CopyTo ( _
    destination As Uri _
)
```

### C#

```csharp
public void CopyTo (  
    Uri destination
)
```

### C++

```cpp
public:
void CopyTo (  
    Uri^ destination
)
```

### J#

```jsharp
```

### JScript

```javascript
```
- **Thread Safety**
  
  Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudDrive Class
CloudDrive Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudDrive.Create Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```visualbasic
Dim instance As CloudDrive
Dim sizeInMB As Integer

instance.Create(sizeInMB)
```
## Syntax

### Visual Basic

```vbnet
Public Sub Create ( _
    sizeInMB As Integer _
)
```

### C#

```csharp
public void Create (  
    int sizeInMB
)
```

### C++

```cpp
public:
void Create (  
    int sizeInMB
)
```

### J#

```jsharp
```

### JScript

```jscript
```
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudDrive Class
CloudDrive Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudDrive.CreateIfNotExist Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Namespace: Microsoft.WindowsAzure.StorageClient
## Usage

### Visual Basic

```vbnet
Dim instance As CloudDrive
Dim sizeInMB As Integer
Dim returnValue As Boolean

returnValue = instance.CreateIfNotExist(sizeInMB)
```
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Function CreateIfNotExist ( _ sizeInMB As Integer _ ) As Boolean</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public bool CreateIfNotExist ( int sizeInMB )</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: bool CreateIfNotExist ( int sizeInMB )</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>


**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudDrive Class
CloudDrive Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudDrive.Delete Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Namespace: Microsoft.WindowsAzure.StorageClient
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim instance As <strong>CloudDrive</strong></td>
</tr>
<tr>
<td>instance.Delete</td>
</tr>
</tbody>
</table>
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Sub Delete</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public void Delete ()</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: void Delete ()</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>

**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
See Also

Reference

CloudDrive Class
CloudDrive Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudDrive.GetMountedDrives Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim returnValue As IDictionary(Of String, Uri)
returnValue = CloudDrive.GetMountedDrives
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td>Public Shared Function GetMountedDrives As IDictionary</td>
</tr>
<tr>
<td>C#</td>
<td>public static IDictionary&lt;string, Uri&gt; GetMountedDrives</td>
</tr>
<tr>
<td>C++</td>
<td>public: static IDictionary&lt;String^, Uri^&gt; GetMountedDrives</td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudDrive Class
CloudDrive Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudDrive.InitializeCache Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim cachePath As String
Dim totalCacheSize As Integer

CloudDrive.InitializeCache(cachePath, totalCacheSize)
```
## Syntax

### Visual Basic

```vbnet
Public Shared Sub InitializeCache (_
    cachePath As String, _
    totalCacheSize As Integer _
)
```

### C#

```csharp
public static void InitializeCache ( _
    string cachePath, _
    int totalCacheSize _
)
```

### C++

```cpp
public:
static void InitializeCache ( _
    String^ cachePath, _
    int totalCacheSize _
)
```

### J#

```
```

### JScript

```
```
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudDrive Class
CloudDrive Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudDrive.Mount Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.CloudDrive (in Microsoft.WindowsAzure.CloudDrive.dll)
Usage

Visual Basic

Dim instance As CloudDrive
Dim cacheSize As Integer
Dim options As DriveMountOptions
Dim returnValue As String

returnValue = instance.Mount(cacheSize, options)
## Syntax

### Visual Basic

```
Public Function Mount (  
    cacheSize As Integer,  
    options As DriveMountOptions  
) As String
```

### C#

```
public string Mount (  
    int cacheSize,  
    DriveMountOptions options  
)
```

### C++

```
public:  
    String^ Mount (  
        int cacheSize,  
        DriveMountOptions options  
    )
```

### J#

```
```

### JScript

```
```
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudDrive Class
CloudDrive Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudDrive.Snapshot Method

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.CloudDrive (in Microsoft.WindowsAzure.CloudDrive.dll)
Usage

Visual Basic

Dim instance As CloudDrive
Dim returnValue As Uri

returnValue = instance.Snapshot
<table>
<thead>
<tr>
<th>Syntax</th>
<th>Visual Basic</th>
<th>C#</th>
<th>C++</th>
<th>J#</th>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Public Function Snapshot As</strong> <strong>Uri</strong></td>
<td><strong>public Uri</strong> <strong>Snapshot ()</strong></td>
<td><strong>public:</strong> <strong>Uri</strong> <strong>^</strong> <strong>Snapshot ()</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudDrive Class
CloudDrive Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.CloudDrive (in Microsoft.WindowsAzure.CloudDrive.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudDrive
instance.Unmount
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Sub Unmount</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public void Unmount()</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: void Unmount()</code></td>
</tr>
<tr>
<td>J#</td>
<td><strong>Incorporated under a J# extension</strong></td>
</tr>
<tr>
<td>JScript</td>
<td><strong>Incorporated under a JScript extension</strong></td>
</tr>
</tbody>
</table>
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudDrive Class
CloudDrive Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudDrive Properties

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credentials</td>
<td></td>
</tr>
<tr>
<td>LocalPath</td>
<td></td>
</tr>
<tr>
<td>Uri</td>
<td></td>
</tr>
</tbody>
</table>
See Also

Reference
CloudDrive Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudDrive.Credentials Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.CloudDrive (in Microsoft.WindowsAzure.CloudDrive.dll)
Usage

Visual Basic

Dim instance As CloudDrive
Dim value As StorageCredentials

value = instance.Credentials
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property Credentials As StorageCredentials</code></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td><code>public StorageCredentials Credentials { get; }</code></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><code>public: property StorageCredentials^ Credentials { StorageCredentials^ get (); }</code></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
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</tbody>
</table>
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudDrive Class
CloudDrive Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudDrive.LocalPath Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudDrive
Dim value As String

value = instance.LocalPath
```
<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Property LocalPath As <strong>String</strong></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public <strong>string</strong> LocalPath { get; }</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public: property <strong>String</strong>&amp; LocalPath { <strong>String</strong>&amp; get (); }</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
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</tbody>
</table>
- **Thread Safety**

  Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudDrive Class
CloudDrive Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.CloudDrive (in Microsoft.WindowsAzure.CloudDrive.dll)
Usage

**Visual Basic**

```vbnet
Dim instance As CloudDrive
Dim value As Uri

value = instance.Uri
```
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
<th>C#</th>
<th>C++</th>
<th>J#</th>
</tr>
</thead>
</table>
| Public Property Uri As **Uri** | public **Uri** Uri { get; } | public:
|                  |                  | property **Uri** Uri { |                  |
|                  |                  | Uri get();        |                  |
|                  |                  |                   |                  |
|                  |                  |                   |                  |
|                  |                  |                   |                  |
|                  |                  |                   |                  |
|                  |                  |                   |                  |
|                  |                  |                   |                  |
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudDrive Class
CloudDrive Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudDriveException Class

See Also  Members

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Namespace: Microsoft.WindowsAzure.StorageClient
<table>
<thead>
<tr>
<th>Usage</th>
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<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>

| Dim instance As CloudDriveException |
## Syntax

### Visual Basic

```vbnet
<SerializableAttribute> _
Public Class CloudDriveException
    Inherits Exception
```

### C#

```csharp
[SerializableAttribute]
public class CloudDriveException : Exception
```

### C++

```cpp
[SerializableAttribute]
public ref class CloudDriveException : public Exception
```

### J#

```
```

### JScript

```
```
Inheritance Hierarchy

System.Object
  System.Exception
    Microsoft.WindowsAzure.StorageClient.CloudDriveException
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudDriveException Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudDriveException Members

See Also  Methods  Properties  Constructors  Events

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The following tables list the members exposed by the CloudDriveException type.
## Protected Constructors

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<th>Description</th>
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<tbody>
<tr>
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</tbody>
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### Public Properties (see also Protected Properties)

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<th>Description</th>
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</thead>
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</tr>
<tr>
<td>HelpLink</td>
<td>(Inherited from Exception)</td>
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<tr>
<td>InnerException</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>Message</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>Source</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>StackTrace</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>TargetSite</td>
<td>(Inherited from Exception)</td>
</tr>
</tbody>
</table>
## Protected Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HResult</td>
<td>(Inherited from Exception)</td>
</tr>
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[Top](#)
### Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
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</thead>
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</tr>
<tr>
<td>GetBaseException</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHResult</td>
<td></td>
</tr>
<tr>
<td>GetObjectData</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>ToString</td>
<td>Overridden. (Inherited from Object)</td>
</tr>
</tbody>
</table>
## Protected Methods

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<th>Description</th>
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</thead>
<tbody>
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<td>(Inherited from Object)</td>
</tr>
<tr>
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<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
## Protected Events

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<th>Name</th>
<th>Description</th>
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<tr>
<td>SerializeObjectState</td>
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[Top]
See Also

Reference
CloudDriveException Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudDriveException Constructor

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudDriveException Class. Initializes a new instance of the CloudDriveException Class.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.CloudDrive (in Microsoft.WindowsAzure.CloudDrive.dll)
**Usage**

**Visual Basic**

```vbnet
Dim info As SerializationInfo
Dim context As StreamingContext

Dim instance As New CloudDriveException(info, context)
```
### Syntax

#### Visual Basic

```vbnet
Protected Sub New ( _
    info As SerializationInfo, _
    context As StreamingContext _
)
```

#### C#

```csharp
protected CloudDriveException ( 
    SerializationInfo info,
    StreamingContext context
)
```

#### C++

```cpp
protected:
CloudDriveException ( 
    SerializationInfo^ info,
    StreamingContext context
)
```

#### J#

```js
```

#### JScript

```js
```
Remarks

The default constructor initializes any fields to their default values.
Platforms

Development Platforms
See Also

Reference
CloudDriveException Class
CloudDriveException Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetBaseException</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHResult</td>
<td></td>
</tr>
<tr>
<td>GetObjectData</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>ToString</td>
<td>Overridden. (Inherited from Object)</td>
</tr>
</tbody>
</table>
### Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
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<td>(Inherited from Object)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudDriveException Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudDriveException.GetHResult Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

**Visual Basic**

```vbnet
Dim instance As CloudDriveException
Dim returnValue As Integer

returnValue = instance.GetHRResult
```
### Syntax

**Visual Basic**

Public Function GetHResult As **Integer**

---

**C#**

public **int** GetHResult ()

---

**C++**

public:  
**int** GetHResult ()

---

**J#**

---

**JScript**

---
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudDriveException Class
CloudDriveException Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudDriveException Properties

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
**Public Properties (see also Protected Properties)**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>HelpLink</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>InnerException</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>Message</td>
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</tr>
<tr>
<td>Source</td>
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<td>StackTrace</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>TargetSite</td>
<td>(Inherited from Exception)</td>
</tr>
</tbody>
</table>
### Protected Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRESULT</td>
<td>(Inherited from Exception)</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudDriveException Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudDriveException Events

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Protected Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![lock] SerializeObjectState</td>
<td>(Inherited from Exception)</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudDriveException Class
Microsoft.WindowsAzure.StorageClient Namespace
Represents a blob made up of a collection of pages.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbscript
Dim instance As CloudPageBlob
```
### Syntax

<table>
<thead>
<tr>
<th></th>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| | Public Class CloudPageBlob  
| | Inherits **CloudBlob** |
| | C# |
| | public class CloudPageBlob : **CloudBlob** |
| | C++ |
| | public ref class CloudPageBlob : public **CloudBlob** |
| | J# |
| | JScript |
Inheritance Hierarchy

System.Object
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
See Also

Reference
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
CloudPageBlob Members

See Also  Constructors  Methods  Properties

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a blob made up of a collection of pages.

The following tables list the members exposed by the CloudPageBlob type.
### Public Constructors

<table>
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<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CloudPageBlob</td>
<td>Overloaded.</td>
</tr>
</tbody>
</table>

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## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Attributes</strong></td>
<td>Gets the <a href="#">BlobAttributes</a> object that represents the blob's attributes. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td><strong>Container</strong></td>
<td>Gets a <a href="#">CloudBlobContainer</a> object representing the blob's container. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td><strong>Metadata</strong></td>
<td>Gets the blob's user-defined metadata. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td><strong>Name</strong></td>
<td>Gets the name of the blob. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td><strong>Parent</strong></td>
<td>Gets the <a href="#">CloudBlobDirectory</a> object representing the virtual parent directory for the blob. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td><strong>Properties</strong></td>
<td>Gets the blob's system properties. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td><strong>ServiceClient</strong></td>
<td>Gets the <a href="#">CloudBlobClient</a> object that represents the Blob service. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td><strong>SnapshotTime</strong></td>
<td>Gets the <a href="#">DateTime</a> value that uniquely identifies the snapshot, if this blob is a snapshot. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td><strong>ToBlockBlob</strong></td>
<td>Gets a <a href="#">CloudBlockBlob</a> object based on this blob. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td><strong>ToPageBlob</strong></td>
<td>Gets a <a href="#">CloudPageBlob</a> object based on this blob. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td><strong>Uri</strong></td>
<td>Gets the URI that identifies the blob. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
</tbody>
</table>
### Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BeginClearPages</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>BeginCopyFromBlob</td>
<td>Overloaded. Begins an asynchronous operation to copy another blob's contents, properties, and metadata to the blob referenced by this <a href="#">CloudBlob</a> object. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td>BeginCreate</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>BeginCreateSnapshot</td>
<td>Overloaded. Begins an asynchronous operation to create a snapshot of the blob. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td>BeginDelete</td>
<td>Overloaded. Begins an asynchronous operation to delete the blob. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td>BeginDeleteIfExists</td>
<td>Overloaded. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td>BeginDownloadToStream</td>
<td>Overloaded. Begins an asynchronous operation to download the contents of a blob to a stream. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td>BeginFetchAttributes</td>
<td>Overloaded. Begins an asynchronous operation to populate the blob's properties and metadata. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td>BeginGetPageRanges</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>BeginSetMetadata</td>
<td>Overloaded. Begins an asynchronous operation to update the blob's metadata. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td>BeginSetProperties</td>
<td>Overloaded. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td>BeginUploadFromStream</td>
<td>Overloaded. Overridden.</td>
</tr>
<tr>
<td>BeginWritePages</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>ClearPages</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>CopyFromBlob</td>
<td>Overloaded. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td>Create</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>CreateSnapshot</td>
<td>Overloaded. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Delete</td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>DeleteIfExists</td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>DownloadByteArray</td>
<td>Overloaded. Downloads the blob's contents as an array of bytes. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>DownloadText</td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>DownloadToFile</td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>DownloadToStream</td>
<td>Overloaded. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>EndClearPages</td>
<td>Ends an asynchronous operation to clear pages from a page blob.</td>
</tr>
<tr>
<td>EndCopyFromBlob</td>
<td>Ends an asynchronous operation to copy a blob's contents, properties, and metadata to a new blob. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>EndCreate</td>
<td>Ends an asynchronous operation to create a page blob.</td>
</tr>
<tr>
<td>EndCreateSnapshot</td>
<td>Ends an asynchronous operation to create a snapshot of the blob. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>EndDelete</td>
<td>Ends an asynchronous operation to delete the blob. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>EndDeleteIfExists</td>
<td>Ends an asynchronous operation to delete the blob if it exists. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>EndDownloadToStream</td>
<td>Ends an asynchronous operation to download the contents of a blob to a stream. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>EndFetchAttributes</td>
<td>Ends an asynchronous operation to populate the blob's properties and metadata. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>EndGetPageRanges</td>
<td>Ends an asynchronous operation to return a collection of page ranges and their starting and ending bytes.</td>
</tr>
<tr>
<td>EndSetMetadata</td>
<td>Ends an asynchronous operation to update the blob's metadata. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td>EndSetProperties</td>
<td>Ends an asynchronous operation to update the blob's properties. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td></td>
<td>Overridden. Ends an asynchronous operation</td>
</tr>
</tbody>
</table>
- **EndUploadFromStream**
  to upload a blob from a stream.

- **EndWritePages**
  Ends an asynchronous operation to write pages to a page blob.

- **Equals**
  (Inherited from **Object**)

- **FetchAttributes**
  Overloaded. (Inherited from **CloudBlob**)

- **GetHashCode**
  (Inherited from **Object**)

- **GetPageRanges**
  Overloaded.

- **GetSharedAccessSignature**
  Overloaded. (Inherited from **CloudBlob**)

- **GetType**
  (Inherited from **Object**)

- **OpenRead**
  Overloaded. (Inherited from **CloudBlob**)

- **OpenWrite**
  Overloaded. Overridden.

- **SetMetadata**
  Overloaded. (Inherited from **CloudBlob**)

- **SetProperties**
  Overloaded. (Inherited from **CloudBlob**)

- **ToString**
  (Inherited from **Object**)

- **UploadByteArray**
  Overloaded. Overridden.

- **UploadFile**
  Overloaded. Overridden.

- **UploadFromStream**
  Overloaded. Overridden.

- **UploadText**
  Overloaded. Overridden.

- **WritePages**
  Overloaded.
## Protected Methods

<table>
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<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✧ Finalize</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>✧ MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>✧ ParseSizeAndLastModified</td>
<td>Parses values from a Blob service response. This method is protected. (Inherited from <strong>CloudBlob</strong>)</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudPageBlob Class
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
CloudPageBlob Constructor

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Overload List

<table>
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<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CloudPageBlob (CloudBlob)</td>
<td>Initializes a new instance of the CloudPageBlob class based on an existing CloudBlob object.</td>
</tr>
<tr>
<td>CloudPageBlob (String)</td>
<td>Initializes a new instance of the CloudPageBlob class using an absolute URI to the blob.</td>
</tr>
<tr>
<td>CloudPageBlob (String, CloudBlobClient)</td>
<td>Initializes a new instance of the CloudPageBlob class using a relative URI to the blob.</td>
</tr>
<tr>
<td>CloudPageBlob (String, StorageCredentials)</td>
<td>Initializes a new instance of the CloudPageBlob class using an absolute URI to the blob, and the storage account credentials.</td>
</tr>
<tr>
<td>CloudPageBlob (String, Nullable, CloudBlobClient)</td>
<td>Initializes a new instance of the CloudPageBlob class using a relative URI to the blob, or to the snapshot if the blob is a snapshot.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
### CloudPageBlob Constructor (CloudBlob)

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the [CloudPageBlob](#) class based on an existing [CloudBlob](#) object.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim cloudBlob As CloudBlob

Dim instance As New CloudPageBlob(cloudBlob)
### Syntax

#### Visual Basic

```vbnet
Public Sub New ( _
    cloudBlob As CloudBlob _
)
```

#### C#

```csharp
public CloudPageBlob (  
    CloudBlob cloudBlob
)
```

#### C++

```cpp
public:
CloudPageBlob (  
    CloudBlob^ cloudBlob
)
```

#### J#

```jscript
```

#### JScript

```jscript
```

### Parameters

- **cloudBlob**

  An object of type **CloudBlob**.
Platforms

Development Platforms
See Also

Reference

CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
**CloudPageBlob Constructor (String)**

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudPageBlob class using an absolute URI to the blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim blobAddress As String

Dim instance As New CloudPageBlob(blobAddress)
### Parameters

*blobAddress*

  Type: **System.String**

  The absolute URI to the blob.
Platforms

Development Platforms
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudPageBlob Constructor (String, CloudBlobClient)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudPageBlob class using a relative URI to the blob.

Namespace: Microsoft.WindowsAzure.StorageClient
## Usage

**Visual Basic**

```vbnet
Dim blobAddress As String
Dim serviceClient As CloudBlobClient

Dim instance As New CloudPageBlob(blobAddress, serviceClient)
```
## Syntax

### Visual Basic

```vbnet
Public Sub New (_
    blobAddress As String, _
    serviceClient As CloudBlobClient _
)
```

### C#

```csharp
public CloudPageBlob (  
    string blobAddress,  
    CloudBlobClient serviceClient
)
```

### C++

```cpp
public:
CloudPageBlob (  
    String^ blobAddress,  
    CloudBlobClient^ serviceClient
)
```

### J#

```
```

### JScript

```
```

## Parameters

**blobAddress**

Type: `System.String`

The relative URI to the blob, beginning with the container name.
**serviceClient**


A client object that specifies the endpoint for the Blob service.
Platforms

Development Platforms
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudPageBlob class using an absolute URI to the blob, and the storage account credentials.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Visual Basic

Dim blobAddress As String
Dim credentials As StorageCredentials

Dim instance As New CloudPageBlob(blobAddress, credentials)
### Syntax

#### Visual Basic

```vbnet
Public Sub New ( _
    blobAddress As String, _
    credentials As StorageCredentials _
)
```

#### C#

```csharp
public CloudPageBlob ( 
    string blobAddress, 
    StorageCredentials credentials
)
```

#### C++

```cpp
public:
CloudPageBlob ( 
    String^ blobAddress, 
    StorageCredentials^ credentials
)
```

#### J#

```
```

#### JScript

```
```

### Parameters

- **blobAddress**
  - Type: `System.String`

  The absolute URI to the blob.
credentials
Type: Microsoft.WindowsAzure.StorageCredentials

The account credentials.
Platforms

Development Platforms
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudPageBlob Constructor (String, Nullable, CloudBlobClient)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudPageBlob class using a relative URI to the blob, or to the snapshot if the blob is a snapshot.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

Dim blobAddress As **String**
Dim snapshotTime As Nullable(Of DateTime)
Dim serviceClient As **CloudBlobClient**

Dim instance As New **CloudPageBlob**(blobAddress, snapshotTime)
### Syntax

#### Visual Basic

```vbnet
Public Sub New ( _
    blobAddress As String, _
    snapshotTime As Nullable(Of DateTime), _
    serviceClient As CloudBlobClient _
)
```

#### C#

```csharp
public CloudPageBlob ( 
    string blobAddress, 
    Nullable<DateTime> snapshotTime, 
    CloudBlobClient serviceClient 
)
```

#### C++

```cpp
public:
CloudPageBlob ( 
    String^ blobAddress, 
    Nullable<DateTime> snapshotTime, 
    CloudBlobClient^ serviceClient 
)
```

#### J#

```jsharp
```

#### JScript

```jscript
```

### Parameters

- **blobAddress**
Type: **System.String**

The relative URI to the blob, beginning with the container name.

**snapshotTime**
Type: **System.Nullable**

The snapshot timestamp, if the blob is a snapshot.

**serviceClient**
Type: **Microsoft.WindowsAzure.StorageClient.CloudBlobClient**

A client object that specifies the endpoint for the Blob service.
Platforms

Development Platforms
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudPageBlob Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods

(see also **Protected Methods**)

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<td>Overloaded.</td>
</tr>
<tr>
<td><img src="image" alt="BeginCopyFromBlob" /></td>
<td>Overloaded. Begins an asynchronous operation to copy another blob's contents, properties, and metadata to the blob referenced by this CloudBlob object. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><img src="image" alt="BeginCreate" /></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><img src="image" alt="BeginCreateSnapshot" /></td>
<td>Overloaded. Begins an asynchronous operation to create a snapshot of the blob. (Inherited from CloudBlob)</td>
</tr>
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<td><img src="image" alt="BeginDelete" /></td>
<td>Overloaded. Begins an asynchronous operation to delete the blob. (Inherited from CloudBlob)</td>
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<tr>
<td><img src="image" alt="BeginDeleteIfExists" /></td>
<td>Overloaded. (Inherited from CloudBlob)</td>
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<tr>
<td><img src="image" alt="BeginDownloadToStream" /></td>
<td>Overloaded. Begins an asynchronous operation to download the contents of a blob to a stream. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><img src="image" alt="BeginFetchAttributes" /></td>
<td>Overloaded. Begins an asynchronous operation to populate the blob's properties and metadata. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><img src="image" alt="BeginGetPageRanges" /></td>
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</tr>
<tr>
<td><img src="image" alt="BeginSetMetadata" /></td>
<td>Overloaded. Begins an asynchronous operation to update the blob's metadata. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><img src="image" alt="BeginSetProperties" /></td>
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</tr>
<tr>
<td><strong>DownloadByteArray</strong></td>
<td>Downloads the blob's contents as an array of bytes. (Inherited from <a href="#">CloudBlob</a>)</td>
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<td>Overloaded. (Inherited from <a href="#">CloudBlob</a>)</td>
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<tr>
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<td>Overloaded. (Inherited from <a href="#">CloudBlob</a>)</td>
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<tr>
<td><strong>DownloadToStream</strong></td>
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<tr>
<td><strong>EndClearPages</strong></td>
<td>Ends an asynchronous operation to clear pages from a page blob.</td>
</tr>
<tr>
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<td><strong>EndCreate</strong></td>
<td>Ends an asynchronous operation to create a page blob.</td>
</tr>
<tr>
<td><strong>EndCreateSnapshot</strong></td>
<td>Ends an asynchronous operation to create a snapshot of the blob. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td><strong>EndDelete</strong></td>
<td>Ends an asynchronous operation to delete the blob. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td><strong>EndDeleteIfExists</strong></td>
<td>Ends an asynchronous operation to delete the blob if it exists. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td><strong>EndDownloadToStream</strong></td>
<td>Ends an asynchronous operation to download the contents of a blob to a stream. (Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td><strong>EndWritePages</strong></td>
<td>Ends an asynchronous operation to populate</td>
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<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
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<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>EndFetchAttributes</strong></td>
<td>Fetch the blob's properties and metadata. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>EndGetPageRanges</strong></td>
<td>Ends an asynchronous operation to return a collection of page ranges and their starting and ending bytes.</td>
</tr>
<tr>
<td><strong>EndSetMetadata</strong></td>
<td>Ends an asynchronous operation to update the blob's metadata. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>EndSetProperties</strong></td>
<td>Ends an asynchronous operation to update the blob's properties. (Inherited from CloudBlob)</td>
</tr>
<tr>
<td><strong>EndUploadFromStream</strong></td>
<td>Overridden. Ends an asynchronous operation to upload a blob from a stream.</td>
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<td><strong>UploadFile</strong></td>
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<td><strong>UploadFromStream</strong></td>
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## Protected Methods

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<td>Parses values from a Blob service response. This method is protected.</td>
</tr>
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<td></td>
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See Also

Reference
CloudPageBlob Class
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>CloudPageBlob.BeginClearPages(Int64, Int64, BlobRequestOptions, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to clear pages from a page blob, using a conditional request based on the BlobRequestOptions specified.</td>
</tr>
<tr>
<td>CloudPageBlob.BeginClearPages(Int64, Int64, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to clear pages from a page blob.</td>
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</table>
See Also

Reference

CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudPageBlob.BeginClearPages Method (Int64, Int64, BlobRequestOptions, AsyncCallback, Object)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to clear pages from a page blob, using a conditional request based on the BlobRequestOptions specified.

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

**Visual Basic**

```vbnet
Dim instance As CloudPageBlob
Dim startOffset As Long
Dim length As Long
Dim options As BlobRequestOptions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginClearPages(startOffset, :}
```
## Syntax

### Visual Basic

```vbnet
Public Function BeginClearPages ( _
    startOffset As Long, _
    length As Long, _
    options As BlobRequestOptions, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginClearPages (  
    long startOffset,
    long length,
    BlobRequestOptions options,
    AsyncCallback callback,
    Object state
)
```

### C++

```cpp
public:  
IAasyncResult^ BeginClearPages (  
    long long startOffset,
    long long length,
    BlobRequestOptions^ options,
    AsyncCallback^ callback,
    Object^ state
)
```

### J#
### Parameters

**startOffset**
- Type: `System.Int64`
  - The offset at which to begin clearing pages, in bytes. The offset must be a multiple of 512.

**length**
- Type: `System.Int64`
  - The length of the data range to be cleared, in bytes. The length must be a multiple of 512.

**options**
- Type: `Microsoft.WindowsAzure.StorageClient.BlobRequestOptions`
  - An object that specifies any additional options for the request.

**callback**
- Type: `System.AsyncCallback`
  - The callback delegate that will receive notification when the asynchronous operation completes.

**state**
- Type: `System.Object`
  - A user-defined object that will be passed to the callback delegate.

### Return Value

**Type:** `System.IAsyncResult`

An `IAsyncResult` that references the asynchronous operation.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to clear pages from a page blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

### Visual Basic

```vbnet
Dim instance As CloudPageBlob
Dim startOffset As Long
Dim length As Long
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginClearPages(startOffset, :
```

```vbnet
```
## Syntax

### Visual Basic

```vbnet
Public Function BeginClearPages ( _
    startOffset As Long, _
    length As Long, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginClearPages (long startOffset,
                    long length,
                    AsyncCallback callback,
                    Object state)
```

### C++

```cpp
public:
IAasyncResult^ BeginClearPages (long startOffset,
                    long length,
                    AsyncCallback^ callback,
                    Object^ state)
```

### J#

```jsharp```

### JScript

```jscript```
Parameters

startOffset
Type: System.Int64

The offset at which to begin clearing pages, in bytes. The offset must be a multiple of 512.

length
Type: System.Int64

The length of the data range to be cleared, in bytes. The length must be a multiple of 512.

callback
Type: System.AsyncCallback

The callback delegate that will receive notification when the asynchronous operation completes.

state
Type: System.Object

A user-defined object that will be passed to the callback delegate.

Return Value

Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
## See Also

**Reference**

CloudPageBlob Class  
CloudPageBlob Members  
Microsoft.WindowsAzure.StorageClient Namespace
CloudPageBlob.BeginCreate Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Overload List

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<td><code>CloudPageBlob.BeginCreate(Int64, BlobRequestOptions, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to create a page blob, using a conditional request based on the BlobRequestOptions specified.</td>
</tr>
<tr>
<td><code>CloudPageBlob.BeginCreate(Int64, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to create a page blob.</td>
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</table>
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
Begins an asynchronous operation to create a page blob, using a conditional request based on the `BlobRequestOptions` specified.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

### Visual Basic

```vbnet
Dim instance As CloudPageBlob
Dim size As Long
Dim options As BlobRequestOptions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginCreate(size, options, callback)
```
## Syntax

### Visual Basic

Public Function BeginCreate ( _
    size As Long, _
    options As BlobRequestOptions, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult

### C#

public IAsyncResult BeginCreate (  
    long size,
    BlobRequestOptions options,
    AsyncCallback callback,
    Object state
)

### C++

public:
IAsyncResult^ BeginCreate (  
    long long size,
    BlobRequestOptions^ options,
    AsyncCallback^ callback,
    Object^ state
)

### J#

### JScript
Parameters

**size**
Type: System.Int64

The maximum size of the blob, in bytes. This value must be a multiple of 512.

**options**
Type: Microsoft.WindowsAzure.StorageClient.BlobRequestOptions

An object that specifies any additional options for the request.

**callback**
Type: System.AsyncCallback

The callback delegate that will receive notification when the asynchronous operation completes.

**state**
Type: System.Object

A user-defined object that will be passed to the callback delegate.

Return Value

Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
Remarks

To create a page blob, call **BeginCreate**, specifying the maximum size of the page blob in bytes. A page blob may be up to 1 TB in size.
Thread Safety

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to create a page blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As CloudPageBlob
Dim size As Long
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginCreate(size, callback, state)
```
### Syntax

#### Visual Basic

Public Function BeginCreate ( _
    size As Long, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult

#### C#

public IAsyncResult BeginCreate (  
    long size,  
    AsyncCallback callback,  
    Object state
)

#### C++

public:  
IAsyncResult^ BeginCreate (  
    long long size,  
    AsyncCallback^ callback,  
    Object^ state
)

#### J#

#### JScript
Type: `System.Int64`

The maximum size of the blob, in bytes. This value must be a multiple of 512.

**callback**
Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.

**state**
Type: `System.Object`

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the asynchronous operation.
Remarks

To create a page blob, call **BeginCreate**, specifying the maximum size of the page blob in bytes. A page blob may be up to 1 TB in size.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudPageBlob.BeginGetPageRanges Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudPageBlob.BeginGetPageRanges</code> <strong>(BlobRequestOptions, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to return a collection of page ranges and their starting and ending bytes, using a conditional request based on the <code>BlobRequestOptions</code> specified.</td>
</tr>
</tbody>
</table>
See Also

Reference

CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudPageBlob.BeginGetPageRanges Method (BlobRequestOptions, AsyncCallback, Object)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to return a collection of page ranges and their starting and ending bytes, using a conditional request based on the BlobRequestOptions specified.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudPageBlob
Dim options As BlobRequestOptions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginGetPageRanges(options, callback)
```
Syntax

Visual Basic

Public Function BeginGetPageRanges ( _
    options As BlobRequestOptions, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult

C#

public IAsyncResult BeginGetPageRanges ( 
    BlobRequestOptions options, 
    AsyncCallback callback, 
    Object state
)

C++

public: 
    IAsyncResult^ BeginGetPageRanges ( 
        BlobRequestOptions^ options, 
        AsyncCallback^ callback, 
        Object^ state
    )

J#

JScript

Parameters

options
Type: `Microsoft.WindowsAzure.StorageClient.BlobRequestOptions`

An object that specifies any additional options for the request.

**callback**

Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.

**state**

Type: `System.Object`

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the asynchronous operation.
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to return a collection of page ranges and their starting and ending bytes.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudPageBlob
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginGetPageRanges(callback, state)
```
## Syntax

### Visual Basic

```vbnet
Public Function BeginGetPageRanges ( _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginGetPageRanges (  
    AsyncCallback callback,  
    Object state
)
```

### C++

```cpp
public:
IAasyncResult ^ BeginGetPageRanges (  
    AsyncCallback ^ callback,  
    Object ^ state
)
```

### J#

```csharp
```

### JScript

```csharp
```

### Parameters

**callback**

Type: [System.AsyncCallback](https://docs.microsoft.com/en-us/dotnet/api/system.asynccallback)

The callback delegate that will receive notification when the asynchronous operation completes.
**state**

Type: **System.Object**

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: **System.IAsyncResult**

An **IAsyncResult** that references the asynchronous operation.
Thread Safety

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
**CloudPageBlob.BeginUploadFromStream Method**

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.]
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<tr>
<td><strong>CloudPageBlob.BeginUploadFromStream (Stream, AsyncCallback, Object)</strong></td>
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See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudPageBlob.BeginUploadFromStream Method (Stream, BlobRequestOptions, AsyncCallback, Object)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to upload a blob from a stream, using a conditional request based on the BlobRequestOptions specified.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

### Visual Basic

Dim instance As CloudPageBlob
Dim source As Stream
Dim options As BlobRequestOptions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginUploadFromStream(source,
### Syntax

#### Visual Basic

```vbnet
Public Overrides Function BeginUploadFromStream ( _
    source As Stream, _
    options As BlobRequestOptions, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

#### C#

```csharp
public override IAsyncResult BeginUploadFromStream ( _
    Stream source, _
    BlobRequestOptions options, _
    AsyncCallback callback, _
    Object state _
)
```

#### C++

```cpp
public:
virtual IAsyncResult^ BeginUploadFromStream ( _
    Stream^ source, _
    BlobRequestOptions^ options, _
    AsyncCallback^ callback, _
    Object^ state _
) override
```

#### J#

#### JScript
**Parameters**

*source*
Type: `System.IO.Stream`

The data stream to upload.

*options*
Type: `Microsoft.WindowsAzure.StorageClient.BlobRequestOptions`

An object that specifies any additional options for the request.

*callback*
Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.

*state*
Type: `System.Object`

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the asynchronous operation.
## Exceptions

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<td>This operation is not supported on objects of type CloudPageBlob.</td>
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</table>
Remarks

For optimum performance, the stream should support a length.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
Begins an asynchronous operation to upload a blob from a stream.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

### Visual Basic

```vbnet
Dim instance As CloudPageBlob
Dim source As Stream
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginUploadFromStream(source,
```
```
## Syntax

### Visual Basic

```vbnet
Public Overrides Function BeginUploadFromStream ( _
    source As Stream, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```csharp
public override IAsyncResult BeginUploadFromStream ( 
    Stream source, 
    AsyncCallback callback, 
    Object state 
)
```

### C++

```cpp
public:
    virtual IAsyncResult^ BeginUploadFromStream ( 
        Stream^ source, 
        AsyncCallback^ callback, 
        Object^ state 
    ) override
```

### J#

```java

```

### JScript

```javascript

```

### Parameters

- **source**
Type: System.IO.Stream

The data stream to upload.

callback
Type: System.AsyncCallback

The callback delegate that will receive notification when the asynchronous operation completes.

state
Type: System.Object

A user-defined object that will be passed to the callback delegate.

Return Value
Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
## Exceptions

<table>
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</tr>
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</table>
Remarks

For optimum performance, the stream should support a length.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
**CloudPageBlob.BeginWritePages Method**

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<td>Begins an asynchronous operation to write pages to a page blob, using a conditional request based on the BlobRequestOptions specified.</td>
</tr>
<tr>
<td>CloudPageBlob.BeginWritePages (Stream, Int64, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to write pages to a page blob.</td>
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</table>
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
**CloudPageBlob.BeginWritePages Method** (Stream, Int64, BlobRequestOptions, AsyncCallback, Object)

### See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.]

Begins an asynchronous operation to write pages to a page blob, using a conditional request based on the **BlobRequestOptions** specified.

**Namespace**: Microsoft.WindowsAzure.StorageClient  
### Usage

**Visual Basic**

```
Dim instance As CloudPageBlob
Dim pageData As Stream
Dim startOffset As Long
Dim options As BlobRequestOptions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginWritePages(pageData, startOffset, options, state, callback)
```
## Syntax

### Visual Basic

```vbnet
Public Function BeginWritePages ( _
    pageData As Stream, _
    startOffset As Long, _
    options As BlobRequestOptions, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginWritePages ( 
    Stream pageData,
    long startOffset,
    BlobRequestOptions options,
    AsyncCallback callback,
    Object state
)
```

### C++

```cpp
public:
    IAsyncResult^ BeginWritePages ( 
        Stream^ pageData,
        long long startOffset,
        BlobRequestOptions^ options,
        AsyncCallback^ callback,
        Object^ state
    )
```

### J#

```jsharp
```
**Parameters**

`pageData`
Type: `System.IO.Stream`

A stream providing the page data.

`startOffset`
Type: `System.Int64`

The offset at which to begin writing, in bytes. The offset must be a multiple of 512.

`options`
Type: `Microsoft.WindowsAzure.StorageClient.BlobRequestOptions`

An object that specifies any additional options for the request.

`callback`
Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.

`state`
Type: `System.Object`

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the asynchronous operation.
Thread Safety

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudPageBlob.BeginWritePages Method (Stream, Int64, AsyncCallback, Object)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to write pages to a page blob.

Namespace: Microsoft.WindowsAzure.StorageClient
<table>
<thead>
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<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
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</tbody>
</table>
| Dim instance As [CloudPageBlob](#)  
Dim pageData As [Stream](#)  
Dim startOffset As [Long](#)  
Dim callback As [AsyncCallback](#)  
Dim state As [Object](#)  
Dim returnValue As [IAsyncResult](#)  |

returnValue = instance.BeginWritePages(pageData, startOffset)
### Syntax

#### Visual Basic

```
Public Function BeginWritePages ( _
    pageData As Stream, _
    startOffset As Long, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

#### C#

```
public IAsyncResult BeginWritePages (*
    Stream pageData,
    long startOffset,
    AsyncCallback callback,
    Object state
)
```

#### C++

```
public:*
    IAsyncResult^ BeginWritePages (*
    Stream^ pageData,
    long long startOffset,
    AsyncCallback^ callback,
    Object^ state
    )
```

#### J#

```
```

#### JScript

```
```
**Parameters**

*pageData*

Type: `System.IO.Stream`

A stream providing the page data.

*startOffset*

Type: `System.Int64`

The offset at which to begin writing, in bytes. The offset must be a multiple of 512.

*callback*

Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.

*state*

Type: `System.Object`

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the asynchronous operation.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudPageBlob.ClearPages Method

See Also

This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.
## Overload List

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<td>Clears pages from a page blob.</td>
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<tr>
<td>CloudPageBlob.ClearPages (Int64, Int64, BlobRequestOptions)</td>
<td>Clears pages from a page blob, using a conditional request based on the BlobRequestOptions specified.</td>
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</table>
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
Clears pages from a page blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
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<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>
| Dim instance As **CloudPageBlob**  
Dim startOffset As **Long**  
Dim length As **Long** |
| instance.ClearPages(startOffset, length) |
## Syntax

### Visual Basic

```vbnet
Public Sub ClearPages ( _
    startOffset As Long, _
    length As Long _
)
```

### C#

```csharp
public void ClearPages ( _
    long startOffset, _
    long length _
)
```

### C++

```cpp
public:
void ClearPages ( _
    long startOffset, _
    long length _
)
```

### J#

```jsharp
```

### JScript

```jscript
```

## Parameters

- **startOffset**
  - Type: `System.Int64`

  The offset at which to begin clearing pages, in bytes. The offset must be a multiple of 512.
**length**

Type: `System.Int64`

The length of the data range to be cleared, in bytes. The length must be a multiple of 512.
Example

The following code example creates a page blob, writes some pages to it, clears a page, and prints out the page ranges to the console.

```csharp
static void WriteToPageBlob(Uri blobEndpoint, string accountName, string accountKey) {
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //create container if it does not exist
    CloudBlobContainer cloudContainer = blobClient.GetContainerReference("mypageblobs");
    cloudContainer.CreateIfNotExist();

    //Get a reference to the page blob that will be created.
    CloudPageBlob pageBlob = cloudContainer.GetPageBlobReference("apageblob");

    //Generate some data to write.
    byte[] data = new byte[1024];
    Random rnd = new Random();
    rnd.NextBytes(data);

    //Create a 100 MB page blob.
    pageBlob.Create(100 * 1024 * 1024);

    //Write two sets of pages. Note that you can write 4 MB per call to WritePages().
    pageBlob.WritePages(new MemoryStream(data), 0);
    pageBlob.WritePages(new MemoryStream(data), 4096);

    //Populate the page blob's attributes.
    pageBlob.FetchAttributes();
    Console.WriteLine("Blob length = {0}", pageBlob.Properties.Length);

    //Print out the current range of pages.
```
PrintPageRanges("Before write to 10240:", pageBlob);

//Write another page.
pageBlob.WritePages(new MemoryStream(data), 10240);

//Print out the new range of pages.
PrintPageRanges("After write to 10240:", pageBlob);

//Clear a page.
pageBlob.ClearPages(4096, 1024);

//Print out the new range of pages.
PrintPageRanges("After clearing page at 4096:", pageBlob);

//Delete the page blob.
pageBlob.Delete();

static void PrintPageRanges(string msg, CloudPageBlob cloudBlob)
{
    //Write out the page ranges for the page blob.
    IEnumerable<PageRange> ranges = cloudBlob.GetPageRanges();

    Console.Write("{0}:<", msg);

    foreach (PageRange range in ranges)
    {
        Console.Write(" [{0}--{1}] ", range.StartOffset, range.EndOffset);
    }

    Console.WriteLine(">");
}
Remarks

Calling **ClearPages** releases the storage space used by the specified page. Pages that have been cleared are no longer tracked as part of the page blob.

Pages that have been cleared no longer incur a charge against the storage account, as their storage resources have been released.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
Clears pages from a page blob, using a conditional request based on the `BlobRequestOptions` specified.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As CloudPageBlob
Dim startOffset As Long
Dim length As Long
Dim options As BlobRequestOptions

instance.ClearPages(startOffset, length, options)
```
### Syntax

#### Visual Basic

```vbnet
Public Sub ClearPages (_
    startOffset As Long, _
    length As Long, _
    options As BlobRequestOptions _
)
```

#### C#

```csharp
public void ClearPages (%
    long startOffset,%
    long length,%
    BlobRequestOptions options%
)
```

#### C++

```cpp
public:
    void ClearPages (%
    long long startOffset,%
    long long length,%
    BlobRequestOptions^ options%
)
```

#### J#

```
```

#### JScript

```
```

### Parameters

- `startOffset`
Type: `System.Int64`

The offset at which to begin clearing pages, in bytes. The offset must be a multiple of 512.

**length**

Type: `System.Int64`

The length of the data range to be cleared, in bytes. The length must be a multiple of 512.

**options**

Type: `Microsoft.WindowsAzure.StorageClient.BlobRequestOptions`

An object that specifies any additional options for the request.
## Example

The following code example creates a page blob, writes some pages to it, clears a page, and prints out the page ranges to the console.

```csharp
static void WriteToPageBlob(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // create container if it does not exist
    CloudBlobContainer cloudContainer = blobClient.GetContainerReference("mypageblobs");
    cloudContainer.CreateIfNotExist();

    //Get a reference to the page blob that will be created.
    CloudPageBlob pageBlob = cloudContainer.GetPageBlobReference("apageblob");

    //Generate some data to write.
    byte[] data = new byte[1024];
    Random rnd = new Random();
    rnd.NextBytes(data);

    //Create a 100 MB page blob.
    pageBlob.Create(100 * 1024 * 1024);

    //Write two sets of pages. Note that you can write 4 MB per call to WritePages().
    pageBlob.WritePages(new MemoryStream(data), 0);
    pageBlob.WritePages(new MemoryStream(data), 4096);

    //Populate the page blob's attributes.
    pageBlob.FetchAttributes();
    Console.WriteLine("Blob length = {0}", pageBlob.Properties.Length);

    //Print out the current range of pages.
}```
PrintPageRanges("Before write to 10240:", pageBlob);

//Write another page.
pageBlob.WritePages(new MemoryStream(data), 10240);

//Print out the new range of pages.
PrintPageRanges("After write to 10240:", pageBlob);

//Clear a page.
pageBlob.ClearPages(4096, 1024);

//Print out the new range of pages.
PrintPageRanges("After clearing page at 4096:", pageBlob);

//Delete the page blob.
pageBlob.Delete();

static void PrintPageRanges(string msg, CloudPageBlob cloudBlob)
{
    //Write out the page ranges for the page blob.
    IEnumerable<PageRange> ranges = cloudBlob.GetPageRanges();
    Console.Write("{0}:<", msg);
    foreach (PageRange range in ranges) {
        Console.Write(" [{0}-{1}] ", range.StartOffset, range.EndOffset);
    }
    Console.WriteLine(" >");
}
Remarks

Calling **ClearPages** releases the storage space used by the specified page. Pages that have been cleared are no longer tracked as part of the page blob.

Pages that have been cleared no longer incur a charge against the storage account, as their storage resources have been released.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
CloudPageBlob.Create Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<td><code>CloudPageBlob.Create</code> (Int64,</td>
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</tr>
<tr>
<td>BlobRequestOptions)</td>
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</table>
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Creates a page blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudPageBlob
Dim size As Long

instance.Create(size)
```
## Syntax

### Visual Basic

```vbnet
Public Sub Create ( _
    size As Long _
)
```

### C#

```csharp
public void Create (  
    long size 
)
```

### C++

```cpp
public:
void Create (  
    long long size 
)
```

### J#

```jsharp```

### JScript

```
```

## Parameters

**size**

Type: `System.Int64`

The maximum size of the blob, in bytes. This value must be a multiple of 512.
The following code example creates a page blob that has a maximum size of 4 MB.

```csharp
static void CreatePageBlob(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to the page blob.
    CloudPageBlob pageBlob = blobClient.GetPageBlobReference("mycontainer/mypageblob");

    //Create a page blob 4 MB in size.
    pageBlob.Create(4194304);

    //Verify that this is a page blob.
    pageBlob.FetchAttributes();
    Console.WriteLine(pageBlob.Properties.BlobType);
}
```
Remarks

To create a page blob, call **Create**, specifying the maximum size of the page blob in bytes. A page blob may be up to 1 TB in size.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
CloudPageBlob.Create Method (Int64, BlobRequestOptions)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Creates a page blob, using a conditional request based on the BlobRequestOptions specified.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudPageBlob
Dim size As Long
Dim options As BlobRequestOptions

instance.Create(size, options)
```
Syntax

Visual Basic

Public Sub Create (_
    size As Long,
    _
    options As BlobRequestOptions _
)

C#

public void Create (  
    long size,
    BlobRequestOptions options
)

C++

public:
void Create (  
    long long size,
    BlobRequestOptions^ options
)

J#

JScript

Parameters

size
Type: System.Int64

The maximum size of the blob, in bytes. This value must be a multiple of 512.
**options**

An object that specifies any additional options for the request.
Example

The following code example creates a page blob that has a maximum size of 4 MB.

```csharp
static void CreatePageBlob(Uri blobEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to the page blob.
    CloudPageBlob pageBlob = blobClient.GetPageBlobReference("mycontainer/mypageblob");

    //Create a page blob 4 MB in size.
    pageBlob.Create(4194304);

    //Verify that this is a page blob.
    pageBlob.FetchAttributes();
    Console.WriteLine(pageBlob.Properties.BlobType);
}
```
Remarks

To create a page blob, call Create, specifying the maximum size of the page blob in bytes. A page blob may be up to 1 TB in size.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to clear pages from a page blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As CloudPageBlob
Dim asyncResult As IAsyncResult

instance.EndClearPages(asyncResult)
```
### Syntax

**Visual Basic**

```vbnet
Public Sub EndClearPages ( _
    asyncResult As IAsyncResult _
)
```

**C#**

```csharp
public void EndClearPages (   
    IAsyncResult asyncResult
)
```

**C++**

```cpp
public:
void EndClearPages (   
    IAsyncResult^ asyncResult
)
```

**J#**

```jsharp```

**JScript**

```jscript```

### Parameters

**asyncResult**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the pending asynchronous operation.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudPageBlob.EndCreate Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to create a page blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudPageBlob
Dim asyncResult As IAsyncResult

instance.EndCreate(asyncResult)
```
### Syntax

<table>
<thead>
<tr>
<th>Public Sub EndCreate ( _ asyncResult As IAsyncResult _ )</th>
</tr>
</thead>
</table>

**C#**

```csharp
public void EndCreate ( IAsyncResult asyncResult )
```

**C++**

```cpp
public: void EndCreate ( IAsyncResult^ asyncResult )
```

**J#**

```jsharp```

**JScript**

```
```

### Parameters

**asyncResult**  
Type: System.IAsyncResult  
An IAsyncResult that references the pending asynchronous operation.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
**CloudPageBlob.EndGetPageRanges Method**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.]

Ends an asynchronous operation to return a collection of page ranges and their starting and ending bytes.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudPageBlob
Dim asyncResult As IAsyncResult
Dim returnValue As IEnumerable(Of PageRange)

returnValue = instance.EndGetPageRanges(asyncResult)
```
### Syntax

**Visual Basic**

Public Function EndGetPageRanges ( asyncResult As IAsyncResult ) As IEnumerable(Of PageRange)

**C#**

public IEnumerable<PageRange> EndGetPageRanges ( IAsyncResult asyncResult )

**C++**

public: IEnumerabile<PageRange>^ EndGetPageRanges ( IAsyncResult^ asyncResult )

**J#**

**JScript**

**Parameters**

*asyncResult*

Type: System.IAsyncResult

An IAsyncResult that references the pending asynchronous operation.

**Return Value**

Type: System.Collections.Generic.IEnumerable
An enumerable collection of page ranges.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudPageBlob.EndUploadFromStream Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to upload a blob from a stream.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As CloudPageBlob
Dim asyncResult As IAsyncResult

instance.EndUploadFromStream(asyncResult)
```
# Syntax

## Visual Basic

```vbnet
Public Overrides Sub EndUploadFromStream ( _
    asyncResult As IAsyncResult _
)
```

## C#

```csharp
public override void EndUploadFromStream ( IAsyncResult asyncResult
)
```

## C++

```cpp
public:
virtual void EndUploadFromStream ( IAsyncResult^ asyncResult
) override
```

## J#

```
```

## JScript

```
```

## Parameters

**asyncResult**
Type: System.IAsyncResult

An IAsyncResult that references the pending asynchronous operation.
## Exceptions

<table>
<thead>
<tr>
<th>Exception type</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>NotSupportedException</td>
<td>This operation is not supported on objects of type CloudPageBlob.</td>
</tr>
</tbody>
</table>
Thread Safety

Any public static (`Shared` in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudPageBlob.EndWritePages Method

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to write pages to a page blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudPageBlob
Dim asyncResult As IAsyncResult

instance.EndWritePages(asyncResult)
```
## Syntax

### Visual Basic

```vbnet
Public Sub EndWritePages ( _
    asyncResult As IAsyncResult _
)
```

### C#

```csharp
public void EndWritePages (  
    IAsyncResult asyncResult
)
```

### C++

```cpp
public:
    void EndWritePages (  
        IAsyncResult^ asyncResult
    )
```

### J#

```jsharp
```

### JScript

```jscript
```

## Parameters

**asyncResult**
Type: `System.IAsyncResult`

An `IAsyncResult` that references the pending asynchronous operation.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudPageBlob.GetPageRanges Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudPageBlob.GetPageRanges(BlobRequestOptions)</code></td>
<td>Gets a collection of page ranges and their starting and ending bytes, using a conditional request based on the <code>BlobRequestOptions</code> specified.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

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Understanding Block Blobs and Page Blobs
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a collection of page ranges and their starting and ending bytes.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

**Visual Basic**

```vbnet
Dim instance As CloudPageBlob
Dim returnValue As IEnumerable(Of PageRange)

returnValue = instance.GetPageRanges
```
## Syntax

### Visual Basic

```vbnet
Public Function GetPageRanges As IEnumerable(Of PageRange)
```

### C#

```csharp
public IEnumerable<PageRange> GetPageRanges()
```

### C++

```cpp
public: IEnumerableView<PageRange> GetPageRanges()
```

### J#

```jsharp
Return Value Type: System.Collections.Generic.IEnumerable
```

### JScript

An enumerable collection of page ranges.
Example
The following example returns the collection of page ranges for a page blob and
writes them to the console window.
C#

static void GetPageBlobRanges(Uri blobEndpoint, string accoun
{
//Create service client for credentialed access to the Bl
CloudBlobClient blobClient =
new CloudBlobClient(blobEndpoint, new StorageCredenti

//Get a reference to the page blob.
CloudPageBlob pageBlob = blobClient.GetPageBlobReference(

foreach (PageRange pageRange in pageBlob.GetPageRanges())
{
Console.WriteLine("Starting offset: " + pageRange.Sta
Console.WriteLine("Ending offset: " + pageRange.EndOf
Console.WriteLine("Content: " + pageRange.ToString())
Console.WriteLine();
}
}


 Remarks

The start and end byte offsets for each page range are inclusive.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
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See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

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Understanding Block Blobs and Page Blobs
CloudPageBlob.GetPageRanges Method (BlobRequestOptions)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a collection of page ranges and their starting and ending bytes, using a conditional request based on the BlobRequestOptions specified.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudPageBlob
Dim options As BlobRequestOptions
Dim returnValue As IEnumerable(Of PageRange)

returnValue = instance.GetPageRanges(options)
```
## Syntax

### Visual Basic

```vbnet
Public Function GetPageRanges ( _
    options As BlobRequestOptions _
) As(IEnumerable(Of PageRange))
```

### C#

```csharp
public IEnumerable<PageRange> GetPageRanges ( BlobRequestOptions options )
```

### C++

```cpp
public:
IEnumerable<PageRange> GetPageRanges ( BlobRequestOptions options )
```

### J#

```jsharp

```

### JScript

```jscript

```

### Parameters

**options**

Type: [Microsoft.WindowsAzure.StorageClient.BlobRequestOptions](#)

An object that specifies any additional options for the request.

### Return Value

Type: System.Collections.Generic.IEnumerable
An enumerable collection of page ranges.
Example

The following example returns the collection of page ranges for a page blob and writes them to the console window.

```csharp
static void GetPageBlobRanges(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Get a reference to the page blob.
    CloudPageBlob pageBlob = blobClient.GetPageBlobReference("mycontainer/mypageblob");

    foreach (PageRange pageRange in pageBlob.GetPageRanges())
    {
        Console.WriteLine("Starting offset: "+ pageRange.StartOffset);
        Console.WriteLine("Ending offset: "+ pageRange.EndOffset);
        Console.WriteLine("Content: "+ pageRange.ToString());
        Console.WriteLine();
    }
}
```
Remarks

The start and end byte offsets for each page range are inclusive.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

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CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

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</table>

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CloudPageBlob.OpenWrite()</td>
<td>Opens a stream for writing to the blob. This method is not supported for page blobs.</td>
</tr>
<tr>
<td>CloudPageBlob.OpenWrite(BlobRequestOptions)</td>
<td>Opens a stream for writing to the blob. This method is not supported for page blobs, using a conditional request based on the BlobRequestOptions specified.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudPageBlob.OpenWrite Method ()

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Opens a stream for writing to the blob. This method is not supported for page blobs.

Namespace: Microsoft.WindowsAzure.StorageClient
## Usage

### Visual Basic

```vbnet
Dim instance As CloudPageBlob
Dim returnValue As BlobStream

returnValue = instance.OpenWrite
```
## Syntax

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public Overrides Function OpenWrite As <strong>BlobStream</strong></td>
<td></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public override <strong>BlobStream</strong> OpenWrite ()</td>
<td></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td></td>
</tr>
<tr>
<td>public: virtual <strong>BlobStream</strong> OpenWrite () override</td>
<td></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Return Value


A stream for writing to the blob.
## Exceptions

<table>
<thead>
<tr>
<th>Exception type</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>NotSupportedException</td>
<td>This operation is not supported on objects of type CloudPageBlob.</td>
</tr>
</tbody>
</table>
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudPageBlob.OpenWrite Method (BlobRequestOptions)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Opens a stream for writing to the blob. This method is not supported for page blobs, using a conditional request based on the BlobRequestOptions specified.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudPageBlob
Dim options As BlobRequestOptions
Dim returnValue As BlobStream

returnValue = instance.OpenWrite(options)
```
**Syntax**

**Visual Basic**

```vbnet
Public Overrides Function OpenWrite ( _
    options As BlobRequestOptions _
) As BlobStream
```

**C#**

```csharp
public override BlobStream OpenWrite (  
    BlobRequestOptions options
)
```

**C++**

```cpp
public: 
    virtual BlobStream^ OpenWrite ( 
        BlobRequestOptions^ options
    ) override
```

**J#**

**JScript**

**Parameters**

- `options`
  - Type: `Microsoft.WindowsAzure.StorageClient.BlobRequestOptions`
  
  An object that specifies any additional options for the request.

**Return Value**

- Type: `Microsoft.WindowsAzure.StorageClient.BlobStream`
A stream for writing to the blob.
## Exceptions

<table>
<thead>
<tr>
<th>Exception type</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>NotSupportedException</td>
<td>This operation is not supported on objects of type CloudPageBlob.</td>
</tr>
</tbody>
</table>
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudPageBlob.UploadByteArray Method

See Also

This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.
### Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudPageBlob.UploadByteArray(Byte[])</code></td>
<td>Uploads an array of bytes to a blob. This method is not supported for page blobs.</td>
</tr>
<tr>
<td><code>CloudPageBlob.UploadByteArray(Byte[], BlobRequestOptions)</code></td>
<td>Uploads an array of bytes to a blob. This method is not supported for page blobs, using a conditional request based on the <code>BlobRequestOptions</code> specified.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudPageBlob.UploadByteArray Method (Byte[])

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Uploads an array of bytes to a blob. This method is not supported for page blobs.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudPageBlob
Dim content As Byte()

instance.UploadByteArray(content)
```
### Syntax

#### Visual Basic

```vbnet
Public Overrides Sub UploadByteArray ( _
    content As Byte() _
)
```

#### C#

```csharp
public override void UploadByteArray ( 
    byte[] content
)
```

#### C++

```cpp
public:
virtual void UploadByteArray ( 
    array<unsigned char>^ content
) override
```

#### J#

#### JScript

#### Parameters

- `content`  
  The array of bytes to upload.
### Exceptions

<table>
<thead>
<tr>
<th>Exception type</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>NotSupportedException</td>
<td>This operation is not supported on objects of type <a href="#">CloudPageBlob</a>.</td>
</tr>
</tbody>
</table>
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
 uploads an array of bytes to a blob. This method is not supported for page blobs, using a conditional request based on the Blob RequestOptions specified.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudPageBlob
Dim content As Byte()
Dim options As BlobRequestOptions

instance.UploadByteArray(content, options)
```
## Syntax

### Visual Basic

```vbnet
Public Overrides Sub UploadByteArray ( _
    content As Byte(), _
    options As BlobRequestOptions _
)
```

### C#

```csharp
public override void UploadByteArray ( 
    byte[] content, 
    BlobRequestOptions options
)
```

### C++

```cpp
public:
    virtual void UploadByteArray ( 
        array<unsigned char>^ content,
        BlobRequestOptions^ options
    ) override
```

### J#

```vbnet
```

### JScript

```vbnet
```

## Parameters

### content
The array of bytes to upload.

### options
Type: [Microsoft.WindowsAzure.StorageClient.BlobRequestOptions](#)
An object that specifies any additional options for the request.
### Exceptions

<table>
<thead>
<tr>
<th>Exception type</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>NotSupportedException</td>
<td>This operation is not supported on objects of type CloudPageBlob.</td>
</tr>
</tbody>
</table>
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudPageBlob.UploadFile Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudPageBlob.UploadFile (String)</code></td>
<td>Uploads a file from the file system to a blob. This method is not supported for page blobs.</td>
</tr>
<tr>
<td><code>CloudPageBlob.UploadFile (String, BlobRequestOptions)</code></td>
<td>Uploads a file from the file system to a blob, using a conditional request based on the <code>BlobRequestOptions</code> specified. This method is not supported for page blobs.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Uploads a file from the file system to a blob. This method is not supported for page blobs.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudPageBlob
Dim fileName As String

instance.UploadFile(fileName)
## Syntax

### Visual Basic

```vbnet
Public Overrides Sub UploadFile (_
    fileName As String _
)
```

### C#

```csharp
public override void UploadFile (  
    string fileName
)
```

### C++

```cpp
public:
    virtual void UploadFile (  
        String^ fileName
    ) override
```

### J#

```jsharp```

### JScript

```jscript```

## Parameters

**fileName**
- Type: `System.String`
  
  The path and file name of the file to upload.
## Exceptions

<table>
<thead>
<tr>
<th>Exception type</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>NotSupportedException</td>
<td>This operation is not supported on objects of type <a href="https://example.com">CloudPageBlob</a>.</td>
</tr>
</tbody>
</table>
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
 uploads a file from the file system to a blob, using a conditional request based on the BlobRequestOptions specified. This method is not supported for page blobs.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

#### Visual Basic

```vbnet
Dim instance As CloudPageBlob
Dim fileName As String
Dim options As BlobRequestOptions

instance.UploadFile(fileName, options)
```
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Overrides Sub UploadFile ( fileName As String, options As BlobRequestOptions )</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public override void UploadFile ( string fileName, BlobRequestOptions options )</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: virtual void UploadFile ( String^ fileName, BlobRequestOptions^ options ) override</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parameters</td>
</tr>
<tr>
<td><strong>fileName</strong></td>
</tr>
<tr>
<td>Type: System.String</td>
</tr>
</tbody>
</table>

The path and file name of the file to upload.
options
    Type: Microsoft.WindowsAzure.StorageClient.BlobRequestOptions

An object that specifies any additional options for the request.
<table>
<thead>
<tr>
<th>Exception type</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>NotSupportedException</td>
<td>This operation is not supported on objects of type CloudPageBlob.</td>
</tr>
</tbody>
</table>
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

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Reference
CloudPageBlob Class
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<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudPageBlob.UploadFromStream(Stream)</code></td>
<td>Uploads a blob from a stream. This method is not supported for page blobs.</td>
</tr>
<tr>
<td><code>CloudPageBlob.UploadFromStream(Stream, BlobRequestOptions)</code></td>
<td>Uploads a blob from a stream, using a conditional request based on the <code>BlobRequestOptions</code> specified. This method is not supported for page blobs.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudPageBlob.UploadFromStream Method (Stream)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Uploads a blob from a stream. This method is not supported for page blobs.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudPageBlob
Dim source As Stream

instance.UploadFromStream(source)
```
## Syntax

### Visual Basic

```vbnet
Public Overrides Sub UploadFromStream (_
    source As Stream _
)
```

### C#

```csharp
public override void UploadFromStream (_
    Stream source
)
```

### C++

```cpp
public:
virtual void UploadFromStream (_
    Stream^ source
) override
```

### J#

### JScript

### Parameters

**source**

Type: `System.IO.Stream`

A stream that provides the blob content.
## Exceptions

<table>
<thead>
<tr>
<th>Exception type</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>NotSupportedException</td>
<td>This operation is not supported on objects of type <code>CloudPageBlob</code>.</td>
</tr>
</tbody>
</table>
Remarks

For optimum performance, the stream should support a length.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
Uploads a blob from a stream, using a conditional request based on the BlobRequestOptions specified. This method is not supported for page blobs.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudPageBlob
Dim source As Stream
Dim options As BlobRequestOptions

instance.UploadFromStream(source, options)
## Syntax

### Visual Basic

```vbnet
Public Overrides Sub UploadFromStream ( _
    source As Stream, _
    options As BlobRequestOptions _
)
```

### C#

```csharp
public override void UploadFromStream (  
    Stream source,
    BlobRequestOptions options
)
```

### C++

```cpp
public:
virtual void UploadFromStream (  
    Stream^ source,
    BlobRequestOptions^ options
 ) override
```

### J#

```jsharp```

### JScript

```jscript```

## Parameters

**source**

Type: `System.IO.Stream`

A stream that provides the blob content.
options
    Type: Microsoft.WindowsAzure.StorageClient.BlobRequestOptions

An object that specifies any additional options for the request.
## Exceptions

<table>
<thead>
<tr>
<th>Exception type</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>NotSupportedException</td>
<td>This operation is not supported on objects of type CloudPageBlob.</td>
</tr>
</tbody>
</table>
Remarks

For optimum performance, the stream should support a length.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudPageBlob.UploadText Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[CloudPageBlob.UploadText (String)]</td>
<td>Uploads a string of text to a blob. This method is not supported for page blobs.</td>
</tr>
<tr>
<td>[CloudPageBlob.UploadText (String, Encoding, BlobRequestOptions)]</td>
<td>Uploads a string of text to a blob, using a conditional request based on the BlobRequestOptions specified. This method is not supported for page blobs.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudPageBlob.UploadText Method (String)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Uploads a string of text to a blob. This method is not supported for page blobs.

Namespace: Microsoft.WindowsAzure.StorageClient  
Usage

Visual Basic

Dim instance As CloudPageBlob
Dim content As String

instance.UploadText(content)
## Syntax

### Visual Basic

```vbnet
Public Overrides Sub UploadText ( _
    content As String _
)
```

### C#

```csharp
public override void UploadText ( _
    string content _
)
```

### C++

```cpp
public:
virtual void UploadText ( _
    String^ content _
) override
```

### J#

```
```

### JScript

```
```

## Parameters

**content**

Type: `System.String`

The text to upload, encoded as a UTF-8 string.
## Exceptions

<table>
<thead>
<tr>
<th>Exception type</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>NotSupportedException</td>
<td>This operation is not supported on objects of type CloudPageBlob.</td>
</tr>
</tbody>
</table>
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
Uploads a string of text to a blob, using a conditional request based on the BlobRequestOptions specified. This method is not supported for page blobs.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As CloudPageBlob
Dim content As String
Dim encoding As Encoding
Dim options As BlobRequestOptions

instance.UploadText(content, encoding, options)
Syntax

Visual Basic

Public Overrides Sub UploadText ( _
    content As String, _
    encoding As Encoding, _
    options As BlobRequestOptions _
)

C#

public override void UploadText (  
    string content, 
    Encoding encoding, 
    BlobRequestOptions options 
)

C++

public:
virtual void UploadText (  
    String^ content, 
    Encoding^ encoding, 
    BlobRequestOptions^ options 
) override

J#

JScript

Parameters

content
Type: System.String

The text to upload.

encoding
Type: System.Text.Encoding

An object indicating the text encoding to use.

options
Type: Microsoft.WindowsAzure.StorageClient.BlobRequestOptions

An object that specifies any additional options for the request.
## Exceptions

<table>
<thead>
<tr>
<th>Exception type</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>NotSupportedException</td>
<td>This operation is not supported on objects of type CloudPageBlob.</td>
</tr>
</tbody>
</table>
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CloudPageBlob.WritePages (Stream, Int64)</td>
<td>Writes pages to a page blob.</td>
</tr>
<tr>
<td>CloudPageBlob.WritePages (Stream, Int64,</td>
<td>Writes pages to a page blob, using a conditional request based on the</td>
</tr>
<tr>
<td>BlobRequestOptions)</td>
<td>BlobRequestOptions specified.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
CloudPageBlob.WritePages Method (Stream, Int64)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Writes pages to a page blob.

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

Visual Basic

```visualbasic
Dim instance As CloudPageBlob
Dim pageData As Stream
Dim startOffset As Long

instance.WritePages(pageData, startOffset)
```
## Syntax

### Visual Basic

```vbnet
Public Sub WritePages ( _
    pageData As Stream, _
    startOffset As Long _
)  
```

### C#

```csharp
public void WritePages ( 
    Stream pageData, 
    long startOffset 
)  
```

### C++

```cpp
public:
    void WritePages ( 
        Stream^ pageData, 
        long long startOffset 
)  
```

### J#

### JScript

### Parameters

- **pageData**
  - Type: `System.IO.Stream`

  A stream providing the page data.
**startOffset**

Type: [System.Int64](https://docs.microsoft.com/en-us/dotnet/api/system.int64)

The offset at which to begin writing, in bytes. The offset must be a multiple of 512.
Example

The following code example creates a page blob, writes some pages to it, and prints out the page ranges to the console.

C#

```csharp
static void WriteToPageBlob(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // create container if it does not exist
    CloudBlobContainer cloudContainer = blobClient.GetContainerReference("mypageblobs");
    cloudContainer.CreateIfNotExist();

    // Get a reference to the page blob that will be created.
    CloudPageBlob pageBlob = cloudContainer.GetPageBlobReference("apageblob");

    // Generate some data to write.
    byte[] data = new byte[1024];
    Random rnd = new Random();
    rnd.NextBytes(data);

    // Create a 100 MB page blob.
    pageBlob.Create(100 * 1024 * 1024);

    // Write two sets of pages. Note that you can write 4 MB per call to WritePages().
    pageBlob.WritePages(new MemoryStream(data), 0);
    pageBlob.WritePages(new MemoryStream(data), 4096);

    // Populate the page blob's attributes.
    pageBlob.FetchAttributes();
    Console.WriteLine("Blob length = {0}", pageBlob.Properties.Length);

    // Print out the current range of pages.
}```
PrintPageRanges("Before write to 10240:", pageBlob);

//Write another page.
pageBlob.WritePages(new MemoryStream(data), 10240);

//Print out the new range of pages.
PrintPageRanges("After write to 10240:", pageBlob);

//Clear a page.
pageBlob.ClearPages(4096, 1024);

//Print out the new range of pages.
PrintPageRanges("After clearing page at 4096:", pageBlob);

//Delete the page blob.
pageBlob.Delete();

}

static void PrintPageRanges(string msg, CloudPageBlob cloudBlob)
{
    //Write out the page ranges for the page blob.
    IEnumerable<PageRange> ranges = cloudBlob.GetPageRanges();

    Console.Write("{0}:<", msg);

    foreach (PageRange range in ranges)
    {
        Console.Write(" [{0}-{1}] ", range.StartOffset, range.EndOffset);
    }

    Console.WriteLine(">");
}
## Remarks

The **WritePages** method writes a range of pages to a page blob. This method can only be called on an existing page blob; it cannot be called to create a new page blob.

Each range of pages submitted with **WritePages** may be up to 4 MB in size. The start and end range of the page must be aligned with 512-byte boundaries.

The Blob service serializes concurrent writes to overlapping pages sequentially: the last page processed by the service determines the blob's content. Therefore, to ensure the integrity of the blob's content, you should handle writes to overlapping pages using one or more of the following approaches:

- You can check the value of the blob's **LastModifiedUtc** property for each successful call to **WritePages**. The order of responses returned from the Blob service does not necessarily correspond to the order in which they were executed by the service. But the last modified time always indicates the order in which the service processed the requests.

- You can perform updates conditionally based on the blob's ETag or last modified time using optimistic concurrency. This approach works well if the number of concurrent writes is relatively low. Specify an access condition using the **AccessCondition** property of the **BlobRequestOptions** class.

- You can acquire a lease on the blob to lock it against other writes. See the **Lease** method of the **BlobRequest** class.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
CloudPageBlob.WritePages Method (Stream, Int64, BlobRequestOptions)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Writes pages to a page blob, using a conditional request based on the BlobRequestOptions specified.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

#### Visual Basic

```visualbasic
Dim instance As CloudPageBlob
Dim pageData As Stream
Dim startOffset As Long
Dim options As BlobRequestOptions

instance.WritePages(pageData, startOffset, options)
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| Visual Basic | `Public Sub WritePages (_
pageData As Stream, _
startOffset As Long, _
options As BlobRequestOptions _
)` |
| C# | `public void WritePages (Stream pageData, long startOffset, BlobRequestOptions options)` |
| C++ | `public:
void WritePages (Stream^ pageData,
long startOffset,
BlobRequestOptions^ options)` |
| J# |  |
| JScript |  |

### Parameters

- `pageData`
Type: [System.IO.Stream](https://docs.microsoft.com/en-us/dotnet/api/system.io.stream)

A stream providing the page data.

**startOffset**

Type: [System.Int64](https://docs.microsoft.com/en-us/dotnet/api/system.int64)

The offset at which to begin writing, in bytes. The offset must be a multiple of 512.

**options**


An object that specifies any additional options for the request.
Example

The following code example creates a page blob, writes some pages to it, and prints out the page ranges to the console.

C#

```csharp
static void WriteToPageBlob(Uri blobEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Create container if it does not exist
    CloudBlobContainer cloudContainer = blobClient.GetContainerReference("mypageblobs");
    cloudContainer.CreateIfNotExist();

    // Get a reference to the page blob that will be created.
    CloudPageBlob pageBlob = cloudContainer.GetPageBlobReference("apageblob");

    // Generate some data to write.
    byte[] data = new byte[1024];
    Random rnd = new Random();
    rnd.NextBytes(data);

    // Create a 100 MB page blob.
    pageBlob.Create(100 * 1024 * 1024);

    // Write two sets of pages. Note that you can write 4 MB per call to WritePages().
    pageBlob.WritePages(new MemoryStream(data), 0);
    pageBlob.WritePages(new MemoryStream(data), 4096);

    // Populate the page blob's attributes.
    pageBlob.FetchAttributes();
    Console.WriteLine("Blob length = {0}", pageBlob.Properties.Length);

    // Print out the current range of pages.
}```
PrintPageRanges("Before write to 10240:", pageBlob);

//Write another page.
pageBlob.WritePages(new MemoryStream(data), 10240);

//Print out the new range of pages.
PrintPageRanges("After write to 10240:", pageBlob);

//Clear a page.
pageBlob.ClearPages(4096, 1024);

//Print out the new range of pages.
PrintPageRanges("After clearing page at 4096:", pageBlob);

//Delete the page blob.
pageBlob.Delete();

static void PrintPageRanges(string msg, CloudPageBlob cloudBlob)
{
    //Write out the page ranges for the page blob.
    IEnumerable<PageRange> ranges = cloudBlob.GetPageRanges();

    Console.Write("{0}:<", msg);

    foreach (PageRange range in ranges)
    {
        Console.Write(" [{0}-{1}] ", range.StartOffset, range.EndOffset);
    }

    Console.WriteLine(">");
}
Remarks

The **WritePages** method writes a range of pages to a page blob. This method can only be called on an existing page blob; it cannot be called to create a new page blob.

Each range of pages submitted with **WritePages** may be up to 4 MB in size. The start and end range of the page must be aligned with 512-byte boundaries.

The Blob service serializes concurrent writes to overlapping pages sequentially: the last page processed by the service determines the blob's content. Therefore, to ensure the integrity of the blob's content, you should handle writes to overlapping pages using one or more of the following approaches:

- You can check the value of the blob's **LastModifiedUtc** property for each successful call to **WritePages**. The order of responses returned from the Blob service does not necessarily correspond to the order in which they were executed by the service. But the last modified time always indicates the order in which the service processed the requests.

- You can perform updates conditionally based on the blob's ETag or last modified time using optimistic concurrency. This approach works well if the number of concurrent writes is relatively low. Specify an access condition using the **AccessCondition** property of the **BlobRequestOptions** class.

- You can acquire a lease on the blob to lock it against other writes. See the **Lease** method of the **BlobRequest** class.
- **Thread Safety**

  Any public static (**Shared** in Visual Basic) members of this type are thread safe.
  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudPageBlob Class
CloudPageBlob Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
CloudPageBlob Properties

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attributes</td>
<td>Gets the <a href="#">BlobAttributes</a> object that represents the blob's attributes.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td>Container</td>
<td>Gets a <a href="#">CloudBlobContainer</a> object representing the blob's container.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td>Metadata</td>
<td>Gets the blob's user-defined metadata.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td>Name</td>
<td>Gets the name of the blob.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td>Parent</td>
<td>Gets the <a href="#">CloudBlobDirectory</a> object representing the virtual parent directory for the blob.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td>Properties</td>
<td>Gets the blob's system properties.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td>ServiceClient</td>
<td>Gets the <a href="#">CloudBlobClient</a> object that represents the Blob service.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td>SnapshotTime</td>
<td>Gets the <a href="#">DateTime</a> value that uniquely identifies the snapshot, if this blob is a snapshot.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td>ToBlockBlob</td>
<td>Gets a <a href="#">CloudBlockBlob</a> object based on this blob.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td>ToPageBlob</td>
<td>Gets a <a href="#">CloudPageBlob</a> object based on this blob.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
<tr>
<td>Uri</td>
<td>Gets the URI that identifies the blob.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <a href="#">CloudBlob</a>)</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudPageBlob Class
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Understanding Block Blobs and Page Blobs
CloudQueue Class

See Also  Members

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a Windows Azure queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
</tr>
<tr>
<td>Dim instance As <strong>CloudQueue</strong></td>
</tr>
</tbody>
</table>
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td>Public Class CloudQueue</td>
</tr>
<tr>
<td>C#</td>
<td>public class CloudQueue</td>
</tr>
<tr>
<td>C++</td>
<td>public ref class CloudQueue</td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
  Microsoft.WindowsAzure.StorageClient.CloudQueue
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a Windows Azure queue.

The following tables list the members exposed by the CloudQueue type.
## Public Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CloudQueue</td>
<td>Initializes a new instance of the CloudQueue class.</td>
</tr>
</tbody>
</table>
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>ApproximateMessageCount</code></td>
<td>Gets the approximate message count for the queue.</td>
</tr>
<tr>
<td><code>Attributes</code></td>
<td>Gets the queue's attributes, including its user-defined metadata.</td>
</tr>
<tr>
<td><code>EncodeMessage</code></td>
<td>Gets or sets a value indicating whether to apply Base64 encoding when adding or retrieving messages.</td>
</tr>
<tr>
<td><code>Metadata</code></td>
<td>Gets the queue's user-defined metadata.</td>
</tr>
<tr>
<td><code>Name</code></td>
<td>Gets the queue name.</td>
</tr>
<tr>
<td><code>ServiceClient</code></td>
<td>Gets the <a href="#">CloudQueueClient</a> object that represents the Queue service.</td>
</tr>
<tr>
<td><code>Uri</code></td>
<td>Gets the URI that identifies the queue.</td>
</tr>
</tbody>
</table>

[Top](#)
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>AddMessage</code></td>
<td>Overloaded. Adds a message to the queue.</td>
</tr>
<tr>
<td><code>BeginAddMessage</code></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><code>BeginClear</code></td>
<td>Begins an asynchronous operation to clear all messages from the queue.</td>
</tr>
<tr>
<td><code>BeginCreate</code></td>
<td>Begins an asynchronous operation to create a queue.</td>
</tr>
<tr>
<td><code>BeginCreateIfNotExist</code></td>
<td>Begins an asynchronous operation to create the queue if it does not exist.</td>
</tr>
<tr>
<td><code>BeginDelete</code></td>
<td>Begins an asynchronous operation to delete the queue.</td>
</tr>
<tr>
<td><code>BeginDeleteMessage</code></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><code>BeginExists</code></td>
<td>Begins an asynchronous operation to determine whether the queue exists.</td>
</tr>
<tr>
<td><code>BeginFetchAttributes</code></td>
<td>Begins an asynchronous operation to fetch the queue's attributes.</td>
</tr>
<tr>
<td><code>BeginGetMessage</code></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><code>BeginGetMessages</code></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><code>BeginPeekMessage</code></td>
<td>Begins an asynchronous operation to peek a message from the queue.</td>
</tr>
<tr>
<td><code>BeginPeekMessages</code></td>
<td>Begins an asynchronous operation to peek a set of messages from the queue.</td>
</tr>
<tr>
<td><code>BeginSetMetadata</code></td>
<td>Begins an asynchronous operation to set the queue's metadata.</td>
</tr>
<tr>
<td><code>BeginUpdateMessage</code></td>
<td>Begins an asynchronous operation to update the visibility delay of a message, and optionally the contents of a message.</td>
</tr>
<tr>
<td><code>Clear</code></td>
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## Protected Methods

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See Also

Reference
CloudQueue Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue Constructor

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudQueue class.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim address As String
Dim credentials As StorageCredentials

Dim instance As New CloudQueue(address, credentials)
```
### Syntax

**Visual Basic**

```vbnet
Public Sub New ( _
    address As String, _
    credentials As StorageCredentials _
)
```

**C#**

```csharp
public CloudQueue (  
    string address,
    StorageCredentials credentials
)
```

**C++**

```c++
public:
CloudQueue (  
    String^ address,
    StorageCredentials^ credentials
)
```

**J#**

```
```

**JScript**

```
```

### Parameters

- **address**
  - Type: System.String

  The absolute URI to the queue.
credentials
   Type: Microsoft.WindowsAzure.StorageCredentials

The account credentials.
The following code example uses the `CloudQueue` constructor to create a queue:

```csharp
public CloudQueue CreateNewQueue(string queueAbsoluteURI, string AccountName, string AccessKey)
{
    StorageCredentialsAccountAndKey credentials;
    CloudQueue newQueue = null;
    try
    {
        credentials = new StorageCredentialsAccountAndKey(AccountName, AccessKey);
        newQueue = new CloudQueue(queueAbsoluteURI, credentials);
        newQueue.Create();
    }
    catch (Exception ex)
    {
        Trace.TraceError(string.Format("Failed to create new CloudQueue at URI '{0}'; reason: {1}.", queueAbsoluteURI, ex.Message));
        return (null);
    }
    return (newQueue);
}
```
Remarks

See the `GetQueueReference` method for an alternate way to create a new `CloudQueue` object.
Platforms

Development Platforms
Change History
See Also

Reference

CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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See Also

Reference
CloudQueue Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.AddMessage Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Adds a message to the queue.
## Overload List

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See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
Adds a message to the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudQueue
Dim message As CloudQueueMessage

instance.AddMessage(message)
```
### Syntax

#### Visual Basic

```vbnet
Public Sub AddMessage (_
    message As CloudQueueMessage _
)
```

#### C#

```csharp
public void AddMessage (
    CloudQueueMessage message
)
```

#### C++

```cpp
public:
void AddMessage ( 
    CloudQueueMessage^ message 
)
```

#### J#

```jsharp```

#### JScript

```
```

### Parameters

- **message**
  - Type: [Microsoft.WindowsAzure.StorageClient.CloudQueueMessage](#)
  - A message.
Example

The following code example creates a queue, adds some messages to it, and reads some messages from it.

C# static void CreateQueueAndAddMessages(Uri queueEndpoint, string accountName, string accountKey) {
    //Create service client for credentialed access to the Queue service.
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint,
        new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a queue in this storage account.
    CloudQueue queue = queueClient.GetQueueReference("myqueue");
    //Create the queue if it does not already exist.
    queue.CreateIfNotExist();

    //Clear any existing messages from the queue.
    queue.Clear();

    //Create some new messages.
    CloudQueueMessage msg1 = new CloudQueueMessage("message1"),
    CloudQueueMessage msg2 = new CloudQueueMessage("message2"),
    CloudQueueMessage msg3 = new CloudQueueMessage("message3");

    //Add the messages to the queue.
    queue.AddMessage(msg1);
    queue.AddMessage(msg2);
    //Add the message with a time-to-live of one hour.
    queue.AddMessage(msg3, new TimeSpan(1, 0, 0));

    //Get one message from the queue.
    CloudQueueMessage msgRead = queue.GetMessage();

    //If the message is not null, display it.
    if (msgRead != null)
{   Console.WriteLine(msgRead.AsString);
   Console.WriteLine();

   // After reading the message, the client should
   queue.DeleteMessage(msgRead);
 }
else
{
   Console.WriteLine("The queue contains no message.");
   Console.WriteLine();
}

// Get up to 10 messages from the queue.
foreach (var msg in queue.GetMessages(10))
{
   Console.WriteLine(msg.AsString);
   queue.DeleteMessage(msg);
}
}
Remarks

The **AddMessage** method adds a message to the back of the queue.

A message can be up to 64 KB in size for SDK version 1.6 or newer, or 8 KB in size for older SDK versions. The storage client library encodes the message content using Base64 when **EncodeMessage** is set to **true**, its default. Encode messages if message content can contain characters that are invalid in XML.

**Note**

Encoding with Base64 adds overhead to the message size. You can use `Convert.ToBase64String()` to verify content encoded with Base64 fits within the 64 KB message size limit.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
Adds a message to the queue, with a value specifying its expiration (the length of time it can remain in the queue), and a value specifying how long it must first remain invisible (delayed visibility).

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudQueue
Dim message As CloudQueueMessage
Dim timeToLive As Nullable(Of TimeSpan)
Dim initialVisibilityDelay As Nullable(Of TimeSpan)

instance.AddMessage(message, timeToLive, initialVisibilityDelay)
Syntax

Visual Basic

Public Sub AddMessage (_
    message As CloudQueueMessage, _
    timeToLive As Nullable(Of TimeSpan), _
    initialVisibilityDelay As Nullable(Of TimeSpan))

C#

public void AddMessage (_
    CloudQueueMessage message,
    Nullable<TimeSpan> timeToLive,
    Nullable<TimeSpan> initialVisibilityDelay)

C++

public:
void AddMessage (_
    CloudQueueMessage^ message,
    Nullable<TimeSpan> timeToLive,
    Nullable<TimeSpan> initialVisibilityDelay)

J#

JScript

Parameters

message
A queue message.

*timeToLive*

A value indicating the message time-to-live.

*initialVisibilityDelay*

The visibility delay for the message.
Remarks

The **AddMessage** method adds a message to the back of the queue.

A message can be up to 64 KB in size for SDK version 1.6 or newer, or 8 KB in size for older SDK versions. The storage client library encodes the message content using Base64 when **EncodeMessage** is set to **true**, its default. Encode messages if message content can contain characters that are invalid in XML.

**Note**

Encoding with Base64 adds overhead to the message size. You can use **Convert.ToBase64String()** to verify content encoded with Base64 fits within the 64 KB message size limit.

The message time-to-live specifies how long a message will remain in the queue from the time it is added to the time it is retrieved and deleted. If a message is not retrieved before the time-to-live interval expires, the message is removed from the queue.

The message visibility delay specifies the time that the message will be invisible. After the delay expires, the message will become visible. Visibility of a message can be delayed for up to 7 days.
Thread Safety

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
**CloudQueue.AddMessage Method (CloudQueueMessage, TimeSpan)**

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

 Adds a message to the queue, along with a value specifying how long it can remain in the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudQueue
Dim message As CloudQueueMessage
Dim timeToLive As TimeSpan

instance.AddMessage(message, timeToLive)
```
### Syntax

**Visual Basic**

```vbnet
Public Sub AddMessage (_
    message As CloudQueueMessage, _
    timeToLive As TimeSpan _
)
```

**C#**

```csharp
public void AddMessage (  
    CloudQueueMessage message,  
    TimeSpan timeToLive
)
```

**C++**

```cpp
public:
void AddMessage (  
    CloudQueueMessage^ message,  
    TimeSpan timeToLive
)
```

**J#**

```
```

**JScript**

```
```

### Parameters

- **message**
  - Type: `Microsoft.WindowsAzure.StorageClient.CloudQueueMessage`

  A message.
timeToLive

Type: System.TimeSpan

A value indicating the message time-to-live.
The following code example creates a queue, adds some messages to it, and reads some messages from it.

```csharp
static void CreateQueueAndAddMessages(Uri queueEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Queue service.
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint,
        new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a queue in this storage account.
    CloudQueue queue = queueClient.GetQueueReference("myqueue");

    //Create the queue if it does not already exist.
    queue.CreateIfNotExist();

    //Clear any existing messages from the queue.
    queue.Clear();

    //Create some new messages.
    CloudQueueMessage msg1 = new CloudQueueMessage("message1");
    CloudQueueMessage msg2 = new CloudQueueMessage("message2");
    CloudQueueMessage msg3 = new CloudQueueMessage("message3");

    //Add the messages to the queue.
    queue.AddMessage(msg1);
    queue.AddMessage(msg2);
    //Add the message with a time-to-live of one hour.
    queue.AddMessage(msg3, new TimeSpan(1, 0, 0));

    //Get one message from the queue.
    CloudQueueMessage msgRead = queue.GetMessage();

    //If the message is not null, display it.
    if (msgRead != null)
    {
        //Display the message content.
    }
}
{  
    Console.WriteLine(msgRead.AsString);
    Console.WriteLine();

    //After reading the message, the client should
    queue.DeleteMessage(msgRead);
}
else
{
    Console.WriteLine("The queue contains no messages.");
    Console.WriteLine();
}

//Get up to 10 messages from the queue.
foreach (var msg in queue.GetMessages(10))
{
    Console.WriteLine(msg.AsString);
    queue.DeleteMessage(msg);
}
Remarks

The maximum time-to-live allowed is 7 days.

The **AddMessage** method adds a message to the back of the queue.

A message can be up to 64 KB in size for SDK version 1.6 or newer, or 8 KB in size for older SDK versions. The storage client library encodes the message content using Base64 when **EncodeMessage** is set to **true**, its default. Encode messages if message content can contain characters that are invalid in XML.

**Note**

Encoding with Base64 adds overhead to the message size. You can use **Convert.ToString()** to verify content encoded with Base64 fits within the 64 KB message size limit.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.BeginAddMessage Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<tr>
<td><code>CloudQueue.BeginAddMessage(CloudQueueMessage, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to add a message to the queue.</td>
</tr>
<tr>
<td><code>CloudQueue.BeginAddMessage(CloudQueueMessage, Nullable, Nullable, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to add a message to the queue, with a value specifying its expiration (the length of time it can remain in the queue), and a value specifying how long it must first remain invisible (delayed visibility).</td>
</tr>
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<td><code>CloudQueue.BeginAddMessage(CloudQueueMessage, TimeSpan, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to add a message to the queue, with a value specifying how long it can remain in the queue.</td>
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See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
### CloudQueue.BeginAddMessage Method (CloudQueueMessage, AsyncCallback, Object)

**See Also**  Example

| ![Image] | ![Image] |

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.]

Begins an asynchronous operation to add a message to the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudQueue
Dim message As CloudQueueMessage
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginAddMessage(message, callback)
```
## Syntax

### Visual Basic

```vbnet
Public Function BeginAddMessage ( _
    message As CloudQueueMessage, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginAddMessage (  
    CloudQueueMessage message,  
    AsyncCallback callback,  
    Object state
)
```

### C++

```cpp
public:  
    IAsyncResult^ BeginAddMessage (  
        CloudQueueMessage^ message,  
        AsyncCallback^ callback,  
        Object^ state
    )
```

### J#

```jsharp```

### JScript

```
```

## Parameters

- **message**
Type: `Microsoft.WindowsAzure.StorageClient.CloudQueueMessage`

A message.

`callback`
Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.

`state`
Type: `System.Object`

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the asynchronous operation.
The following code example illustrates using state when making an asynchronous call.

```javascript
using System;
using Microsoft.WindowsAzure;
using Microsoft.WindowsAzure.StorageClient;

namespace QueueAsyncExample
{
    public class QueueAsyncStateExample
    {
        public CloudQueue queueObject;
        public object customStateInformation;

        // Constructor for the example state class
        public QueueAsyncStateExample(CloudQueue queue, object yourAdditionalStateObject)
        {
            this.queueObject = queue;
            this.customStateInformation = yourAdditionalStateObject;
        }

        // Static call that starts adding a message with no delay for visibility and no expiration
        static void AddMessageAsync(string messageString, CloudQueue queue, object stateObject)
        {
            queue.BeginAddMessage(new CloudQueueMessage(messageString), QueueAddMessageCallback,
                                   new QueueAsyncStateExample(queue, stateObject));
        }

        // Static call that starts adding a message and specifies how long the message should stay in the queue before being deleted (its "time to live")
        static void AddMessageAsync(string msgString, TimeSpan messageTimeToLive,
                                     CloudQueue queue, object stateObject)
        {
            queue.BeginAddMessage(new CloudQueueMessage(msgString),
                                   QueueAddMessageCallback, new QueueAsyncStateExample(queue, stateObject), messageTimeToLive);
        }
    }
}
```
CloudQueue queue, object stateObject

{ queue.BeginAddMessage( new CloudQueueMessage( msgString ), messageTimeToLive, QueueAddMessageCallback, new QueueAsyncStateExample( queue, stateObject ) );

} // Static call that starts adding a message
  // and specifies how long the message should stay
  // and specifies how long to wait before the message
static void AddMessageAsync( string messageString, TimeSpan msgTimeToLive, TimeSpan timeBeforeMessageIsVisible, CloudQueue queue, object stateObject )

{ queue.BeginAddMessage( new CloudQueueMessage( messageString ), msgTimeToLive, timeBeforeMessageIsVisible, QueueAddMessageCallback, new QueueAsyncStateExample( queue, stateObject ) );

} // The callback method that is called once the add-
static void QueueAddMessageCallback( IAsyncResult opResult )

{
  QueueAsyncStateExample state = (QueueAsyncStateExample)opResult.AsyncState;
  CloudQueue queue = state.queueObject;
  // End the BeginAddMessage operation
  queue.EndAddMessage( opResult );
  // ...other asynchronous operations could be started

}
Remarks

The **BeginAddMessage** method begins an operation to add a message to the back of the queue. However, because the operation is asynchronous, do not rely on the order in which messages are added to the queue.

A message can be up to 64 KB in size for SDK version 1.6 or newer, or 8 KB in size for older SDK versions. The storage client library encodes the message content using Base64 when **EncodeMessage** is set to **true**, its default. Encode messages if message content can contain characters that are invalid in XML.

*Note*

Encoding with Base64 adds overhead to the message size. You can use [Convert.ToBase64String()](https://docs.microsoft.com/en-us/dotnet/api/system.convert.tostring) to verify content encoded with Base64 fits within the 64 KB message size limit.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.BeginAddMessage Method (CloudQueueMessage, Nullable, Nullable, AsyncCallback, Object)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to add a message to the queue, with a value specifying its expiration (the length of time it can remain in the queue), and a value specifying how long it must first remain invisible (delayed visibility).

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbscript
Dim instance As CloudQueue
Dim message As CloudQueueMessage
Dim timeToLive As Nullable(Of TimeSpan)
Dim initialVisibilityDelay As Nullable(Of TimeSpan)
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginAddMessage(message, timeToLive, initialVisibilityDelay, callback, state)
```
<table>
<thead>
<tr>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>
| Public Function BeginAddMessage ( _
  message As CloudQueueMessage, _
  timeToLive As Nullable(Of TimeSpan), _
  initialVisibilityDelay As Nullable(Of TimeSpan),
  callback As AsyncCallback, _
  state As Object _
) As IAsyncResult |
| **C#** |
| public IAsyncResult BeginAddMessage ( CloudQueueMessage message,
  Nullable<TimeSpan> timeToLive,
  Nullable<TimeSpan> initialVisibilityDelay,
  AsyncCallback callback,
  Object state ) |
| **C++** |
| public:
  IAsyncResult^ BeginAddMessage ( CloudQueueMessage^ message,
  Nullable<TimeSpan> timeToLive,
  Nullable<TimeSpan> initialVisibilityDelay,
  AsyncCallback^ callback,
  Object^ state ) |
| **J#** |
|  
|  
|
**Parameters**

*message*
A queue message.

*timeToLive*
A value indicating the message time-to-live.

*initialVisibilityDelay*
The visibility delay for the message.

*callback*
The callback delegate that will receive notification when the asynchronous operation completes.

*state*
A user-defined object that will be passed to the callback delegate.

**Return Value**

An **IAsyncResult** that references the asynchronous operation.
The following code example illustrates using state when making an asynchronous call.

```csharp
using System;
using Microsoft.WindowsAzure;
using Microsoft.WindowsAzure.StorageClient;

namespace QueueAsyncExample
{
    public class QueueAsyncStateExample
    {
        public CloudQueue queueObject;
        public object customStateInformation;

        // Constructor for the example state class
        public QueueAsyncStateExample(CloudQueue queue, object yourAdditionalStateObject)
        {
            this.queueObject = queue;
            this.customStateInformation = yourAdditionalStateObject;
        }

        // Static call that starts adding a message without delay for visibility and no expiration
        static void AddMessageAsync(string messageString, CloudQueue queue, object stateObject)
        {
            queue.BeginAddMessage(new CloudQueueMessage(messageString), QueueAddMessageCallback, new QueueAsyncStateExample(queue, stateObject));
        }

        // Static call that starts adding a message and specifies how long the message should stay in the queue before being deleted (its "time to live")
        static void AddMessageAsync(string msgString, TimeSpan messageTimeToLive,
```

```csharp
```
CloudQueue queue, object stateObject
{
    queue.BeginAddMessage( new CloudQueueMessage( msgString ),
        messageTimeToLive, QueueAddMessageCallback,
        new QueueAsyncStateExample( queue, stateObject ) );
}

// Static call that starts adding a message
// and specifies how long the message should stay
// and specifies how long to wait before the message
static void AddMessageAsync( string messageString,
    TimeSpan msgTimeToLive,
    TimeSpan timeBeforeMessageIsVisible,
    CloudQueue queue, object stateObject )
{
    queue.BeginAddMessage( new CloudQueueMessage( messageString ),
        msgTimeToLive, timeBeforeMessageIsVisible,
        QueueAddMessageCallback, new QueueAsyncStateExample( queue, stateObject ) );
}

// The callback method that is called once the add-message
// operation is complete
static void QueueAddMessageCallback( IAsyncResult opResult )
{
    QueueAsyncStateExample state = (QueueAsyncStateExample)opResult.AsyncState;
    CloudQueue queue = state.queueObject;
    // End the BeginAddMessage operation
    queue.EndAddMessage( opResult );
    // ...other asynchronous operations could be started
}
}
Remarks

The **BeginAddMessage** method adds a method to the back of the queue. However, because the operation is asynchronous, do not rely on the order in which messages are added to the queue.

A message can be up to 64 KB in size for SDK version 1.6 or newer, or 8 KB in size for older SDK versions. The storage client library encodes the message content using Base64 when **EncodeMessage** is set to **true**, its default. Encode messages if message content can contain characters that are invalid in XML.

**Note**

Encoding with Base64 adds overhead to the message size. You can use **Convert.ToBase64String()** to verify content encoded with Base64 fits within the 64 KB message size limit.

The message visibility delay specifies the time that the message will be invisible. After the delay expires, the message will become visible.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.BeginAddMessage Method (CloudQueueMessage, TimeSpan, AsyncCallback, Object)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to add a message to the queue, with a value specifying how long it can remain in the queue.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

### Visual Basic

```vbnet
Dim instance As CloudQueue
Dim message As CloudQueueMessage
Dim timeToLive As TimeSpan
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginAddMessage(message, timeToLive, callback, state)
```

## Syntax

### Visual Basic

```vbnet
Public Function BeginAddMessage ( _
    message As CloudQueueMessage, _
    timeToLive As TimeSpan, _
    callback As AsyncCallback, _
    state As Object _) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginAddMessage (  
    CloudQueueMessage message,  
    TimeSpan timeToLive, 
    AsyncCallback callback,  
    Object state 
)
```

### C++

```cpp
public:  
IAasyncResult^ BeginAddMessage (  
    CloudQueueMessage^ message,  
    TimeSpan^ timeToLive,   
    AsyncCallback^ callback,  
    Object^ state  
)
```

### J#

```jscript

```

### JScript

```jscript

```
Parameters

message
Type: Microsoft.WindowsAzure.StorageClient.CloudQueueMessage

A message.

timeToLive
Type: System.TimeSpan

A value indicating the message time-to-live.

callback
Type: System.AsyncCallback

The callback delegate that will receive notification when the asynchronous operation completes.

state
Type: System.Object

A user-defined object that will be passed to the callback delegate.

Return Value

Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
Example

The following code example illustrates using state when making an asynchronous call.

```csharp
using System;
using Microsoft.WindowsAzure;
using Microsoft.WindowsAzure.StorageClient;

class QueueAsyncStateExample

namespace QueueAsyncExample
{
    public class QueueAsyncStateExample
    {
        public CloudQueue queueObject;
        public object customStateInformation;

        public QueueAsyncStateExample(CloudQueue queue, object stateObject)
        {
            this.queueObject = queue;
            this.customStateInformation = stateObject;
        }

        static void AddMessageAsync(string messageString)
        {
            queue.BeginAddMessage(new CloudQueueMessage(messageString),
                                QueueAddMessageCallback,
                                new QueueAsyncStateExample(queue, stateObject));
        }

        static void AddMessageAsync(string msgString,
                                    TimeSpan messageTimeToLive,
                                    object additionalStateInformation)
        {
            queue.BeginAddMessage(new CloudQueueMessage(msgString),
                                QueueAddMessageCallback,
                                new QueueAsyncStateExample(queue, additionalStateInformation));
        }
    }
}
```
CloudQueue queue, object stateObject
{
    queue.BeginAddMessage( new CloudQueueMessage( msgString ), messageTimeToLive, QueueAddMessageCallback, new QueueAsyncStateExample( queue, stateObject ) );
}

// Static call that starts adding a message
// and specifies how long the message should stay
// and specifies how long to wait before the message can be retrieved from the queue
static void AddMessageAsync( string messageString, TimeSpan msgTimeToLive, TimeSpan timeBeforeMessageIsVisible, CloudQueue queue, object stateObject )
{
    queue.BeginAddMessage( new CloudQueueMessage( messageString ), msgTimeToLive, timeBeforeMessageIsVisible, QueueAddMessageCallback, new QueueAsyncStateExample( queue, stateObject ) );
}

// The callback method that is called once the add-message operation is complete
static void QueueAddMessageCallback( IAsyncResult opResult )
{
    QueueAsyncStateExample state = (QueueAsyncStateExample)opResult.AsyncState;
    CloudQueue queue = state.queueObject;
    // End the BeginAddMessage operation
    queue.EndAddMessage( opResult );
    // ...other asynchronous operations could be started here
}
}
Remarks

The **BeginAddMessage** method begins an operation to add a message to the back of the queue. However, because the operation is asynchronous, do not rely on the order in which messages are added to the queue.

A message can be up to 64 KB in size for SDK version 1.6 or newer, or 8 KB in size for older SDK versions. The storage client library encodes the message content using Base64 when **EncodeMessage** is set to **true**, its default. Encode messages if message content can contain characters that are invalid in XML.

**Note**

Encoding with Base64 adds overhead to the message size. You can use **Convert.ToBase64String()** to verify content encoded with Base64 fits within the 64 KB message size limit.
[Thread Safety]

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference

CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.BeginClear Method

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to clear all messages from the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

**Visual Basic**

```
Dim instance As CloudQueue
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginClear(callback, state)
```
### Syntax

#### Visual Basic

```vbnet
Public Function BeginClear (callback As AsyncCallback, state As Object) As IAsyncResult
```

#### C#

```csharp
public IAsyncResult BeginClear (AsyncCallback callback, Object state)
```

#### C++

```cpp
public: 
IAsyncResult ^ BeginClear (AsyncCallback ^ callback, Object ^ state)
```

#### J#

```csharp
```

#### JScript

```csharp
```

### Parameters

**callback**

Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.
state
Type: System.Object

A user-defined object that will be passed to the callback delegate.

Return Value

Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
Example

The following code example illustrates using state when calling `BeginClear`.

```csharp
using System;
using Microsoft.WindowsAzure;
using Microsoft.WindowsAzure.StorageClient;

namespace QueueAsyncExample
{
    public class QueueAsyncStateExample
    {
        public CloudQueue queueObject;
        public object customStateInformation;

        // Constructor for the example state class
        public QueueAsyncStateExample(CloudQueue queue, object stateObject)
        {
            this.queueObject = queue;
            this.customStateInformation = stateObject;
        }

        // Static call that starts clearing the queue
        static void ClearQueueAsync(CloudQueue queue, object stateObject)
        {
            queue.BeginClear(QueueClearCallback, new QueueAsyncStateExample(queue, stateObject));
        }

        // The callback method that is called once the clear operation is complete
        static void QueueClearCallback(IAsyncResult operationResult)
        {
            QueueAsyncStateExample state = (QueueAsyncStateExample)operationResult.AsyncState;
            CloudQueue queue = state.queueObject;
            // End the BeginClear operation
        }
    }
}
```
queue.EndClear(opResult);
// ...other asynchronous operations could be started
}
}
Remarks

The **BeginClear** method begins an operation to clear all messages from the queue.

If a queue contains a large number of messages, the operation may time out before all messages have been deleted. If the operation times out, the client should retry the operation until it succeeds, to ensure that all messages have been deleted.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.BeginCreate Method

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to create a queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

### Visual Basic

```vbnet
Dim instance As CloudQueue
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginCreate(callback, state)
```
**Syntax**

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| Visual Basic | ```
Public Function BeginCreate (_
    callback As AsyncCallback,
    state As Object 
) As IAsyncResult
``` |
| C# | ```
public IAsyncResult BeginCreate (
    AsyncCallback callback,
    Object state
)
``` |
| C++ | ```
public:
IAsyncResult^ BeginCreate ( 
    AsyncCallback^ callback,
    Object^ state
)
``` |
| J# |  |
| JScript |  |

**Parameters**

*callback*

Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.
state
Type: System.Object

A user-defined object that will be passed to the callback delegate.

Return Value
Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
Example

The following code example illustrates using state when calling BeginCreate.

C#

```csharp
using System;
using Microsoft.WindowsAzure;
using Microsoft.WindowsAzure.StorageClient;

namespace QueueAsyncExample
{
    public class QueueAsyncStateExample
    {
        public CloudQueue queueObject;
        public object customStateInformation;

        // Constructor for the example state class
        public QueueAsyncStateExample(CloudQueue queue, object yourAdditionalStateObject)
        {
            this.queueObject = queue;
            this.customStateInformation = yourAdditionalStateObject;
        }

        // Static call that starts creating a queue (the queue should not already exist)
        // -----------------------------
        // IMPORTANT NOTE
        // -----------------------------
        // The form of a queue name is constrained as follows:
        // -- It must ONLY contain lowercase letters, numbers, and hyphens.
        // -- It must be between 3 and 63 characters long.
        // -- It must begin and end with a lowercase letter or number.
        // -- It may NOT contain contiguous hyphens ("--").
        static CloudQueue CreateQueueAsync(string queueName, CloudQueueClient queueClient, object stateObject)
        {
            CloudQueue queue = queueClient.GetQueueReference(queueName);
            // Additional code...
        }
    }
}
```
queue.BeginCreate( QueueCreateCallback,
    new QueueAsyncStateExample( queue, stateObject ) );
    return ( queue ); // (note that the queue creation is not yet complete!)

// The callback method that is called once the create operation is complete
static void QueueCreateCallback( IAsyncResult opResult )
{
    QueueAsyncStateExample state = (QueueAsyncStateExample) opResult.AsyncState;
    CloudQueue queue = state.queueObject;
    // End the BeginCreate operation
    queue.EndCreate( opResult );
    // ...other asynchronous operations could be started

}
You can specify user-defined metadata on the queue at the time that it is created.
To specify metadata for the queue, add name-value pairs to the queue's Metadata.

For guidance about valid names for queues and metadata, see Naming Queues and Metadata.
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
Begins an asynchronous operation to create the queue if it does not exist.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudQueue
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginCreateIfNotExists(callback)
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Function BeginCreateIfNotExist ( _ callback As AsyncCallback, _ state As Object _ ) As IAsyncResult</td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public IAsyncResult BeginCreateIfNotExist ( AsyncCallback callback, Object state )</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public: IAsyncResult^ BeginCreateIfNotExist ( AsyncCallback^ callback, Object^ state )</td>
</tr>
</tbody>
</table>
| **J#** | **JScript** | Parameters

**callback**

Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.
**state**
Type: **System.Object**

A user-defined object that will be passed to the callback delegate.

**Return Value**
Type: **System.IAsyncResult**

An **IAsyncResult** that references the asynchronous operation.
Example

The following code example illustrates using state when calling
BeginCreateIfNotExist.

C#

```csharp
using System;
using System.Diagnostics;
using Microsoft.WindowsAzure;
using Microsoft.WindowsAzure.StorageClient;

namespace QueueAsyncExample
{
    public class QueueAsyncStateExample
    {
        public CloudQueue queueObject;
        public object customStateInformation;

        // Constructor for the example state class
        public QueueAsyncStateExample(CloudQueue queue, object yourAdditionalStateObject)
        {
            this.queueObject = queue;
            this.customStateInformation = yourAdditionalStateObject;
        }

        // Static call that starts creating a queue if it
        // (the 'queue' parameter is a CloudQueue reference)
        static void CreateQueueIfNotExistAsync(CloudQueue queue, object stateObject)
        {
            queue.BeginCreateIfNotExist(QueueCreateIfNotExistCallback,
                                          new QueueAsyncStateExample(queue, stateObject));
        }

        // The callback method that is called once the create-if-not-exist
        // operation is complete
        static void QueueCreateIfNotExistCallback(IAsyncResult iarResult)
        {
        }
    }
}
```
QueueAsyncStateExample state = (QueueAsyncStateExample) topResult.AsyncState;
CloudQueue queue = state.queueObject;
// End the BeginCreateIfNotExist operation
string yesNo = ( queue.EndCreateIfNotExist( opCompletion ) ) ? "actually" : "not";
Trace.WriteLine( string.Format( "The '{0}' queue was {1} created...", queue.Name, yesNo ) );
// ...other asynchronous operations could be started...
Remarks

You can specify user-defined metadata on the queue at the time that it is created. To specify metadata for the queue, add name-value pairs to the queue's Metadata.

For guidance about valid names for queues and metadata, see Naming Queues and Metadata.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.BeginDelete Method

Begins an asynchronous operation to delete the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
**Usage**

**Visual Basic**

Dim instance As CloudQueue
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginDelete(callback, state)
### Syntax

#### Visual Basic

```vbnet
Public Function BeginDelete ( _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

#### C#

```csharp
public IAsyncResult BeginDelete (  
    AsyncCallback callback,  
    Object state
)
```

#### C++

```cpp
public:  
IAasyncResult^ BeginDelete (  
    AsyncCallback^ callback,  
    Object^ state
)
```

#### J#

```
```

#### JScript

```
```

### Parameters

**callback**

Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.
state
Type: System.Object

A user-defined object that will be passed to the callback delegate.

Return Value
Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
Example

The following code example illustrates using state when calling `BeginDelete`.

```csharp
using System;
using System.Diagnostics;
using Microsoft.WindowsAzure;
using Microsoft.WindowsAzure.StorageClient;

namespace QueueAsyncExample
{
    public class QueueAsyncStateExample
    {
        public CloudQueue queueObject;
        public object customStateInformation;

        // Constructor for the example state class
        public QueueAsyncStateExample(CloudQueue queue, object yourAdditionalStateObject)
        {
            this.queueObject = queue;
            this.customStateInformation = yourAdditionalStateObject;
        }

        // Static call that starts deleting a queue
        static void DeleteQueueAsync(CloudQueue queue, object stateObject)
        {
            queue.BeginDelete(QueueDeleteCallback, new QueueAsyncStateExample(queue, stateObject));
        }

        // The callback method that is called once the create-if-not-exist operation is complete
        static void QueueDeleteCallback(IAsyncResult operationResult)
        {
            QueueAsyncStateExample state = (QueueAsyncStateExample)operationResult.AsyncState;
            CloudQueue queue = state.queueObject;
        }
    }
}
```
// End the BeginDelete operation
queue.EndDelete( opResult );
// ...other asynchronous operations could be started...
Remarks

Note that when you delete a queue, there may be an interval of time of at least 5 seconds during which you cannot create a queue with the same name.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

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<tr>
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<th>Description</th>
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</thead>
<tbody>
<tr>
<td><code>CloudQueue.BeginDeleteMessage(CloudQueueMessage, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to delete a message.</td>
</tr>
<tr>
<td><code>CloudQueue.BeginDeleteMessage(String, String, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to delete a message, using the message ID, and the pop receipt value.</td>
</tr>
</tbody>
</table>
See Also

Reference

CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to delete a message.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

Dim instance As CloudQueue
Dim message As CloudQueueMessage
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginDeleteMessage(message, callback)
| Syntax   |  |
|----------|  |
| Visual Basic | Public Function BeginDeleteMessage ( _  
|             |  
|             | message As CloudQueueMessage, _  
|             | callback As AsyncCallback, _  
|             | state As Object _  
|             | ) As IAsyncResult |
| C#        | public IAsyncResult BeginDeleteMessage (  
|          | CloudQueueMessage message,  
|          | AsyncCallback callback,  
|          | Object state  
|          | ) |
| C++       | public:  
|          | IAsyncResult^ BeginDeleteMessage (  
|          | CloudQueueMessage^ message,  
|          | AsyncCallback^ callback,  
|          | Object^ state  
|          | ) |
| J#        |  |
| JScript   |  |

**Parameters**

*message*
Type: `Microsoft.WindowsAzure.StorageClient.CloudQueueMessage`

A message.

`callback`
Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.

`state`
Type: `System.Object`

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the asynchronous operation.
Remarks

After a client retrieves a message by calling the `BeginGetMessage` or `BeginGetMessages` method, the client is expected to process and delete the message. When a message is retrieved, its `PopReceipt` property is set to an opaque value that indicates that the message has been read. The value of the message's pop receipt is used to verify that the message being deleted is the same message that was read.

After a client retrieves a message, that message is reserved for deletion until the date and time indicated by the message's `NextVisibleTime` property, and no other client may retrieve the message during that time interval. If the message is not deleted before the time specified by the `NextVisibleTime` property, it again becomes visible to other clients. If the message is not subsequently retrieved and deleted by another client, the client that retrieved it can still delete it. If another client does retrieve it, then the first client can no longer delete it.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.BeginDeleteMessage Method (String, String, AsyncCallback, Object)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to delete a message, using the message ID, and the pop receipt value.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudQueue
Dim messageId As String
Dim popReceipt As String
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginDeleteMessage(messageId,
### Syntax

#### Visual Basic

Public Function BeginDeleteMessage (_
    messageId As String, _
    popReceipt As String, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult

#### C#

public IAsyncResult BeginDeleteMessage ( _
    string messageId, _
    string popReceipt, _
    AsyncCallback callback, _
    Object state _
)

#### C++

public:
IAsyncResult^ BeginDeleteMessage ( _
    String^ messageId, _
    String^ popReceipt, _
    AsyncCallback^ callback, _
    Object^ state _
)

#### J# and JScript

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>

Parameters

messageId
Type: System.String
The message ID.

popReceipt
Type: System.String
The pop receipt value.

callback
Type: System.AsyncCallback
The callback delegate that will receive notification when the asynchronous operation completes.

state
Type: System.Object
A user-defined object that will be passed to the callback delegate.

Return Value

Type: System.IAsyncResult
An IAsyncResult that references the asynchronous operation.
Remarks

After a client retrieves a message by calling the `BeginGetMessage` or `BeginGetMessages` method, the client is expected to process and delete the message. When a message is retrieved, its `PopReceipt` property is set to an opaque value that indicates that the message has been read. The value of the message's pop receipt is used to verify that the message being deleted is the same message that was read.

After a client retrieves a message, that message is reserved for deletion until the date and time indicated by the message's `NextVisibleTime` property, and no other client may retrieve the message during that time interval. If the message is not deleted before the time specified by the `NextVisibleTime` property, it again becomes visible to other clients. If the message is not subsequently retrieved and deleted by another client, the client that retrieved it can still delete it. If another client does retrieve it, then the first client can no longer delete it.
Thread Safety

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
**CloudQueue.BeginExists Method**

**See Also**

---

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.]

Begins an asynchronous operation to determine whether the queue exists.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As CloudQueue
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginExists(callback, state)
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Public Function BeginExists ( _
| callback As AsyncCallback, _
| state As Object _) |
| As IAsyncResult |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public IAsyncResult BeginExists (</td>
</tr>
<tr>
<td>AsyncCallback callback,</td>
</tr>
<tr>
<td>Object state</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public:</td>
</tr>
<tr>
<td>IAsyncResult^ BeginExists (</td>
</tr>
<tr>
<td>AsyncCallback^ callback,</td>
</tr>
<tr>
<td>Object^ state</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parameters</td>
</tr>
</tbody>
</table>

*callback*

Type: System AsyncCallback

The callback delegate that will receive notification when the asynchronous operation completes.
state
Type: System.Object

A user-defined object that will be passed to the callback delegate.

Return Value
Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.BeginFetchAttributes Method

See Also

This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.

Begins an asynchronous operation to fetch the queue's attributes.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As CloudQueue
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginFetchAttributes(callback,
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Public Function BeginFetchAttributes (_
  callback As AsyncCallback, _
  state As Object _)  |
|             | As IAsyncResult |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public IAsyncResult BeginFetchAttributes (</td>
</tr>
<tr>
<td>AsyncCallback callback,</td>
</tr>
<tr>
<td>Object state</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public:</td>
</tr>
<tr>
<td>IAsyncResult^ BeginFetchAttributes (</td>
</tr>
<tr>
<td>AsyncCallback^ callback,</td>
</tr>
<tr>
<td>Object^ state</td>
</tr>
<tr>
<td>)</td>
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<tr>
<th>JScript</th>
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<td></td>
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</tbody>
</table>

## Parameters

- **callback**
  
  Type: [System.AsyncCallback](Link)

  The callback delegate that will receive notification when the asynchronous operation completes.
state
Type: System.Object

A user-defined object that will be passed to the callback delegate.

Return Value

Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
Remarks

The **FetchAttributes** method begins an operation to populate the queue's user-defined metadata. Before reading a queue's metadata, you should always call the **FetchAttributes** method to retrieve the latest metadata values for the queue from the service.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.BeginGetMessage Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
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<tbody>
<tr>
<td>CloudQueue.BeginGetMessage (AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to get a single message from the queue.</td>
</tr>
<tr>
<td>CloudQueue.BeginGetMessage (TimeSpan, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to get a single message from the queue, and specifies how long it should be reserved before it becomes visible, and therefore available for deletion.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
Begins an asynchronous operation to get a single message from the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudQueue
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginGetMessage(callback, state)
## Syntax

### Visual Basic

```vbnet
Public Function BeginGetMessage (  
    callback As AsyncCallback,  
    state As Object  
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginGetMessage (  
    AsyncCallback callback,  
    Object state
)
```

### C++

```c++
public:  
IAsyncResult^ BeginGetMessage (  
    AsyncCallback^ callback,  
    Object^ state
)
```

### J#

```csharp
```

### JScript

```javascript
```

## Parameters

**callback**

*Type: System.AsyncCallback*

The callback delegate that will receive notification when the asynchronous operation completes.
**state**

Type: `System.Object`

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the asynchronous operation.
Remarks

The **BeginGetMessage** method begins an operation to retrieve a single message from the queue. After a message has been retrieved, it should be deleted from the queue.

When a message is retrieved from the queue, its **NextVisibleTime** and **PopReceipt** properties are updated with values provided by the service. The **NextVisibleTime** indicates the next time that the message will be available to be read, if it is not deleted by the client that retrieved it; by default this value is set to 30 seconds after the time that the message was retrieved.

The **PopReceipt** value indicates that the message has been read and is used to verify that the message being deleted is the same one that was retrieved.

After a client retrieves a message, that message is reserved for deletion until the date and time indicated by the message's **NextVisibleTime** property, and no other client may retrieve the message during that time interval. If the message is not deleted before the time specified by the **NextVisibleTime** property, it again becomes visible to other clients. If the message is not subsequently retrieved and deleted by another client, the client that retrieved it can still delete it.

When a message is retrieved for the first time, its **DequeueCount** property is set to 1. If it is not deleted and is subsequently retrieved again, the **DequeueCount** property is incremented. The client may use this value to determine how many times a message has been retrieved.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
Begins an asynchronous operation to get a single message from the queue, and specifies how long it should be reserved before it becomes visible, and therefore available for deletion.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

#### Visual Basic

Dim instance As CloudQueue
Dim visibilityTimeout As TimeSpan
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginGetMessage(visibilityTimeout...
## Syntax

### Visual Basic

```vbnet
Public Function BeginGetMessage ( _
    visibilityTimeout As TimeSpan, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginGetMessage ( 
    TimeSpan visibilityTimeout, 
    AsyncCallback callback, 
    Object state
)
```

### C++

```cpp
public: 
IASyncResult^ BeginGetMessage ( 
    TimeSpan visibilityTimeout, 
    AsyncCallback^ callback, 
    Object^ state
)
```

### J#

```jsharp```

### JScript

```javascript```

### Parameters

- `visibilityTimeout`
Type: `System.TimeSpan`

The visibility timeout interval.

**callback**

Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.

**state**

Type: `System.Object`

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the asynchronous operation.
Remarks

The **BeginGetMessage** method begins an operation to retrieve a single message from the queue. After a message has been retrieved, it should be deleted from the queue.

When a message is retrieved from the queue, its **NextVisibleTime** and **PopReceipt** properties are updated with values provided by the service. The **NextVisibleTime** indicates the next time that the message will be available to be read, if it is not deleted by the client that retrieved it. This value is calculated by adding the value of the **visibilityTimeout** parameter to the time at which the message was retrieved. The maximum value that may be specified for the **visibilityTimeout** parameter is two hours.

The **PopReceipt** value indicates that the message has been read and is used to verify that the message being deleted is the same one that was retrieved.

After a client retrieves a message, that message is reserved for deletion until the date and time indicated by the message's **NextVisibleTime** property, and no other client may retrieve the message during that time interval. If the message is not deleted before the time specified by the **NextVisibleTime** property, it again becomes visible to other clients. If the message is not subsequently retrieved and deleted by another client, the client that retrieved it can still delete it.

When a message is retrieved for the first time, its **DequeueCount** property is set to 1. If it is not deleted and is subsequently retrieved again, the **DequeueCount** property is incremented. The client may use this value to determine how many times a message has been retrieved.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.BeginGetMessages Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
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<tbody>
<tr>
<td><code>CloudQueue.BeginGetMessages(Int32, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to get messages from the queue.</td>
</tr>
<tr>
<td><code>CloudQueue.BeginGetMessages(Int32, TimeSpan, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to get messages from the queue, and specifies how long they should be reserved before becoming visible, and therefore available for deletion.</td>
</tr>
</tbody>
</table>
See Also

Reference

CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
Begins an asynchronous operation to get messages from the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
```visualbasic
Dim instance As CloudQueue
Dim messageCount As Integer
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginGetMessages(messageCount,
                                          callback, state, state)
```
## Syntax

### Visual Basic

```vbnet
Public Function BeginGetMessages ( 
    messageCount As Integer, 
    callback As AsyncCallback, 
    state As Object _
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginGetMessages ( 
    int messageCount, 
    AsyncCallback callback, 
    Object state
)
```

### C++

```cpp
public:
IAsyncResult^ BeginGetMessages ( 
    int messageCount, 
    AsyncCallback^ callback, 
    Object^ state
)
```

### J#

```csharp
```

### JScript

```csharp
```

### Parameters

- `messageCount`
Type: `System.Int32`

The number of messages to retrieve.

`callback`
Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.

`state`
Type: `System.Object`

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the asynchronous operation.
Remarks

The **BeginGetMessages** method begins an operation to retrieve a specified number of messages from the queue. The maximum number of messages that may be retrieved with a single call to **BeginGetMessages** is 32.

After messages have been retrieved, they should be deleted from the queue.

When a message is retrieved from the queue, its **NextVisibleTime** and **PopReceipt** properties are updated with values provided by the service. The **NextVisibleTime** indicates the next time that the message will be available to be read, if it is not deleted by the client that retrieved it; by default this value is set to 30 seconds after the time that the message was retrieved.

The **PopReceipt** value indicates that the message has been read and is used to verify that the message being deleted is the same one that was retrieved.

After a client retrieves a message, that message is reserved for deletion until the date and time indicated by the message's **NextVisibleTime** property, and no other client may retrieve the message during that time interval. If the message is not deleted before the time specified by the **NextVisibleTime** property, it again becomes visible to other clients. If the message is not subsequently retrieved and deleted by another client, the client that retrieved it can still delete it.

When a message is retrieved for the first time, its **DequeueCount** property is set to 1. If it is not deleted and is subsequently retrieved again, the **DequeueCount** property is incremented. The client may use this value to determine how many times a message has been retrieved.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.BeginGetMessages Method (Int32, TimeSpan, AsyncCallback, Object)

See Also

This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.

Begins an asynchronous operation to get messages from the queue, and specifies how long they should be reserved before becoming visible, and therefore available for deletion.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As CloudQueue
Dim messageCount As Integer
Dim visibilityTimeout As TimeSpan
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginGetMessages(messageCount,
```
## Syntax

### Visual Basic

```vbnet
Public Function BeginGetMessages (_
    messageCount As Integer, _
    visibilityTimeout As TimeSpan, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginGetMessages (
    int messageCount,
    TimeSpan visibilityTimeout,
    AsyncCallback callback,
    Object state
)
```

### C++

```cpp
public:
    IAsyncResult^ BeginGetMessages ( 
        int messageCount, 
        TimeSpan visibilityTimeout, 
        AsyncCallback^ callback, 
        Object^ state 
    )
```
**Parameters**

*messageCount*
Type: `System.Int32`

The number of messages to retrieve.

*visibilityTimeout*
Type: `System.TimeSpan`

The visibility timeout interval.

*callback*
Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.

*state*
Type: `System.Object`

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the asynchronous operation.
Remarks

The **BeginGetMessages** method begins an operation to retrieve a specified number of messages from the queue. The maximum number of messages that may be retrieved with a single call to **BeginGetMessages** is 32.

After messages have been retrieved, they should be deleted from the queue.

When a message is retrieved from the queue, its **NextVisibleTime** and **PopReceipt** properties are updated with values provided by the service. The **NextVisibleTime** indicates the next time that the message will be available to be read, if it is not deleted by the client that retrieved it; by default this value is set to 30 seconds after the time that the message was retrieved.

The **PopReceipt** value indicates that the message has been read and is used to verify that the message being deleted is the same one that was retrieved.

After a client retrieves a message, that message is reserved for deletion until the date and time indicated by the message's **NextVisibleTime** property, and no other client may retrieve the message during that time interval. If the message is not deleted before the time specified by the **NextVisibleTime** property, it again becomes visible to other clients. If the message is not subsequently retrieved and deleted by another client, the client that retrieved it can still delete it.

When a message is retrieved for the first time, its **DequeueCount** property is set to 1. If it is not deleted and is subsequently retrieved again, the **DequeueCount** property is incremented. The client may use this value to determine how many times a message has been retrieved.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.BeginPeekMessage Method

See Also

This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.

Begins an asynchronous operation to peek a message from the queue.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

#### Visual Basic

```vbnet
Dim instance As CloudQueue
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginPeekMessage(callback, state)
```
## Syntax

### Visual Basic

```vbc
Public Function BeginPeekMessage ( _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```cs
public IAsyncResult BeginPeekMessage (  
    AsyncCallback callback,  
    Object state  
)
```

### C++

```cpp
public:
    IAsyncResult^ BeginPeekMessage (  
    AsyncCallback^ callback,  
    Object^ state  
)
```

### J#

```jsharp
```

### JScript

```jscript
```

## Parameters

**callback**

Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.
**state**

Type: [System.Object](https://docs.microsoft.com/en-us/dotnet/api/system.object)

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: [System.IAsyncResult](https://docs.microsoft.com/en-us/dotnet/api/system.iasyncresult)

An [IAsyncResult](https://docs.microsoft.com/en-us/dotnet/api/system.iasyncresult) that references the asynchronous operation.
Remarks

When a message is retrieved from the queue using `BeginPeekMessage`, the message is not dequeued and the visibility of the message remains unchanged. The message remains available to other clients until a client retrieves the message with a call to `BeginGetMessage`. The call to `BeginPeekMessage` does not update the message's `PopReceipt` value, so the message cannot subsequently be deleted. Additionally, calling `BeginPeekMessage` does not update the message's `NextVisibleTime` or `DequeueCount` properties.

Only messages that are visible may be retrieved with `BeginPeekMessage`. 
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
Begins an asynchronous operation to peek a set of messages from the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudQueue
Dim messageCount As Integer
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginPeekMessages(messageCount)
```
### Syntax

**Visual Basic**

Public Function BeginPeekMessages ( _
    messageCount As Integer, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult

**C#**

public IAsyncResult BeginPeekMessages (  
    int messageCount,
    AsyncCallback callback,
    Object state
)

**C++**

public:  
IAsyncResult^ BeginPeekMessages (  
    int messageCount,
    AsyncCallback^ callback,
    Object^ state
)

**J#**


**JScript**


### Parameters

- `messageCount`
Type: `System.Int32`

The number of messages to retrieve.

*callback*

Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.

*state*

Type: `System.Object`

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the asynchronous operation.
Remarks

When messages are retrieved from the queue using `BeginPeekMessages`, the message is not dequeued and the visibility of the messages remains unchanged. The messages remain available to other clients until a client retrieves them with a call to `BeginGetMessages`. The call to `BeginPeekMessages` does not update a message's `PopReceipt` value, so the message cannot subsequently be deleted. Additionally, calling `BeginPeekMessages` does not update a message's `NextVisibleTime` or `DequeueCount` properties.

Only messages that are visible may be retrieved with `BeginPeekMessages`. The maximum number of messages that may be retrieved with a call to `BeginPeekMessages` is 32.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.BeginSetMetadata Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to set the queue's metadata.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

### Visual Basic

```vbnet
Dim instance As CloudQueue
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginSetMetadata(callback, state)
```
### Syntax

#### Visual Basic

```vbnet
Public Function BeginSetMetadata ( _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

#### C#

```csharp
public IAsyncResult BeginSetMetadata (AsyncCallback callback, Object state)
```

#### C++

```cpp
public:
IAsyncResult^ BeginSetMetadata (AsyncCallback^ callback, Object^ state)
```

#### J#

```csharp

```

#### JScript

```csharp

```

### Parameters

*callback*

*Type:* `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.
**state**

Type: [System.Object](https://docs.microsoft.com/en-us/dotnet/api/system.object)

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: [System.IAsyncResult](https://docs.microsoft.com/en-us/dotnet/api/system.iasyncresult)

An [IAsyncResult](https://docs.microsoft.com/en-us/dotnet/api/system.iasyncresult) that references the asynchronous operation.
Remarks

The **BeginSetMetadata** method writes the metadata values that are specified by the queue's **Metadata** property to the service. Note that setting the **Metadata** property sets metadata values on the queue reference only; you must call **SetMetadata** or **BeginSetMetadata** to write them to the service.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to update the visibility delay of a message, and optionally the contents of a message.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudQueue
Dim message As CloudQueueMessage
Dim visibilityTimeout As TimeSpan
Dim updateFields As MessageUpdateFields
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginUpdateMessage(message, visibilityTimeout, updateFields, callback, state)
```
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
<th>C#</th>
<th>C++</th>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Function BeginUpdateMessage ( _ message As CloudQueueMessage, _ visibilityTimeout As TimeSpan, _ updateFields As MessageUpdateFields, _ callback As AsyncCallback, _ state As Object _ ) As IAsyncResult</td>
<td>public IAsyncResult BeginUpdateMessage ( CloudQueueMessage message, TimeSpan visibilityTimeout, MessageUpdateFields updateFields, AsyncCallback callback, Object state )</td>
<td>public: IAsyncResult^ BeginUpdateMessage ( CloudQueueMessage^ message, TimeSpan visibilityTimeout, MessageUpdateFields^ updateFields, AsyncCallback^ callback, Object^ state )</td>
<td></td>
</tr>
</tbody>
</table>
JScript

Parameters

message
A queue message.

visibilityTimeout
The visibility delay for the message.

updateFields
Indicates whether to update the visibility delay, message contents, or both.

callback
The callback delegate that will receive notification when the asynchronous operation completes.

state
A user-defined object that will be passed to the callback delegate.

Return Value

An IAsyncResult that references the asynchronous operation.
Remarks

The **BeginUpdateMessage** method must specify the visibility delay of a message.

After a client retrieves a message by calling the `GetMessage` or `GetMessages(Int32)` method, the client is expected to process and update the message. When a message is retrieved, its `PopReceipt` property is set to an opaque value that indicates the message has been read. The value of the message’s pop receipt is used to verify that the message being updated is the same message that was read.

A pop receipt remains valid until one of the following events occurs:

- The message has expired.
- The message has been deleted using the last pop receipt received either from `GetMessages(Int32)` or **BeginUpdateMessage**.
- The invisibility time has elapsed and the message has been dequeued by a `GetMessages(Int32)` request. When the invisibility time elapses, the message becomes visible again. If it is retrieved by another `GetMessages(Int32)` request, the returned pop receipt can be used to delete or update the message.
- The message has been updated with a new visibility timeout. When the message is updated, a new pop receipt will be returned.

The **BeginUpdateMessage** operation can be used to continually extend the invisibility of a queue message. This functionality can be useful if you want a worker role to “lease” a queue message. For example, if a worker role calls `GetMessages(Int32)` and recognizes that it needs more time to process a message, it can continually extend the message’s invisibility until it is processed. If the worker role were to fail during processing, eventually the message would become visible again and another worker role could process it.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.Clear Method

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Clears all messages from the queue.

Namespace: Microsoft.WindowsAzure.StorageClient
## Usage

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim instance As <strong>CloudQueue</strong></td>
</tr>
<tr>
<td>instance.Clear</td>
</tr>
<tr>
<td><strong>Syntax</strong></td>
</tr>
<tr>
<td>------------</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Public Sub Clear</td>
</tr>
<tr>
<td><strong>C#</strong></td>
</tr>
<tr>
<td>public void Clear ()</td>
</tr>
<tr>
<td><strong>C++</strong></td>
</tr>
<tr>
<td>public: void Clear ()</td>
</tr>
<tr>
<td><strong>J#</strong></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
</tr>
</tbody>
</table>
Example

The following example gets a reference to a queue, clears any existing message and adds some new messages.

C#

```csharp
static void CreateQueueAndAddMessages(Uri queueEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Queue service.
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint,
               new StorageCredentialsAccountAndKey(accountName,
                                           accountKey));

    //Get a reference to a queue in this storage account.
    CloudQueue queue = queueClient.GetQueueReference("myqueue");
    //Create the queue if it does not already exist.
    queue.CreateIfNotExist();

    //Clear any existing messages from the queue.
    queue.Clear();

    //Create some new messages.
    CloudQueueMessage msg1 = new CloudQueueMessage("message1");
    CloudQueueMessage msg2 = new CloudQueueMessage("message2");
    CloudQueueMessage msg3 = new CloudQueueMessage("message3");

    //Add the messages to the queue.
    queue.AddMessage(msg1);
    queue.AddMessage(msg2);
    //Add the message with a time-to-live of one hour.
    queue.AddMessage(msg3, new TimeSpan(1, 0, 0));

    //Get one message from the queue.
    CloudQueueMessage msgRead = queue.GetMessage();

    //If the message is not null, display it.
    if (msgRead != null)
    {
        // Code to display the message
    }
}
```
{ Console.WriteLine(msgRead.AsString);
    Console.WriteLine();

    // After reading the message, the client should delete it.
    queue.DeleteMessage(msgRead);
}
else
{
    Console.WriteLine("The queue contains no messages.");
    Console.WriteLine();
}

    // Get up to 10 messages from the queue.
    foreach (var msg in queue.GetMessages(10))
    {
        Console.WriteLine(msg.AsString);
        queue.DeleteMessage(msg);
    }
Remarks

The **Clear** method clears all messages from the queue.

If a queue contains a large number of messages, the operation may time out before all messages have been deleted. If the operation times out, the client should retry the operation until it succeeds, to ensure that all messages have been deleted.
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.Create Method

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Creates a queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim instance As <strong>CloudQueue</strong></td>
</tr>
<tr>
<td>instance.Create</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>--------</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
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</tr>
<tr>
<td><strong>J#</strong></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
</tr>
</tbody>
</table>
Example

The following code example checks whether the specified queue exists and creates it if it does not.

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
</table>
| static void CreateQueue(Uri queueEndpoint, string accountName, string accountKey) {
  //Create service client for credentialed access to the Queue service.
  CloudQueueClient queueClient = new CloudQueueClient(new StorageCredentialsAccountAndKey(accountName, accountKey));

  //Get a reference to a queue in this storage account.
  CloudQueue queue = queueClient.GetQueueReference("myqueue");

  //Check whether the queue exists, and create it if it does not.
  if (!queue.Exists())
  {
    queue.Create();
  }
} |
**Remarks**

You can specify user-defined metadata on the queue at the time that it is created. To specify metadata for the queue, add name-value pairs to the queue's Metadata.

For guidance about valid names for queues and metadata, see [Naming Queues and Metadata](#).
Thread Safety

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
Change History
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.CreateIfNotExist Method

Creates the queue if it does not exist.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.]
### Usage

#### Visual Basic

```
Dim instance As CloudQueue
Dim returnValue As Boolean

returnValue = instance.CreateIfNotExist
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Function CreateIfNotExist As <em>Boolean</em></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public <em>bool</em> CreateIfNotExist ()</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public: <em>bool</em> CreateIfNotExist ()</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>

## Return Value

Type: [System.Boolean](https://docs.microsoft.com/en-us/dotnet/api/system.boolean)

true if the queue did not exist and was created; otherwise false.
Example

The following code example creates a queue if it does not already exist, and adds some messages to it.

C#

```csharp
static void CreateQueueAndAddMessages(Uri queueEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Queue service.
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint,
        new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a queue in this storage account.
    CloudQueue queue = queueClient.GetQueueReference("myqueue");
    //Create the queue if it does not already exist.
    queue.CreateIfNotExist();

    //Clear any existing messages from the queue.
    queue.Clear();

    //Create some new messages.
    CloudQueueMessage msg1 = new CloudQueueMessage("message1");
    CloudQueueMessage msg2 = new CloudQueueMessage("message2");
    CloudQueueMessage msg3 = new CloudQueueMessage("message3");

    //Add the messages to the queue.
    queue.AddMessage(msg1);
    queue.AddMessage(msg2);
    //Add the message with a time-to-live of one hour.
    queue.AddMessage(msg3, new TimeSpan(1, 0, 0));

    //Get one message from the queue.
    CloudQueueMessage msgRead = queue.GetMessage();

    //If the message is not null, display it.
    if (msgRead != null)
```
{  
    Console.WriteLine(msgRead.AsString);
    Console.WriteLine();

    //After reading the message, the client should
    queue.DeleteMessage(msgRead);
}
else
{
    Console.WriteLine("The queue contains no message.");
    Console.WriteLine();
}

//Get up to 10 messages from the queue.
foreach (var msg in queue.GetMessages(10))
{
    Console.WriteLine(msg.AsString);
    queue.DeleteMessage(msg);
}
}
Remarks

You can specify user-defined metadata on the queue at the time that it is created. To specify metadata for the queue, add name-value pairs to the queue's Metadata.

For guidance about valid names for queues and metadata, see Naming Queues and Metadata.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.Delete Method

Delete the queue.

Namespace: Microsoft.WindowsAzure.StorageClient

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Visual Basic</td>
</tr>
</tbody>
</table>

Dim instance As *CloudQueue*

instance.Delete
## Syntax

### Visual Basic

Public Sub Delete

### C#

public void Delete ()

### C++

public:
    void Delete ()

### J#

### JScript
```csharp
static void DeleteAQueue(Uri queueEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to Queue.
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a queue in this storage account.
    CloudQueue queue = queueClient.GetQueueReference("myqueue");

    //Delete the queue.
    queue.Delete();
}
```
Remarks

Note that when you delete a queue, there may be an interval of time of at least 5 seconds during which you cannot create a queue with the same name.
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
Change History
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.DeleteMessage Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudQueue.DeleteMessage(String, String)</code></td>
<td>Deletes a message based on the message ID and the pop receipt value.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Deletes a message.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudQueue
Dim message As CloudQueueMessage

instance.DeleteMessage(message)
### Syntax

#### Visual Basic

```vba
Public Sub DeleteMessage (_
    message As CloudQueueMessage _
)
```

#### C#

```csharp
public void DeleteMessage (  
    CloudQueueMessage message
)
```

#### C++

```cpp
public:
void DeleteMessage (  
    CloudQueueMessage message
)
```

#### J#

```jsharp

```

#### JScript

```jscript

```

### Parameters

**message**

Type: `Microsoft.WindowsAzure.StorageClient.CloudQueueMessage`

A message.
Example

The following example adds some messages to a queue, retrieves them, and deletes them.

C#

```csharp
static void DeleteQueueMessages(Uri queueEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access to the Queue service.
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint,
                new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Get a reference to a queue in this storage account.
    CloudQueue queue = queueClient.GetQueueReference("myqueue");
    // Create the queue if it does not already exist.
    queue.CreateIfNotExist();

    // Clear any existing messages from the queue.
    queue.Clear();

    // Create some new messages and add them to the queue.
    for (int i = 0; i < 10; i++)
    {
        CloudQueueMessage msg = new CloudQueueMessage("message" + i.ToString());
        queue.AddMessage(msg);
        Console.WriteLine("Adding message with content: " + msg.AsString);
    }

    // Delete five messages from the queue.
    foreach (CloudQueueMessage msg in queue.GetMessages(5))
    {
        queue.DeleteMessage(msg);
        Console.WriteLine("Deleting message: " + msg.Id);
    }
}
Console.WriteLine();
```
//Delete five more messages from the queue.
foreach (CloudQueueMessage msg in queue.GetMessages(5))
{
    queue.DeleteMessage(msg.Id, msg.PopReceipt);
    Console.WriteLine("Deleting message " + msg.Id);
}

Remarks

After a client retrieves a message by calling the `GetMessage` or `GetMessages` method, the client is expected to process and delete the message. When a message is retrieved, its `PopReceipt` property is set to an opaque value that indicates that the message has been read. The value of the message's pop receipt is used to verify that the message being deleted is the same message that was read.

After a client retrieves a message, that message is reserved for deletion until the date and time indicated by the message's `NextVisibleTime` property, and no other client may retrieve the message during that time interval. If the message is not deleted before the time specified by the `NextVisibleTime` property, it again becomes visible to other clients. If the message is not subsequently retrieved and deleted by another client, the client that retrieved it can still delete it. If another client does retrieve it, then the first client can no longer delete it.
- **Thread Safety**
  
  Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
Deletes a message based on the message ID, and the pop receipt value.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudQueue
Dim messageId As String
Dim popReceipt As String

instance.DeleteMessage(messageId, popReceipt)
```
## Syntax

### Visual Basic

```vbnet
Public Sub DeleteMessage ( _
    messageId As String, _
    popReceipt As String _
)
```

### C#

```csharp
public void DeleteMessage (  
    string messageId,
    string popReceipt
)
```

### C++

```cpp
public:
void DeleteMessage (  
    String^ messageId,
    String^ popReceipt
)
```

### J#

```jsharp```

### JScript

```javascript```

## Parameters

- **messageId**
  - Type: `System.String`
  - The message ID.
popReceipt
Type: System.String

The pop receipt value.
Example

The following example adds some messages to a queue, retrieves them, and deletes them.

```csharp
static void DeleteQueueMessages(Uri queueEndpoint, string accountName, string accountKey)
{
//Create service client for credentialed access to the Queue service.
CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint,
    new StorageCredentialsAccountAndKey(accountName, accountKey));

//Get a reference to a queue in this storage account.
CloudQueue queue = queueClient.GetQueueReference("myqueue");
//Create the queue if it does not already exist.
queue.CreateIfNotExist();

//Clear any existing messages from the queue.
queue.Clear();

//Create some new messages and add them to the queue.
for (int i = 0; i < 10; i++)
{
    CloudQueueMessage msg = new CloudQueueMessage("message" + i.ToString());
    queue.AddMessage(msg);
    Console.WriteLine("Adding message with content: " + msg.AsString);
}

//Delete five messages from the queue.
foreach(CloudQueueMessage msg in queue.GetMessages(5))
{
    queue.DeleteMessage(msg);
    Console.WriteLine("Deleting message: " + msg);
}

Console.WriteLine();
```
// Delete five more messages from the queue.
foreach (CloudQueueMessage msg in queue.GetMessages(5))
{
    queue.DeleteMessage(msg.Id, msg.PopReceipt);
    Console.WriteLine("Deleting message " + msg.Id);
}

Remarks

After a client retrieves a message by calling the **GetMessage** or **GetMessages** method, the client is expected to process and delete the message. When a message is retrieved, its **PopReceipt** property is set to an opaque value that indicates that the message has been read. The value of the message's pop receipt is used to verify that the message being deleted is the same message that was read.

After a client retrieves a message, that message is reserved for deletion until the date and time indicated by the message's **NextVisibleTime** property, and no other client may retrieve the message during that time interval. If the message is not deleted before the time specified by the **NextVisibleTime** property, it again becomes visible to other clients. If the message is not subsequently retrieved and deleted by another client, the client that retrieved it can still delete it. If another client does retrieve it, then the first client can no longer delete it.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
Change History
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.EndAddMessage Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to add a message to the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudQueue
Dim asyncResult As IAsyncResult

instance.EndAddMessage(asyncResult)
## Syntax

### Visual Basic

```vbnet
Public Sub EndAddMessage ( _
    asyncResult As IAsyncResult _
)
```

### C#

```csharp
public void EndAddMessage (
    IAsyncResult asyncResult
)
```

### C++

```cpp
public:
void EndAddMessage ( 
    IAsyncResult^ asyncResult
)
```

### J#

```csharp
```

### JScript

```
```

### Parameters

- asyncResult
  - Type: `System.IAsyncResult`

  An `IAsyncResult` that references the pending asynchronous operation.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.EndClear Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to clear all messages from the queue.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudQueue
Dim asyncResult As IAsyncResult

instance.EndClear(asyncResult)
```
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Sub EndClear ( asyncResult As IAsyncResult )</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public void EndClear ( IAsyncResult asyncResult )</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| public:
| void EndClear ( IAsyncResult^ asyncResult ) |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>

**Parameters**

*asyncResult*

Type: **System.IAsyncResult**

An **IAsyncResult** that references the pending asynchronous operation.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.EndCreate Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to create a queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As CloudQueue
Dim asyncResult As IAsyncResult

instance.EndCreate(asyncResult)
```
## Syntax

### Visual Basic

```vbnet
Public Sub EndCreate (  _
    asyncResult As IAsyncResult _
)
```

### C#

```csharp
public void EndCreate (  
    IAsyncResult asyncResult
)
```

### C++

```cpp
public:
void EndCreate (  
    IAsyncResult^ asyncResult
)
```

### J#

```

### JScript

```

## Parameters

*asyncResult*

Type: `System.IAsyncResult`

An `IAsyncResult` that references the pending asynchronous operation.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.EndCreateIfNotExist Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to create the queue if it does not exist.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
</tr>
</tbody>
</table>

```vbnet
Dim instance As CloudQueue
Dim asyncResult As IAsyncResult
Dim returnValue As Boolean

returnValue = instance.EndCreateIfNotExist(asyncResult)
```
Syntax

Visual Basic

Public Function EndCreateIfNotExist ( _
    asyncResult As IAsyncResult _
) As Boolean

C#

public bool EndCreateIfNotExist (  
    IAsyncResult asyncResult
)

C++

public:

bool EndCreateIfNotExist (  
    IAsyncResult^ asyncResult
)

J#

JScript

Parameters

asyncResult
 Type: System.IAsyncResult

An IAsyncResult that references the pending asynchronous operation.

Return Value

Type: System.Boolean
Returns `true` if the creation succeeded; otherwise, `false`.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.EndDelete Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to delete the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
```vbnet
Dim instance As CloudQueue
Dim asyncResult As IAsyncResult

instance.EndDelete(asyncResult)
```
## Syntax

### Visual Basic

```
Public Sub EndDelete ( _
    asyncResult As IAsyncResult _
)
```

### C#

```
public void EndDelete ( IAsyncResult asyncResult
)
```

### C++

```
public:
    void EndDelete ( IAsyncResult^ asyncResult
)
```

### J#

```
```

### JScript

```
```

## Parameters

**asyncResult**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the pending asynchronous operation.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.EndDeleteMessage Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to delete a message.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As `CloudQueue`
Dim asyncResult As `IAsyncResult`

`instance.EndDeleteMessage(asyncResult)`
**Syntax**

**Visual Basic**

```vbnet
Public Sub EndDeleteMessage ( _
    asyncResult As IAsyncResult _
)
```

**C#**

```csharp
public void EndDeleteMessage (  
    IAsyncResult asyncResult
)
```

**C++**

```cpp
public:
void EndDeleteMessage (  
    IAsyncResult^ asyncResult
)
```

**J#**

```jsharp```

**Parameters**

**asyncResult**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the pending asynchronous operation.
Thread Safety

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.EndExists Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to determine whether the queue exists.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

#### Visual Basic

```vbnet
Dim instance As CloudQueue
Dim asyncResult As IAsyncResult
Dim returnValue As Boolean

returnValue = instance.EndExists(asyncResult)
```
### Syntax

**Visual Basic**

```vbnet
Public Function EndExists ( _
    asyncResult As IAsyncResult _
) As Boolean
```

**C#**

```csharp
public bool EndExists (  
    IAsyncResult asyncResult
)
```

**C++**

```cpp
public:
bool EndExists (  
    IAsyncResult^ asyncResult
)
```

**J#**

```jsharp```

**JScript**

```javascript```

### Parameters

**asyncResult**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the pending asynchronous operation.

### Return Value

Type: `System.Boolean`
Returns `true` if the queue exists; otherwise, `false`.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to fetch the queue's attributes.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudQueue
Dim asyncResult As IAsyncResult

instance.EndFetchAttributes(asyncResult)
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Sub EndFetchAttributes (_ asyncResult As IAsyncResult _)</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public void EndFetchAttributes ( IAsyncResult asyncResult )</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: void EndFetchAttributes ( IAsyncResult^ asyncResult )</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>

**Parameters**

- **asyncResult**
  
  Type: [System.IAsyncResult](https://docs.microsoft.com/en-us/dotnet/api/system.iasyncresult)

  An **IAsyncResult** that references the pending asynchronous operation.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.EndGetMessage Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to get a single message from the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Dim instance As CloudQueue
Dim asyncResult As IAsyncResult
Dim returnValue As CloudQueueMessage

returnValue = instance.EndGetMessage(asyncResult)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| Visual Basic | `Public Function EndGetMessage ( _
asyncResult As IAsyncResult _
) As CloudQueueMessage` |
| C# | `public CloudQueueMessage EndGetMessage ( IAsyncResult asyncResult )` |
| C++ | `public:
CloudQueueMessage^ EndGetMessage ( IAsyncResult^ asyncResult )` |
| J# |  |
| JScript |  |

### Parameters

*asyncResult*

- **Type**: `System.IAsyncResult`

  An `IAsyncResult` that references the pending asynchronous operation.

### Return Value

- **Type**: `Microsoft.WindowsAzure.StorageClient.CloudQueueMessage`
A message.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
**CloudQueue.EndGetMessages Method**

**See Also**

[T](#)

(This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to get messages from the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

Dim instance As CloudQueue
Dim asyncResult As IAsyncResult
Dim returnValue As IEnumerable(Of CloudQueueMessage)

returnValue = instance.EndGetMessages(asyncResult)
## Syntax

### Visual Basic

Public Function EndGetMessages ( asyncResult As IAsyncResult ) As IEnumerable(Of CloudQueueMessage)

### C#

public IEnumerable<CloudQueueMessage> EndGetMessages ( IAsyncResult asyncResult )

### C++

public: IEnumerable<CloudQueueMessage^>^ EndGetMessages ( IAsyncResult^ asyncResult )

### J#

### JScript

### Parameters

- **asyncResult**
  - Type: `System.IAsyncResult`

  An `IAasyncResult` that references the pending asynchronous operation.

### Return Value
Type: System.Collections.Generic.IEnumerable

An enumerable collection of messages.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to peek a message from the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudQueue
Dim asyncResult As IAsyncResult
Dim returnValue As CloudQueueMessage

returnValue = instance.EndPeekMessage(asyncResult)
## Syntax

### Visual Basic

```vbnet
Public Function EndPeekMessage (  
    asyncResult As IAsyncResult  
) As CloudQueueMessage
```

### C#

```csharp
public CloudQueueMessage EndPeekMessage (  
    IAsyncResult asyncResult
)
```

### C++

```cpp
public:  
    CloudQueueMessage^ EndPeekMessage (  
        IAsyncResult^ asyncResult
    )
```

### J#

```jsharp

```

### JScript

```javascript

```

## Parameters

**asyncResult**

Type: System.IAsyncResult

An **IAsyncResult** that references the pending asynchronous operation.

## Return Value

Type: Microsoft.WindowsAzure.StorageClient.CloudQueueMessage
A message.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
See Also

Reference

CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.EndPeekMessages Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to peek a set of messages from the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbscript
Dim instance As CloudQueue
Dim asyncResult As IAsyncResult
Dim returnValue As IEnumerable(Of CloudQueueMessage)

returnValue = instance.EndPeekMessages(asyncResult)
```
## Syntax

### Visual Basic

```vbnet
Public Function EndPeekMessages ( _
    asyncResult As IAsyncResult _
) As IEnumerable(Of CloudQueueMessage)
```

### C#

```csharp
public IEnumerable<CloudQueueMessage> EndPeekMessages(
    IAsyncResult asyncResult
)
```

### C++

```cpp
public:
IEnumerable<CloudQueueMessage>^ EndPeekMessages ( 
    IAsyncResult^ asyncResult
)
```

### J#

```jscript
```

### JScript

```javascript
```

### Parameters

- **asyncResult**
  - Type: `System.IAsyncResult`

  An `IAsyncResult` that references the pending asynchronous operation.

### Return Value
Type: System.Collections.Generic.IEnumerable

An enumerable collection of messages.
- **Thread Safety**
  
  Any public static (*Shared* in Visual Basic) members of this type are thread safe.
  
  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.EndSetMetadata Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to set the queue's metadata.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudQueue
Dim asyncResult As IAsyncResult

instance.EndSetMetadata(asyncResult)
```
Syntax

Visual Basic

Public Sub EndSetMetadata ( _
    asyncResult As IAsyncResult _
)

C#

public void EndSetMetadata (  
    IAsyncResult asyncResult 
)

C++

public:
void EndSetMetadata (  
    IAsyncResult^ asyncResult 
)

J#


JScript

Parameters

asyncResult
Type: System.IAsyncResult

An IAsyncResult that references the pending asynchronous operation.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.EndUpdateMessage Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to update a queue message.

Namespace: Microsoft.WindowsAzure.StorageClient  
### Usage

#### Visual Basic

```vbscript
Dim instance As CloudQueue
Dim asyncResult As IAsyncResult

instance.EndUpdateMessage(asyncResult)
```
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Sub EndUpdateMessage (_ asyncResult As IAsyncResult _ )</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public void EndUpdateMessage (  IAsyncResult asyncResult  )</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: void EndUpdateMessage (  IAsyncResult^ asyncResult  )</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>

**Parameters**

*asyncResult*

Type: **System.IAsyncResult**

An **IAsyncResult** that references the pending asynchronous operation.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.Exists Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Determines if the queue exists.

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

Visual Basic

Dim instance As CloudQueue
Dim returnValue As Boolean

returnValue = instance.Exists
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Function Exists As Boolean</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public bool Exists ()</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: bool Exists ()</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>

### Return Value

Type: [System.Boolean](#)

*True* if the queue exists; otherwise *false*. 
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.FetchAttributes Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Fetches the queue's attributes.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudQueue
instance.FetchAttributes
```
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public Sub FetchAttributes</td>
<td></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public void FetchAttributes ()</td>
<td></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td></td>
</tr>
<tr>
<td>public: void FetchAttributes ()</td>
<td></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
Remarks

The **FetchAttributes** method populates the queue's user-defined metadata. Before reading a queue's metadata, you should always call this method or the **BeginFetchAttributes** method to retrieve the latest metadata values for the queue from the service.
Thread Safety

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.GetMessage Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CloudQueue.GetMessage()</td>
<td>Gets a single message from the queue.</td>
</tr>
<tr>
<td>CloudQueue.GetMessage(TimeSpan)</td>
<td>Gets a single message from the queue, and specifies how long it should be reserved before it becomes visible—and therefore available for deletion.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
Gets a single message from the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudQueue
Dim returnValue As CloudQueueMessage

returnValue = instance.GetMessage
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Function GetMessage As CloudQueueMessage</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public CloudQueueMessage GetMessage()</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: CloudQueueMessage^ GetMessage()</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>

### Return Value

Type: `Microsoft.WindowsAzure.StorageClient.CloudQueueMessage`

A message.
**Example**

The following sample code creates a queue, adds some messages to it, and retrieves and deletes the messages.

```csharp
static void CreateQueueAndAddMessages(Uri queueEndpoint,
                                        string accountName,
                                        string accountKey)
{
    //Create service client for credentialed access to Queue service.
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint,
                                                          new StorageCredentialsAccountAndKey(accountName,
                                                                                        accountKey));

    //Get a reference to a queue in this storage account.
    CloudQueue queue = queueClient.GetQueueReference("myqueue");

    //Create the queue if it does not already exist.
    queue.CreateIfNotExist();

    //Clear any existing messages from the queue.
    queue.Clear();

    //Create some new messages.
    CloudQueueMessage msg1 = new CloudQueueMessage("message1");
    CloudQueueMessage msg2 = new CloudQueueMessage("message2");
    CloudQueueMessage msg3 = new CloudQueueMessage("message3");

    //Add the messages to the queue.
    queue.AddMessage(msg1);
    queue.AddMessage(msg2);
    //Add the message with a time-to-live of one hour.
    queue.AddMessage(msg3, new TimeSpan(1, 0, 0));

    //Get one message from the queue.
    CloudQueueMessage msgRead = queue.GetMessage();

    if (msgRead != null)
    {
```
Console.WriteLine(msgRead.AsString);
Console.WriteLine();

//After reading the message, the client should
queue.DeleteMessage(msgRead);
}
else
{
    Console.WriteLine("The queue contains no messages.");
    Console.WriteLine();
}

//Get up to 10 messages from the queue.
foreach (var msg in queue.GetMessages(10))
{
    Console.WriteLine(msg.AsString);
    queue.DeleteMessage(msg);
}
Remarks

The **GetMessage** method retrieves a single message from the queue. After a message has been retrieved, it should be deleted from the queue. If no messages are visible in the queue, **GetMessage** returns null immediately.

When a message is retrieved from the queue, its **NextVisibleTime** and **PopReceipt** properties are updated with values provided by the service. The **NextVisibleTime** indicates the next time that the message will be available to be read, if it is not deleted by the client that retrieved it; by default this value is set to 30 seconds after the time that the message was retrieved.

The **PopReceipt** value indicates that the message has been read and is used to verify that the message being deleted is the same one that was retrieved.

After a client retrieves a message, that message is reserved for deletion until the date and time indicated by the message's **NextVisibleTime** property, and no other client may retrieve the message during that time interval. If the message is not deleted before the time specified by the **NextVisibleTime** property, it again becomes visible to other clients. If the message is not subsequently retrieved and deleted by another client, the client that retrieved it can still delete it.

When a message is retrieved for the first time, its **DequeueCount** property is set to 1. If it is not deleted and is subsequently retrieved again, the **DequeueCount** property is incremented. The client may use this value to determine how many times a message has been retrieved.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.GetMessage Method (TimeSpan)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a single message from the queue, and specifies how long it should be reserved before it becomes visible—and therefore available for deletion.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudQueue
Dim visibilityTimeout As TimeSpan
Dim returnValue As CloudQueueMessage

returnValue = instance.GetMessage(visibilityTimeout)
```
## Syntax

### Visual Basic

```vbnet
Public Function GetMessage ( _
    visibilityTimeout As TimeSpan _
) As CloudQueueMessage
```

### C#

```csharp
public CloudQueueMessage GetMessage (    
    TimeSpan visibilityTimeout
)
```

### C++

```cpp
public:
CloudQueueMessage^ GetMessage (    
    TimeSpan visibilityTimeout
)
```

### J#

### JScript

### Parameters

- **visibilityTimeout**
  - Type: `System.TimeSpan`
  - The visibility timeout interval.

### Return Value

A message.
Example

The following sample code creates a queue, adds some messages to it, and retrieves and deletes the messages.

```csharp
static void CreateQueueAndAddMessages(Uri queueEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access to the Queue service.
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint,
                        new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Get a reference to a queue in this storage account.
    CloudQueue queue = queueClient.GetQueueReference("myqueue");

    // Create the queue if it does not already exist.
    queue.CreateIfNotExist();

    // Clear any existing messages from the queue.
    queue.Clear();

    // Create some new messages.
    CloudQueueMessage msg1 = new CloudQueueMessage("message1");
    CloudQueueMessage msg2 = new CloudQueueMessage("message2");
    CloudQueueMessage msg3 = new CloudQueueMessage("message3");

    // Add the messages to the queue.
    queue.AddMessage(msg1);
    queue.AddMessage(msg2);

    // Add the message with a time-to-live of one hour.
    queue.AddMessage(msg3, new TimeSpan(1, 0, 0));

    // Get one message from the queue.
    CloudQueueMessage msgRead = queue.GetMessage();

    // If the message is not null, display it.
    if (msgRead != null)
    {
        // Display the message.
        Console.WriteLine(msgRead); 
    }
}
```
{ Console.WriteLine(msgRead.AsString);
    Console.WriteLine();

    // After reading the message, the client should
    queue.DeleteMessage(msgRead);

} else
{
    Console.WriteLine("The queue contains no message.
    Console.WriteLine();

    // Get up to 10 messages from the queue.
    foreach (var msg in queue.GetMessages(10))
    {
        Console.WriteLine(msg.AsString);
        queue.DeleteMessage(msg);
    }
}
Remarks

The `GetMessage` method retrieves a single message from the queue. After a message has been retrieved, it should be deleted from the queue. If no messages are visible in the queue, this method returns null immediately.

When a message is retrieved from the queue, its `NextVisibleTime` and `PopReceipt` properties are updated with values provided by the service. The `NextVisibleTime` indicates the next time that the message will be available to be read, if it is not deleted by the client that retrieved it. This value is calculated by adding the value of the `visibilityTimeout` parameter to the time at which the message was retrieved. The maximum value that may be specified for the `visibilityTimeout` parameter is two hours.

The `PopReceipt` value indicates that the message has been read and is used to verify that the message being deleted is the same one that was retrieved.

After a client retrieves a message, that message is reserved for deletion until the date and time indicated by the message's `NextVisibleTime` property, and no other client may retrieve the message during that time interval. If the message is not deleted before the time specified by the `NextVisibleTime` property, it again becomes visible to other clients. If the message is not subsequently retrieved and deleted by another client, the client that retrieved it can still delete it.

When a message is retrieved for the first time, its `DequeueCount` property is set to 1. If it is not deleted and is subsequently retrieved again, the `DequeueCount` property is incremented. The client may use this value to determine how many times a message has been retrieved.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.GetMessages Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
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<tr>
<td><code>CloudQueue.GetMessages(Int32)</code></td>
<td>Gets a list of messages from the queue.</td>
</tr>
<tr>
<td><code>CloudQueue.GetMessages(Int32, TimeSpan)</code></td>
<td>Gets a list of messages from the queue, and specifies how long they should be reserved before becoming visible—and therefore available for deletion.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a list of messages from the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

Dim instance As `CloudQueue`
Dim messageCount As `Integer`
Dim returnValue As `IEnumerable(Of CloudQueueMessage)`

returnValue = instance.GetMessages(messageCount)
## Syntax

### Visual Basic

```vbnet
Public Function GetMessages ( _
    messageCount As Integer _
) As IEnumerable(Of CloudQueueMessage)
```

### C#

```csharp
public IEnumerable<CloudQueueMessage> GetMessages ( _
    int messageCount _
)
```

### C++

```cpp
public: _
    IEnumerable<CloudQueueMessage^> GetMessages ( _
    int messageCount _
)
```

### J#

### JScript

### Parameters

- **messageCount**
  - Type: `System.Int32`

  The number of messages to retrieve.

### Return Value

- Type: `System.Collections.Generic.IEnumerable`
An enumerable collection of messages.
The following code example adds some messages to the queue, retrieves them, and deletes them.

```csharp
static void RetrieveAndDeleteQueueMessages(Uri queueEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Queue service.
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint,
               new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a queue in this storage account.
    CloudQueue queue = queueClient.GetQueueReference("myqueue");
    //Create the queue if it does not already exist.
    queue.CreateIfNotExist();

    //Clear any existing messages from the queue.
    queue.Clear();

    //Create some new messages and add them to the queue.
    for (int i = 0; i < 10; i++)
    {
        CloudQueueMessage msg = new CloudQueueMessage("message" + i.ToString());
        queue.AddMessage(msg);
        Console.WriteLine("Adding message with content: ", msg.AsString);
    }

    //Delete five messages from the queue.
    foreach (CloudQueueMessage msg in queue.GetMessages(5))
    {
        Console.WriteLine("Deleting message:", msg.Id);
        queue.DeleteMessage(msg);
    }

    Console.WriteLine();
}
```
// Delete five more messages from the queue.
foreach (CloudQueueMessage msg in queue.GetMessages(5))
{
    Console.WriteLine("Deleting message " + msg.Id);
    queue.DeleteMessage(msg.Id, msg.PopReceipt);
}

Remarks

The `GetMessages` method retrieves up to a specified number of messages from the queue. The maximum number of messages that may be retrieved with a single call to `GetMessages` is 32. If the queue contains no visible messages, an empty list is returned. If the queue contains fewer visible messages than requested, all the visible messages are returned.

After messages have been retrieved, they should be deleted from the queue.

When a message is retrieved from the queue, its `NextVisibleTime` and `PopReceipt` properties are updated with values provided by the service. The `NextVisibleTime` indicates the next time that the message will be available to be read, if it is not deleted by the client that retrieved it; by default this value is set to 30 seconds after the time that the message was retrieved.

The `PopReceipt` value indicates that the message has been read and is used to verify that the message being deleted is the same one that was retrieved.

After a client retrieves a message, that message is reserved for deletion until the date and time indicated by the message's `NextVisibleTime` property, and no other client may retrieve the message during that time interval. If the message is not deleted before the time specified by the `NextVisibleTime` property, it again becomes visible to other clients. If the message is not subsequently retrieved and deleted by another client, the client that retrieved it can still delete it.

When a message is retrieved for the first time, its `DequeueCount` property is set to 1. If it is not deleted and is subsequently retrieved again, the `DequeueCount` property is incremented. The client may use this value to determine how many times a message has been retrieved.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a list of messages from the queue, and specifies how long they should be reserved before becoming visible—and therefore available for deletion.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```
Dim instance As CloudQueue
Dim messageCount As Integer
Dim visibilityTimeout As TimeSpan
Dim returnValue As IEnumerable(Of CloudQueueMessage)

returnValue = instance.GetMessages(messageCount, visibilityTimeout)
```
## Syntax

### Visual Basic

```vbnet
Public Function GetMessages (messageCount As Integer, visibilityTimeout As TimeSpan) As IEnumerable(Of CloudQueueMessage)
```

### C#

```csharp
public IEnumerable<CloudQueueMessage> GetMessages (int messageCount, TimeSpan visibilityTimeout)
```

### C++

```cpp
public: IEnumerabe<CloudQueueMessage>^ GetMessages (int messageCount, TimeSpan visibilityTimeout)
```

### J#

```jsharp
```

### JScript

```jscript
```

### Parameters

- **messageCount**
  - Type: `System.Int32`
  - The number of messages to retrieve.
visibilityTimeout
Type: System.TimeSpan

The visibility timeout interval.

Return Value
Type: System.Collections.Generic.IEnumerable

An enumerable collection of messages.
Example

The following code example adds some messages to the queue, retrieves them, and deletes them.

```csharp
static void RetrieveAndDeleteQueueMessages(Uri queueEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Queue service.
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint,
        new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a queue in this storage account.
    CloudQueue queue = queueClient.GetQueueReference("myqueue");

    //Create the queue if it does not already exist.
    queue.CreateIfNotExist();

    //Clear any existing messages from the queue.
    queue.Clear();

    //Create some new messages and add them to the queue.
    for (int i = 0; i < 10; i++)
    {
        CloudQueueMessage msg = new CloudQueueMessage("message" + i.ToString());
        queue.AddMessage(msg);
        Console.WriteLine("Adding message with content:	" + msg.AsString);
    }

    //Delete five messages from the queue.
    foreach(CloudQueueMessage msg in queue.GetMessages(5))
    {
        Console.WriteLine("Deleting message: 	" + msg.Id);
        queue.DeleteMessage(msg);
    }
}
```

Console.WriteLine();
//Delete five more messages from the queue.
foreach (CloudQueueMessage msg in queue.GetMessages(5))
{
    Console.WriteLine("Deleting message ", msg.Id);
    queue.DeleteMessage(msg.Id, msg.PopReceipt);
}

Remarks

The **GetMessages** method retrieves up to a specified number of messages from the queue. The maximum number of messages that may be retrieved with a single call to **GetMessages** is 32. If the queue contains no visible messages, an empty list is returned. If the queue contains fewer visible messages than requested, all the visible messages are returned.

After messages have been retrieved, they should be deleted from the queue.

When a message is retrieved from the queue, its **NextVisibleTime** and **PopReceipt** properties are updated with values provided by the service. The **NextVisibleTime** indicates the next time that the message will be available to be read, if it is not deleted by the client that retrieved it. This value is calculated by adding the value of the **visibilityTimeout** parameter to the time at which the message was retrieved. The maximum value that may be specified for the **visibilityTimeout** parameter is two hours.

The **PopReceipt** value indicates that the message has been read and is used to verify that the message being deleted is the same one that was retrieved.

After a client retrieves a message, that message is reserved for deletion until the date and time indicated by the message's **NextVisibleTime** property, and no other client may retrieve the message during that time interval. If the message is not deleted before the time specified by the **NextVisibleTime** property, it again becomes visible to other clients. If the message is not subsequently retrieved and deleted by another client, the client that retrieved it can still delete it.

When a message is retrieved for the first time, its **DequeueCount** property is set to 1. If it is not deleted and is subsequently retrieved again, the **DequeueCount** property is incremented. The client may use this value to determine how many times a message has been retrieved.
- **Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
**CloudQueue.PeekMessage Method**

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Peeks a message from the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```
Dim instance As CloudQueue
Dim returnValue As CloudQueueMessage

returnValue = instance.PeekMessage
```
## Syntax

**Visual Basic**

```vbnet
Public Function PeekMessage As CloudQueueMessage
```

**C#**

```csharp
public CloudQueueMessage PeekMessage ()
```

**C++**

```cpp
public: CloudQueueMessage^ PeekMessage ()
```

**J#**

---

**JScript**

---

### Return Value

Type: `Microsoft.WindowsAzure.StorageClient.CloudQueueMessage`

A message.
Remarks

When a message is retrieved from the queue using `PeekMessage`, the message is not dequeued and the visibility of the message remains unchanged. The message remains available to other clients until a client retrieves the message with a call to `GetMessage`. The call to `PeekMessage` does not update the message's `PopReceipt` value, so the message cannot subsequently be deleted. Additionally, calling `PeekMessage` does not update the message's `NextVisibleTime` or `DequeueCount` properties.

Only messages that are visible may be retrieved with `PeekMessage`. 
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.PeekMessages Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Peeks a set of messages from the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudQueue
Dim messageCount As Integer
Dim returnValue As IEnumerable(Of CloudQueueMessage)

returnValue = instance.PeekMessages(messageCount)
# Syntax

## Visual Basic

```vbnet
Public Function PeekMessages ( _
    messageCount As Integer _
  ) As IEnumerable(Of CloudQueueMessage)
```

## C#

```csharp
public IEnumerable<CloudQueueMessage> PeekMessages ( int messageCount )
```

## C++

```cpp
public: IEnumerableView<CloudQueueMessage>^ PeekMessages ( int messageCount )
```

## J#

```jsharp```

## JScript

```jscript```

### Parameters

`messageCount`

Type: `System.Int32`

The number of messages to retrieve.

### Return Value

Type: `System.Collections.Generic.IEnumerable`
A enumerable collection of messages.
Remarks

When messages are retrieved from the queue using **PeekMessages**, the message is not dequeued and the visibility of the messages remains unchanged. The messages remain available to other clients until a client retrieves them with a call to **GetMessages**. The call to **PeekMessages** does not update a message's **PopReceipt** value, so the message cannot subsequently be deleted. Additionally, calling **PeekMessages** does not update a message's **NextVisibleTime** or **DequeueCount** properties.

Only messages that are visible may be retrieved with **PeekMessages**. The maximum number of messages that may be retrieved with a call to **PeekMessages** is 32.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Retrieves the approximate message count for the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudQueue
Dim returnValue As Integer

returnValue = instance.RetrieveApproximateMessageCount
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Function RetrieveApproximateMessageCount As Integer</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public int RetrieveApproximateMessageCount ()</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: int RetrieveApproximateMessageCount ()</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>

### Return Value

Type: `System.Int32`

The approximate message count.
Remarks

To specify the lifespan of the approximate message count cache, set the "ApproximateMessageCountCacheLength" property.
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
- CloudQueue Class
- CloudQueue Members
- Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.SetMetadata Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Sets the queue's metadata.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```
Dim instance As CloudQueue
instance.SetMetadata
```
### Syntax

**Visual Basic**

```
Public Sub SetMetadata
```

**C#**

```
public void SetMetadata()
```

**C++**

```
public:
void SetMetadata()
```

**J#**

```
```

**JScript**

```
```
Remarks

The `SetMetadata` method writes the metadata values that are specified by the queue's `Metadata` property to the service. Note that setting the `Metadata` property sets metadata values on the queue reference only; you must call `SetMetadata` to write them to the service.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
- CloudQueue Class
- CloudQueue Members
- Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.UpdateMessage Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Updates the visibility timeout of a message, and optionally the contents of a message.

Namespace: Microsoft.WindowsAzure.StorageClient
Dim instance As CloudQueue
Dim message As CloudQueueMessage
Dim visibilityTimeout As TimeSpan
Dim updateFields As MessageUpdateFields

instance.UpdateMessage(message, visibilityTimeout, updateFields)
**Syntax**

**Visual Basic**

```vbnet
Public Sub UpdateMessage ( _
    message As CloudQueueMessage, _
    visibilityTimeout As TimeSpan, _
    updateFields As MessageUpdateFields _
)
```

**C#**

```csharp
public void UpdateMessage ( 
    CloudQueueMessage message, 
    TimeSpan visibilityTimeout, 
    MessageUpdateFields updateFields 
)
```

**C++**

```cpp
public:
    void UpdateMessage ( 
    CloudQueueMessage^ message, 
    TimeSpan visibilityTimeout, 
    MessageUpdateFields updateFields 
)
```

**J#**

```jsharp
```

**JScript**

```javascript
```

**Parameters**

*message*
A queue message.

visibilityTimeout
The visibility timeout for the message.

updateFields
Indicates whether to update the visibility delay, message contents, or both.
Remarks

The **UpdateMessage** method must specify the visibility delay of a message.

A message can be up to 64 KB in size for SDK version 1.6 or newer, or 8 KB in size for older SDK versions. The storage client library encodes the message content using Base64 when **EncodeMessage** is set to **true**, its default. Encode messages if message content can contain characters that are invalid in XML.

**Note**

Encoding with Base64 adds overhead to the message size. You can use **Convert.ToBase64String()** to verify content encoded with Base64 fits within the 64 KB message size limit.

After a client retrieves a message by calling the **GetMessage** or **GetMessages(Int32)** method, the client is expected to process and update the message. When a message is retrieved, its **PopReceipt** property is set to an opaque value that indicates the message has been read. The value of the message’s pop receipt is used to verify that the message being updated is the same message that was read.

A pop receipt remains valid until one of the following events occurs:

- The message has expired.
- The message has been deleted using the last pop receipt received either from **GetMessages(Int32)** or **UpdateMessage**.
- The invisibility time has elapsed and the message has been dequeued by a **GetMessages(Int32)** request. When the invisibility time elapses, the message becomes visible again. If it is retrieved by another **GetMessages(Int32)** request, the returned pop receipt can be used to delete or update the message.
- The message has been updated with a new visibility timeout. When the message is updated, a new pop receipt will be returned.

The **UpdateMessage** operation can be used to continually extend the invisibility...
of a queue message. This functionality can be useful if you want a worker role to “lease” a queue message. For example, if a worker role calls `GetMessages(Int32)` and recognizes that it needs more time to process a message, it can continually extend the message’s invisibility until it is processed. If the worker role were to fail during processing, eventually the message would become visible again and another worker role could process it.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue Properties

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>ApproximateMessageCount</code></td>
<td>Gets the approximate message count for the queue.</td>
</tr>
<tr>
<td><code>Attributes</code></td>
<td>Gets the queue's attributes, including its user-defined metadata.</td>
</tr>
<tr>
<td><code>EncodeMessage</code></td>
<td>Gets or sets a value indicating whether to apply Base64 encoding when adding or retrieving messages.</td>
</tr>
<tr>
<td><code>Metadata</code></td>
<td>Gets the queue's user-defined metadata.</td>
</tr>
<tr>
<td><code>Name</code></td>
<td>Gets the queue name.</td>
</tr>
<tr>
<td><code>ServiceClient</code></td>
<td>Gets the <code>CloudQueueClient</code> object that represents the Queue service.</td>
</tr>
<tr>
<td><code>Uri</code></td>
<td>Gets the URI that identifies the queue.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudQueue Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.ApproximateMessageCount Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the approximate message count for the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim instance As CloudQueue
Dim value As Nullable(Of Integer)

value = instance.ApproximateMessageCount
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Property ApproximateMessageCount As Nullable(Of Integer)</td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public Nullable&lt;int&gt; ApproximateMessageCount { get; }</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public: property Nullable&lt;int&gt; ApproximateMessageCount { Nullable&lt;int&gt; get (); }</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

- **Type**: `System.Nullable`

The approximate message count.
Remarks

To specify the lifespan of the approximate message count cache, set the `ApproximateMessageCountCacheLength` property. Messages that have been accessed with the `GetMessage` or `GetMessages` methods are included in this count unless they are deleted by using the `DeleteMessage` method.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.Attributes Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the queue's attributes, including its user-defined metadata.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Data Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim instance As</td>
<td>CloudQueue</td>
<td></td>
</tr>
<tr>
<td>Dim value As</td>
<td>QueueAttributes</td>
<td></td>
</tr>
</tbody>
</table>

value = instance.Attributes
## Syntax

### Visual Basic

```vbnet
Public ReadOnly Property Attributes As QueueAttributes
```

### C#

```csharp
public QueueAttributes Attributes { get; }
```

### C++

```cpp
public:
property QueueAttributes Attributes { 
	QueueAttributes get ();
}
```

### J#

```jsharp

```

### JScript

```javascript

```

## Property Value


The queue's attributes.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.EncodeMessage Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets a value indicating whether to apply Base64 encoding when adding or retrieving messages.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudQueue
Dim value As Boolean

value = instance.EncodeMessage

instance.EncodeMessage = value
## Syntax

### Visual Basic

```vbnet
Public Property EncodeMessage As Boolean
```

### C#

```csharp
public bool EncodeMessage { get; set; }
```

### C++

```cpp
public:
property bool EncodeMessage {
    bool get ();
    void set (bool value);
}
```

### J#

```vbnet

```

### JScript

```javascript

```

## Property Value

Type: `System.Boolean`

*True* to encode messages; otherwise, *false*. The default value is *true*. 
Remarks

The storage client library encodes the message content using Base64 when `EncodeMessage` is set to `true`. You can set this property to `false` if the content of your messages is safe to pass in XML as raw UTF-8 with no Base64 encoding.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.
  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
Gets the queue's user-defined metadata.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudQueue
Dim value As NameValueCollection

value = instance.Metadata
```
## Syntax

### Visual Basic

Public Property Metadata As NameValueCollection

### C#

public NameValueCollection Metadata { get; }

### C++

public:

property NameValueCollection^ Metadata {
    NameValueCollection^ get();
}

### J#


### JScript


## Property Value

Type: [System.Collections.Specialized.NameValueCollection](https://docs.microsoft.com/en-us/dotnet/api/system.collections.specialized.namecollectionvaluecollection)

The queue's user-defined metadata.
Remarks

For guidance about valid metadata names, see Naming Queues and Metadata.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.Name Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the queue name.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudQueue
Dim value As String

value = instance.Name
```
## Syntax

### Visual Basic

```
Public Property Name As String
```

### C#

```
public string Name { get; }
```

### C++

```
public:
    property String^ Name {
        String^ get ();
    }
```

### J#

```
public String Name { get; }
```

### JScript

```
Property Value

Type: System.String

The queue name.
Remarks

A queue name must conform to the following constraints:

- It must only contain lowercase letters, numbers, and hyphens.
- It must be between 3 and 63 characters long.
- It must begin and end with a lowercase letter or number.
- It may not contain contiguous hyphens ("--").
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Naming Queues and Metadata
CloudQueue.ServiceClient Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the CloudQueueClient object that represents the Queue service.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudQueue
Dim value As CloudQueueClient

value = instance.ServiceClient
```
Syntax

### Visual Basic

Public Property ServiceClient As **CloudQueueClient**

### C#

public **CloudQueueClient** ServiceClient { get; }

### C++

public:
property **CloudQueueClient**^ ServiceClient {
  **CloudQueueClient**^ get ();
}

### J#

### JScript

Property Value

Type: **Microsoft.WindowsAzure.StorageClient.CloudQueueClient**

A client object that specifies the Queue service endpoint.
- **Thread Safety**
  Any public static *(Shared in Visual Basic)* members of this type are thread safe.
  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueue.Uri Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the URI that identifies the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>
| Dim instance As `CloudQueue`  
Dim value As `Uri`  

value = instance.Uri |
## Syntax

### Visual Basic

```vbnet
Public ReadOnly Property Uri As Uri
```

### C#

```csharp
public Uri Uri { get; }
```

### C++

```cpp
public:
    property Uri^ Uri {
        Uri^ get ();
    }
```

### J#

```
```

### JScript

```
```

## Property Value

Type: System.Uri

The address of the queue.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudQueue Class
CloudQueue Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueClient Class

Provides a client for accessing the Windows Azure Queue service.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudQueueClient
### Syntax

<table>
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<tr>
<td>Visual Basic</td>
<td>Public Class CloudQueueClient</td>
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</table>
Inheritance Hierarchy

System.Object
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
Provides a client for accessing the Windows Azure Queue service.

The following tables list the members exposed by the CloudQueueClient type.

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Constructors

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<th>Description</th>
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## Public Properties

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<th>Description</th>
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<tbody>
<tr>
<td>![Key] ApproximateMessageCountCacheLength</td>
<td>Gets or sets the lifetime of the approximate message count cache. <strong>Obsolete.</strong></td>
</tr>
<tr>
<td>![Key] BaseUri</td>
<td>The base URI used to construct the Queue service client.</td>
</tr>
<tr>
<td>![Key] Credentials</td>
<td>Gets the account credentials used to create the Queue service client.</td>
</tr>
<tr>
<td>![Key] RetryPolicy</td>
<td>Gets or sets the default retry policy for requests made via the Queue service client.</td>
</tr>
<tr>
<td>![Key] Timeout</td>
<td>Gets or sets the server timeout for requests made via the Queue service client.</td>
</tr>
<tr>
<td>![Key] UsePathStyleUris</td>
<td>Gets a value indicating whether requests made via the Queue service client will employ path-style URIs.</td>
</tr>
</tbody>
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<table>
<thead>
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</thead>
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<td>Begins an asynchronous operation to get an account’s Queue service properties.</td>
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<tr>
<td><strong>BeginListQueuesSegmented</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>BeginSetServiceProperties</strong></td>
<td>Begins an asynchronous operation to set an account’s Queue service properties, including Windows Azure Storage Analytics.</td>
</tr>
<tr>
<td><strong>EndGetServiceProperties</strong></td>
<td>Ends an asynchronous operation to get an account’s Queue service properties.</td>
</tr>
<tr>
<td><strong>EndListQueuesSegmented</strong></td>
<td>Ends an asynchronous operation to return a result segment containing a collection of queues.</td>
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</tr>
<tr>
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<td>(Inherited from <code>Object</code>)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
<tr>
<td><strong>GetQueueReference</strong></td>
<td>Gets a reference to the queue at the specified address.</td>
</tr>
<tr>
<td><strong>GetServiceProperties</strong></td>
<td>Gets the properties of a storage account’s Queue service, including Windows Azure Storage Analytics.</td>
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<tr>
<td><strong>GetType</strong></td>
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<tr>
<td><strong>ListQueues</strong></td>
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<tr>
<td><strong>SetServiceProperties</strong></td>
<td>Sets the properties of a storage account’s Queue service, including Windows Azure Storage Analytics.</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>(Inherited from <code>Object</code>)</td>
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## Protected Methods

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<th>Name</th>
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<tbody>
<tr>
<td>Finalize</td>
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<td>MemberwiseClone</td>
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<tr>
<td>Name</td>
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</tr>
<tr>
<td>---------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>ResponseReceived</td>
<td>Occurs when a response is received from the server.</td>
</tr>
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See Also

Reference
CloudQueueClient Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueClient Constructor

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

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<thead>
<tr>
<th>Name</th>
<th>Description</th>
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<tbody>
<tr>
<td><code>CloudQueueClient(String, StorageCredentials)</code></td>
<td>Initializes a new instance of the <code>CloudQueueClient</code> class using the Queue service endpoint specified as a string, and the storage account credentials.</td>
</tr>
<tr>
<td><code>CloudQueueClient(Uri, StorageCredentials)</code></td>
<td>Initializes a new instance of the <code>CloudQueueClient</code> class using the specified Queue service endpoint URI, and the storage account credentials.</td>
</tr>
</tbody>
</table>
See Also

Reference

CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueClient Constructor (String, StorageCredentials)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudQueueClient class using the Queue service endpoint specified as a string, and the storage account credentials.

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

Visual Basic

Dim baseAddress As String
Dim credentials As StorageCredentials

Dim instance As New CloudQueueClient(baseAddress, cred
## Syntax

### Visual Basic

```
Public Sub New ( _
    baseAddress As String, _
    credentials As StorageCredentials _
)
```

### C#

```
public CloudQueueClient (  
    string baseAddress,  
    StorageCredentials credentials  
)
```

### C++

```
public:
CloudQueueClient (  
    String^ baseAddress,  
    StorageCredentials^ credentials  
)
```

### J#

```
```

### JScript

```
```

---

### Parameters

**baseAddress**

Type: `System.String`

The Queue service endpoint to use to create the client.
credentials
Type: Microsoft.WindowsAzure.StorageCredentials

The account credentials.
Platforms

Development Platforms
See Also

Reference

[CloudQueueClient Class](#)
[CloudQueueClient Members](#)
[Microsoft.WindowsAzure.StorageClient Namespace](#)
CloudQueueClient Constructor (Uri, StorageCredentials)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudQueueClient class using the specified Queue service endpoint URI, and the storage account credentials.

Namespace: Microsoft.WindowsAzure.StorageClient
## Usage

### Visual Basic

```vbnet
Dim baseAddressUri As Uri
Dim credentials As StorageCredentials

Dim instance As New CloudQueueClient(baseAddressUri,
```
### Syntax

#### Visual Basic

```vbnet
Public Sub New (_
    baseAddressUri As Uri, _
    credentials As StorageCredentials _
)
```

#### C#

```csharp
public CloudQueueClient (  
    Uri baseAddressUri,  
    StorageCredentials credentials
)
```

#### C++

```cpp
public:
CloudQueueClient (  
    Uri^ baseAddressUri,  
    StorageCredentials^ credentials
)
```

#### J#

```cs
```

#### JScript

```javascript
```

### Parameters

**baseAddressUri**

Type: `System.Uri`

The Queue service endpoint to use to create the client.
credentials
Type: Microsoft.WindowsAzure.StorageCredentials

The account credentials.
**Platforms**

**Development Platforms**
See Also

Reference
CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueClient Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods (see also **Protected Methods**)

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</tr>
<tr>
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<td>Begins an asynchronous operation to set an account’s Queue service properties, including Windows Azure Storage Analytics.</td>
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<td>Ends an asynchronous operation to return a result segment containing a collection of queues.</td>
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<tr>
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<td>Overloaded.</td>
</tr>
<tr>
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<td>Overloaded.</td>
</tr>
<tr>
<td><strong>SetServiceProperties</strong></td>
<td>Sets the properties of a storage account’s Queue service, including Windows Azure Storage Analytics.</td>
</tr>
<tr>
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</tr>
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### Protected Methods

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<tr>
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<td>(Inherited from Object)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudQueueClient Class
Microsoft.WindowsAzure.StorageClient Namespace
Begins an asynchronous operation to get an account’s Queue service properties.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As CloudQueueClient
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginGetServiceProperties(callback)
## Syntax

### Visual Basic

```vbnet
Public Function BeginGetServiceProperties ( _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginGetServiceProperties (  
    AsyncCallback callback,  
    Object state  
)
```

### C++

```cpp
public:  
IAsyncResult^ BeginGetServiceProperties (  
    AsyncCallback^ callback,  
    Object^ state  
)
```

### J#

```jsharp```

### JScript

```jscript```

## Parameters

**callback**

Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.
*state*

Type: **System.Object**

A user-defined object that will be passed to the callback delegate.

**Return Value**

Returns **IAsyncResult**.
Remarks

The local storage service currently does not support this method.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
| CloudQueueClient.BeginListQueuesSegmented Method |
| See Also |

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

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<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CloudQueueClient.BeginListQueuesSegmented (AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to return a result segment containing a collection of queues in the storage account.</td>
</tr>
<tr>
<td>CloudQueueClient.BeginListQueuesSegmented (String, QueueListingDetails, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to return a result segment containing a collection of queues whose names begin with the specified prefix, with each listing the specified queue details.</td>
</tr>
<tr>
<td>CloudQueueClient.BeginListQueuesSegmented (String, QueueListingDetails, Int32, ResultContinuation, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to return a result segment containing a collection of queues whose names begin with the specified prefix. Use this overload when you want to control the maximum number of results returned at a time, and when you want to use a continuation token to determine whether there are still more results to return from the service after the current page completes.</td>
</tr>
<tr>
<td>CloudQueueClient.BeginListQueuesSegmented (String, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to return a result segment containing a collection of queues whose names begin with the specified prefix.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
Begins an asynchronous operation to return a result segment containing a collection of queues in the storage account.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](https://docs.microsoft.com/en-us/storage/client-library) for the latest version.]
**Usage**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Dim instance As **CloudQueueClient**  
Dim callback As **AsyncCallback**  
Dim state As **Object**  
Dim returnValue As **IAAsyncResult** |

returnValue = instance.BeginListQueuesSegmented(callback)
Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Function BeginListQueuesSegmented ( _</td>
</tr>
<tr>
<td>callback As AsyncCallback, _</td>
</tr>
<tr>
<td>state As Object _</td>
</tr>
<tr>
<td>) As IAsyncResult</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public IAsyncResult BeginListQueuesSegmented (</td>
</tr>
<tr>
<td>AsyncCallback callback,</td>
</tr>
<tr>
<td>Object state</td>
</tr>
<tr>
<td>)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public:</td>
</tr>
<tr>
<td>IAsyncResult^ BeginListQueuesSegmented (</td>
</tr>
<tr>
<td>AsyncCallback^ callback,</td>
</tr>
<tr>
<td>Object^ state</td>
</tr>
<tr>
<td>)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>

Parameters

callback
Type: System.AsyncCallback

The callback delegate that will receive notification when the asynchronous operation completes.
state
Type: System.Object

A user-defined object that will be passed to the callback delegate.

Return Value

Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
Example

The following code example lists queues in result segments asynchronously.

```csharp
static void ListQueuesInSegmentsAsync(Uri queueEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access to the Queue service.
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Return a page of 10 queues beginning with the specified prefix.
    queueClient.BeginListQueuesSegmented("my", QueueListingDetails.Metadata, 10, null, ListQueuesInSegmentsAsyncCallback, queueClient);
}

static void ListQueuesInSegmentsAsyncCallback(IAsyncResult result)
{
    CloudQueueClient queueClient = (CloudQueueClient)result.AsyncState;
    ResultSegment<CloudQueue> resultSegment = queueClient.EndListQueuesSegmented(result);

    WriteQueuesInResultSegment(resultSegment);

    // Check that the page is complete.
    while (resultSegment.HasMoreResults)
    {
        resultSegment.BeginGetNext(GetNextCallback, resultSegment);
    }
}

static void GetNextCallback(IAsyncResult result)
{
    ResultSegment<CloudQueue> resultSegment = (ResultSegment<CloudQueue>)result.AsyncState;
    resultSegment = resultSegment.EndGetNext(result);
    WriteQueuesInResultSegment(resultSegment);
}

static void WriteQueuesInResultSegment(ResultSegment<CloudQueue> resultSegment)
```
{ foreach (CloudQueue queue in resultSegment.Results) {
    Console.WriteLine(queue.Name);
} }
Remarks

The BeginListQueuesSegmented method begins an operation to list queues in pages. To specify the page size to return, pass in a non-zero value for the maxResults parameter. Passing in zero for the maxResults parameter returns either the maximum number of results available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the HasMoreResults property to check whether the page is complete. For example, if you have specified a page size of 10,000, a value which exceeds the per-operation limit, HasMoreResults will return true, indicating that the page is not complete. Note that if you have not specified a page size, HasMoreResults will always be false.

If you have not specified a page size, or the value of maxResults is zero, then check the value of the ContinuationToken property to determine whether there are more results to return. The continuation token is non-null as long as there are more results to return from the service.

Call the GetNext method to return the next segment of results from the service.
Thread Safety

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueClient.BeginListQueuesSegmented Method (String, QueueListingDetails, AsyncCallback, Object)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to return a result segment containing a collection of queues whose names begin with the specified prefix, with each listing the specified queue details.

Namespace: Microsoft.WindowsAzure.StorageClient
## Usage

**Visual Basic**

<table>
<thead>
<tr>
<th>Dim instance As CloudQueueClient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim prefix As String</td>
</tr>
<tr>
<td>Dim detailsIncluded As QueueListingDetails</td>
</tr>
<tr>
<td>Dim callback As AsyncCallback</td>
</tr>
<tr>
<td>Dim state As Object</td>
</tr>
<tr>
<td>Dim returnValue As IAsyncResult</td>
</tr>
</tbody>
</table>

returnValue = instance.BeginListQueuesSegmented(prefix)
Syntax

Visual Basic

Public Function BeginListQueuesSegmented ( _
    prefix As String, _
    detailsIncluded As QueueListingDetails, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult

C#

public IAsyncResult BeginListQueuesSegmented ( 
    string prefix, 
    QueueListingDetails detailsIncluded, 
    AsyncCallback callback, 
    Object state 
)

C++

public:
    IAsyncResult^ BeginListQueuesSegmented ( 
        String^ prefix, 
        QueueListingDetails detailsIncluded, 
        AsyncCallback^ callback, 
        Object^ state 
)

J#

JScript
Parameters

prefix
    Type: System.String
    The queue name prefix.

detailsIncluded
    Type: Microsoft.WindowsAzure.StorageClient.QueueListingDetails
    One of the enumeration values that indicates which details to include in the listing.

callback
    Type: System.AsyncCallback
    The callback delegate that will receive notification when the asynchronous operation completes.

state
    Type: System.Object
    A user-defined object that will be passed to the callback delegate.

Return Value

Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
Example

The following code example lists queues in result segments asynchronously.

```csharp
static void ListQueuesInSegmentsAsync(Uri queueEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access to Queue service.
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Return a page of 10 queues beginning with the specified prefix.
    queueClient.BeginListQueuesSegmented("my", QueueListingDetails.Metadata, 10, null, ListQueuesInSegmentsAsyncCallback, queueClient);
}

static void ListQueuesInSegmentsAsyncCallback(IAsyncResult result)
{
    CloudQueueClient queueClient = (CloudQueueClient)result.AsyncState;
    ResultSegment<CloudQueue> resultSegment = queueClient.EndListQueuesSegmented(result);

    WriteQueuesInResultSegment(resultSegment);

    // Check that the page is complete.
    while (resultSegment.HasMoreResults)
    {
        resultSegment.BeginGetNext(GetNextCallback, resultSegment);
    }
}

static void GetNextCallback(IAsyncResult result)
{
    ResultSegment<CloudQueue> resultSegment = (ResultSegment<CloudQueue>)result.AsyncState;
    resultSegment = resultSegment.EndGetNext(result);
    WriteQueuesInResultSegment(resultSegment);
}

static void WriteQueuesInResultSegment(ResultSegment<CloudQueue> resultSegment)
```
foreach (CloudQueue queue in resultSegment.Result)
{
    Console.WriteLine(queue.Name);
}

Remarks

The **BeginListQueuesSegmented** method begins an operation to list queues in pages. To specify the page size to return, pass in a non-zero value for the `maxResults` parameter. Passing in zero for the `maxResults` parameter returns either the maximum number of results available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the `HasMoreResults` property to check whether the page is complete. For example, if you have specified a page size of 10,000, a value which exceeds the per-operation limit, `HasMoreResults` will return `true`, indicating that the page is not complete. Note that if you have not specified a page size, `HasMoreResults` will always be `false`.

If you have not specified a page size, or the value of `maxResults` is zero, then check the value of the `ContinuationToken` property to determine whether there are more results to return. The continuation token is non-null as long as there are more results to return from the service.

Call the `GetNext` method to return the next segment of results from the service.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference

CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueClient.BeginListQueuesSegmented Method (String, QueueListingDetails, Int32, ResultContinuation, AsyncCallback, Object)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to return a result segment containing a collection of queues whose names begin with the specified prefix. Use this overload when you want to control the maximum number of results returned at a time, and when you want to use a continuation token to determine whether there are still more results to return from the service after the current page completes.

Namespace: Microsoft.WindowsAzure.StorageClient
Visual Basic

Dim instance As CloudQueueClient
Dim prefix As String
Dim detailsIncluded As QueueListingDetails
Dim maxResults As Integer
Dim continuationToken As ResultContinuation
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginListQueuesSegmented(prefix, maxResults, continuationToken, callback, state)
## Syntax

### Visual Basic

```vbnet
Public Function BeginListQueuesSegmented ( _
    prefix As String, _
    detailsIncluded As QueueListingDetails, _
    maxResults As Integer, _
    continuationToken As ResultContinuation, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginListQueuesSegmented ( 
    string prefix,
    QueueListingDetails detailsIncluded,
    int maxResults,
    ResultContinuation continuationToken,
    AsyncCallback callback,
    Object state
)
```

### C++

```cpp
public: 
IAsyncResult^ BeginListQueuesSegmented ( 
    String^ prefix,
    QueueListingDetails detailsIncluded,
    int maxResults,
    ResultContinuation^ continuationToken,
    AsyncCallback^ callback,
    Object^ state
)
```
Parameters

prefix
Type: System.String

The queue name prefix.

detailsIncluded
Type: Microsoft.WindowsAzure.StorageClient.QueueListingDetails

One of the enumeration values that indicates which details to include in the listing.

maxResults
Type: System.Int32

A non-negative integer value that indicates the maximum number of results to be returned at a time, up to the per-operation limit of 5000. If this value is zero, the maximum possible number of results will be returned, up to 5000.

continuationToken
Type: Microsoft.WindowsAzure.StorageClient.ResultContinuation

A continuation token returned by a previous listing operation.

callback
Type: System.AsyncCallback

The callback delegate that will receive notification when the asynchronous operation completes.

state
Type: System.Object

A user-defined object that will be passed to the callback delegate.
Return Value

Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
Example

The following code example lists queues in result segments asynchronously.

```csharp
static void ListQueuesInSegmentsAsync(Uri queueEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Queue service.
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Return a page of 10 queues beginning with the specified prefix.
    queueClient.BeginListQueuesSegmented("my", QueueListingDetails.Metadata, 10, null, ListQueuesInSegmentsAsyncCallback, queueClient);
}

static void ListQueuesInSegmentsAsyncCallback(IAsyncResult result)
{
    CloudQueueClient queueClient = (CloudQueueClient)result.AsyncState;
    ResultSegment<CloudQueue> resultSegment = queueClient.EndListQueuesSegmented(result);

    WriteQueuesInResultSegment(resultSegment);

    //Check that the page is complete.
    while (resultSegment.HasMoreResults)
    {
        resultSegment.BeginGetNext(GetNextCallback, resultSegment);
    }
}

static void GetNextCallback(IAsyncResult result)
{
    ResultSegment<CloudQueue> resultSegment = (ResultSegment<CloudQueue>)result.AsyncState;
    resultSegment = resultSegment.EndGetNext(result);
    WriteQueuesInResultSegment(resultSegment);
}

static void WriteQueuesInResultSegment(ResultSegment<CloudQueue> resultSegment)
{
    // code for writing queues in the result segment
}
```
```csharp
foreach (CloudQueue queue in resultSegment.Result)
{
    Console.WriteLine(queue.Name);
}
```
Remarks

The BeginListQueuesSegmented method begins an operation to list queues in pages. To specify the page size to return, pass in a non-zero value for the maxResults parameter. Passing in zero for the maxResults parameter returns either the maximum number of results available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the HasMoreResults property to check whether the page is complete. For example, if you have specified a page size of 10,000, a value which exceeds the per-operation limit, HasMoreResults will return true, indicating that the page is not complete. Note that if you have not specified a page size, HasMoreResults will always be false.

If you have not specified a page size, or the value of maxResults is zero, then check the value of the ContinuationToken property to determine whether there are more results to return. The continuation token is non-null as long as there are more results to return from the service.

Call the GetNext method to return the next segment of results from the service.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
Begins an asynchronous operation to return a result segment containing a collection of queues whose names begin with the specified prefix.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
**Usage**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim instance As CloudQueueClient</td>
</tr>
<tr>
<td>Dim prefix As String</td>
</tr>
<tr>
<td>Dim callback As AsyncCallback</td>
</tr>
<tr>
<td>Dim state As Object</td>
</tr>
<tr>
<td>Dim returnValue As IAsyncResult</td>
</tr>
</tbody>
</table>

returnValue = instance.BeginListQueuesSegmented(prefix)
Syntax

Visual Basic

Public Function BeginListQueuesSegmented ( _
    prefix As String, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult

C#

public IAsyncResult BeginListQueuesSegmented ( string prefix,
    AsyncCallback callback,
    Object state
)

C++

public:
IAsyncResult^ BeginListQueuesSegmented ( 
    String^ prefix,
    AsyncCallback^ callback,
    Object^ state
)

J#

JScript

Parameters

prefix
Type: **System.String**

The queue name prefix.

*callback*
Type: **System.AsyncCallback**

The callback delegate that will receive notification when the asynchronous operation completes.

*state*
Type: **System.Object**

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: **System.IAsyncResult**

An **IAsyncResult** that references the asynchronous operation.
static void ListQueuesInSegmentsAsync(Uri queueEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to Queue service.
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Return a page of 10 queues beginning with the specified prefix.
    queueClient.BeginListQueuesSegmented("my", QueueListingDetails.Metadata, 10, null, ListQueuesInSegmentsAsyncCallback, queueClient);
}

static void ListQueuesInSegmentsAsyncCallback(IAsyncResult result)
{
    CloudQueueClient queueClient = (CloudQueueClient)result.AsyncState;
    ResultSegment<CloudQueue> resultSegment = queueClient.EndListQueuesSegmented(result);

    WriteQueuesInResultSegment(resultSegment);

    //Check that the page is complete.
    while (resultSegment.HasMoreResults)
    {
        resultSegment.BeginGetNext(GetNextCallback, resultSegment);
    }
}

static void GetNextCallback(IAsyncResult result)
{
    ResultSegment<CloudQueue> resultSegment = (ResultSegment<CloudQueue>)result.AsyncState;
    resultSegment = resultSegment.EndGetNext(result);
    WriteQueuesInResultSegment(resultSegment);
}

static void WriteQueuesInResultSegment(ResultSegment<CloudQueue> resultSegment)
foreach (CloudQueue queue in resultSegment.Results)
{
    Console.WriteLine(queue.Name);
}

Remarks

The **BeginListQueuesSegmented** method begins an operation to list queues in pages. To specify the page size to return, pass in a non-zero value for the `maxResults` parameter. Passing in zero for the `maxResults` parameter returns either the maximum number of results available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the `HasMoreResults` property to check whether the page is complete. For example, if you have specified a page size of 10,000, a value which exceeds the per-operation limit, `HasMoreResults` will return `true`, indicating that the page is not complete. Note that if you have not specified a page size, `HasMoreResults` will always be `false`.

If you have not specified a page size, or the value of `maxResults` is zero, then check the value of the `ContinuationToken` property to determine whether there are more results to return. The continuation token is non-null as long as there are more results to return from the service.

Call the `GetNext` method to return the next segment of results from the service.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueClient.BeginSetServiceProperties Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to set an account’s Queue service properties, including Windows Azure Storage Analytics.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Dim instance As CloudQueueClient
Dim properties As ServiceProperties
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginSetServiceProperties(properties...)}
## Syntax

### Visual Basic

```vbnet
Public Function BeginSetServiceProperties ( 
    properties As ServiceProperties, 
    callback As AsyncCallback, 
    state As Object 
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginSetServiceProperties ( 
    ServiceProperties properties, 
    AsyncCallback callback, 
    Object state
)
```

### C++

```cpp
public: 
    IAsyncResult^ BeginSetServiceProperties ( 
        ServiceProperties^ properties, 
        AsyncCallback^ callback, 
        Object^ state
    )
```

### J#

```
```

### JScript

```
```

## Parameters

- `properties`
The Queue service settings to set.

*callback*
Type: System.AsyncCallback

The callback delegate that will receive notification when the asynchronous operation completes.

*state*
Type: System.Object

A user-defined object that will be passed to the callback delegate.

**Return Value**

Returns IAsyncResult.
Remarks

The *properties* parameter specifies the logging and metrics for the account’s Queue service.

The local storage service currently does not support this method.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.

Ends an asynchronous operation to get an account’s Queue service properties.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudQueueClient
Dim asyncResult As IAsyncResult
Dim returnValue As ServiceProperties

returnValue = instance.EndGetServiceProperties(asyncResult)
```
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Function EndGetServiceProperties ( _ asyncResult As IAsyncResult _ ) As ServiceProperties</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>public ServiceProperties EndGetServiceProperties ( IAsyncResult asyncResult )</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>public: ServiceProperties^ EndGetServiceProperties ( IAsyncResult^ asyncResult )</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
<th></th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Parameters**

*asyncResult*

Type: System.IAsyncResult

An IAsyncResult that references the pending asynchronous operation.

**Return Value**

Returns an ServiceProperties object that contains the service settings.
Remarks

The local storage service currently does not support this method.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to return a result segment containing a collection of queues.

**Namespace**: Microsoft.WindowsAzure.StorageClient  
Dim instance As CloudQueueClient
Dim asyncResult As IAsyncResult
Dim returnValue As ResultSegment(Of CloudQueue)

returnValue = instance.EndListQueuesSegmented(asyncResult)
## Syntax

### Visual Basic

```vbnet
Public Function EndListQueuesSegmented ( _
    asyncResult As IAsyncResult _
) As ResultSegment(Of CloudQueue)
```

### C#

```csharp
public ResultSegment<CloudQueue> EndListQueuesSegmented (
    IAsyncResult asyncResult
)
```

### C++

```cpp
public:
ResultSegment<CloudQueue^>^ EndListQueuesSegmented ( 
    IAsyncResult^ asyncResult
)
```

### J#

JScript

### Parameters

**asyncResult**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the pending asynchronous operation.

### Return Value
Type: Microsoft.WindowsAzure.StorageClient.ResultSegment

A result segment containing the results of the first request.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueClient.EndSetServiceProperties Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to set an account’s Queue service properties.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudQueueClient
Dim asyncResult As IAsyncResult

instance.EndSetServiceProperties(asyncResult)
```
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Sub EndSetServiceProperties (_ asyncResult As IAsyncResult _)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public void EndSetServiceProperties ( IAsyncResult asyncResult )</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: void EndSetServiceProperties ( IAsyncResult^ asyncResult )</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>

**Parameters**

*asyncResult*

Type: System.IAsyncResult

An IAsyncResult that references the pending asynchronous operation.
Remarks

The local storage service currently does not support this method.
- **Thread Safety**

  Any public static (*Shared* in Visual Basic) members of this type are thread safe.
  Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
See Also

Reference
CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
Gets a reference to the queue at the specified address.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Visual Basic**

```vbnet
Dim instance As CloudQueueClient
Dim queueAddress As String
Dim returnValue As CloudQueue

returnValue = instance.GetQueueReference(queueAddress)
```
## Syntax

### Visual Basic

```vbnet
Public Function GetQueueReference ( _
    queueAddress As String _
) As CloudQueue
```

### C#

```csharp
public CloudQueue GetQueueReference ( _
    string queueAddress
)
```

### C++

```cpp
public:
CloudQueue^ GetQueueReference ( _
    String^ queueAddress
)
```

### J#

```
```

### JScript

```
```

## Parameters

**queueAddress**

Type: `System.String`

Either the name of the queue, or the absolute URI to the queue.

## Return Value

Type: `Microsoft.WindowsAzure.StorageClient.CloudQueue`
A reference to the queue.
Example

The following code example gets a reference to a queue and creates it if it does not exist.

```csharp
static void CreateQueue(Uri queueEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Queue service.
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a queue in this storage account.
    CloudQueue queue = queueClient.GetQueueReference("myqueue");

    //Check whether the queue exists, and create it if it does not.
    if (!queue.Exists())
    {
        queue.Create();
    }
}
```
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueClient.GetServiceProperties Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the properties of a storage account’s Queue service, including Windows Azure Storage Analytics.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

```visualbasic
Dim instance As CloudQueueClient
Dim returnValue As ServiceProperties

returnValue = instance.GetServiceProperties
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Function GetServiceProperties As ServiceProperties</code></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td><code>public ServiceProperties GetServiceProperties ()</code></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><code>public: ServiceProperties^ GetServiceProperties ()</code></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Return Value

Returns a `ServiceProperties` object that contains the account’s Queue service settings.
Remarks

The local storage service currently does not support this method.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
**CloudQueueClient.ListQueues Method**

**See Also**

This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CloudQueueClient.ListQueues ()</td>
<td>Returns an enumerable collection of the queues in the storage account.</td>
</tr>
<tr>
<td>CloudQueueClient.ListQueues (String)</td>
<td>Returns an enumerable collection of the queues in the storage account whose names begin with the specified prefix.</td>
</tr>
<tr>
<td>CloudQueueClient.ListQueues (String, QueueListingDetails)</td>
<td>Returns an enumerable collection of the queues in the storage account whose names begin with the specified prefix and that are retrieved lazily.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
Returns an enumerable collection of the queues in the storage account.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudQueueClient
Dim returnValue As IEnumerable(Of CloudQueue)

returnValue = instance.ListQueues
```
Syntax

Visual Basic

Public Function ListQueues As IEnumerable(Of CloudQueue)

C#

public IEnumerable<CloudQueue> ListQueues ()

C++

public: 
IEnumerable<CloudQueue>^ ListQueues ()

J#

JScript

Return Value

Type: System.Collections.Generic.IEnumerable

An enumerable collection of queues.
The following code example lists all of the queues in the account, next lists queues beginning with a specified prefix, and finally lists queues with metadata included in the listing.

```csharp
static void ListQueuesInAccount(Uri queueEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to Queue service.
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //List all of the queues in account.
    foreach (var queue in queueClient.ListQueues())
    {
        Console.WriteLine(queue.Name);
    }
    Console.WriteLine();

    //List all of the queues in account beginning with the specified prefix.
    foreach (var queue in queueClient.ListQueues("my"))
    {
        Console.WriteLine(queue.Name);
    }
    Console.WriteLine();

    //List all of the queues in account beginning with the specified prefix, and also return queue metadata.
    foreach (var queue in queueClient.ListQueues("my", QueueListingDetails.Metadata))
    {
        Console.WriteLine(queue.Name);
        //Enumerate the queue's metadata.
        foreach (var metadataKey in queue.Metadata.Keys)
        {
            Console.WriteLine("\tMetadata name: " + metadataKey.ToString());
        }
    }
}
```
Console.WriteLine();
Remarks

The **ListQueues** method will return all queues in the storage account. The **ListQueues** method enumerates queues lazily, so results are retrieved from the server as they are needed.

To list queues in pages of a specified size, use the **ListQueuesSegmented** or **BeginListQueuesSegmented** method.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueClient.ListQueues Method (String)

See Also: Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns an enumerable collection of the queues in the storage account whose names begin with the specified prefix.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

#### Visual Basic

```vbnet
Dim instance As CloudQueueClient
Dim prefix As String
Dim returnValue As IEnumerable(Of CloudQueue)

returnValue = instance.ListQueues(prefix)
```
## Syntax

### Visual Basic

```vbnet
Public Function ListQueues ( _
    prefix As String _
) As IEnumerable(Of CloudQueue)
```

### C#

```csharp
public IEnumerable<CloudQueue> ListQueues ( 
    string prefix
)
```

### C++

```cpp
public: 
IEnumerable<CloudQueue^>^ ListQueues ( 
    String^ prefix
)
```

### J#

```
```

### JScript

```
```

## Parameters

**prefix**

Type: `System.String`

The queue name prefix.

## Return Value

Type: `System.Collections.Generic.IEnumerable`
An enumerable collection of queues.
Example

The following code example lists all of the queues in the account, next lists queues beginning with a specified prefix, and finally lists queues with metadata included in the listing.

```csharp
static void ListQueuesInAccount(Uri queueEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Queue service.
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //List all of the queues in account.
    foreach(var queue in queueClient.ListQueues())
    {
        Console.WriteLine(queue.Name);
    }
    Console.WriteLine();

    //List all of the queues in account beginning with the specified prefix.
    foreach(var queue in queueClient.ListQueues("my"))
    {
        Console.WriteLine(queue.Name);
    }
    Console.WriteLine();

    //List all of the queues in account beginning with the specified prefix, and also return queue metadata.
    foreach (var queue in queueClient.ListQueues("my", QueueListingDetails.Metadata))
    {
        Console.WriteLine(queue.Name);
        //Enumerate the queue's metadata.
        foreach (var metadataKey in queue.Metadata.Keys)
        {
            Console.WriteLine("\tMetadata name: " + metadataKey.ToString());
        }
    }
}```
        }        
        }        
        Console.WriteLine();
Remarks

The **ListQueues** method will return all queues in the storage account. The **ListQueues** method enumerates queues lazily, so results are retrieved from the server as they are needed.

To list queues in pages of a specified size, use the [ListQueuesSegmented](#) or [BeginListQueuesSegmented](#) method.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueClient.ListQueues Method (String, QueueListingDetails)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns an enumerable collection of the queues in the storage account whose names begin with the specified prefix and that are retrieved lazily.

Namespace: Microsoft.WindowsAzure.StorageClient  
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudQueueClient
Dim prefix As String
Dim detailsIncluded As QueueListingDetails
Dim returnValue As IEnumerable(Of CloudQueue)

returnValue = instance.ListQueues(prefix, detailsIncluded)
```
## Syntax

**Visual Basic**

```vbnet
Public Function ListQueues ( _
    prefix As String, _
    detailsIncluded As QueueListingDetails _
) As IEnumerable(Of CloudQueue)
```

### C#

```csharp
public IEnumerable<CloudQueue> ListQueues (  
    string prefix,
    QueueListingDetails detailsIncluded
)
```

### C++

```cpp
public:  
IEnumerable<CloudQueue>^ ListQueues (  
    String^ prefix,
    QueueListingDetails detailsIncluded
)
```

### J#

```jsharp```

### JScript

```jscript```

### Parameters

**prefix**  
Type: `System.String`

The queue name prefix.
**detailsIncluded**

Type: `Microsoft.WindowsAzure.StorageClient.QueueListingDetails`

One of the enumeration values that indicates which details to include in the listing.

**Return Value**

Type: `System.Collections.Generic.IEnumerable`  

An enumerable collection of queues that are retrieved lazily.
Example

The following code example lists all of the queues in the account, next lists queues beginning with a specified prefix, and finally lists queues with metadata included in the listing.

```csharp
static void ListQueuesInAccount(Uri queueEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to the Queue service.
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //List all of the queues in account.
    foreach (var queue in queueClient.ListQueues())
    {
        Console.WriteLine(queue.Name);
    }
    Console.WriteLine();

    //List all of the queues in account beginning with the specified prefix.
    foreach (var queue in queueClient.ListQueues("my"))
    {
        Console.WriteLine(queue.Name);
    }
    Console.WriteLine();

    //List all of the queues in account beginning with the specified prefix, and also return queue metadata.
    foreach (var queue in queueClient.ListQueues("my", QueueListingDetails.Metadata))
    {
        Console.WriteLine(queue.Name);

        //Enumerate the queue's metadata.
        foreach (var metadataKey in queue.Metadata.Keys)
        {
            Console.WriteLine("\tMetadata name: " + metadataKey.ToString());
        }
    }
}
```
} } Console.WriteLine();
}
Remarks

The **ListQueues** method will return all queues in the storage account. The **ListQueues** method enumerates queues lazily, so results are retrieved from the server as they are needed.

To list queues in pages of a specified size, use the **ListQueuesSegmented** or **BeginListQueuesSegmented** method.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference

CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudQueueClient.ListQueuesSegmented</code></td>
<td>Returns a result segment containing a collection of queues in the storage account.</td>
</tr>
<tr>
<td><code>CloudQueueClient.ListQueuesSegmented(String, QueueListingDetails)</code></td>
<td>Returns a result segment containing a collection of queues whose names begin with the specified prefix, with each listing the specified queue details.</td>
</tr>
<tr>
<td><code>CloudQueueClient.ListQueuesSegmented(String, QueueListingDetails, Int32, ResultContinuation)</code></td>
<td>Returns a result segment containing a collection of queues whose names begin with the specified prefix, with each listing the specified queue details. Use this overload when you want to control the maximum number of results returned at a time, and when you want to use a continuation token to determine whether there are more results to return from the service after the current page completes.</td>
</tr>
</tbody>
</table>
See Also

Reference

CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueClient.ListQueuesSegmented Method ()

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a result segment containing a collection of queues in the storage account.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudQueueClient
Dim returnValue As ResultSegment(Of CloudQueue)

returnValue = instance.ListQueuesSegmented
```
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Public Function</strong> ListQueuesSegmented As ResultSegment()**</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>public ResultSegment&lt;CloudQueue&gt; ListQueuesSegmented()</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>public: ResultSegment&lt;CloudQueue&gt;^&gt;^ ListQueuesSegmented ()</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>

## Return Value

Type: Microsoft.WindowsAzure.StorageClient.ResultSegment

A result segment containing a collection of queues.
Example

The following code example lists queues in pages of ten.

```csharp
static void ListQueuesInSegments(Uri queueEndpoint, string accountName, string accountKey)
{
    // Create service client for credentialed access to the Queue service.
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint,
        new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Return a page of 10 queues beginning with the specified prefix.
    ResultSegment<CloudQueue> resultSegment = queueClient.ListQueuesSegmented("my",
        QueueListingDetails.None, 10, null);
    WriteQueuesInResultSegment(resultSegment);

    Console.WriteLine();

    // Check that the page is complete.
    while (resultSegment.HasMoreResults)
    {
        resultSegment = resultSegment.GetNext();
        WriteQueuesInResultSegment(resultSegment);
    }

    Console.WriteLine();
}
```
Remarks

The `ListQueuesSegmented` method lists queues in pages. To specify the page size to return, pass in a non-zero value for the `maxResults` parameter. Passing in zero for the `maxResults` parameter returns either the maximum number of result available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the `HasMoreResults` property to check whether the page is complete. For example, if you have specified a page size of 10,000, a value which exceeds the per-operation limit, `HasMoreResults` will return `true`, indicating that the page is not complete. Note that if you have not specified a page size, `HasMoreResults` will always be `false`.

If you have not specified a page size, or the value of `maxResults` is zero, then check the value of the `ContinuationToken` property to determine whether there are more results to return. The continuation token is non-null as long as there are more results to return from the service.

Call the `GetNext` method to return the next segment of results from the service.
- **Thread Safety**

  Any public static (Shared in Visual Basic) members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a result segment containing a collection of queues whose names begin with the specified prefix, with each listing the specified queue details.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudQueueClient
Dim prefix As String
Dim detailsIncluded As QueueListingDetails
Dim returnValue As ResultSegment(Of CloudQueue)

returnValue = instance.ListQueuesSegmented(prefix, detailsIncluded)
## Syntax

### Visual Basic

Public Function ListQueuesSegmented ( _
    prefix As String, _
    detailsIncluded As QueueListingDetails _
) As ResultSegment(Of CloudQueue)

### C#

public ResultSegment<CloudQueue> ListQueuesSegmented (
    string prefix,
    QueueListingDetails detailsIncluded
)

### C++

public:
ResultSegment<CloudQueue>^ ListQueuesSegmented ( 
    String^ prefix,
    QueueListingDetails detailsIncluded
)

### JScript

### Parameters

- **prefix**
  - Type: System.String
  - The queue name prefix.
**detailsIncluded**

Type: `Microsoft.WindowsAzure.StorageClient.QueueListingDetails`

One of the enumeration values that indicates which details to include in the listing.

**Return Value**

Type: `Microsoft.WindowsAzure.StorageClient.ResultSegment`

A result segment containing a collection of queues.
Example

The following code example lists queues in pages of ten.

```csharp
static void ListQueuesInSegments(Uri queueEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to Queue service.
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Return a page of 10 queues beginning with the specified prefix.
    ResultSegment<CloudQueue> resultSegment = queueClient.ListQueuesSegmented("my", QueueListingDetails.None, 10, null);
    WriteQueuesInResultSegment(resultSegment);

    Console.WriteLine();

    //Check that the page is complete.
    while (resultSegment.HasMoreResults)
    {
        resultSegment = resultSegment.GetNext();
        WriteQueuesInResultSegment(resultSegment);
    }

    Console.WriteLine();
}
```
Remarks

The ListQueuesSegmented method lists queues in pages. To specify the page size to return, pass in a non-zero value for the maxResults parameter. Passing in zero for the maxResults parameter returns either the maximum number of result available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the HasMoreResults property to check whether the page is complete. For example, if you have specified a page size of 10,000, a value which exceeds the per-operation limit, HasMoreResults will return true, indicating that the page is not complete. Note that if you have not specified a page size, HasMoreResults will always be false.

If you have not specified a page size, or the value of maxResults is zero, then check the value of the ContinuationToken property to determine whether there are more results to return. The continuation token is non-null as long as there are more results to return from the service.

Call the GetNext method to return the next segment of results from the service.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueClient.ListQueuesSegmented Method (String, QueueListingDetails, Int32, ResultContinuation)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a result segment containing a collection of queues whose names begin with the specified prefix, with each listing the specified queue details. Use this overload when you want to control the maximum number of results returned at a time, and when you want to use a continuation token to determine whether there are more results to return from the service after the current page completes.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

#### Visual Basic

```vbnet
Dim instance As CloudQueueClient
Dim prefix As String
Dim detailsIncluded As QueueListingDetails
Dim maxResults As Integer
Dim continuationToken As ResultContinuation
Dim returnValue As ResultSegment(Of CloudQueue)

returnValue = instance.ListQueuesSegmented(prefix, detailsIncluded)
```
### Syntax

#### Visual Basic

```vbnet
Public Function ListQueuesSegmented ( _
    prefix As String, _
    detailsIncluded As QueueListingDetails, _
    maxResults As Integer, _
    continuationToken As ResultContinuation _
) As ResultSegment(Of CloudQueue)
```

#### C#

```csharp
public ResultSegment&lt;CloudQueue&gt; ListQueuesSegmented ( _
    string prefix, _
    QueueListingDetails detailsIncluded, _
    int maxResults, _
    ResultContinuation continuationToken _
)
```

#### C++

```cpp
public:
    ResultSegment&lt;CloudQueue^&gt;^ ListQueuesSegmented ( _
    String^ prefix, _
    QueueListingDetails detailsIncluded, _
    int maxResults, _
    ResultContinuation^ continuationToken _
)
```

#### J#

```jsharp```

#### JScript

```jscript```
**Parameters**

*prefix*

Type: `System.String`

The queue name prefix.

*detailsIncluded*

Type: `Microsoft.WindowsAzure.StorageClient.QueueListingDetails`

One of the enumeration values that indicates which details to include in the listing.

*maxResults*

Type: `System.Int32`

A non-negative integer value that indicates the maximum number of results to be returned at a time, up to the per-operation limit of 5000. If this value is zero, the maximum possible number of results will be returned, up to 5000.

*continuationToken*

Type: `Microsoft.WindowsAzure.StorageClient.ResultContinuation`

A continuation token returned by a previous listing operation.

**Return Value**

Type: `Microsoft.WindowsAzure.StorageClient.ResultSegment`

A result segment containing a collection of queues.
The following code example lists queues in pages of ten.

```csharp
static void ListQueuesInSegments(Uri queueEndpoint, string accountName, string accountKey)
{
    //Create service client for credentialed access to Queue service.
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Return a page of 10 queues beginning with the specified prefix.
    ResultSegment<CloudQueue> resultSegment = queueClient.ListQueuesSegmented("my", QueueListingDetails.None, 10, null);
    WriteQueuesInResultSegment(resultSegment);

    Console.WriteLine();

    //Check that the page is complete.
    while (resultSegment.HasMoreResults)
    {
        resultSegment = resultSegment.GetNext();
        WriteQueuesInResultSegment(resultSegment);
    }

    Console.WriteLine();
}
```
Remarks

The **ListQueuesSegmented** method lists queues in pages. To specify the page size to return, pass in a non-zero value for the *maxResults* parameter. Passing in zero for the *maxResults* parameter returns either the maximum number of result available, or the per-operation limit of 5000 results.

If you have specified a page size, you can check the **HasMoreResults** property to check whether the page is complete. For example, if you have specified a page size of 10,000, a value which exceeds the per-operation limit, **HasMoreResults** will return **true**, indicating that the page is not complete. Note that if you have not specified a page size, **HasMoreResults** will always be **false**.

If you have not specified a page size, or the value of *maxResults* is zero, then check the value of the **ContinuationToken** property to determine whether there are more results to return. The continuation token is non-null as long as there are more results to return from the service.

Call the **GetNext** method to return the next segment of results from the service.
- **Thread Safety**

  Any public static (Shared in Visual Basic) members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference

CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueClient.SetServiceProperties Method

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Sets the properties of a storage account’s Queue service, including Windows Azure Storage Analytics.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudQueueClient
Dim properties As ServiceProperties

instance.SetServiceProperties(properties)
```
## Syntax

### Visual Basic

```vbnet
Public Sub SetServiceProperties (_
    properties As ServiceProperties _
)
```

### C#

```csharp
public void SetServiceProperties (    
    ServiceProperties properties
)
```

### C++

```cpp
public:
void SetServiceProperties (    
    ServiceProperties^ properties
)
```

### J#

```jsh
```

### JScript

```jsx
```

## Parameters

- **properties**
  - The Queue service settings to set.
Example

The following snippet enables all logging and metrics for queue activities in the storage account with a 7 day retention period.

```csharp
CloudQueueClient client = storageAccount.CreateCloudQueueClient();
ServiceProperties sp = new ServiceProperties();
sp.Logging.Version = "1.0";
sp.Logging.RetentionDays = 7;
sp.Logging.LoggingOperations = LoggingOperations.All;
sp.Metrics.Version = "1.0";
sp.Metrics.MetricsLevel = MetricsLevel.ServiceAndApi;
client.SetServiceProperties(sp);
```
Remarks

The *properties* parameter specifies the logging and metrics for the account’s Queue service.

The local storage service currently does not support this method.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
ServiceProperties

Other Resources
Storage Analytics Overview
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ApproximateMessageCountCacheLength</strong></td>
<td>Gets or sets the lifetime of the approximate message count cache. <strong>Obsolete.</strong></td>
</tr>
<tr>
<td><strong>BaseUri</strong></td>
<td>The base URI used to construct the Queue service client.</td>
</tr>
<tr>
<td><strong>Credentials</strong></td>
<td>Gets the account credentials used to create the Queue service client.</td>
</tr>
<tr>
<td><strong>RetryPolicy</strong></td>
<td>Gets or sets the default retry policy for requests made via the Queue service client.</td>
</tr>
<tr>
<td><strong>Timeout</strong></td>
<td>Gets or sets the server timeout for requests made via the Queue service client.</td>
</tr>
<tr>
<td><strong>UsePathStyleUris</strong></td>
<td>Gets a value indicating whether requests made via the Queue service client will employ path-style URIs.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudQueueClient Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueClient.ApproximateMessageCountCacheLength Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the lifetime of the approximate message count cache.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudQueueClient
Dim value As TimeSpan

value = instance.ApproximateMessageCountCacheLength

instance.ApproximateMessageCountCacheLength = value
```
**Syntax**

**Visual Basic**

```vbnet
<ObsoleteAttribute("The approximate message count cache is obsolete. Use FetchAttributes to refresh the approximate message count as needed.")>
Public Property ApproximateMessageCountCacheLength As
```

**C#**

```csharp
[ObsoleteAttribute("The approximate message count cache is obsolete. Use FetchAttributes to refresh the approximate message count as needed.")]
public TimeSpan ApproximateMessageCountCacheLength {
    get;
    set (TimeSpan value);
}
```

**C++**

```cpp
[ObsoleteAttribute(L"The approximate message count cache is obsolete.")]
public:
property TimeSpan ApproximateMessageCountCacheLength
    get ();
    void set (TimeSpan value);
```

**J#**

```java
```

**JScript**

```javascript
```

**Property Value**

Type: [System.TimeSpan](https://docs.microsoft.com/en-us/dotnet/api/system.timespan)

The lifetime of the approximate message count cache.
Remarks

This method is obsolete. Use FetchAttributes instead.

This value determines how often the cache for the queue's approximate message count is refreshed. By default the lifetime of the cache is TimeSpan.Zero, and the approximate message count value is updated from the service each time the RetrieveApproximateMessageCount method is called.

Setting this value to a non-zero TimeSpan can improve performance if you are checking the approximate message count value frequently.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueClient.BaseUri Property

The base URI used to construct the Queue service client.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
Usage

Visual Basic

```vbnet
Dim instance As CloudQueueClient
Dim value As Uri

value = instance.BaseUri
```
### Syntax

<table>
<thead>
<tr>
<th>Framework</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property BaseUri As Uri</code></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td><code>public Uri BaseUri { get; }</code></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><code>public: property Uri^ BaseUri {</code></td>
</tr>
<tr>
<td></td>
<td><code>    Uri^ get ();</code></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

- **Type:** System.Uri
- Returns Uri.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueClient.Credentials Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the account credentials used to create the Queue service client.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

<table>
<thead>
<tr>
<th>Dim instance As CloudQueueClient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim value As StorageCredentials</td>
</tr>
</tbody>
</table>

value = instance.Credentials
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Property Credentials As <strong>StorageCredentials</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public <strong>StorageCredentials</strong> Credentials { get; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: property <strong>StorageCredentials</strong>^ Credentials { <strong>StorageCredentials</strong>^ get (); }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

**Property Value**

Type: [Microsoft.WindowsAzure.StorageCredentials](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storagecredentials)

An object of type **StorageCredentials**.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueClient.RetryPolicy Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the default retry policy for requests made via the Queue service client.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As `CloudQueueClient`
Dim value As `RetryPolicy`

value = instance.RetryPolicy

instance.RetryPolicy = value
### Syntax

<table>
<thead>
<tr>
<th></th>
<th><strong>Visual Basic</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Public</strong></td>
<td>Property RetryPolicy As <strong>RetryPolicy</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th><strong>C#</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>public</td>
<td><strong>RetryPolicy</strong> RetryPolicy { get; set; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th><strong>C++</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>public:</td>
<td>property <strong>RetryPolicy</strong>^ RetryPolicy {</td>
</tr>
<tr>
<td></td>
<td><strong>RetryPolicy</strong>^ get ();</td>
</tr>
<tr>
<td></td>
<td>void set (<strong>RetryPolicy</strong>^ value);</td>
</tr>
<tr>
<td></td>
<td>}</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th><strong>J#</strong></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th></th>
<th><strong>JScript</strong></th>
</tr>
</thead>
</table>

### Property Value


The retry policy.
Remarks

Setting the retry policy for the service client establishes the default policy for all requests made via the client, unless the request explicitly sets the retry policy.

To set the retry policy for an individual request, set the `RetryPolicy` property of the `BlobRequestOptions` class to a delegate of type `RetryPolicy`. This property can be set to one of the methods provided by the `RetryPolicies` class, or to a custom retry policy delegate that you define.

For details on implementing either a pre-defined or a custom retry policy, see `RetryPolicies`. 
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
See Also

Reference
CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
### CloudQueueClient.Timeout Property

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the server timeout for requests made via the Queue service client.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudQueueClient
Dim value As TimeSpan

value = instance.Timeout

instance.Timeout = value
```
### Syntax

**Visual Basic**

Public Property Timeout As TimeSpan

**C#**

```csharp
public TimeSpan Timeout { get; set; }
```

**C++**

```cpp
public:
    property TimeSpan Timeout {
        TimeSpan get ();
        void set (TimeSpan value);
    }
```

**J#**

**JScript**

### Property Value

Type: System.TimeSpan

The server timeout interval.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
See Also

Reference
CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Setting Timeouts for Queue Service Operations
CloudQueueClient.UsePathStyleUris Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a value indicating whether requests made via the Queue service client will employ path-style URIs.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As CloudQueueClient
Dim value As Boolean

value = instance.UsePathStyleUris
```
## Syntax

### Visual Basic

```
Public Property UsePathStyleUris As Boolean
```

### C#

```
public bool UsePathStyleUris { get; }
```

### C++

```
public:
property bool UsePathStyleUris {
    bool get ();
}
```

### J#

```
```

### JScript

```
```

### Property Value

Type: [System.Boolean](#)

*True* to use path-style URIs; otherwise, *false*. 
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueClient Events

See Also

This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.
## Public Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ResponseReceived</td>
<td>Occurs when a response is received from the server.</td>
</tr>
</tbody>
</table>
See Also

Reference

CloudQueueClient Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueClient.ResponseReceived Event

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Occurs when a response is received from the server.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

**Visual Basic**

Dim instance As CloudQueueClient
Dim handler As EventHandler(Of ResponseReceivedEventArgs)

AddHandler instance.ResponseReceived, handler
## Syntax

### Visual Basic

```vbnet
Public Event ResponseReceived As EventHandler(Of ResponseReceivedEventArgs)
```

### C#

```csharp
public event EventHandler<ResponseReceivedEventArgs>
```

### C++

```cpp
public:
    event EventHandler<ResponseReceivedEventArgs> ResponseReceived;
    void add (EventHandler<ResponseReceivedEventArgs>);
    void remove (EventHandler<ResponseReceivedEventArgs>);
```

### J#

```jsharp```

### JScript

```jscript```
Platforms

Development Platforms
See Also

Reference

CloudQueueClient Class
CloudQueueClient Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a message in a queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>

```vbnet
Dim instance As CloudQueueMessage
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Class CloudQueueMessage</code></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td><code>public class CloudQueueMessage</code></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><code>public ref class CloudQueueMessage</code></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td>-</td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueueMessage Members
Microsoft.WindowsAzure.StorageClient Namespace
 Represents a message in a queue.

The following tables list the members exposed by the `CloudQueueMessage` type.
## Public Constructors

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</tr>
</thead>
<tbody>
<tr>
<td><code>CloudQueueMessage</code></td>
<td>Overloaded.</td>
</tr>
</tbody>
</table>
## Public Fields

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MaxMessageSize</td>
<td>The maximum message size in bytes.</td>
</tr>
<tr>
<td>MaxNumberOfMessagesToPeek</td>
<td>The maximum number of messages that can be peeked at a time.</td>
</tr>
<tr>
<td>MaxTimeToLive</td>
<td>The maximum amount of time a message is kept in the queue.</td>
</tr>
</tbody>
</table>

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## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AsBytes</td>
<td>Gets the content of the message as a byte array.</td>
</tr>
<tr>
<td>AsString</td>
<td>Gets the content of the message, as a string.</td>
</tr>
<tr>
<td>DequeueCount</td>
<td>Gets the number of times this message has been dequeued.</td>
</tr>
<tr>
<td>ExpirationTime</td>
<td>Gets the time that the message expires.</td>
</tr>
<tr>
<td>Id</td>
<td>Gets the message ID.</td>
</tr>
<tr>
<td>InsertionTime</td>
<td>Gets the time that the message was added to the queue.</td>
</tr>
<tr>
<td>NextVisibleTime</td>
<td>Gets the time that the message will next be visible.</td>
</tr>
<tr>
<td>PopReceipt</td>
<td>Gets the message's pop receipt.</td>
</tr>
</tbody>
</table>
### Public Methods (see also **Protected Methods**)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td><strong>SetMessageContent</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>

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## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Finalize</code></td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
<tr>
<td><code>MemberwiseClone</code></td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
</tbody>
</table>

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See Also

Reference

CloudQueueMessage Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueMessage Fields

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Fields

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MaxMessageSize</td>
<td>The maximum message size in bytes.</td>
</tr>
<tr>
<td>MaxNumberOfMessagesToPeek</td>
<td>The maximum number of messages that can be peeked at a time.</td>
</tr>
<tr>
<td>MaxTimeToLive</td>
<td>The maximum amount of time a message is kept in the queue.</td>
</tr>
</tbody>
</table>
See Also

Reference

CloudQueueMessage Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueMessage.MaxMessageSize Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The maximum message size in bytes.

Namespace: Microsoft.WindowsAzure.StorageClient
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim value As Long</td>
</tr>
<tr>
<td>value = CloudQueueMessage.MaxMessageSize</td>
</tr>
</tbody>
</table>
### Syntax

#### Visual Basic

Public Shared ReadOnly MaxMessageSize As Long

#### C#

public static readonly long MaxMessageSize

#### C++

public:
static initonly long long MaxMessageSize

#### J#

#### JScript
Platforms

Development Platforms
See Also

Reference

CloudQueueMessage Class
CloudQueueMessage Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueMessage.MaxNumberOfMessagesToPeek Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The maximum number of messages that can be peeked at a time.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim value As Integer
value = CloudQueueMessage.MaxNumberOfMessagesToPeek
```
## Syntax

**Visual Basic**

Public Shared ReadOnly MaxNumberOfMessagesToPeek As Integer

**C#**

public static readonly int MaxNumberOfMessagesToPeek

**C++**

public: static initonly int MaxNumberOfMessagesToPeek

**J#**

**JScript**
 Platforms

 Development Platforms
See Also

Reference
CloudQueueMessage Class
CloudQueueMessage Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueMessage.MaxTimeToLive Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The maximum amount of time a message is kept in the queue.

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

Visual Basic

Dim value As TimeSpan

value = CloudQueueMessage.MaxTimeToLive
## Syntax

### Visual Basic

```vbnet
Public Shared Readonly MaxTimeToLive As TimeSpan
```

### C#

```csharp
public static readonly TimeSpan MaxTimeToLive
```

### C++

```cpp
public:
static initonly TimeSpan MaxTimeToLive
```

### J#

### JScript
Platforms

Development Platforms
See Also

Reference

CloudQueueMessage Class
CloudQueueMessage Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudQueueMessage[Byte[]]</code></td>
<td>Initializes a new instance of the <code>CloudQueueMessage</code> class with the given byte array.</td>
</tr>
<tr>
<td><code>CloudQueueMessage[String]</code></td>
<td>Initializes a new instance of the <code>CloudQueueMessage</code> class with the given string.</td>
</tr>
</tbody>
</table>
See Also

Reference

CloudQueueMessage Class
CloudQueueMessage Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueMessage Constructor (Byte[])  

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudQueueMessage class with the given byte array.

Namespace: Microsoft.WindowsAzure.StorageClient
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>

```
Dim content As Byte()  
Dim instance As New CloudQueueMessage(content)
```
### Syntax

**Visual Basic**

```
Public Sub New ( _
    content As Byte() _
)
```

**C#**

```
public CloudQueueMessage (   
    byte[] content
)
```

**C++**

```cpp
public:
CloudQueueMessage (   
    array<unsigned char>^ content
)
```

**J#**

```
```

**JScript**

```
```

---

### Parameters

- **content**
  The content of the message as a byte array.
Platforms

Development Platforms
See Also

Reference
CloudQueueMessage Class
CloudQueueMessage Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueMessage Constructor (String)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudQueueMessage class with the given string.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

#### Visual Basic

```vbnet
Dim content As String

Dim instance As New CloudQueueMessage(content)
```
### Parameters

**content**

Type: **System.String**

The content of the message as a string of text.
Platforms

Development Platforms
See Also

Reference
CloudQueueMessage Class
CloudQueueMessage Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueMessage Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Methods (see also **Protected Methods**)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td><strong>SetMessageContent</strong></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
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</tr>
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<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudQueueMessage Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueMessage.SetMessageContent Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CloudQueueMessage.SendMessageContent(Byte[])</strong></td>
<td>Sets the contents of a message, in byte array format.</td>
</tr>
<tr>
<td><strong>CloudQueueMessage.SendMessageContent(String)</strong></td>
<td>Sets the contents of a message, in string format.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudQueueMessage Class
CloudQueueMessage Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueMessage.SetMessageContent Method (Byte[])  

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Sets the contents of a message, in byte array format.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>

```vbnet
Dim instance As CloudQueueMessage
Dim content As Byte()  

instance.SetMessageContent(content)
```
## Syntax

### Visual Basic

```vbnet
Public Sub SetMessageContent (_
    content As Byte() _
)
```

### C#

```csharp
public void SetMessageContent (byte[] content)
```

### C++

```cpp
public:
    void SetMessageContent (array<unsigned char>^ content)
```

### J#

```jsharp
```

### JScript

```javascript
```

## Parameters

**content**

Type: `System.String`

The contents of a message in byte array format.
Remarks

This method requires EncodeMessage to be set to true. The storage client library encodes the byte array contents using Base64. The encoded message is 33% larger. The encoded message can be up to 64 KB in size for SDK version 1.6 or newer, or 8 KB in size for older SDK versions.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
**See Also**

**Reference**
- [CloudQueueMessage Class](#)
- [CloudQueueMessage Members](#)
- [Microsoft.WindowsAzure.StorageClient Namespace](#)
Sets the contents of a message, in string format.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudQueueMessage
Dim content As String

instance.SetMessageContent(content)
```
Syntax

Visual Basic

Public Sub SetMessageContent ( _
    content As String _
)

C#

public void SetMessageContent ( _
    string content _
)

C++

public:
void SetMessageContent ( _
    String^ content _
)

J#

JScript

Parameters

Content
Type: System.String

The contents of a message in string format.
Remarks

Content must be in a format that can be encoded with UTF-8. The storage client library encodes the message content using Base64 when `EncodeMessage` is set to `true`, and encoded content is around 33% larger than its source. The final message (encoded or not) can be up to 64 KB in size for SDK version 1.6 or newer, or 8 KB in size for older SDK versions.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudQueueMessage Class
CloudQueueMessage Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

<table>
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<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>AsBytes</code></td>
<td>Gets the content of the message as a byte array.</td>
</tr>
<tr>
<td><code>AsString</code></td>
<td>Gets the content of the message, as a string.</td>
</tr>
<tr>
<td><code>DequeueCount</code></td>
<td>Gets the number of times this message has been dequeued.</td>
</tr>
<tr>
<td><code>ExpirationTime</code></td>
<td>Gets the time that the message expires.</td>
</tr>
<tr>
<td><code>Id</code></td>
<td>Gets the message ID.</td>
</tr>
<tr>
<td><code>InsertionTime</code></td>
<td>Gets the time that the message was added to the queue.</td>
</tr>
<tr>
<td><code>NextVisibleTime</code></td>
<td>Gets the time that the message will next be visible.</td>
</tr>
<tr>
<td><code>PopReceipt</code></td>
<td>Gets the message's pop receipt.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudQueueMessage Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueMessage.AsBytes Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

 Gets the content of the message as a byte array.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudQueueMessage
Dim value As Byte()

value = instance.AsBytes
```
## Syntax

### Visual Basic

```vbnet
Public ReadOnly Property AsBytes As Byte()
```

### C#

```csharp
public byte[] AsBytes { get; }
```

### C++

```cpp
public:
property array<unsigned char>^ AsBytes {
    array<unsigned char>^ get ();
}
```

### J#

```jsharp

```

### JScript

```

## Property Value

The content of the message as a byte array.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudQueueMessage Class
CloudQueueMessage Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueMessage.AsString Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the content of the message, as a string.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudQueueMessage
Dim value As String

value = instance.AsString
## Syntax

### Visual Basic

```vbnet
Public ReadOnly Property AsString As String
```

### C#

```csharp
public string AsString { get; }
```

### C++

```cpp
public:
    property String^ AsString { String^ get (); }
```

### J#

```
```

### JScript

```
```

## Property Value

Type: `System.String`

The message content.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueueMessage Class
CloudQueueMessage Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueMessage.DequeueCount Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the number of times this message has been dequeued.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim instance As CloudQueueMessage
Dim value As Integer

value = instance.DequeueCount

instance.DequeueCount = value
```
Syntax

Visual Basic

Public Property DequeueCount As Integer

C#

public int DequeueCount { get; protected internal set; }

C++

public:
property int DequeueCount {
    int get ();
    protected public: void set (int value);
}

J#


JScript


Property Value

Type: System.Int32

The number of times this message has been dequeued.
Remarks

The **DequeCount** property is incremented each time a message is retrieved from the queue using [GetMessage](#) or [GetMessages](#), but is not deleted from the queue.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.
  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueueMessage Class
CloudQueueMessage Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueMessage.ExpirationTime Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the time that the message expires.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

#### Visual Basic

```vbnet
Dim instance As CloudQueueMessage
Dim value As Nullable(Of DateTime)

value = instance.ExpirationTime

instance.ExpirationTime = value
```
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Property ExpirationTime As Nullable(Of DateTime) As Nullable(Of DateTime) = DateTime.MinValue</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public Nullable&lt;DateTime&gt; ExpirationTime { get; protected internal set; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: Nullable&lt;DateTime&gt; ExpirationTime { Nullable&lt;DateTime&gt; get (); protected public: void set (Nullable&lt;DateTime&gt;); }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>JScript Property Value: System.Nullable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

**Property Value**

Type: **System.Nullable**

The time that the message expires.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueueMessage Class
CloudQueueMessage Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueMessage.Id Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the message ID.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```
Dim instance As CloudQueueMessage
Dim value As String

value = instance.Id

instance.Id = value
```
## Syntax

### Visual Basic

Public Property Id As String

### C#

public string Id { get; protected internal set; }

### C++

public:
property String^ Id {
    String^ get ();
    protected public: void set (String^ value);
}

### J#

### JScript

### Property Value

Type: System.String

The message ID.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudQueueMessage Class
CloudQueueMessage Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueMessage.InsertionTime Property

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the time that the message was added to the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Visual Basic

Dim instance As CloudQueueMessage
Dim value As Nullable(Of DateTime)

value = instance.InsertionTime

instance.InsertionTime = value
Syntax

Visual Basic

Public Property InsertionTime As Nullable(Of DateTime)

C#

public Nullable<DateTime> InsertionTime { get; protected internal set; }

C++

public:
property Nullable<DateTime> InsertionTime {
    Nullable<DateTime> get () ;
    protected public: void set (Nullable<DateTime>);
}

J#

JScript

Property Value

Type: System.Nullable

The time that that message was added to the queue.
- **Thread Safety**
  
  Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueueMessage Class
CloudQueueMessage Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueMessage.NextVisibleTime Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the time that the message will next be visible.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudQueueMessage
Dim value As Nullable(Of DateTime)

value = instance.NextVisibleTime

instance.NextVisibleTime = value
## Syntax

**Visual Basic**

```vbnet
Public Property NextVisibleTime As Nullable(Of DateTime)
```

**C#**

```csharp
public Nullable<DateTime> NextVisibleTime { get; protected internal }
```

**C++**

```cpp
public:
property Nullable<DateTime> NextVisibleTime {  
  Nullable<DateTime> get ();
  protected public: void set (Nullable<DateTime) }
```

**J#**

```jsharp```

**JScript**

```
```

## Property Value

Type: `System.Nullable`  

The time that the message will next be visible.
Remarks

The \texttt{NextVisibleTime} property is updated when a message is retrieved from the queue using \texttt{GetMessage} or \texttt{GetMessages}, or by a call to \texttt{UpdateMessage}. It indicates when a message will become visible again to other clients, if it is not first deleted by the client that retrieved it.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
See Also

Reference

CloudQueueMessage Class
CloudQueueMessage Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueMessage.PopReceipt Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the message's pop receipt.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

### Visual Basic

```vbnet
Dim instance As CloudQueueMessage
Dim value As String

value = instance.PopReceipt

instance.PopReceipt = value
```
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Property PopReceipt As <strong>String</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public <strong>string</strong> PopReceipt { get; protected internal set }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| public: **String**^ PopReceipt {  
  **String**^ get ();  
  protected public: **void** set (**String**^ value);  
} |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>

## Property Value

Type: **System.String**

The pop receipt value.
Remarks

The pop receipt is an opaque value that indicates that the message has been retrieved and can be used to delete it.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudQueueMessage Class
CloudQueueMessage Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueMessage.RawString Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the contents of the message in a raw string.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```visualbasic
Dim value As String
value = Me.RawString
Me.RawString = value
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td>Protected Friend Property RawString As String</td>
</tr>
<tr>
<td>C#</td>
<td>protected internal string RawString { get; set; }</td>
</tr>
<tr>
<td>C++</td>
<td>protected public: property String^ RawString { String^ get (); void set (String^ value); }</td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

Type: System.String

The message content.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudQueueMessage Class
CloudQueueMessage Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudStorageAccountCloudDriveExtensions Class

See Also   Members

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.CloudDrive (in Microsoft.WindowsAzure.CloudDrive.dll)
Usage

Visual Basic
<table>
<thead>
<tr>
<th>Syntax</th>
<th>Visual Basic</th>
<th>C#</th>
<th>C++</th>
<th>J#</th>
<th>JScript</th>
</tr>
</thead>
</table>
| Visual Basic| `<ExtensionAttribute> _ <EditorBrowsableAttribute(EditorBrowsableState.Never)>
Public NotInheritable Class CloudStorageAccountCloudDriveExtensions` | `[ExtensionAttribute]
[EditorBrowsableAttribute(EditorBrowsableState.Never)]
public static class CloudStorageAccountCloudDriveExtensions` | `[ExtensionAttribute]
[EditorBrowsableAttribute(EditorBrowsableState::Never)]
public ref class CloudStorageAccountCloudDriveExtensions` | `[ExtensionAttribute]
[EditorBrowsableAttribute(EditorBrowsableState::Never)]
public class CloudStorageAccountCloudDriveExtensions` |         |
Inheritance Hierarchy

System.Object
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudStorageAccountCloudDriveExtensions Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudStorageAccountCloudDriveExtensions Members

See Also  Methods

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The following tables list the members exposed by the CloudStorageAccountCloudDriveExtensions type.
## Public Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CreateCloudDrive</td>
<td></td>
</tr>
</tbody>
</table>

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See Also

Reference
CloudStorageAccountCloudDriveExtensions Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CreateCloudDrive</td>
<td></td>
</tr>
</tbody>
</table>
See Also

Reference
CloudStorageAccountCloudDriveExtensions Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudStorageAccountCloudDriveExtensions.CreateCloudDrive Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Namespace: Microsoft.WindowsAzure.StorageClient
## Usage

### Visual Basic

```vbnet
Dim storageAccount As CloudStorageAccount
Dim pageBlobUri As String
Dim returnValue As CloudDrive

returnValue = CloudStorageAccount.CloudDriveExtensions
```
## Syntax

### Visual Basic

```vbnet
<ExtensionAttribute> _
Public Shared Function CreateCloudDrive ( _
    storageAccount As CloudStorageAccount, _
    pageBlobUri As String _
) As CloudDrive
```

### C#

```csharp
[ExtensionAttribute]
public static CloudDrive CreateCloudDrive (  
    CloudStorageAccount storageAccount,  
    string pageBlobUri  
)
```

### C++

```cpp
[ExtensionAttribute]
public:  
    static CloudDrive^ CreateCloudDrive (  
        CloudStorageAccount^ storageAccount,  
        String^ pageBlobUri  
    )
```

### J#

```
```

### JScript

```
```
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudStorageAccountCloudDriveExtensions Class
CloudStorageAccountCloudDriveExtensions Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Provides a set of extensions to the `CloudStorageAccount` class that may be used to generate client objects for the Windows Azure storage services.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
</tr>
</tbody>
</table>
### Syntax

#### Visual Basic

```vbnet
<ExtensionAttribute> _
Public NotInheritable Class CloudStorageAccountStorageClientExtensions
```

#### C#

```csharp
[ExtensionAttribute]
public static class CloudStorageAccountStorageClientExtensions
```

#### C++

```cpp
[ExtensionAttribute]
publish ref class CloudStorageAccountStorageClientExtensions
```

#### J#

```jsharp```

#### JScript

```jscript```

```
Inheritance Hierarchy

System.Object
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudStorageAccountStorageClientExtensions Members
Microsoft.WindowsAzure.StorageClient Namespace
Provides a set of extensions to the `CloudStorageAccount` class that may be used to generate client objects for the Windows Azure storage services.

The following tables list the members exposed by the `CloudStorageAccountStorageClientExtensions` type.

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CreateCloudBlobClient</td>
<td>Creates a new Blob service client.</td>
</tr>
<tr>
<td>CreateCloudQueueClient</td>
<td>Creates a new Queue service client.</td>
</tr>
<tr>
<td>CreateCloudTableClient</td>
<td>Creates the Table service client.</td>
</tr>
</tbody>
</table>

Top
See Also

Reference

CloudStorageAccountStorageClientExtensions Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudStorageAccountStorageClientExtensions Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CreateCloudBlobClient</code></td>
<td>Creates a new Blob service client.</td>
</tr>
<tr>
<td><code>CreateCloudQueueClient</code></td>
<td>Creates a new Queue service client.</td>
</tr>
<tr>
<td><code>CreateCloudTableClient</code></td>
<td>Creates the Table service client.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudStorageAccountStorageClientExtensions Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudStorageAccountStorageClientExtensions.CreateCloudBlobClient Method

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Creates a new Blob service client.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```visualbasic
Dim account As CloudStorageAccount
Dim returnValue As CloudBlobClient

returnValue = CloudStorageAccountStorageClientExtens:
```
## Syntax

### Visual Basic

```vbnet
<ExtensionAttribute> _
Public Shared Function CreateCloudBlobClient ( _
    account As CloudStorageAccount _
) As CloudBlobClient
```

### C#

```csharp
[ExtensionAttribute]
public static CloudBlobClient CreateCloudBlobClient ( CloudStorageAccount account
)
```

### C++

```cpp
[ExtensionAttribute]
public:
static CloudBlobClient^ CreateCloudBlobClient ( CloudStorageAccount^ account
)
```

### J#

```
```

### JScript

```
```

## Parameters

- **account**
  - Type: `Microsoft.WindowsAzure.CloudStorageAccount`

  The storage account.
**Return Value**


A client object that specifies the Blob service endpoint.
The following code example creates client objects for each of the storage services.

```csharp
static void GetClientObjects()
{
    //Parse a connection string and return a reference to the storage account.
    CloudStorageAccount storageAccount = CloudStorageAccount.Parse(ConfigurationManager.AppSettings["StorageAccountConnectionString"]);

    //Create a client for the Blob service.
    CloudBlobClient blobClient = storageAccount.CreateCloudBlobClient();

    //Create a client for the Queue service.
    CloudQueueClient queueClient = storageAccount.CreateCloudQueueClient();

    //Create a client for the Blob service.
    CloudTableClient tableClient = storageAccount.CreateCloudTableClient();
}
```
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference

CloudStorageAccountStorageClientExtensions Class
CloudStorageAccountStorageClientExtensions Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudBlobClient
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Creates a new Queue service client.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

<table>
<thead>
<tr>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim account As CloudStorageAccount</td>
</tr>
<tr>
<td>Dim returnValue As CloudQueueClient</td>
</tr>
<tr>
<td>returnValue = CloudStorageAccountStorageClientExtensions</td>
</tr>
</tbody>
</table>
## Syntax

### Visual Basic

```vbnet
<ExtensionAttribute> _
Public Shared Function CreateCloudQueueClient ( _
    account As CloudStorageAccount _
) As CloudQueueClient
```

### C#

```csharp
[ExtensionAttribute]
public static CloudQueueClient CreateCloudQueueClient(
    CloudStorageAccount account
)
```

### C++

```cpp
[ExtensionAttribute]
public:
    static CloudQueueClient^ CreateCloudQueueClient(
        CloudStorageAccount^ account
    )
```

### J#

```
```

### JScript

```
```

## Parameters

- **account**
  - Type: `Microsoft.WindowsAzure.CloudStorageAccount`
  - The storage account.
**Return Value**

Type: [Microsoft.WindowsAzure.StorageClient.CloudQueueClient](#)

A client object that specifies the Queue service endpoint.
The following code example creates client objects for each of the storage services.

```csharp
static void GetClientObjects()
{
    //Parse a connection string and return a reference to the storage account.
    CloudStorageAccount storageAccount = CloudStorageAccount.Parse(ConfigurationManager.AppSettings["StorageAccountConnectionString"]);

    //Create a client for the Blob service.
    CloudBlobClient blobClient = storageAccount.CreateCloudBlobClient();

    //Create a client for the Queue service.
    CloudQueueClient queueClient = storageAccount.CreateCloudQueueClient();

    //Create a client for the Table service.
    CloudTableClient tableClient = storageAccount.CreateCloudTableClient();
}
```
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudStorageAccountStorageClientExtensions Class
CloudStorageAccountStorageClientExtensions Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudQueueClient
CloudStorageAccountStorageClientExtensions.CreateCloudTableClient Method

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Creates the Table service client.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim account As CloudStorageAccount
Dim returnValue As CloudTableClient

returnValue = CloudStorageAccountStorageClientExtens:
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| `<ExtensionAttribute> _
Public Shared Function CreateCloudTableClient ( _
    account As CloudStorageAccount _
) As CloudTableClient |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
</table>
| `[ExtensionAttribute]
public static CloudTableClient CreateCloudTableClient ( |
    CloudStorageAccount account |)
|

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| `[ExtensionAttribute]
public:
static CloudTableClient^ CreateCloudTableClient ( |
    CloudStorageAccount^ account |)
|

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>

### Parameters

**account**


The storage account.
**Return Value**

Type: [Microsoft.WindowsAzure.StorageClient.CloudTableClient](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storageclient.cloudtableclient)

A client object that specifies the Table service endpoint.
The following code example creates client objects for each of the storage services.

```csharp
static void GetClientObjects()
{
    //Parse a connection string and return a reference
    CloudStorageAccount storageAccount = CloudStorageAccount.Parse(ConfigurationManager.AppSettings["StorageAccountConnectionString"]);

    //Create a client for the Blob service.
    CloudBlobClient blobClient = storageAccount.CreateCloudBlobClient();

    //Create a client for the Queue service.
    CloudQueueClient queueClient = storageAccount.CreateCloudQueueClient();

    //Create a client for the Blob service.
    CloudTableClient tableClient = storageAccount.CreateCloudTableClient();
}
```
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudStorageAccountStorageClientExtensions Class
CloudStorageAccountStorageClientExtensions Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableClient
Provides a client for accessing the Windows Azure Table service.

**Namespace**: Microsoft.WindowsAzure.StorageClient  

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
**Usage**

Visual Basic

`Dim instance As CloudTableClient`
<table>
<thead>
<tr>
<th>Syntax</th>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Class CloudTableClient</td>
<td></td>
</tr>
<tr>
<td>C#</td>
<td>public class CloudTableClient</td>
</tr>
<tr>
<td>C++</td>
<td>public ref class CloudTableClient</td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
Microsoft.WindowsAzure.StorageClient.CloudTableClient
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
Provides a client for accessing the Windows Azure Table service.

The following tables list the members exposed by the `CloudTableClient` type.
## Public Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CloudTableClient</td>
<td>Overloaded.</td>
</tr>
</tbody>
</table>

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## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BaseUri</td>
<td>Gets the base URI for the Table service client.</td>
</tr>
<tr>
<td>Credentials</td>
<td>Gets the account credentials used to create the Table service client.</td>
</tr>
<tr>
<td>MinSupportedDateTime</td>
<td>Returns the minimum date and time value supported by the Table service.</td>
</tr>
<tr>
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See Also

Reference
CloudTableClient Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

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<td>Initializes a new instance of the <a href="#">CloudTableClient</a> class using the specified Table service endpoint as a string, and the Storage account credentials.</td>
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See Also

Reference

CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableClient Constructor (String, StorageCredentials)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudTableClient class using the specified Table service endpoint as a string, and the Storage account credentials.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim baseAddress As String
Dim credentials As StorageCredentials

Dim instance As New CloudTableClient(baseAddress, cre
```
Syntax

Visual Basic

Public Sub New (_
    baseAddress As String, _
    credentials As StorageCredentials _
)

C#

public CloudTableClient (  
    string baseAddress,
    StorageCredentials credentials
)

C++

public:
CloudTableClient (  
    String^ baseAddress,
    StorageCredentials^ credentials
)

J#

JScript

Parameters

baseAddress
Type: System.String

The Table service endpoint to use to create the client.
credentials
Type: Microsoft.WindowsAzure.StorageCredentials

The storage account credentials.
The following code snippet constructs an instance of the `CloudTableClient` class.

```csharp
// Get connection string from a configuration file.
CloudStorageAccount storageAccount =
    CloudStorageAccount.Parse(
        ConfigurationManager.AppSettings["StorageAccountConnectionString"]);

// Create service client for credentialed access to the Table service.
CloudTableClient tableClient =
    new CloudTableClient(
        storageAccount.TableEndpoint.ToString(),
        storageAccount.Credentials);
```
 Platforms

 Development Platforms
Change History
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableClient Constructor (Uri, StorageCredentials)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudTableClient class using the specified Table service endpoint URI, and the Storage account credentials.

Namespace: Microsoft.WindowsAzure.StorageClient  
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</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>

```vbnet
Dim baseAddressUri As Uri
Dim credentials As StorageCredentials

Dim instance As New CloudTableClient(baseAddressUri,
```
## Syntax

### Visual Basic

```vbnet
Public Sub New (_
    baseAddressUri As Uri, _
    credentials As StorageCredentials _
)
```

### C#

```csharp
public CloudTableClient (  
    Uri baseAddressUri,  
    StorageCredentials credentials
)
```

### C++

```cpp
public:
CloudTableClient (  
    Uri^ baseAddressUri,  
    StorageCredentials^ credentials
)
```

### J#

```
```

### JScript

```
```

## Parameters

- `baseAddressUri`
- `credentials`
Platforms

Development Platforms
See Also

Reference

CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableClient Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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See Also

Reference
CloudTableClient Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableClient.Attach Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Attaches to the specified service context.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>

Dim instance As **CloudTableClient**  
Dim serviceContext As **DataServiceContext**  

instance.Attach(serviceContext)
## Syntax

### Visual Basic

```vbnet
Public Sub Attach (
    serviceContext As DataServiceContext
)
```

### C#

```csharp
public void Attach (
    DataServiceContext serviceContext
)
```

### C++

```c++
public:
    void Attach (
        DataServiceContext^ serviceContext
    )
```

### J#

```jsharp
```

### JScript

```jscript
```

## Parameters

### serviceContext


The service context to attach to.
Remarks

If you have an existing service context, you can attach the Table service client to it. Call the **Attach** method in lieu of creating a new service context via the **GetDataServiceContext** method.
- **Thread Safety**

  Any public static (*Shared* in Visual Basic) members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
Begins an asynchronous operation to create a table.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

#### Visual Basic

```vbnet
Dim instance As CloudTableClient
Dim tableName As String
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginCreateTable(tableName, callback)
```

## Syntax

### Visual Basic

```vbnet
Public Function BeginCreateTable ( _
    tableName As String, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginCreateTable (  
    string tableName,  
    AsyncCallback callback,  
    Object state"
)
```

### C++

```cpp
public:  
    IAsyncResult^ BeginCreateTable (  
        String^ tableName,  
        AsyncCallback^ callback,  
        Object^ state"
    )
```

### J#

```jsharp```

### JScript

```js```

## Parameters

- **tableName**
Type: System.String

The table name.

callback
Type: System.AsyncCallback

The callback delegate that will receive notification when the asynchronous operation completes.

state
Type: System.Object

A user-defined object that will be passed to the callback delegate.

Return Value

Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
Example

The following code example creates a table asynchronously, and handles the error if the table already exists.

C#

```csharp
static void CreateTableAsync(CloudStorageAccount storageAccount)
{
    // Create service client for credentialed access.
    CloudTableClient tableClient =
        new CloudTableClient(
            storageAccount.TableEndpoint.ToString(),
            storageAccount.Credentials);

    // Begin the operation to create a new table.
    tableClient.BeginCreateTable("Customers", CreateTableAsyncCallback,
        tableClient);
}

public static void CreateTableAsyncCallback(IAsyncResult result)
{
    CloudTableClient tableClient = (CloudTableClient)result.AsyncState;

    try
    {
        // End the operation.
        tableClient.EndCreateTable(result);
    }
    catch (StorageClientException e)
    {
        Console.WriteLine("Error: {0}", e.Message);
        Console.WriteLine("Extended error info: {0}",
            e.ExtendedErrorInformation.ErrorCode,
            e.ExtendedErrorInformation.ErrorMessage);
    }
}
```
Remarks

For guidance about valid table names, see the "Table Names" section in Understanding the Table Service Data Model.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
Change History
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableClient.BeginCreateTableIfNotExist Method

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to create a table with the specified name if it does not already exist.

Namespace: Microsoft.WindowsAzure.StorageClient  
**Usage**

### Visual Basic

Dim instance As `CloudTableClient`
Dim tableName As `String`
Dim callback As `AsyncCallback`
Dim state As `Object`
Dim returnValue As `IAsyncResult`

```visualbasic
returnValue = instance.BeginCreateTableIfNotExists(tableName
```
Syntax

Visual Basic

Public Function BeginCreateTableIfNotExist ( _
    tableName As String, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult

C#

public IAsyncResult BeginCreateTableIfNotExist ( _
    string tableName, _
    AsyncCallback callback, _
    Object state _
)

C++

public: _
IAsyncResult^ BeginCreateTableIfNotExist ( _
    String^ tableName, _
    AsyncCallback^ callback, _
    Object^ state _
)

J#

JScript

Parameters

tableName
Type: **System.String**

The table name.

*callback*

Type: **System.AsyncCallback**

The callback delegate that will receive notification when the asynchronous operation completes.

*state*

Type: **System.Object**

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: **System.IAsyncResult**

An **IAsyncResult** that references the asynchronous operation.
Example

The following code example creates a table asynchronously if it does not exist.

C#  

```csharp
static void CreateTableIfNotExistsAsync(CloudStorageAccount storageAccount)
{
    // Create service client for credentialed access to
    CloudTableClient tableClient =
        new CloudTableClient(
            storageAccount.TableEndpoint.ToString(),
            storageAccount.Credentials);

    // Begin the operation to create a new table.
    tableClient.BeginCreateTableIfNotExist(
        "Categories", CreateTableIfNotExistsAsyncCallback);
}

public static void CreateTableIfNotExistsAsyncCallback(IAsyncResult result)
{
    CloudTableClient tableClient = (CloudTableClient)result.AsyncState;

    // End the operation.
    if (tableClient.EndCreateTableIfNotExist(result))
    {
        Console.WriteLine("Table created.");
    }
}
```
Remarks

For guidance about valid table names, see the "Table Names" section in Understanding the Table Service Data Model.
- **Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference

CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
Begins an asynchronous operation to delete a table.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudTableClient
Dim tableName As String
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginDeleteTable(tableName, callabla
```
### Syntax

#### Visual Basic

```vbnet
Public Function BeginDeleteTable ( _
    tableName As String, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

#### C#

```csharp
public IAsyncResult BeginDeleteTable ( _
    string tableName,
    AsyncCallback callback,
    Object state
)
```

#### C++

```cpp
public: 
IAsyncResult^ BeginDeleteTable ( _
    String^ tableName,
    AsyncCallback^ callback,
    Object^ state
)
```

#### J#

```jsharp```

#### JScript

`function`  

### Parameters

* `tableName`
Type: `System.String`

The table name.

**Callback**

Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.

**State**

Type: `System.Object`

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the asynchronous request.
The following code example deletes a table asynchronously.

```csharp
public static void DeleteTableAsync(CloudStorageAccount storageAccount) {
    // Create service client for credentialed access to
    CloudTableClient tableClient =
        new CloudTableClient(
            storageAccount.TableEndpoint.ToString(),
            storageAccount.Credentials);

    tableClient.BeginDeleteTable(
        "Categories", DeleteTableAsyncCallback, tableClient);
}

public static void DeleteTableAsyncCallback(IAsyncResult result) {
    CloudTableClient tableClient = (CloudTableClient)
        result.AsyncState;

    try {
        // End the operation.
        tableClient.EndDeleteTable(result);
    }
    catch (StorageClientException e) {
        Console.WriteLine("Error: {0}", e.Message);
        Console.WriteLine("Extended error info: {0}",
            e.ExtendedErrorInformation.ErrorCode,
            e.ExtendedErrorInformation.ErrorMessage);
    }
}
```
Remarks

When a table is successfully deleted, it is immediately marked for deletion and no longer accessible to clients. The table is later removed from the Table service during garbage collection.

Note that deleting a table is likely to take at least 40 seconds to complete. If an operation is attempted against the table while it was being deleted, a `StorageClientException` is thrown, with additional error information indicating that the table is being deleted.
- **Thread Safety**

  Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference

CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableClient.BeginDeleteTableIfExists Method

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to delete the tables if it exists.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As CloudTableClient
Dim tableName As String
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginDeleteTableIfExist(tableName)
## Syntax

### Visual Basic

```vbnet
Public Function BeginDeleteTableIfExist ( _
    tableName As String, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginDeleteTableIfExist ( 
    string tableName, 
    AsyncCallback callback, 
    Object state
)
```

### C++

```cpp
public: 
IAsyncResult^ BeginDeleteTableIfExist ( 
    String^ tableName, 
    AsyncCallback^ callback, 
    Object^ state
)
```

### J#

### JScript

### Parameters

*tableName*
Type: **System.String**

The table name.

**callback**

Type: **System.AsyncCallback**

The callback delegate that will receive notification when the asynchronous operation completes.

**state**

Type: **System.Object**

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: **System.IAsyncResult**

An **IAsyncResult** that references the asynchronous operation.
The following code example deletes a table asynchronously if it exists.

```csharp
public static void DeleteTableIfExistsAsync(CloudStorageAccount storageAccount)
{
    // Create service client for credentialed access
    CloudTableClient tableClient = new CloudTableClient(
        storageAccount.TableEndpoint.ToString(),
        storageAccount.Credentials);

    tableClient.BeginDeleteTableIfExist(
        "Categories", DeleteTableIfExistAsyncCallback,
        tableClient);
    System.Threading.Thread.Sleep(5000); // wait, the async task is completing.
}

public static void DeleteTableIfExistAsyncCallback(IAsyncResult result)
{
    CloudTableClient tableClient = (CloudTableClient)result.AsyncState;

    // End the operation.
    if (tableClient.EndDeleteTableIfExist(result))
    {
        Console.WriteLine("Table deleted.");
    }
    else
    {
        Console.WriteLine("Table doesn't exist; couldn't be deleted.");
    }
}
Remarks

When a table is successfully deleted, it is immediately marked for deletion and no longer accessible to clients. The table is later removed from the Table service during garbage collection.

Note that deleting a table is likely to take at least 40 seconds to complete. If an operation is attempted against the table while it was being deleted, a StorageClientException is thrown, with additional error information indicating that the table is being deleted.
Thread Safety

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
Begins an asynchronous operation to determine whether a table exists.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
**Usage**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Dim instance As **CloudTableClient**  
Dim tableName As **String**  
Dim callback As **AsyncCallback**  
Dim state As **Object**  
Dim returnValue As **IAsyncResult** |

returnValue = instance.BeginDoesTableExist(tableName,
## Syntax

### Visual Basic

```vbscript
Public Function BeginDoesTableExist ( _
    tableName As String, _
    callback As AsyncCallback, _
    state As Object _
  ) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginDoesTableExist ( 
    string tableName, 
    AsyncCallback callback, 
    Object state 
)
```

### C++

```cpp
public: 
IAasyncResult^ BeginDoesTableExist ( 
    String^ tableName, 
    AsyncCallback^ callback, 
    Object^ state 
)
```

### J#

```jsharp```

### JScript

```jscript```

### Parameters

`tableName`
Type: `System.String`  
The table name.

*callback*
Type: `System.AsyncCallback`  
The callback delegate that will receive notification when the asynchronous operation completes.

*state*
Type: `System.Object`  
A user-defined object that will be passed to the callback delegate.

**Return Value**
Type: `System.IAsyncResult`  
An `IAsyncResult` that references the asynchronous operation.
Example

The following code example checks whether a table exists asynchronously.

```csharp
public static void CheckTableExistenceAsync(CloudStorageAccount storageAccount)
{
    // Create service client for credentialed access
    CloudTableClient tableClient =
        new CloudTableClient(
            storageAccount.TableEndpoint.ToString(),
            storageAccount.Credentials);

    tableClient.BeginDoesTableExist(
        "Products", CheckTableExistenceAsyncCallback,
        tableClient);
}

public static void CheckTableExistenceAsyncCallback(IAsyncResult result)
{
    CloudTableClient tableClient = (CloudTableClient)result.AsyncState;

    if (tableClient.EndDoesTableExist(result))
    {
        Console.WriteLine("Table exists.");
    }
    else
    {
        Console.WriteLine("Table does not exist.");
    }
}
```
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

**Development Platforms**
Change History
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableClient.BeginGetServiceProperties Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to get an account’s Table service properties.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As CloudTableClient
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginGetServiceProperties(callback)
## Syntax

### Visual Basic

```vbnet
Public Function BeginGetServiceProperties ( _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginGetServiceProperties ( _
    AsyncCallback callback, _
    Object state
)
```

### C++

```cpp
public:
IAsyncResult^ BeginGetServiceProperties ( _
    AsyncCallback^ callback, _
    Object^ state
)
```

### J#

```
```

### JScript

```
```

## Parameters

**callback**

Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.
**state**

Type: System.Object

A user-defined object that will be passed to the callback delegate.

**Return Value**

Returns IAsyncResult.
Remarks

The local storage service currently does not support this method.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableClient.BeginListTablesSegmented Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CloudTableClient.BeginListTablesSegmented (AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to return a result segment containing a collection of table names in the storage account.</td>
</tr>
<tr>
<td>CloudTableClient.BeginListTablesSegmented (String, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to return a result segment containing a collection of table names beginning with the specified prefix.</td>
</tr>
<tr>
<td>CloudTableClient.BeginListTablesSegmented (String, Int32, ResultContinuation, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to return a result segment containing a collection of table names beginning with the specified prefix. Use this overload when you want to control the maximum number of results returned at a time, and when you want to use a continuation token to determine whether there are more results to return from the service after the current page completes.</td>
</tr>
</tbody>
</table>
See Also

Reference

CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to return a result segment containing a collection of table names in the storage account.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

#### Visual Basic

```vbnet
Dim instance As CloudTableClient
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginListTablesSegmented(callback)
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
</table>
| **Visual Basic** | `Public Function BeginListTablesSegmented ( _
  callback As AsyncCallback, _
  state As Object _
) As IAsyncResult` |
| **C#** | `public IAsyncResult BeginListTablesSegmented ( AsyncCallback callback, 
  Object state
)` |
| **C++** | `public: 
  IAsyncResult^ BeginListTablesSegmented ( 
    AsyncCallback^ callback, 
    Object^ state
)` |
| **J#** | 

| **JScript** | 

### Parameters

**callback**  
Type: `System.AsyncCallback`  

The callback delegate that will receive notification when the asynchronous operation completes.
A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: System.IAsyncResult

An IAsyncResult that references the asynchronous operation.
Remarks

The **BeginListTablesSegmented** method begins an operation to list table name in pages. A page is set of results of a specified size; it is represented by the **ResultSegment** class. This overload of the **BeginListTablesSegmented** returns results up to the per-operation limit of 1000 results.

Call the **EndListTablesSegmented** method to complete the asynchronous operation.

Check the value of the **ContinuationToken** property to determine whether there are more results to return from the service after the page is complete. The continuation token is non-null as long as there are more results to return from the service.

Call the **GetNext** method to return the next segment of results from the service.
Thread Safety

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableClient.BeginListTablesSegmented Method (String, AsyncCallback, Object)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to return a result segment containing a collection of table names beginning with the specified prefix.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>

Dim instance As `CloudTableClient`  
Dim prefix As `String`  
Dim callback As `AsyncCallback`  
Dim state As `Object`  
Dim returnValue As `IAsyncResult`  

returnValue = instance.BeginListTablesSegmented(prefix)
### Syntax

#### Visual Basic

```vbnet
Public Function BeginListTablesSegmented (_
    prefix As String, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

#### C#

```csharp
public IAsyncResult BeginListTablesSegmented (  
    string prefix,  
    AsyncCallback callback,  
    Object state
)
```

#### C++

```cpp
public:  
IAsyncResult^ BeginListTablesSegmented (  
    String^ prefix,  
    AsyncCallback^ callback,  
    Object^ state
)
```

#### J#

#### JScript

#### Parameters

- **prefix**
Type: **System.String**

The table name prefix.

*callback*
Type: **System.AsyncCallback**

The callback delegate that will receive notification when the asynchronous operation completes.

*state*
Type: **System.Object**

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: **System.IAsyncResult**

An **IAsyncResult** that references the asynchronous operation.
Remarks

The `BeginListTablesSegmented` method begins an operation to list table names in pages. A page is set of results of a specified size; it is represented by the `ResultSegment` class.

Call the `EndListTablesSegmented` method to complete the asynchronous operation.

By returning table names in pages, you can control the number of table names returned per operation. This may be useful if, for example, you are displaying a web page with some predefined number of table names on it.

To specify the page size to return, pass in a non-zero value for the `maxResults` parameter. Passing in zero for the `maxResults` parameter returns either the maximum number of results available, or the per-operation limit of 1000 results.

If you have specified a page size, you can check the `HasMoreResults` property to check whether the page is complete. If `HasMoreResults` is `true`, the complete page has not been returned for some reason. Call `GetNext` to return the remaining results in the page.

Note that if you have not specified a page size, `HasMoreResults` will always be `false`. Check the value of the `ContinuationToken` property to determine whether there are more results to return from the service after the page is complete. The continuation token is non-null as long as there are more results to return from the service. If the page is complete, then `HasMoreResults` will be `false`, but if the continuation token is non-null, there are additional results to return beyond that page.

Call the `GetNext` method to return the next segment of results from the service.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
Begins an asynchronous operation to return a result segment containing a collection of table names beginning with the specified prefix. Use this overload when you want to control the maximum number of results returned at a time, and when you want to use a continuation token to determine whether there are more results to return from the service after the current page completes.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Visual Basic

Dim instance As CloudTableClient
Dim prefix As String
Dim maxResults As Integer
Dim continuationToken As ResultContinuation
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginListTablesSegmented(prefix)
## Syntax

### Visual Basic

```
Public Function BeginListTablesSegmented ( 
    prefix As String, 
    maxResults As Integer, 
    continuationToken As ResultContinuation, 
    callback As AsyncCallback, 
    state As Object 
) As IAsyncResult
```

### C#

```
public IAsyncResult BeginListTablesSegmented ( 
    string prefix, 
    int maxResults, 
    ResultContinuation continuationToken, 
    AsyncCallback callback, 
    Object state 
)
```

### C++

```
public: 
    IAsyncResult^ BeginListTablesSegmented ( 
        String^ prefix, 
        int maxResults, 
        ResultContinuation^ continuationToken, 
        AsyncCallback^ callback, 
        Object^ state 
    )
```

### J#

```
**Parameters**

*prefix*
    
    Type: `System.String`
    
    The table name prefix.

*maxResults*
    
    Type: `System.Int32`
    
    A non-negative integer value that indicates the maximum number of results to be returned at a time, up to the per-operation limit of 1000. If this value is zero, the maximum possible number of results will be returned, up to 1000.

*continuationToken*
    
    Type: `Microsoft.WindowsAzure.StorageClient.ResultContinuation`
    
    A continuation token returned by a previous listing operation.

*callback*
    
    Type: `System.AsyncCallback`
    
    The callback delegate that will receive notification when the asynchronous operation completes.

*state*
    
    Type: `System.Object`
    
    A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the asynchronous operation.
Remarks

The **BeginListTablesSegmented** method begins an operation to list table names beginning with the specified prefix in pages. A page is set of results of a specified size; it is represented by the **ResultSegment** class.

Call the **EndListTablesSegmented** method to complete the asynchronous operation.

By returning table names in pages, you can control the number of table names returned per operation. This may be useful if, for example, you are displaying a web page with some predefined number of table names on it.

To specify the page size to return, pass in a non-zero value for the `maxResults` parameter. Passing in zero for the `maxResults` parameter returns either the maximum number of results available, or the per-operation limit of 1000 results.

If you have specified a page size, you can check the **HasMoreResults** property to check whether the page is complete. If **HasMoreResults** is `true`, the complete page has not been returned for some reason. Call **GetNext** to return the remaining results in the page.

Note that if you have not specified a page size, **HasMoreResults** will always be `false`. Check the value of the **ContinuationToken** property to determine whether there are more results to return from the service after the page is complete. The continuation token is non-null as long as there are more results to return from the service. If the page is complete, then **HasMoreResults** will be `false`, but if the continuation token is non-null, there are additional results to return beyond that page.

Call the **GetNext** method to return the next segment of results from the service.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableClient.BeginSetServiceProperties Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to set an account’s Table service properties, including Windows Azure Storage Analytics.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Visual Basic

Dim instance As CloudTableClient
Dim properties As ServiceProperties
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginSetServiceProperties(properties)
## Syntax

### Visual Basic

```vbnet
Public Function BeginSetServiceProperties ( _
    properties As ServiceProperties, _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult
```

### C#

```csharp
public IAsyncResult BeginSetServiceProperties (  
    ServiceProperties properties,  
    AsyncCallback callback,  
    Object state
)
```

### C++

```cpp
public: 
IASyncResult^ BeginSetServiceProperties (  
    ServiceProperties^ properties,  
    AsyncCallback^ callback,  
    Object^ state  
)
```

### J#

```
```

### JScript

```
```

## Parameters

- `properties`
The Table service settings to set.

**callback**
Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.

**state**
Type: `System.Object`

A user-defined object that will be passed to the callback delegate.

**Return Value**

Returns `IAsyncResult`. 
Remarks

The `properties` parameter specifies the logging and metrics settings for the account’s Blob service.

The local storage service currently does not support this method.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Creates a table with specified name.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```visual-basic
Dim instance As CloudTableClient
Dim tableName As String

instance.CreateTable(tableName)
```
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Sub CreateTable ( _</td>
</tr>
<tr>
<td>tableName As String _</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public void CreateTable (</td>
</tr>
<tr>
<td>string tableName</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: void CreateTable (</td>
</tr>
<tr>
<td>String^ tableName</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>

### Parameters

**tableName**

Type: System.String

The table name.
The following code example creates a table and inserts an entity to it.

```csharp
using System;
using System.Configuration;
using Microsoft.WindowsAzure;
using Microsoft.WindowsAzure.StorageClient;
namespace TableSamples
{
    class Program
    {
        static void Main(string[] args)
        {
            // Get connection string from a configuration file.
            CloudStorageAccount storageAccount = CloudStorageAccount.Parse(ConfigurationManager.AppSettings["StorageAccountConnectionString"]);
            CreateTableAndAddData(storageAccount);
        }
        static void CreateTableAndAddData(CloudStorageAccount storageAccount)
        {
            // Create service client for credentialed access to the Table service.
            CloudTableClient tableClient = new CloudTableClient(storageAccount.TableEndpoint.ToString(), storageAccount.Credentials);
            string tableName = "Products";
            try
            {
                // Create a new table.
                tableClient.CreateTable(tableName);
                // Get data context.
                TableServiceContext context = tableClient.GetDataServiceContext();
                // Create the new entity.
                ProductEntity entity = new ProductEntity();
                // Populate the entity's properties.
                entity.ProductName = "Gadget";
            }
        }
    }
}
```
entity.Category = "Widgets";
entity.Price = 19.99;
entity.InStock = true;
entity.DateAdded = DateTime.Now;
entity.Quantity = 50;
// Partition key is the category name.
entity.PartitionKey = entity.Category;
// Row key is a GUID.
entity.RowKey = Guid.NewGuid().ToString();
// Add the entity.
context.AddObject(tableName, entity);
// Save changes to the service.
context.SaveChanges();

} catch (StorageClientException e) {
    Console.WriteLine("Error: {0}", e.Message);
    Console.WriteLine("Extended error info: {0} : {1}",
            e.ExtendedErrorInformation.ErrorCode,
            e.ExtendedErrorInformation.ErrorMessage);
}

// Define a class that represents an entity.

class ProductEntity : TableServiceEntity
{
    public ProductEntity()
    {
    
    
    
    
    
    
    
    
    
    
    public string ProductName { get; set; }
    public string Category { get; set; }
    public double Price { get; set; }
    public bool InStock { get; set; }
    public DateTime DateAdded { get; set; }
    public Int32 Quantity { get; set; }

    }
}
Remarks

For guidance about valid table names, see the "Table Names" section in Understanding the Table Service Data Model.

If a table with the specified name already exists, the CreateTable method throws a StorageClientException.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
Creates the table if it does not already exist.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudTableClient
Dim tableName As String
Dim returnValue As Boolean

returnValue = instance.CreateTableIfNotExist(tableName)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| Visual Basic | `Public Function CreateTableIfNotExist ( _
| | `tableName As String _
| | ) As Boolean` |
| C# | `public bool CreateTableIfNotExist ( _
| | `string tableName _
| | )` |
| C++ | `public:
| | `bool CreateTableIfNotExist ( _
| | `String^ tableName _
| | )` |
| J# | `JScript` |

### Parameters

- **tableName**
  - Type: `System.String`
  - The table name.

### Return Value

- Type: `System.Boolean`
true if table was created; otherwise, false.
Example

The following code example creates a table if it does not already exist, then inserts a new entity.

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
</table>
| using System;  
using System.Configuration;  
using Microsoft.WindowsAzure;  
using Microsoft.WindowsAzure.StorageClient;  
namespace TableSamples  
{
    class Program  
    {
        static void Main(string[] args)  
        {
            // Get connection string from a configuration file.
            CloudStorageAccount storageAccount = CloudStorageAccount.Parse(  
                ConfigurationManager.AppSettings["StorageAccountConnectionString"]);  
            CreateTableAndAddData(storageAccount);  
        }
        static void CreateTableAndAddData(CloudStorageAccount storageAccount)  
        {
            // Create service client for credentialed access to the Table service.
            CloudTableClient tableClient = new CloudTableClient(storageAccount.TableEndpoint.ToString(),  
                storageAccount.Credentials);  
            string tableName = "Products";
            try  
            {
                // Create a new table.
                tableClient.CreateTableIfNotExist(tableName);  
                // Get data context.
                TableServiceContext context = tableClient.GetDataServiceContext();  
                // Create the new entity.
                ProductEntity entity = new ProductEntity();  
            }  
            catch (Exception e)  
            {
                throw e;  
            }  
        }
    }
}  
}
// Populate the entity's properties.
entity.ProductName = "Gadget";
entity.Category = "Widgets";
entity.Price = 19.99;
entity.InStock = true;
entity.DateAdded = DateTime.Now;
entity.Quantity = 50;
// Partition key is the category name.
entity.PartitionKey = entity.Category;
// Row key is a GUID.
entity.RowKey = Guid.NewGuid().ToString();
// Add the entity.
context.AddObject(tableName, entity);
// Save changes to the service.
context.SaveChanges();

} catch (StorageClientException e)
{
    Console.WriteLine("Error: {0}", e.Message);
    Console.WriteLine("Extended error info: {0} : {1}",
    e.ExtendedErrorInformation.ErrorCode,
    e.ExtendedErrorInformation.ErrorMessage);
}

// Define a class that represents an entity.
class ProductEntity : TableServiceEntity
{

    public ProductEntity()
    {
    }

    public string ProductName { get; set; }
    public string Category { get; set; }
    public double Price { get; set; }
    public bool InStock { get; set; }
    public DateTime DateAdded { get; set; }
    public Int32 Quantity { get; set; }

}
Remarks

For guidance about valid table names, see the "Table Names" section in Understanding the Table Service Data Model.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableClient.CreateTablesFromModel Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Creates tables from a data model defined in code.

**Namespace**: Microsoft.WindowsAzure.StorageClient  
## Usage

### Visual Basic

```vbnet
Dim serviceContextType As Type
Dim baseAddress As String
Dim credentials As StorageCredentials

CloudTableClient.CreateTablesFromModel(serviceContextType)
```
## Syntax

### Visual Basic

```vbnet
Public Shared Sub CreateTablesFromModel ( _
    serviceContextType As Type, _
    baseAddress As String, _
    credentials As StorageCredentials _
)
```

### C#

```csharp
public static void CreateTablesFromModel ( 
    Type serviceContextType, 
    string baseAddress, 
    StorageCredentials credentials 
)
```

### C++

```cpp
public:
static void CreateTablesFromModel ( 
    Type^ serviceContextType, 
    String^ baseAddress, 
    StorageCredentials^ credentials 
)
```

### J#

```
```

### JScript

```
```

### Parameters

- `serviceContextType`
Type: `System.Type`

The type of service context.

`baseAddress`
Type: `System.String`

The Table service endpoint to use to create the client.

`credentials`
Type: `Microsoft.WindowsAzure.StorageCredentials`

The account credentials.
Remarks

It's now recommended that you use the `CreateTable` or `CreateTableIfNotExist` method to create a table, rather than `CreateTablesFromModel`. It is not necessary to create a custom class that is derived from `TableServiceContext` in order to work with Table service data.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
Deletes the table.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As CloudTableClient
Dim tableName As String

instance.DeleteTable(tableName)
## Syntax

### Visual Basic

```
Public Sub DeleteTable ( _
    tableName As String _
)  
```

### C#

```
public void DeleteTable (  
    string tableName  
)
```

### C++

```
public:
void DeleteTable (  
    String^ tableName  
)
```

### J#

```
```

### JScript

```
```

## Parameters

**tableName**

Type: System.String

The table name.
The following code example attempts to delete a table and handles the error if it does not exist.

```csharp
public static void DeleteTable(CloudStorageAccount storageAccount)
{
    // Create service client for credentialed access to Table
    CloudTableClient tableClient =
        new CloudTableClient(
            storageAccount.TableEndpoint.ToString(),
            storageAccount.Credentials);

    try
    {
        tableClient.DeleteTable("Products");
    }
    catch (StorageClientException e)
    {
        Console.WriteLine("Error: {0}", e.Message);
        Console.WriteLine("Extended error info: {0} : {1} ",
            e.ExtendedErrorInformation.ErrorCode,
            e.ExtendedErrorInformation.ErrorMessage);
    }
}
```
Remarks

If the specified table does not exist, the DeleteTable method throws a StorageClientException.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableClient.DeleteTableIfExists Method

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Deletes the table if it exists.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudTableClient
Dim tableName As String
Dim returnValue As Boolean

returnValue = instance.DeleteTableIfExist(tableName)
## Syntax

### Visual Basic

```vbnet
Public Function DeleteTableIfExist ( _
    tableName As String _
) As Boolean
```

### C#

```csharp
public bool DeleteTableIfExist (  
    string tableName
)
```

### C++

```cpp
public:
    bool DeleteTableIfExist ( 
        String^ tableName
    )
```

### J#

```
```

### JScript

```
```

## Parameters

- **tableName**
  - Type: `System.String`
  - The table name.

## Return Value

- Type: `System.Boolean`
true if the table was deleted; otherwise, false.
Example

The following code example deletes a table if it exists.

```csharp
public static void DeleteTableIfItExists(CloudStorageAccount storageAccount)
{
    // Create service client for credentialed access.
    CloudTableClient tableClient = new CloudTableClient(storageAccount.TableEndpoint.ToString(),
        storageAccount.Credentials);
    if (tableClient.DeleteTableIfExists("Products"))
    {
        Console.WriteLine("Table deleted.");
    }
    else
    {
        Console.WriteLine("The specified table does not exist.");
    }
}
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableClient.DoesTableExist Method

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Checks whether the table exists.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim instance As <code>CloudTableClient</code></td>
</tr>
<tr>
<td>Dim tableName As <code>String</code></td>
</tr>
<tr>
<td>Dim returnValue As <code>Boolean</code></td>
</tr>
</tbody>
</table>

`returnValue = instance.DoesTableExist(tableName)`
## Syntax

### Visual Basic

Public Function DoesTableExist ( _  
    tableName As String _  
) As Boolean

### C#

```csharp
public bool DoesTableExist ( 
    string tableName
)
```

### C++

```cpp
public:
bool DoesTableExist ( 
    String^ tableName
)
```

### J#

```
```

### JScript

```
```

## Parameters

**tableName**

Type: **System.String**

The table name.

## Return Value

Type: **System.Boolean**
true if table exists; otherwise, false.
### Example

The following code example checks whether a table exists.

```csharp
public static void CheckTableExistence(CloudStorageAccount storageAccount)
{
    // Create service client for credentialed access
    CloudTableClient tableClient = new CloudTableClient(storageAccount.TableEndpoint.ToString(),
             storageAccount.Credentials);

    if (tableClient.DoesTableExist("Products"))
    {
        Console.WriteLine("Table exists.");
    }
    else
    {
        Console.WriteLine("Table does not exist.");
    }
}
```
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to create a table.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As CloudTableClient
Dim asyncResult As IAsyncResult

instance.EndCreateTable(asyncResult)
Syntax

Visual Basic

Public Sub EndCreateTable (_
    asyncResult As IAsyncResult _
)

C#

public void EndCreateTable (
    IAsyncResult asyncResult
)

C++

public:
    void EndCreateTable (
        IAsyncResult^ asyncResult
    )

J#

JScript

Parameters

asyncResult
Type: System.IAsyncResult

An IAsyncResult that references the pending asynchronous operation.
## Example

The following code example creates a table asynchronously, and handles the error if the table already exists.

```csharp
static void CreateTableAsync(CloudStorageAccount storageAccount)
{
    // Create service client for credentialed access.
    CloudTableClient tableClient = new CloudTableClient(storageAccount.TableEndpoint.ToString(),
        storageAccount.Credentials);

    // Begin the operation to create a new table.
    tableClient.BeginCreateTable("Customers", CreateTableAsyncCallback, tableClient);
}

public static void CreateTableAsyncCallback(IAsyncResult result)
{
    CloudTableClient tableClient = (CloudTableClient)result.AsyncState;

    try
    {
        // End the operation.
        tableClient.EndCreateTable(result);
    }
    catch (StorageClientException e)
    {
        Console.WriteLine("Error: {0}", e.Message);
        Console.WriteLine("Extended error info: {0}:	{1}",
                          e.ExtendedErrorInformation.ErrorCode,
                          e.ExtendedErrorInformation.ErrorMessage);
    }
}
```
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference

CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableClient.EndCreateTableIfNotExist Method

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to create a table with the specified name if it does not already exist.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

#### Visual Basic

```visualbasic
Dim instance As CloudTableClient
Dim asyncResult As IAsyncResult
Dim returnValue As Boolean

returnValue = instance.EndCreateTableIfNotExist(asyncResult)
```
### Syntax

#### Visual Basic

```vbnet
Public Function EndCreateTableIfNotExist ( _
    asyncResult As IAsyncResult _
) As Boolean
```

#### C#

```csharp
public bool EndCreateTableIfNotExist ( IAsyncResult asyncResult
)
```

#### C++

```cpp
public:
    bool EndCreateTableIfNotExist ( IAsyncResult^ asyncResult
)
```

#### J#

```
```

#### JScript

```
```

### Parameters

**asyncResult**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the pending asynchronous operation.

### Return Value

Type: `System.Boolean`
true if table was created; otherwise, false.
The following code example creates a table asynchronously if it does not exist.

```csharp
static void CreateTableIfNotExistsAsync(CloudStorageAccount storageAccount)
{
    // Create service client for credentialed access
    CloudTableClient tableClient = new CloudTableClient(storageAccount.TableEndpoint.ToString(),
                                                        storageAccount.Credentials);

    // Begin the operation to create a new table.
    tableClient.BeginCreateTableIfNotExist("Categories",
                                            CreateTableIfNotExistsAsyncCallback,
                                            tableClient);
}

public static void CreateTableIfNotExistsAsyncCallback(IAsyncResult result)
{
    CloudTableClient tableClient = (CloudTableClient)result.AsyncState;

    // End the operation.
    if (tableClient.EndCreateTableIfNotExist(result))
    {
        Console.WriteLine("Table created.");
    }
}
```
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
Change History
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to delete a table.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```visualbasic
Dim instance As CloudTableClient
Dim asyncResult As IAsyncResult

instance.EndDeleteTable(asyncResult)
```
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Public Sub EndDeleteTable (  _  
| asyncResult As IAsyncResult  _  ) |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
</table>
| public void EndDeleteTable (  
| IAsyncResult asyncResult  ) |

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| public:  
| void EndDeleteTable (  
| IAsyncResult^ asyncResult  ) |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>

### Parameters

`asyncResult`

Type: System.IAsyncResult

An IAsyncResult that references the pending asynchronous operation.
The following code example deletes a table asynchronously.

```csharp
public static void DeleteTableAsync(CloudStorageAccount storageAccount)
{
    // Create service client for credentialed access.
    CloudTableClient tableClient = new CloudTableClient(storageAccount.TableEndpoint.ToString(),
        storageAccount.Credentials);

    tableClient.BeginDeleteTable("Categories", DeleteTableAsyncCallback,
        tableClient);
}

public static void DeleteTableAsyncCallback(IAsyncResult result)
{
    CloudTableClient tableClient = (CloudTableClient)result.AsyncState;

    try
    {
        // End the operation.
        tableClient.EndDeleteTable(result);
    }
    catch (StorageClientException e)
    {
        Console.WriteLine("Error: {0}", e.Message);
        Console.WriteLine("Extended error info: {0} : {1}",
            e.ExtendedErrorInformation.ErrorCode,
            e.ExtendedErrorInformation.ErrorMessage);
    }
}
```
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference

CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to delete the tables if it exists.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudTableClient
Dim asyncResult As IAsyncResult
Dim returnValue As Boolean

returnValue = instance.EndDeleteTableIfExist(asyncResult)
```
### Syntax

**Visual Basic**

```vbnet
Public Function EndDeleteTableIfExist ( asyncResult As IAsyncResult ) As Boolean
```

**C#**

```csharp
public bool EndDeleteTableIfExist ( IAsyncResult asyncResult )
```

**C++**

```cpp
public:
    bool EndDeleteTableIfExist ( IAsyncResult^ asyncResult )
```

**J#**

**JScript**


### Parameters

- **asyncResult**
  - Type: `System.IAsyncResult`

  An `IAsyncResult` that references the pending asynchronous operation.

### Return Value

- Type: `System.Boolean`
true if the table was deleted; otherwise, false.
Example

The following code example deletes a table asynchronously if it exists.

```csharp
public static void DeleteTableIfExistsAsync(CloudStorageAccount storageAccount)
{
    // Create service client for credentialed access
    CloudTableClient tableClient = new CloudTableClient(
        storageAccount.TableEndpoint.ToString(),
        storageAccount.Credentials);

    tableClient.BeginDeleteTableIfExist(
        "Categories", DeleteTableIfExistAsyncCallback,
        System.Threading.Thread.Sleep(5000)); // wait, the async task is completing.
}

public static void DeleteTableIfExistAsyncCallback(IAsyncResult result)
{
    CloudTableClient tableClient = (CloudTableClient)result.AsyncState;

    // End the operation.
    if (tableClient.EndDeleteTableIfExist(result))
        Console.WriteLine("Table deleted.");
    else
        Console.WriteLine("Table doesn't exist; couldn't be deleted.");
}
```
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
Ends an asynchronous operation to determine whether a table exists.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>

Dim instance As `CloudTableClient`
Dim asyncResult As `IAsyncResult`
Dim returnValue As `Boolean`

returnValue = instance.EndDoesTableExist(asyncResult)
## Syntax

### Visual Basic

Public Function EndDoesTableExist ( _  
    asyncResult As IAsyncResult _  
) As Boolean

### C#

public bool EndDoesTableExist (  
    IAsyncResult asyncResult  
)

### C++

public:  
bool EndDoesTableExist (  
    IAsyncResult^ asyncResult  
)

### J#

### JScript

## Parameters

`asyncResult`  
Type: `System.IAsyncResult`  
An `IAsyncResult` that references the pending asynchronous operation.

## Return Value

Type: `System.Boolean`
true if table exists; otherwise, false.
**Example**

The following code example checks whether a table exists asynchronously.

```csharp
public static void CheckTableExistenceAsync(CloudStorageAccount storageAccount)
{
    // Create service client for credentialed access
    CloudTableClient tableClient = new CloudTableClient(storageAccount.TableEndpoint.ToString(),
        storageAccount.Credentials);

    tableClient.BeginDoesTableExist("Products", CheckTableExistenceAsyncCallback,
        tableClient);
}

public static void CheckTableExistenceAsyncCallback(IAsyncResult result)
{
    CloudTableClient tableClient = (CloudTableClient)result.AsyncState;

    if (tableClient.EndDoesTableExist(result))
    {
        Console.WriteLine("Table exists.");
    }
    else
    {
        Console.WriteLine("Table does not exist.");
    }
}
```
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to get an account’s Table service properties.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Visual Basic

```vbnet
Dim instance As CloudTableClient
Dim asyncResult As IAsyncResult
Dim returnValue As ServiceProperties

returnValue = instance.EndGetServiceProperties(asyncResult)
```
## Syntax

### Visual Basic

```vbnet
Public Function EndGetServiceProperties ( asyncResult As IAsyncResult ) As ServiceProperties
```

### C#

```csharp
public ServiceProperties EndGetServiceProperties ( IAsyncResult asyncResult )
```

### C++

```cpp
public: ServiceProperties^ EndGetServiceProperties ( IAsyncResult^ asyncResult )
```

### J#

### JScript

### Parameters

- **asyncResult**
  - Type: `System.IAsyncResult`

  An **IAAsyncResult** that references the pending asynchronous operation.

### Return Value

Returns an **ServiceProperties** object that specifies the Table service properties.
Remarks

The local storage service currently does not support this method.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableClient.EndListTablesSegmented Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to return a result segment containing a collection of table names.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudTableClient
Dim asyncResult As IAsyncResult
Dim returnValue As ResultSegment(Of String)

returnValue = instance.EndListTablesSegmented(asyncResult)
```
## Syntax

### Visual Basic

```vbnet
Public Function EndListTablesSegmented ( asyncResult As IAsyncResult ) As ResultSegment(Of String)
```

### C#

```csharp
public ResultSegment<string> EndListTablesSegmented ( IAsyncResult asyncResult )
```

### C++

```cpp
public: ResultSegment<String^>^ EndListTablesSegmented ( IAsyncResult^ asyncResult )
```

### J#

```jsharp```

### JScript

```jscript```

## Parameters

**asyncResult**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the pending asynchronous operation.

## Return Value

Type: `Microsoft.WindowsAzure.StorageClient.ResultSegment`
A result segment containing table names.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableClient.EndSetServiceProperties Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to set an account’s Table service properties.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Dim instance As **CloudTableClient**  
Dim asyncResult As **IAsyncResult**  

instance.EndSetServiceProperties(asyncResult)
## Syntax

### Visual Basic

```vbnet
Public Sub EndSetServiceProperties ( _
    asyncResult As IAsyncResult _
)
```

### C#

```csharp
public void EndSetServiceProperties (  
    IAsyncResult asyncResult
)
```

### C++

```cpp
public:
    void EndSetServiceProperties (  
    IAsyncResult^ asyncResult
)
```

### J#

```jsharp
```

### JScript

```jscript
```

### Parameters

**asyncResult**
Type: `System.IAsyncResult`

An `IAsyncResult` that references the pending asynchronous operation.
Remarks

The local storage service currently does not support this method.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a `TableServiceContext` object for performing data operations against the Table service.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudTableClient
Dim returnValue As TableServiceContext

returnValue = instance.GetDataServiceContext
```
**Syntax**

**Visual Basic**

Public Function GetDataServiceContext As TableServiceContext

**C#**

public TableServiceContext GetDataServiceContext ()

**C++**

public: TableServiceContext^ GetDataServiceContext ()

**J#**

**JScript**

**Return Value**


The runtime context to use for performing data operations against the Table service.
Example
The following code example gets an entity from a table and deletes it.
C#

public static void DeleteEntity(CloudStorageAccount storageAc
{
// Create service client for credentialed access to the T
CloudTableClient tableClient = new CloudTableClient(stora
storageAccount.Credentials);
// Get the context.
TableServiceContext context = tableClient.GetDataServiceC
// Get the first entity from the table.
ProductEntity entity = context.CreateQuery<ProductEntity>
// Delete the entity.
context.DeleteObject(entity);
// Save changes to the service.
context.SaveChanges();
}
// Define a class that represents an entity.
class ProductEntity : TableServiceEntity
{
public ProductEntity()
{
}
public string ProductName { get; set; }
public string Category { get; set; }
public double Price { get; set; }
public bool InStock { get; set; }
public DateTime DateAdded { get; set; }
public Int32 Quantity { get; set; }
}


Remarks

The Windows Azure TableServiceContext object is derived from the DataServiceContext object provided by the WCF Data Services. This object provides a runtime context for performing data operations against the Table service, including querying entities and inserting, updating, and deleting entities.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
Gets the properties of a storage account’s Table service, including Windows Azure Storage Analytics.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As CloudTableClient
Dim returnValue As ServiceProperties

returnValue = instance.GetServiceProperties
```
## Syntax

### Visual Basic

Public Function GetServiceProperties As ServiceProperties

### C#

public ServiceProperties GetServiceProperties ()

### C++

public: ServiceProperties^ GetServiceProperties ()

### J#

### JScript

### Return Value

Returns a [ServiceProperties](#) object that specifies the account’s Table service settings.
Remarks

The local storage service currently does not support this method.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableClient.ListTables Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudTableClient.ListTables()</code></td>
<td>Returns an enumerable collection of table names for the storage account.</td>
</tr>
<tr>
<td><code>CloudTableClient.ListTables(String)</code></td>
<td>Returns an enumerable collection of table names that begin with the specified prefix.</td>
</tr>
</tbody>
</table>
See Also

Reference

CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
<table>
<thead>
<tr>
<th>CloudTableClient.ListTables Method ()</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
</tr>
</tbody>
</table>

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns an enumerable collection of table names for the storage account.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudTableClient
Dim returnValue As IEnumerable(Of String)

returnValue = instance.ListTables
```
### Syntax

**Visual Basic**

Public Function ListTables As **System.Collections.Generic.IEnumerable(Of String)**

**C#**

```csharp
public System.Collections.Generic.IEnumerable<string> ListTables()
```

**C++**

```cpp
public: System::Collections::Generic::IEnumerable<String^>^ ListTables()
```

**J#**

**JScript**


### Return Value

**Type:** System.Collections.Generic.IEnumerable

An enumerable collection of table names.
The following code example lists all tables in the storage account.

```csharp
public static void ListAllTables(CloudStorageAccount storageAccount)
{
    // Create service client for credentialed access.
    CloudTableClient tableClient = new CloudTableClient(storageAccount.TableEndpoint.ToString(), storageAccount.Credentials);
    // List the tables in this storage account.
    foreach (string tableName in tableClient.ListTables())
    {
        Console.WriteLine(tableName);
    }
}
```
Remarks

The collection of table names is retrieved lazily.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
Change History
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns an enumerable collection of table names that begin with the specified prefix.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Dim instance As **CloudTableClient**  
Dim prefix As **String**  
Dim returnValue As **IEnumerable(Of String)**  

returnValue = instance.ListTables(prefix) |
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| `Public Function ListTables ( _
| prefix As String _
| ) As IEnumerable(Of String)` |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>public IEnumerable&lt;string&gt; ListTables ( string prefix)</code></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| `public: 
| `IEnumerable<String^>^ ListTables ( 
| String^ prefix)` |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>JScript</code></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>prefix</code></td>
</tr>
<tr>
<td>Type: <code>System.String</code></td>
</tr>
<tr>
<td>The table name prefix.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Return Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type: <code>System.Collections.Generic.IEnumerable</code></td>
</tr>
</tbody>
</table>
An enumerable collection of table names.
The following code example lists tables in the storage account that begin with the specified prefix.

```csharp
public static void ListTablesByPrefix(CloudStorageAccount storageAccount, string prefix)
{
    // Create service client for credentialed access.
    CloudTableClient tableClient = new CloudTableClient(storageAccount.TableEndpoint.ToString(), storageAccount.Credentials);
    // List the tables in this storage account.
    foreach (string tableName in tableClient.ListTables(prefix))
    {
        Console.WriteLine(tableName);
    }
}
```
Remarks

The collection of table names is retrieved lazily.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudTableClient.ListTablesSegmented()</code></td>
<td>Returns a result segment containing a collection of table names in the storage account.</td>
</tr>
<tr>
<td><code>CloudTableClient.ListTablesSegmented(Int32, ResultContinuation)</code></td>
<td>Returns a result segment containing a collection of table names in the storage account. Use this overload when you want to control the maximum number of results returned at a time, and when you want to use a continuation token to determine whether there are more results to return from the service after the current page completes.</td>
</tr>
<tr>
<td><code>CloudTableClient.ListTablesSegmented(String, Int32, ResultContinuation)</code></td>
<td>Returns a result segment containing a collection of table names beginning with the specified prefix. Use this overload when you want to control the maximum number of results returned at a time, and when you want to use a continuation token to determine whether there are more results to return from the service after the current page completes.</td>
</tr>
</tbody>
</table>
See Also

Reference

CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a result segment containing a collection of table names in the storage account.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudTableClient
Dim returnValue As ResultSegment(Of String)

returnValue = instance.ListTablesSegmented
```
## Syntax

### Visual Basic

Public Function ListTablesSegmented As ResultSegment

### C#

```csharp
public ResultSegment<string> ListTablesSegmented()
```

### C++

```cpp
public:
ResultSegment<String^>^ ListTablesSegmented()
```

### J#

JScript

### Return Value

Type: Microsoft.WindowsAzure.StorageClient.ResultSegment

A result segment containing table names.
The following code example lists tables in segments.

```csharp
public static void ListTablesInSegments(CloudStorageAccount storageAccount)
{
    // Create service client for credentialed access.
    CloudTableClient tableClient = new CloudTableClient(storageAccount.TableEndpoint.ToString(),
                                                        storageAccount.Credentials);

    // Return a result segment of table names.
    ResultSegment<String> resultSegment = tableClient.ListTablesSegmented();

    // Print table names to the console.
    WriteTableNames(resultSegment);

    // Check HasMoreResults to determine whether the page is complete.
    if (resultSegment.HasMoreResults)
    {
        resultSegment.GetNext();

        // Print table names to the console.
        WriteTableNames(resultSegment);
    }

    // After the page is complete, check the continuation token to determine whether there are more results on the server.
    while (resultSegment.ContinuationToken != null)
    {
        resultSegment = resultSegment.GetNext();

        // Print table names to the console.
        WriteTableNames(resultSegment);
    }
}
```
public static void WriteTableNames(ResultSegment<string> resultSegment)
{
    foreach (string tableName in resultSegment.Results)
    {
        Console.WriteLine(tableName);
    }
}
Remarks

The **ListTablesSegmented** method lists table names in pages. A page is set of results of a specified size; it is represented by the **ResultSegment** class. This overload of the **ListTablesSegmented** returns results up to the per-operation limit of 1000 results.

Check the value of the **ContinuationToken** property to determine whether there are more results to return from the service after the page is complete. The continuation token is non-null as long as there are more results to return from the service.

Call the **GetNext** method to return the next segment of results from the service.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

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See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableClient.ListTablesSegmented Method (Int32, ResultContinuation)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a result segment containing a collection of table names in the storage account. Use this overload when you want to control the maximum number of results returned at a time, and when you want to use a continuation token to determine whether there are more results to return from the service after the current page completes.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudTableClient
Dim maxResults As Integer
Dim continuationToken As ResultContinuation
Dim returnValue As ResultSegment(Of String)

returnValue = instance.ListTablesSegmented(maxResults)
```
Syntax

### Visual Basic

```vbnet
Public Function ListTablesSegmented ( _
    maxResults As Integer, _
    continuationToken As ResultContinuation _
) As ResultSegment(Of String)
```

### C#

```csharp
public ResultSegment<string> ListTablesSegmented ( int maxResults, ResultContinuation continuationToken )
```

### C++

```cpp
public:
ResultSegment<String^>^ ListTablesSegmented ( int maxResults, ResultContinuation^ continuationToken )
```

### J#

```
```

### JScript

```
```

#### Parameters

- **maxResults**
  - Type: `System.Int32`

  A non-negative integer value that indicates the maximum number of results to be returned at a time, up to the per-operation limit of 1000. If this value i:
zero, the maximum possible number of results will be returned, up to 1000.

`continuationToken`
Type: `Microsoft.WindowsAzure.StorageClient.ResultContinuation`

A continuation token returned by a previous listing operation.

**Return Value**

Type: `Microsoft.WindowsAzure.StorageClient.ResultSegment`

A result segment containing table names.
Example

The following code example lists table names in pages of five. The continuation token will be non-null until the listing is complete.

```csharp
public static void ListTablesInPages(CloudStorageAccount storageAccount)
{
    // Create service client for credentialed access.
    CloudTableClient tableClient = new CloudTableClient(storageAccount.TableEndpoint.ToString(),
                storageAccount.Credentials);

    // Return a result segment of table names.
    ResultSegment<String> resultSegment = tableClient.ListTablesSegmented(5, null);

    // Print table names to the console.
    WriteTableNames(resultSegment);

    // Check HasMoreResults to determine whether the page is complete.
    if (resultSegment.HasMoreResults)
    {
        resultSegment.GetNext();

        // Print table names to the console.
        WriteTableNames(resultSegment);
    }

    // After the page is complete, check the continuation token.
    // Results on the server.
    while (resultSegment.ContinuationToken != null)
    {
        resultSegment = resultSegment.GetNext();

        // Print table names to the console.
        WriteTableNames(resultSegment);
    }
}
public static void WriteTableNames(ResultSegment<string> resultSegment)
{
    foreach (string tableName in resultSegment.Results)
    {
        Console.WriteLine(tableName);
    }
}
Remarks

The **ListTablesSegmented** method lists table names in pages. A page is set of results of a specified size; it is represented by the **ResultSegment** class.

By returning table names in pages, you can control the number of table names returned per operation. This may be useful if, for example, you are displaying a web page with some predefined number of table names on it.

To specify the page size to return, pass in a non-zero value for the **maxResults** parameter. Passing in zero for the **maxResults** parameter returns either the maximum number of results available, or the per-operation limit of 1000 results.

If you have specified a page size, you can check the **HasMoreResults** property to check whether the page is complete. If **HasMoreResults** is **true**, the complete page has not been returned for some reason. Call **GetNext** to return the remaining results in the page.

Note that if you have not specified a page size, **HasMoreResults** will always be **false**. Check the value of the **ContinuationToken** property to determine whether there are more results to return from the service after the page is complete. The continuation token is non-null as long as there are more results to return from the service. If the page is complete, then **HasMoreResults** will be **false**, but if the continuation token is non-null, there are additional results to return beyond that page.

Call the **GetNext** method to return the next segment of results from the service.
- **Thread Safety**

  Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference

CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
Returns a result segment containing a collection of table names beginning with the specified prefix. Use this overload when you want to control the maximum number of results returned at a time, and when you want to use a continuation token to determine whether there are more results to return from the service after the current page completes.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As [CloudTableClient](#)
Dim prefix As [String](#)
Dim maxResults As [Integer](#)
Dim continuationToken As [ResultContinuation](#)
Dim returnValue As [ResultSegment](#)(Of [String](#))

returnValue = instance.ListTablesSegmented(prefix, maxResults)
### Syntax

#### Visual Basic

```vbnet
Public Function ListTablesSegmented ( _
    prefix As String, _
    maxResults As Integer, _
    continuationToken As ResultContinuation _
) As ResultSegment(Of String)
```

#### C#

```csharp
public ResultSegment<string> ListTablesSegmented ( 
    string prefix,
    int maxResults,
    ResultContinuation continuationToken
)
```

#### C++

```cpp
public:
    ResultSegment<String^>^ ListTablesSegmented ( 
        String^ prefix,
        int maxResults,
        ResultContinuation^ continuationToken
    )
```

#### J#

```jsharp```

#### JScript

```jscript```

### Parameters

*prefix*
Type: **System.String**

The table name prefix.

*maxResults*

Type: **System.Int32**

A non-negative integer value that indicates the maximum number of results to be returned at a time, up to the per-operation limit of 1000. If this value is zero, the maximum possible number of results will be returned, up to 1000.

*continuationToken*

Type: **Microsoft.WindowsAzure.StorageClient.ResultContinuation**

A continuation token returned by a previous listing operation.

**Return Value**

Type: Microsoft.WindowsAzure.StorageClient.ResultSegment

A result segment containing table names.
The following code example lists table names in pages of five. The continuation token will be non-null until the listing is complete.

```csharp
public static void ListTablesInPagesWithPrefix(CloudStorageAccount storageAccount, string prefix)
{
    // Create service client for credentialed access.
    CloudTableClient tableClient = new CloudTableClient(storageAccount.TableEndpoint.ToString(),
              storageAccount.Credentials);

    //Return a result segment of table names.
    ResultSegment<String> resultSegment = tableClient.ListTablesSegmented(prefix, 5, null);

    //Print table names to the console.
    WriteTableNames(resultSegment);

    //Check HasMoreResults to determine whether the page is complete.
    if (resultSegment.HasMoreResults)
    {
        resultSegment.GetNext();

        //Print table names to the console.
        WriteTableNames(resultSegment);
    }

    //After the page is complete, check the continuation token to
deetermine whether there are more results on the server.
    while (resultSegment.ContinuationToken != null)
    {
        resultSegment = resultSegment.GetNext();

        //Print table names to the console.
        WriteTableNames(resultSegment);
    }
```
public static void WriteTableNames(ResultSegment<string> resultSegment)
{
    foreach (string tableName in resultSegment.Results)
    {
        Console.WriteLine(tableName);
    }
}
Remarks

The **ListTablesSegmented** method lists table names in pages. A page is set of results of a specified size; it is represented by the **ResultSegment** class.

By returning table names in pages, you can control the number of table names returned per operation. This may be useful if, for example, you are displaying a web page with some predefined number of table names on it.

To specify the page size to return, pass in a non-zero value for the **maxResults** parameter. Passing in zero for the **maxResults** parameter returns either the maximum number of results available, or the per-operation limit of 1000 results.

If you have specified a page size, you can check the **HasMoreResults** property to check whether the page is complete. If **HasMoreResults** is **true**, the complete page has not been returned for some reason. Call **GetNext** to return the remaining results in the page.

Note that if you have not specified a page size, **HasMoreResults** will always be **false**. Check the value of the **ContinuationToken** property to determine whether there are more results to return from the service after the page is complete. The continuation token is non-null as long as there are more results to return from the service. If the page is complete, then **HasMoreResults** will be **false**, but if the continuation token is non-null, there are additional results to return beyond that page.

Call the **GetNext** method to return the next segment of results from the service.
- **Thread Safety**
  
  Any public static (*Shared* in Visual Basic) members of this type are thread safe.
  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableClient.SetServiceProperties Method

See Also Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Sets the properties of a storage account’s Table service, including Windows Azure Storage Analytics.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

### Visual Basic

Dim instance As CloudTableClient  
Dim properties As ServiceProperties  

instance.SetServiceProperties(properties)
## Syntax

### Visual Basic

```
Public Sub SetServiceProperties ( _
    properties As ServiceProperties _
)
```

### C#

```
public void SetServiceProperties (  
    ServiceProperties properties
)
```

### C++

```
public:
void SetServiceProperties ( 
    ServiceProperties^ properties
)
```

### J#

```
```

### JScript

```
```

## Parameters

**properties**

The Table service settings to set.
The following snippet enables all logging and metrics for table activities in the storage account with a 7 day retention period.

```csharp
CloudTableClient client = storageAccount.CreateCloudTableClient();

ServiceProperties sp = new ServiceProperties();
sp.Logging.Version = "1.0";
sp.Logging.RetentionDays = 7;
sp.Logging.LoggingOperations = LoggingOperations.All;
sp.Metrics.Version = "1.0";
sp.Metrics.MetricsLevel = MetricsLevel.ServiceAndApi;
client.SetServiceProperties(sp);
```
Remarks

The *properties* parameter specifies the logging and metrics settings for the account’s Table service.

The local storage service currently does not support this method.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
ServiceProperties

Other Resources
Storage Analytics Overview
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BaseUri</strong></td>
<td>Gets the base URI for the Table service client.</td>
</tr>
<tr>
<td><strong>Credentials</strong></td>
<td>Gets the account credentials used to create the Table service client.</td>
</tr>
<tr>
<td><strong>MinSupportedDateTime</strong></td>
<td>Returns the minimum date and time value supported by the Table service.</td>
</tr>
<tr>
<td><strong>RetryPolicy</strong></td>
<td>Gets or sets the default retry policy for requests made via the Table service client.</td>
</tr>
<tr>
<td><strong>Timeout</strong></td>
<td>Gets or sets the default server timeout for requests made by the Table service client.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudTableClient Class
Microsoft.WindowsAzure.StorageClient Namespace
<table>
<thead>
<tr>
<th>CloudTableClient.BaseUri Property</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
</tr>
</tbody>
</table>

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the base URI for the Table service client.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Visual Basic

Dim instance As CloudTableClient
Dim value As Uri

value = instance.BaseUri
**Syntax**

**Visual Basic**

```
Public Property BaseUri As Uri
```

**C#**

```
public Uri BaseUri { get; }
```

**C++**

```
public:
property Uri^ BaseUri {
    Uri^ get ();
}
```

**J#**

```
```

**JScript**

```
```

**Property Value**

Type: [System.Uri](https://docs.microsoft.com/en-us/dotnet/api/system.uri)

The base URI used to construct the Table service client.
Remarks

The base URI for the Windows Azure Table service takes the following form:

[http|https]://<account-name>.table.core.windows.net/

For the local Table service running in the storage emulator, the base URI for the table service is:

http://127.0.0.1:10002/devstoreaccount1
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableClient.Credentials Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the account credentials used to create the Table service client.

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

Visual Basic

Dim instance As CloudTableClient
Dim value As StorageCredentials

value = instance.Credentials
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Property Credentials As <strong>StorageCredentials</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public <strong>StorageCredentials</strong> Credentials { get; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: property <strong>StorageCredentials</strong>^ Credentials { <strong>StorageCredentials</strong>^ get (); }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>

**Property Value**

Type: [Microsoft.WindowsAzure.StorageCredentials](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storagecredentials)

The account credentials.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns the minimum date and time value supported by the Table service.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As CloudTableClient
Dim value As DateTime

value = instance.MinSupportedDateTime
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public ReadOnly Property MinSupportedDateTime As DateTime</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public DateTime MinSupportedDateTime { get; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: property DateTime MinSupportedDateTime {</td>
</tr>
<tr>
<td>DateTime get ();</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>

### Property Value

Type: System.DateTime

Returns a DateTime value indicating the minimum supported date and time.
Thread Safety

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the default retry policy for requests made via the Table service client.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As CloudTableClient
Dim value As RetryPolicy

value = instance.RetryPolicy

instance.RetryPolicy = value
```
## Syntax

### Visual Basic

Public Property RetryPolicy As RetryPolicy

### C#

```csharp
public RetryPolicy RetryPolicy { get; set; }
```

### C++

```cpp
public:
 property RetryPolicy^ RetryPolicy {
    RetryPolicy^ get ()
    void set (RetryPolicy^ value);
}
```

### J#

```
```

### JScript

```
```

## Property Value


The retry policy.
Remarks

Setting the retry policy for the service client establishes the default policy for all requests made via the client, unless the request explicitly sets the retry policy.

To set the retry policy for an individual request, set the `RetryPolicy` property of the `BlobRequestOptions` class to a delegate of type `RetryPolicy`. This property can be set to one of the methods provided by the `RetryPolicies` class, or to a custom retry policy delegate that you define.

For details on implementing either a pre-defined or a custom retry policy, see `RetryPolicies`. 
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableClient.Timeout Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the default server timeout for requests made by the Table service client.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

### Visual Basic

<table>
<thead>
<tr>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim instance As <strong>CloudTableClient</strong></td>
</tr>
<tr>
<td>Dim value As <strong>TimeSpan</strong></td>
</tr>
<tr>
<td>value = instance.Timeout</td>
</tr>
<tr>
<td>instance.Timeout = value</td>
</tr>
</tbody>
</table>
**Syntax**

Visual Basic

Public Property Timeout As **TimeSpan**

C#

```csharp
public **TimeSpan** Timeout { get; set; }
```

C++

```cpp
public:
property **TimeSpan** Timeout {
    **TimeSpan** get ();
    void set (**TimeSpan** value);
}
```

J#

JScript

**Property Value**

Type: **System.TimeSpan**

The server timeout interval.
Remarks

The server timeout interval begins at the time that the complete request has been received by the service, and the server begins processing the response. If the timeout interval elapses before the response is returned to the client, the operation times out. The timeout interval resets with each retry, if the request is retried.

The default timeout interval for a request made via the service client is 90 seconds. You can change this value on the service client by setting this property so that all subsequent requests made via the service client will use the new timeout interval. You can also change this value for an individual request, by setting the Timeout property of the BlobRequestOptions class.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ResponseReceived</td>
<td>Occurs when a response is received from the server.</td>
</tr>
</tbody>
</table>
See Also

Reference

CloudTableClient Class
Microsoft.WindowsAzure.StorageClient Namespace
See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Occurs when a response is received from the server.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

Dim instance As CloudTableClient
Dim handler As EventHandler(Of ResponseReceivedEventArgs)
AddHandler instance.ResponseReceived, handler
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td><strong>Public Event ResponseReceived As EventHandler(Of ResponseReceivedEventArgs)</strong></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td><strong>public event EventHandler&lt;ResponseReceivedEventArgs&gt; ResponseReceived</strong></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><strong>public:</strong>&lt;br&gt;<strong>event EventHandler&lt;ResponseReceivedEventArgs&gt;^ ResponseReceived</strong>&lt;br&gt;<strong>void add (EventHandler&lt;ResponseReceivedEventArgs&gt;^) void remove (EventHandler&lt;ResponseReceivedEventArgs&gt;)</strong></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td><strong>JScript</strong></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td><strong>JScript</strong></td>
</tr>
</tbody>
</table>
 Platforms

 Development Platforms
See Also

Reference
CloudTableClient Class
CloudTableClient Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a query against the Windows Azure Table service.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

Dim instance As `CloudTableQuery(Of TElement)`
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
<th>C#</th>
<th>C++</th>
<th>J#</th>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Class CloudTableQuery(Of TElement) Implements IQueryable(Of TElement), IEnumerable(Of TElement), _ IQueryable, IEnumerable</td>
<td>public class CloudTableQuery&lt;TElement&gt; : IQueryable&lt;TElement&gt;, IQueryable, IEnumerable</td>
<td>generic&lt;tparamname TElement&gt; public ref class CloudTableQuery : IQueryable&lt;TElement&gt;, IQueryable, IEnumerable</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**GenericParameters**

*TElement*

The type of the query result.
Inheritance Hierarchy

System.Object
Microsoft.WindowsAzure.StorageClient.CloudTableQuery
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudTableQuery Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a query against the Windows Azure Table service.

The following tables list the members exposed by the CloudTableQuery type.
## Public Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CloudTableQuery</td>
<td>Overloaded.</td>
</tr>
</tbody>
</table>

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### Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ElementType</td>
<td>Gets the type of the element(s) that are returned when the expression tree associated with this instance of <code>IQueryable</code> is executed.</td>
</tr>
<tr>
<td>Expression</td>
<td>Gets the expression tree that is associated with the instance of <code>IQueryable</code>.</td>
</tr>
<tr>
<td>Provider</td>
<td>Gets the query provider that is associated with this data source.</td>
</tr>
<tr>
<td>RetryPolicy</td>
<td>Gets or sets the retry policy for the query.</td>
</tr>
</tbody>
</table>
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BeginExecuteSegmented</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>EndExecuteSegmented</td>
<td>Ends an asynchronous operation to execute a query and return the results as a result segment.</td>
</tr>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>Execute</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>Expand</td>
<td>Expands the specified path.</td>
</tr>
<tr>
<td>GetEnumerator</td>
<td>Returns an enumerator that iterates through the collection.</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>Overridden. Returns a String that represents this instance.</td>
</tr>
</tbody>
</table>
## Protected Methods (see also Extension Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>

[Top](#)
### Extension Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AsTableServiceQuery</td>
<td>Converts a query of type <a href="#">DataServiceQuery</a> to a <a href="#">CloudTableQuery</a> object that handles continuation tokens and retries failed calls to the Table service. (Defined by <a href="#">TableServiceExtensionMethods</a>.)</td>
</tr>
</tbody>
</table>
## Explicit Interface Implementations

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GetEnumerator</td>
<td>Returns an enumerator that can be used to iterate through a collection.</td>
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</table>
See Also

Reference
CloudTableQuery Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableQuery Constructor

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CloudTableQuery (DataServiceQuery)</td>
<td>Initializes a new instance of the CloudTableQuery class with the specified query.</td>
</tr>
<tr>
<td>CloudTableQuery (DataServiceQuery, RetryPolicy)</td>
<td>Initializes a new instance of the CloudTableQuery class with the specified query and retry policy.</td>
</tr>
</tbody>
</table>


See Also

Reference

CloudTableQuery Class
CloudTableQuery Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableQuery Constructor (DataServiceQuery)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudTableQuery class with the specified query.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```visualbasic
Dim query As DataServiceQuery(Of TElement)
Dim instance As New CloudTableQuery(Of TElement)(query
```
### Syntax

#### Visual Basic

```vbnet
Public Sub New (  
    query As DataServiceQuery(Of TElement)  
)
```

#### C#

```csharp
public CloudTableQuery (  
    DataServiceQuery<TElement> query  
)
```

#### C++

```cpp
public:  
CloudTableQuery (  
    DataServiceQuery<TElement>^ query  
)
```

#### J#

#### JScript

#### Parameters

- **query**
  

  The base query.
Platforms

Development Platforms
See Also

Reference
CloudTableQuery Class
CloudTableQuery Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableQuery Constructor (DataServiceQuery, RetryPolicy)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CloudTableQuery class with the specified query and retry policy.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

**Visual Basic**

```vbnet
Dim query As DataServiceQuery(Of TElement)
Dim policy As RetryPolicy

Dim instance As New CloudTableQuery(Of TElement)(query)
```
### Syntax

**Visual Basic**

```vbnet
Public Sub New (_
    query As DataServiceQuery(Of TElement), _
    policy As RetryPolicy _
)```

**C#**

```csharp
public CloudTableQuery (  
    DataServiceQuery<TElement> query,  
    RetryPolicy policy
)```

**C++**

```cpp
public:  
CloudTableQuery (  
    DataServiceQuery<TElement>^ query,  
    RetryPolicy^ policy
)```

**J#**

```jsharp```

**JScript**

```jscript```

### Parameters

**query**


The base query.
policy
Type: Microsoft.WindowsAzure.StorageClient.RetryPolicy

The retry policy for the query.
Platforms

Development Platforms
See Also

Reference
CloudTableQuery Class
CloudTableQuery Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods (see also Protected Methods)

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<tr>
<td>EndExecuteSegmented</td>
<td>Ends an asynchronous operation to execute a query and return the results as a result segment.</td>
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<tbody>
<tr>
<td>AsTableServiceQuery</td>
<td>Converts a query of type <a href="https://msdn.microsoft.com/en-us/data/jj666466">DataServiceQuery</a> to a <a href="https://msdn.microsoft.com/en-us/data/jj666466">CloudTableQuery</a> object that handles continuation tokens and retries failed calls to the Table service. (Defined by <a href="https://msdn.microsoft.com/en-us/data/jj666466">TableServiceExtensionMethods</a>.)</td>
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<tr>
<td>GetEnumerator</td>
<td>Returns an enumerator that can be used to iterate through a collection.</td>
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See Also

Reference
CloudTableQuery Class
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableQuery.BeginExecuteSegmented Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Overload List

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<thead>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudTableQuery.BeginExecuteSegmented(ResultContinuation, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to execute a query with a continuation token from the previous listing operation, and returns the results as a result segment.</td>
</tr>
<tr>
<td><code>CloudTableQuery.BeginExecuteSegmented(AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to execute a query and return the results as a result segment.</td>
</tr>
</tbody>
</table>
See Also

Reference

CloudTableQuery Class
CloudTableQuery Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableQuery.BeginExecuteSegmented Method (ResultContinuation, AsyncCallback, Object)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to execute a query with a continuation token from the previous listing operation, and returns the results as a result segment.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

#### Visual Basic

```visualbasic
Dim instance As CloudTableQuery(Of TElement)
Dim continuationToken As ResultContinuation
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginExecuteSegmented(continuationToken)
```
### Syntax

**Visual Basic**

Public Function BeginExecuteSegmented (continuationToken As ResultContinuation, callback As AsyncCallback, state As Object) As IAsyncResult

**C#**

public IAsyncResult BeginExecuteSegmented (ResultContinuation continuationToken, AsyncCallback callback, Object state)

**C++**

public: IAsyncResult^ BeginExecuteSegmented (ResultContinuation^ continuationToken, AsyncCallback^ callback, Object^ state)

**J#**

**JScript**

### Parameters

`continuationToken`
Type: [Microsoft.WindowsAzure.StorageClient.ResultContinuation](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storageclient.resultcontinuation)

A continuation token returned by a previous listing operation.

*callback*

Type: [System.AsyncCallback](https://docs.microsoft.com/en-us/dotnet/api/system.asynccallback)

The callback delegate that will receive notification when the asynchronous operation completes.

*state*

Type: [System.Object](https://docs.microsoft.com/en-us/dotnet/api/system.object)

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: [System.IAsyncResult](https://docs.microsoft.com/en-us/dotnet/api/system.isharedresource)

An IAsyncResult that references the asynchronous operation.
Thread Safety

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudTableQuery Class
CloudTableQuery Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableQuery.BeginExecuteSegmented Method (AsyncCallback, Object)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to execute a query and return the results as a result segment.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim instance As <strong>CloudTableQuery</strong> (Of TElement)</td>
</tr>
<tr>
<td>Dim callback As <strong>AsyncCallback</strong></td>
</tr>
<tr>
<td>Dim state As <strong>Object</strong></td>
</tr>
<tr>
<td>Dim returnValue As <strong>IAAsyncResult</strong></td>
</tr>
</tbody>
</table>

returnValue = instance.BeginExecuteSegmented(callback)
## Syntax

### Visual Basic

Public Function BeginExecuteSegmented ( _  
callback As AsyncCallback, _  
state As Object _  
) As IAsyncResult

### C#

```csharp
public IAsyncResult BeginExecuteSegmented ( 
AsyncCallback callback, 
Object state
)
```

### C++

```cpp
public:
IAsyncResult^ BeginExecuteSegmented ( 
AsyncCallback^ callback, 
Object^ state
)
```

### J#

### JScript

**Parameters**

`callback`  
Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.
**state**

Type: `System.Object`

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the asynchronous operation.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
See Also

Reference
CloudTableQuery Class
CloudTableQuery Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableQuery.EndExecuteSegmented Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to execute a query and return the results as a result segment.

**Namespace:** Microsoft.WindowsAzure.StorageClient
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As CloudTableQuery(Of TElement)
Dim asyncResult As IAsyncResult
Dim returnValue As ResultSegment(Of TElement)

returnValue = instance.EndExecuteSegmented(asyncResu...
Syntax

Visual Basic

Public Function EndExecuteSegmented (_
    asyncResult As IAsyncResult _
) As ResultSegment(Of TElement)

C#

public ResultSegment&lt;TElement&gt; EndExecuteSegmented (IAsyncResult asyncResult)

C++

public: ResultSegment&lt;TElement&gt;&^ EndExecuteSegmented (IAsyncResult^ asyncResult)

J#

JScript

Parameters

asyncResult

Type: System.IAsyncResult

The reference to the pending asynchronous request to finish.

Return Value

Type: Microsoft.WindowsAzure.StorageClient.ResultSegment
A result segment containing objects of type .
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudTableQuery Class
CloudTableQuery Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

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<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudTableQuery.Execute()</code></td>
<td>Executes the query with the retry policy specified on the <code>CloudTableQuery</code> object.</td>
</tr>
<tr>
<td><code>CloudTableQuery.Execute(ResultContinuation)</code></td>
<td>Executes the query with the retry policy specified on the <code>CloudTableQuery</code> object, and with a continuation token from the previous listing operation.</td>
</tr>
</tbody>
</table>
See Also

Reference

CloudTableQuery Class
CloudTableQuery Members
Microsoft.WindowsAzure.StorageClient Namespace
Executes the query with the retry policy specified on the CloudTableQuery object.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As **CloudTableQuery**(Of TElement)
Dim returnValue As **IEnumerable**(Of TElement)

returnValue = instance.Execute
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Function Execute As <strong>IEnumerable</strong>(Of TElement)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public <strong>IEnumerable</strong>&lt;TElement&gt; Execute ()</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: <strong>IEnumerable</strong>&lt;TElement&gt;^ Execute ()</td>
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</table>

<table>
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<tr>
<th>JScript</th>
</tr>
</thead>
</table>

### Return Value

Type: System.Collections.Generic.IEnumerable

The query result.
Example
The following code example creates and executes a query against a table.

public static void ExecuteQuery(CloudStorageAccount storageAc
{
// Create the service context.
TableServiceContext context = new TableServiceContext(sto
storageAccount.Credentials);

// Execute the query and write out some data.
foreach (var entity in context.CreateQuery<ProductEntity>
{
Console.WriteLine("Product name: {0} Price: {1}", ent
}
Console.WriteLine();

// Execute the query with criteria that simulates a LIKE
foreach (var entity in context.CreateQuery<ProductEntity>
.Where(e => (e.ProductName.CompareTo("J") >= 0 && e.P
.AsTableServiceQuery<ProductEntity>().Execute())
{
Console.WriteLine("Product name: {0} Price: {1}", ent
}
}
// Define a class that represents an entity.
class ProductEntity : TableServiceEntity
{
public ProductEntity()
{
}
public string ProductName { get; set; }
public string Category { get; set; }


public double Price { get; set; }
public bool InStock { get; set; }
public DateTime DateAdded { get; set; }
public Int32 Quantity { get; set; }
Remarks

Calling the **Execute** method retrieves results lazily from the service.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference

CloudTableQuery Class
CloudTableQuery Members
Microsoft.WindowsAzure.StorageClient Namespace
Executes the query with the retry policy specified on the `CloudTableQuery` object, and with a continuation token from the previous listing operation.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As CloudTableQuery(Of TElement)
Dim continuationToken As ResultContinuation
Dim returnValue As IEnumerable(Of TElement)

returnValue = instance.Execute(continuationToken)
```
## Syntax

### Visual Basic

```vbnet
Public Function Execute ( _
    continuationToken As ResultContinuation _
) As IEnumerable(Of TElement)
```

### C#

```csharp
public IEnumerable<TElement> Execute ( ResultContinuation continuationToken )
```

### C++

```cpp
public:
IEnumerable<TElement>^ Execute ( ResultContinuation^ continuationToken )
```

### J#

```jsharp```

### JScript

```jscript```

## Parameters

- `continuationToken`  
  Type: [Microsoft.WindowsAzure.StorageClient.ResultContinuation](#)  
  A continuation token returned by a previous listing operation.

## Return Value

Type: `System.Collections.Generic.IEnumerable`
The query result.
Remarks

Calling the **Execute** method retrieves results lazily from the service.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.
  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudTableQuery Class
CloudTableQuery Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableQuery.Expand Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Expands the specified path.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

**Visual Basic**

```vbnet
Dim instance As CloudTableQuery(Of TElement)
Dim path As String
Dim returnValue As CloudTableQuery(Of TElement)

returnValue = instance.Expand(path)
```
### Syntax

#### Visual Basic

Public Function Expand ( _
    path As String _
) As CloudTableQuery(Of TElement)

#### C#

```csharp
public CloudTableQuery<TElement> Expand ( string path
```

#### C++

```cpp
public:
CloudTableQuery<TElement>^ Expand ( String^ path
```

#### J#

#### JScript

#### Parameters

**path**  
Type: System.String  
The path to expand.

#### Return Value

Type: Microsoft.WindowsAzure.StorageClient.CloudTableQuery
A new query with the expanded path.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudTableQuery Class
CloudTableQuery Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableQuery.GetEnumerator Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns an enumerator that iterates through the collection.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
<th>Visual Basic</th>
</tr>
</thead>
</table>
|        | Dim instance As `CloudTableQuery(Of TElement)`
|        | Dim returnValue As `IEnumerator(Of TElement)`
|        | returnValue = instance.GetEnumerator |
## Syntax

### Visual Basic

Public Function GetEnumerator As IEnumerator(Of TElement)

### C#

public IEnumerator&lt;TElement&gt; GetEnumerator ()

### C++

public: 
virtual IEnumerator&lt;TElement&gt;^ GetEnumerator () sealed

### J#


### JScript


## Return Value

Type: System.Collections.Generic.IEnumerator

A **IEnumerator** that can be used to iterate through the collection.
- **Thread Safety**

  Any public static (*Shared* in Visual Basic) members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudTableQuery Class
CloudTableQuery Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableQuery.GetEnumerator Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns an enumerator that can be used to iterate through a collection.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudTableQuery(Of TElement)
Dim returnValue As IEnumerable

returnValue = CType(instance, IEnumerable).GetEnumerator
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Private Function System.Collections.IEnumerable.GetEnumerator()</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>IEnumerator IEnumerable.GetEnumerator()</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>private: virtual IEnumerator^ System.Collections.IEnumerable.GetEnumerator()</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>

### Return Value

Type: System.Collections.IEnumerable

An **IEnumerator** that can be used to iterate through a collection.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudTableQuery Class
CloudTableQuery Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableQuery.ToString Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a **String** that represents this instance.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

Dim instance As `CloudTableQuery(Of TElement)`
Dim returnValue As `String`

returnValue = instance.ToString
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Overrides Function ToString As String</code></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td><code>public override string ToString ()</code></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><code>public: virtual String^ ToString () override</code></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>

## Return Value

Type: `System.String`

A `String` that represents this instance.
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudTableQuery Class
CloudTableQuery Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableQuery Properties

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ElementType</strong></td>
<td>Gets the type of the element(s) that are returned when the expression tree associated with this instance of <strong>IQueryable</strong> is executed.</td>
</tr>
<tr>
<td><strong>Expression</strong></td>
<td>Gets the expression tree that is associated with the instance of <strong>IQueryable</strong>.</td>
</tr>
<tr>
<td><strong>Provider</strong></td>
<td>Gets the query provider that is associated with this data source.</td>
</tr>
<tr>
<td><strong>RetryPolicy</strong></td>
<td>Gets or sets the retry policy for the query.</td>
</tr>
</tbody>
</table>
See Also

Reference
CloudTableQuery Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the type of the element(s) that are returned when the expression tree associated with this instance of `IQueryable` is executed.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudTableQuery(Of TElement)
Dim value As Type

value = instance.ElementType
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td>Public Readonly Property ElementType As Type</td>
</tr>
<tr>
<td>C#</td>
<td>public Type ElementType { get; }</td>
</tr>
<tr>
<td>C++</td>
<td>public: virtual property Type^ ElementType { Type^ get () sealed; }</td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

Type: System.Type

A Type that represents the type of the element(s) that are returned when the expression tree associated with this object is executed.
Thread Safety

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudTableQuery Class
CloudTableQuery Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableQuery.Expression Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the expression tree that is associated with the instance of IQueryabe.

Namespace: Microsoft.WindowsAzure.StorageClient
## Usage

### Visual Basic

```vbnet
Dim instance As CloudTableQuery(Of TElement)
Dim value As Expression

value = instance.Expression
```
# Syntax

## Visual Basic

Public ReadOnly Property Expression As Expression

## C#

public Expression Expression { get; }

## C++

public:
virtual property Expression^ Expression { 
Expression^ get () sealed;
}

## J#

JScript

## Property Value

Type: [System.Linq.Expressions.Expression](https://docs.microsoft.com/en-us/dotnet/api/system.linq.expression)

The `Expression` that is associated with this instance of `IQueryable`. 
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

CloudTableQuery Class
CloudTableQuery Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableQuery.Provider Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the query provider that is associated with this data source.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CloudTableQuery(Of TElement)
Dim value As IQueryProvider

value = instance.Provider
**Syntax**

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public ReadOnly Property Provider As IQueryProvider</td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public IQueryProvider Provider { get; }</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public: virtual property IQueryProvider^ Provider { IQueryProvider^ get () sealed; }</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Property Value**

Type: [System.Linq.IQueryProvider](https://docs.microsoft.com/en-us/dotnet/api/system.linq.iqueryprovider)

The **IQueryProvider** that is associated with this data source.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudTableQuery Class
CloudTableQuery Members
Microsoft.WindowsAzure.StorageClient Namespace
CloudTableQuery.RetryPolicy Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the retry policy for the query.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim instance As CloudTableQuery(Of TElement)
Dim value As RetryPolicy

value = instance.RetryPolicy

instance.RetryPolicy = value
```
## Syntax

### Visual Basic

```vbnet
Public Property RetryPolicy As RetryPolicy
```

### C#

```csharp
public RetryPolicy RetryPolicy { get; set; }
```

### C++

```cpp
public:
property RetryPolicy^ RetryPolicy {
    RetryPolicy^ get ();
    void set (RetryPolicy^ value);
}
```

### J#

```jsharp```

### JScript

```jscript```

## Property Value


The retry policy.
Remarks

To set the retry policy for a query, set the `RetryPolicy` property to a delegate of type `RetryPolicy`. The retry policy delegate may be one of the policies returned by the methods provided by the `RetryPolicies` class, or it may be a custom retry policy delegate that you define.
- **Thread Safety**

  Any public static (*Shared* in Visual Basic) members of this type are thread safe.
  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CloudTableQuery Class
CloudTableQuery Members
Microsoft.WindowsAzure.StorageClient Namespace
ContainerListingDetails Enumeration

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Specifies which details to include when listing the containers in this storage account.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim instance As <em>ContainerListingDetails</em></td>
</tr>
</tbody>
</table>
## Syntax

<table>
<thead>
<tr>
<th></th>
<th>Visual Basic</th>
<th>C#</th>
<th>C++</th>
<th>J#</th>
<th>JScript</th>
</tr>
</thead>
</table>
|               | `<FlagsAttribute> _
Public Enumeration ContainerListingDetails` | `[FlagsAttribute]
public enum ContainerListingDetails` | `[FlagsAttribute]
public enum class ContainerListingDetails` |                                         |                                         |
|               |                                                   |                                         |                                         |                                         |                                         |
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>Include all available details.</td>
</tr>
<tr>
<td>Metadata</td>
<td>Retrieve container metadata.</td>
</tr>
<tr>
<td>None</td>
<td>No additional details.</td>
</tr>
</tbody>
</table>
Remarks

These enumeration values can be combined using the OR operator (vertical bar in C#) to designate multiple fields in method parameters that expect this enumeration type.
Platforms

Development Platforms
See Also

Reference
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The set of options describing delete operation.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As DeleteSnapshotsOption
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Enumeration DeleteSnapshotsOption</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public enum DeleteSnapshotsOption</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public enum class DeleteSnapshotsOption</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>
### Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DeleteSnapshotsOnly</td>
<td>Delete the blob's snapshots only.</td>
</tr>
<tr>
<td>IncludeSnapshots</td>
<td>Delete the blob and its snapshots.</td>
</tr>
<tr>
<td>None</td>
<td>Delete blobs but not snapshots.</td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.CloudDrive (in Microsoft.WindowsAzure.CloudDrive.dll)
## Usage

**Visual Basic**

```vba
Dim instance As DriveMountOptions
```
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
</tbody>
</table>
| `<FlagsAttribute>` _
Public Enumeration DriveMountOptions |
| **C#**          |                |
| `[FlagsAttribute]`
public enum DriveMountOptions |
| **C++**         |                |
| `[FlagsAttribute]`
public enum class DriveMountOptions |
| **J#**          |                |
| **JScript**     |                |
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FixFileSystemErrors</td>
<td></td>
</tr>
<tr>
<td>Force</td>
<td></td>
</tr>
<tr>
<td>None</td>
<td></td>
</tr>
<tr>
<td>UseSharedAccessCredentials</td>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference
Microsoft.WindowsAzure.StorageClient Namespace
Represents an item that may be returned by a blob listing operation.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As IListBlobItem
```
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Interface IListBlobItem</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public interface IListBlobItem</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public interface class IListBlobItem</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>
Remarks

A hierarchical blob listing operation may return one of two types of objects: a `CloudBlob` object, or a `CloudBlobDirectory` object. These objects both represent blobs, but the `CloudBlobDirectory` object is useful for navigating a virtual hierarchy of blobs.

A flat blob listing returns only objects of type `CloudBlob`.
Platforms

Development Platforms
See Also

Reference
ILBlobItem Members
Microsoft.WindowsAzure.StorageClient Namespace
IListBlobItem Members

See Also  Properties

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents an item that may be returned by a blob listing operation.

The following tables list the members exposed by the IListBlobItem type.
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Container</td>
<td>Gets the blob item's container.</td>
</tr>
<tr>
<td>Parent</td>
<td>Gets the blob item's parent.</td>
</tr>
<tr>
<td>Uri</td>
<td>Gets the URI to the blob item.</td>
</tr>
</tbody>
</table>

Top
See Also

Reference

IListBlobItem Interface
Microsoft.WindowsAzure.StorageClient Namespace
IListBlobItem Properties

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Container</td>
<td>Gets the blob item's container.</td>
</tr>
<tr>
<td>Parent</td>
<td>Gets the blob item's parent.</td>
</tr>
<tr>
<td>Uri</td>
<td>Gets the URI to the blob item.</td>
</tr>
</tbody>
</table>
See Also

Reference
ILListBlobItem Interface
Microsoft.WindowsAzure.StorageClient Namespace
IListBlobItem.Container Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the blob item's container.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

### Visual Basic

```vbnet
Dim instance As IListBlobItem
Dim value As CloudBlobContainer

value = instance.Container
```
## Syntax

### Visual Basic

Readonly Property Container As CloudBlobContainer

### C#

CloudBlobContainer Container { get; }

### C++

property CloudBlobContainer^ Container {  
CloudBlobContainer^ get ();  
}

### J#


### JScript


## Property Value


The blob item's container.
Thread Safety

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
IListBlobItem Interface
IListBlobItem Members
Microsoft.WindowsAzure.StorageClient Namespace
**ILBlobItem.Parent Property**

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the blob item's parent.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

| Dim instance As IListBlobItem  
| Dim value As CloudBlobDirectory  
| value = instance.Parent }
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>ReadOnly Property Parent As CloudBlobDirectory</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>CloudBlobDirectory Parent { get; }</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>property CloudBlobDirectory^ Parent { CloudBlobDirectory^ get (); }</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>

### Property Value


The blob item's parent.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
See Also

Reference
ILBlobItem Interface
ILBlobItem Members
Microsoft.WindowsAzure.StorageClient Namespace
ILBlobItem.Uri Property

SeeAlso

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been depreciated. See Storage Client Library for the latest version.]

Gets the URI to the blob item.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

**Visual Basic**

```vbnet
Dim instance As IListBlobItem
Dim value As Uri

value = instance.Uri
```
**Syntax**

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>ReadOnly Property Uri As Uri</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>Uri Uri { get; }</code></td>
</tr>
</tbody>
</table>
| C++ | `property Uri^ Uri { 
    Uri^ get (); 
} ` |
| J# |  |
| JScript |  |

**Property Value**

Type: `System.Uri`

The blob item's URI.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ILBlobItem Interface
ILBlobItem Members
Microsoft.WindowsAzure.StorageClient Namespace
LeaseStatus Enumeration

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The lease status of the blob.

Namespace: Microsoft.WindowsAzure.StorageClient
<table>
<thead>
<tr>
<th>Usage</th>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dim instance As LeaseStatus</td>
</tr>
</tbody>
</table>
### Syntax

<table>
<thead>
<tr>
<th>Syntax</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Enumeration LeaseStatus</code></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td><code>public enum LeaseStatus</code></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><code>public enum class LeaseStatus</code></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Locked</td>
<td>The blob is locked for exclusive-write access.</td>
</tr>
<tr>
<td>Unlocked</td>
<td>The blob is available to be locked for exclusive write access.</td>
</tr>
<tr>
<td>Unspecified</td>
<td>The lease status is not specified.</td>
</tr>
</tbody>
</table>
Remarks

You can check the lease status of a blob to determine whether it currently has an active lease and so is locked for exclusive write access, or whether it is available for write access. To manage a blob's lease, use the Lease method of the BlobRequest class.
Platforms

Development Platforms
See Also

Reference
Microsoft.WindowsAzure.StorageClient Namespace
Represented a block retrieved from the blob's block list.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim instance As ListBlockItem</td>
</tr>
<tr>
<td>Syntax</td>
</tr>
<tr>
<td>-----------------</td>
</tr>
<tr>
<td>Public Class</td>
</tr>
<tr>
<td>C#</td>
</tr>
<tr>
<td>C++</td>
</tr>
<tr>
<td>J#</td>
</tr>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>
- **Inheritance Hierarchy**

  System.Object
  
  Microsoft.WindowsAzure.StorageClient.ListBlockItem
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ListBlockItem Members
Microsoft.WindowsAzure.StorageClient Namespace
ListBlockItem Members

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a block retrieved from the blob's block list.

The following tables list the members exposed by the ListBlockItem type.
## Public Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>ListBlockItem</td>
<td></td>
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</tbody>
</table>

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## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>☰ Committed</td>
<td>Gets a value indicating whether or not the block has been committed.</td>
</tr>
<tr>
<td>☰ Name</td>
<td>Gets the name of the block.</td>
</tr>
<tr>
<td>☰ Size</td>
<td>Gets the size of block in bytes.</td>
</tr>
</tbody>
</table>

[Top]
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>

[Top](#)
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="https://example.com" alt="Protected" /> <strong>Finalize</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td><img src="https://example.com" alt="Protected" /> <strong>MemberwiseClone</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
See Also

Reference

ListBlockItem Class
Microsoft.WindowsAzure.StorageClient Namespace
ListBlockItem Constructor

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the ListBlockItem Class.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim instance As New ListBlockItem</td>
</tr>
</tbody>
</table>
## Syntax

### Visual Basic

```visual-basic
Public Sub New
```

### C#

```csharp
public ListBlockItem()
```

### C++

```cpp
public:
ListBlockItem()
```

### J#

```

### JScript
Remarks

The default constructor initializes any fields to their default values.
Platforms

Development Platforms
See Also

Reference
ListBlockItem Class
ListBlockItem Members
Microsoft.WindowsAzure.StorageClient Namespace
<table>
<thead>
<tr>
<th>ListBlockItem Methods</th>
</tr>
</thead>
</table>

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
See Also

Reference
ListBlockItem Class
Microsoft.WindowsAzure.StorageClient Namespace
ListBlockItem Properties

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✡️ Committed</td>
<td>Gets a value indicating whether or not the block has been committed.</td>
</tr>
<tr>
<td>✡️ Name</td>
<td>Gets the name of the block.</td>
</tr>
<tr>
<td>✡️ Size</td>
<td>Gets the size of block in bytes.</td>
</tr>
</tbody>
</table>
See Also

Reference

ListBlockItem Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a value indicating whether or not the block has been committed.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```basic
Dim instance As ListBlockItem
Dim value As Boolean

value = instance.Committed
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property Committed As Boolean</code></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td><code>public bool Committed { get; }</code></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><code>public: property bool Committed { bool get (); }</code></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

Type: `System.Boolean`

**True** if the block has been committed; otherwise, **false**.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ListBlockItem Class
ListBlockItem Members
Microsoft.WindowsAzure.StorageClient Namespace
ListBlockItem.Name Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the name of the block.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>

| Dim instance As ListBlockItem  
| Dim value As String |

value = instance.Name
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Property Name As String</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public string Name { get; }</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: property String^ Name { String^ get (); }</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>

## Property Value

Type: [System.String](https://docs.microsoft.com/en-us/dotnet/api/system.string)

The block name.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

ListBlockItem Class
ListBlockItem Members
Microsoft.WindowsAzure.StorageClient Namespace
ListBlockItem.Size Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the size of block in bytes.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As ListBlockItem
Dim value As Long

value = instance.Size
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Property Size As <strong>Long</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public <strong>long</strong> Size { get; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: property <strong>long long</strong> Size {</td>
</tr>
<tr>
<td><strong>long long</strong> get ();</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>

### Property Value

**Type:** [System.Int64](https://docs.microsoft.com/en-us/dotnet/api/system.int64)

The block size.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ListBlockItem Class
ListBlockItem Members
Microsoft.WindowsAzure.StorageClient Namespace
**MessageUpdateFields Enumeration**

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Specifies the settings to update in a queue message.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As MessageUpdateFields
## Syntax

### Visual Basic

```vbnet
<FlagsAttribute> _
Public Enumeration MessageUpdateFields
```

### C#

```csharp
[FlagsAttribute]
public enum MessageUpdateFields
```

### C++

```cpp
[FlagsAttribute]
public enum class MessageUpdateFields
```

### J#

```
```

### JScript

```
```
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Content</td>
<td>Updates the message contents.</td>
</tr>
<tr>
<td>Visibility</td>
<td>Updates the message visibility timeout.</td>
</tr>
</tbody>
</table>
Remarks

These enumeration values can be combined using the OR operator (vertical bar in C#) to designate multiple fields in method parameters that expect this enumeration type.
Platforms

Development Platforms
See Also

Reference
Microsoft.WindowsAzure.StorageClient Namespace
PageRange Class

See Also  Members

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

 Represents a range of pages in a page blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

Dim instance As **PageRange**
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Class PageRange</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public class PageRange</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public ref class PageRange</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
Thread Safety

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

PageRange Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a range of pages in a page blob.

The following tables list the members exposed by the PageRange type.
## Public Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PageRange</td>
<td></td>
</tr>
</tbody>
</table>

[Top](#)
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>EndOffset</code></td>
<td>Gets the ending offset of the page range.</td>
</tr>
<tr>
<td><code>StartOffset</code></td>
<td>Gets the starting offset of the page range.</td>
</tr>
</tbody>
</table>

Top
### Public Methods (see also **Protected Methods**)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Overridden. Returns the content of the page range as a string.</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>

[Top](#)
See Also

Reference
PageRange Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the PageRange Class.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim start As Long
Dim end As Long

Dim instance As New PageRange(start, end)
```
### Syntax

**Visual Basic**

```
Public Sub New ( _
    start As Long, _
    end As Long _
)
```

**C#**

```
public PageRange (  
    long start,  
    long end
)
```

**C++**

```
public:
    PageRange (  
    long long start,  
    long long end
)
```

**J#**

```
```

**JScript**

```
```
Remarks

The default constructor initializes any fields to their default values.
Platforms

Development Platforms
See Also

Reference
PageRange Class
PageRange Members
Microsoft.WindowsAzure.StorageClient Namespace
PageRange Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Overridden. Returns the content of the page range as a string.</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
See Also

Reference

PageRange Class
Microsoft.WindowsAzure.StorageClient Namespace
PageRange.ToString Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns the content of the page range as a string.

**Namespace:** Microsoft.WindowsAzure.StorageClient
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As PageRange
Dim returnValue As String

returnValue = instance.ToString
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td>Public Overrides Function ToString As <strong>String</strong></td>
</tr>
<tr>
<td>C#</td>
<td>public override <strong>string</strong> ToString ()</td>
</tr>
<tr>
<td>C++</td>
<td>public: virtual <strong>String</strong>^ ToString () override</td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>

**Return Value**

Type: **System.String**

The content of the page range.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
PageRange Class
PageRange Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EndOffset</td>
<td>Gets the ending offset of the page range.</td>
</tr>
<tr>
<td>StartOffset</td>
<td>Gets the starting offset of the page range.</td>
</tr>
</tbody>
</table>
See Also

Reference
PageRange Class
Microsoft.WindowsAzure.StorageClient Namespace
PageRange.EndOffset Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the ending offset of the page range.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim instance As PageRange
Dim value As Long

value = instance.EndOffset
```
## Syntax

### Visual Basic

Public Property EndOffset As Long

### C#

```csharp
public long EndOffset { get; }
```

### C++

```cpp
public:
property long long EndOffset {
    long long get ();
}
```

### J#

### JScript

## Property Value

Type: System.Int64

The ending offset.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

PageRange Class
PageRange Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the starting offset of the page range.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>

Dim instance As *PageRange*
Dim value As *Long*

value = instance.StartOffset
### Syntax

#### Visual Basic

```
Public Property StartOffset As Long
```

#### C#

```
public long StartOffset { get; }
```

#### C++

```
public:
property long long StartOffset {
    long long get ();
}
```

#### J#

```
```

#### JScript

```
```

### Property Value

Type: System.Int64

The starting offset.
Thread Safety

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
PageRange Class
PageRange Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a queue's attributes.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbad
Dim instance As QueueAttributes
```
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public Class QueueAttributes</td>
<td></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public class QueueAttributes</td>
<td></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td></td>
</tr>
<tr>
<td>public ref class QueueAttributes</td>
<td></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
Microsoft.WindowsAzure.StorageClient.QueueAttributes
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

QueueAttributes Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a queue's attributes.

The following tables list the members exposed by the `QueueAttributes` type.
## Public Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>QueueAttributes</td>
<td>Overloaded.</td>
</tr>
</tbody>
</table>

Top
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metadata</td>
<td>Gets the queue's user-defined metadata.</td>
</tr>
<tr>
<td>Uri</td>
<td>Gets the URI for the queue.</td>
</tr>
</tbody>
</table>

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## Public Methods (see also Protected Methods)

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<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
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<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>

[Top]
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Finalize</code></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td><code>MemberwiseClone</code></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>

[Top]
See Also

Reference
QueueAttributes Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
**Overload List**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
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<tbody>
<tr>
<td><code>QueueAttributes ()</code></td>
<td>Initializes a new instance of the <code>QueueAttributes</code> class.</td>
</tr>
<tr>
<td><code>QueueAttributes (QueueAttributes)</code></td>
<td>Initializes a new instance of the <code>QueueAttributes</code> Class as a copy of an existing <code>QueueAttributes</code> object.</td>
</tr>
</tbody>
</table>
See Also

Reference
QueueAttributes Class
QueueAttributes Members
Microsoft.WindowsAzure.StorageClient Namespace
QueueAttributes Constructor ()

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the QueueAttributes class.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As New QueueAttributes
```
## Syntax

### Visual Basic

```vbnet
Public Sub New
```

### C#

```csharp
public QueueAttributes ()
```

### C++

```cpp
public:
QueueAttributes ()
```

### J#

```java
```

### JScript

```javascript
```
Remarks

The default constructor initializes any fields to their default values.
Platforms

Development Platforms
See Also

Reference
QueueAttributes Class
QueueAttributes Members
Microsoft.WindowsAzure.StorageClient Namespace
QueueAttributes Constructor (QueueAttributes)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the QueueAttributes Class as a copy of an existing QueueAttributes object.

Namespace: Microsoft.WindowsAzure.StorageClient
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim other As <strong>QueueAttributes</strong></td>
</tr>
<tr>
<td>Dim instance As New <strong>QueueAttributes</strong>(other)</td>
</tr>
</tbody>
</table>
## Syntax

### Visual Basic

```vbnet
Public Sub New ( _
    other As QueueAttributes _
)
```

### C#

```csharp
public QueueAttributes ( 
    QueueAttributes other
)
```

### C++

```cpp
public:
QueueAttributes ( 
    QueueAttributes^ other
)
```

### J#

```java
```

### JScript

```
```

### Parameters

**other**

Type: [Microsoft.WindowsAzure.StorageClient.QueueAttributes](#)

The attributes to clone.
Platforms

Development Platforms
See Also

Reference
QueueAttributes Class
QueueAttributes Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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## Protected Methods

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</table>
See Also

Reference

QueueAttributes Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metadata</td>
<td>Gets the queue's user-defined metadata.</td>
</tr>
<tr>
<td>Uri</td>
<td>Gets the URI for the queue.</td>
</tr>
</tbody>
</table>
See Also

Reference
QueueAttributes Class
Microsoft.WindowsAzure.StorageClient Namespace
QueueAttributes.Metadata Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the queue's user-defined metadata.

Namespace: Microsoft.WindowsAzure.StorageClient
## Usage

**Visual Basic**

```vbnet
Dim instance As QueueAttributes
Dim value As NameValueCollection

value = instance.Metadata
```
## Syntax

### Visual Basic

Public Property Metadata As NameValueCollection

### C#

```csharp
public NameValueCollection Metadata { get; }
```

### C++

```cpp
public:
    property NameValueCollection^ Metadata
        { NameValueCollection^ get();
    }
```

### J#

```jsharp
```

### JScript

```javascript
```

### Property Value

Type: [System.Collections.Specialized.NameValueCollection](https://docs.microsoft.com/en-us/dotnet/api/system.collections.specialized.namevaluecollection)

The queue's user-defined metadata.
Thread Safety

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueAttributes Class
QueueAttributes Members
Microsoft.WindowsAzure.StorageClient Namespace
QueueAttributes.Uri Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the URI for the queue.

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

Visual Basic

Dim instance As QueueAttributes
Dim value As Uri

value = instance.Uri
## Syntax

### Visual Basic

```vbnet
Public Property Uri As Uri
```

### C#

```csharp
public Uri Uri { get; }
```

### C++

```cpp
public:
property Uri^ Uri {
    Uri^ get ();
}
```

### J#

```jsharp```

### JScript

```jscript```

## Property Value

Type: System.Uri

The queue's URI.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueAttributes Class
QueueAttributes Members
Microsoft.WindowsAzure.StorageClient Namespace
QueueErrorCodeStrings Class

Provides error code strings that are specific to the Queue service.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

<table>
<thead>
<tr>
<th>Visual Basic</th>
<th></th>
<th></th>
</tr>
</thead>
</table>
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public NotInheritable Class QueueErrorCodeStrings</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public static class QueueErrorCodeStrings</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public ref class QueueErrorCodeStrings abstract sealed</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
QueueErrorCodeStrings Members

<table>
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<th>See Also</th>
<th>Fields</th>
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</table>

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Provides error code strings that are specific to the Queue service.

The following tables list the members exposed by the QueueErrorCodeStrings type.
## Public Fields

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidMarker</td>
<td>Error code that may be returned when the specified marker is invalid.</td>
</tr>
<tr>
<td>InvalidParameter</td>
<td>Error code that may be returned when one or more request parameters are invalid.</td>
</tr>
<tr>
<td>MessageNotFound</td>
<td>Error code that may be returned when the specified message was not found.</td>
</tr>
<tr>
<td>MessageTooLarge</td>
<td>Error code that may be returned when the specified message is too large.</td>
</tr>
<tr>
<td>PopReceiptMismatch</td>
<td>Error code that may be returned when the specified pop receipt does not match.</td>
</tr>
<tr>
<td>QueueAlreadyExists</td>
<td>Error code that may be returned when the specified queue already exists.</td>
</tr>
<tr>
<td>QueueBeingDeleted</td>
<td>Error code that may be returned when the specified queue is being deleted.</td>
</tr>
<tr>
<td>QueueDisabled</td>
<td>Error code that may be returned when the specified queue is disabled.</td>
</tr>
<tr>
<td>QueueNotEmpty</td>
<td>Error code that may be returned when the specified queue is not empty.</td>
</tr>
<tr>
<td>QueueNotFound</td>
<td>Error code that may be returned when the specified queue was not found.</td>
</tr>
</tbody>
</table>
See Also

Reference
QueueErrorCodeStrings Class
Microsoft.WindowsAzure.StorageClient Namespace
QueueErrorCodeStrings Fields

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Fields

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>InvalidMarker</td>
<td>Error code that may be returned when the specified marker is invalid.</td>
</tr>
<tr>
<td>InvalidParameter</td>
<td>Error code that may be returned when one or more request parameters are invalid.</td>
</tr>
<tr>
<td>MessageNotFound</td>
<td>Error code that may be returned when the specified message was not found.</td>
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<td>QueueAlreadyExists</td>
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<td>Error code that may be returned when the specified queue is disabled.</td>
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<td>QueueNotEmpty</td>
<td>Error code that may be returned when the specified queue is not empty.</td>
</tr>
<tr>
<td>QueueNotFound</td>
<td>Error code that may be returned when the specified queue was not found.</td>
</tr>
</tbody>
</table>
See Also

Reference
QueueErrorCodeStrings Class
Microsoft.WindowsAzure.StorageClient Namespace
QueueErrorCodeStrings.InvalidMarker Field

Error code that may be returned when the specified marker is invalid.

Namespace: Microsoft.WindowsAzure.StorageClient

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>
| Dim value As *String*

value = QueueErrorCodeStrings.InvalidMarker
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public Const InvalidMarker As <em>String</em></td>
<td></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public const <em>string</em> InvalidMarker</td>
<td></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td></td>
</tr>
<tr>
<td>public: literal <em>String</em>^ InvalidMarker</td>
<td></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
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</table>
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See Also

Reference
QueueErrorCodeStrings Class
QueueErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
Error code that may be returned when one or more request parameters are invalid.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim value As String
value = QueueErrorCodeStrings.InvalidParameter
```
### Syntax

**Visual Basic**

Public Const InvalidParameter As String

**C#**

public const string InvalidParameter

**C++**

public:

literal String^ InvalidParameter

**J#**

**JScript**
Platforms

Development Platforms
See Also

Reference
QueueErrorCodeStrings Class
QueueErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
QueueErrorCodeStrings.MessageNotFound Field

See Also

- [This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Error code that may be returned when the specified message was not found.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim value As String

value = QueueErrorCodeStrings.MessageNotFound
```
## Syntax

### Visual Basic

```
Public Const MessageNotFound As String
```

### C#

```
public const string MessageNotFound
```

### C++

```
public:
    literal String^ MessageNotFound
```

### J#

```java
JScript
```
Platforms

Development Platforms
See Also

Reference
QueueErrorCodeStrings Class
QueueErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
Error code that may be returned when the specified message is too large.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim value As <strong>String</strong></td>
</tr>
<tr>
<td>value = <strong>QueueErrorCodeStrings</strong>.MessageTooLarge</td>
</tr>
<tr>
<td>Syntax</td>
</tr>
<tr>
<td>----------</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Public Const MessageBox As <strong>String</strong></td>
</tr>
<tr>
<td><strong>C#</strong></td>
</tr>
<tr>
<td>public const <em>string</em> MessageBox</td>
</tr>
<tr>
<td><strong>C++</strong></td>
</tr>
<tr>
<td>public: literal <em>String</em> MessageBox</td>
</tr>
<tr>
<td><strong>J#</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
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</tbody>
</table>
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Development Platforms
See Also

Reference
QueueErrorCodeStrings Class
QueueErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
QueueErrorCodeStrings.PopReceiptMismatch Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Error code that may be returned when the specified pop receipt does not match.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim value As String

value = QueueErrorCodeStrings.PopReceiptMismatch
## Syntax

### Visual Basic

```vbnet
Public Const PopReceiptMismatch As String
```

### C#

```cs
public const string PopReceiptMismatch
```

### C++

```cpp
public:
    literal String^ PopReceiptMismatch
```

### J#

### JScript
Platforms

Development Platforms
See Also

Reference
QueueErrorCodeStrings Class
QueueErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
QueueErrorCodeStrings.QueueAlreadyExists Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Error code that may be returned when the specified queue already exists.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim value As String
value = QueueErrorCodeStrings.QueueAlreadyExists
```
## Syntax

<table>
<thead>
<tr>
<th><strong>Visual Basic</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Const QueueAlreadyExists As <strong>String</strong></td>
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<table>
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<tr>
<th><strong>C#</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>public const <strong>string</strong> QueueAlreadyExists</td>
</tr>
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<td>public: literal <strong>String</strong> QueueAlreadyExists</td>
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Platforms

Development Platforms
See Also

Reference
QueueErrorCodeStrings Class
QueueErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
QueueErrorCodeStrings.QueueBeingDeleted Field

See Also

This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.

Error code that may be returned when the specified queue is being deleted.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

Visual Basic

```vbnet
Dim value As String
value = QueueErrorCodeStrings.QueueBeingDeleted
```
<table>
<thead>
<tr>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Public Const QueueBeingDeleted As <strong>String</strong></td>
</tr>
<tr>
<td><strong>C#</strong></td>
</tr>
<tr>
<td>public const <strong>string</strong> QueueBeingDeleted</td>
</tr>
<tr>
<td><strong>C++</strong></td>
</tr>
<tr>
<td>public: literal <strong>String</strong> QueueBeingDeleted</td>
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<td><strong>J#</strong></td>
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<td><strong>JScript</strong></td>
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</table>
Platforms

Development Platforms
See Also

Reference
QueueErrorCodeStrings Class
QueueErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
QueueErrorCodeStrings.QueueDisabled Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Error code that may be returned when the specified queue is disabled.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim value As **String**

value = **QueueErrorCodeStrings**.QueueDisabled
## Syntax

**Visual Basic**

Public Const QueueDisabled As **String**

**C#**

public const **string** QueueDisabled

**C++**

public:
literal **String**^ QueueDisabled

**J#**

**JScript**
Platforms

Development Platforms
See Also

Reference

QueueErrorCodeStrings Class
QueueErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
QueueErrorCodeStrings.QueueNotEmpty Field

See Also

This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.

Error code that may be returned when the specified queue is not empty.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

**Visual Basic**

```vbnet
Dim value As String
value = QueueErrorCodeStrings.QueueNotEmpty
```
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Const QueueNotEmpty As String</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public const string QueueNotEmpty</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: literal String^ QueueNotEmpty</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
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<tbody>
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Platforms

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See Also

Reference

QueueErrorCodeStrings Class
QueueErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
QueueErrorCodeStrings.QueueNotFound Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Error code that may be returned when the specified queue was not found.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim value As String
value = QueueErrorCodeStrings.QueueNotFound
```
<table>
<thead>
<tr>
<th><strong>Language</strong></th>
<th><strong>Syntax</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Const QueueNotFound As String</code></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td><code>public const string QueueNotFound</code></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><code>public: literal String^ QueueNotFound</code></td>
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QueueErrorCodeStrings Class
QueueErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
QueueListingDetails Enumeration

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Specifies which details to include when listing queues in this storage account.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>

```vbnet
Dim instance As QueueListingDetails
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>&lt;FlagsAttribute&gt; _ Public Enumeration QueueListingDetails</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>[FlagsAttribute] public enum QueueListingDetails</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>[FlagsAttribute] public enum class QueueListingDetails</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>Include all available details.</td>
</tr>
<tr>
<td>Metadata</td>
<td>Retrieve queue metadata.</td>
</tr>
<tr>
<td>None</td>
<td>No additional details.</td>
</tr>
</tbody>
</table>
Remarks

These enumeration values can be combined using the OR operator (vertical bar in C#) to designate multiple fields in method parameters that expect this enumeration type.
Platforms

Development Platforms
See Also

Reference

Microsoft.WindowsAzure.StorageClient Namespace
ResponseReceivedEventArgs Class

See Also  Members

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Provides the arguments for the ResponseReceived event.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

### Visual Basic

```
Dim instance As ResponseReceivedEventArgs
```
## Syntax

### Visual Basic

```vbnet
Public Class ResponseReceivedEventArgs
    Inherits EventArgs
```

### C#

```csharp
public class ResponseReceivedEventArgs : EventArgs
```

### C++

```cpp
public ref class ResponseReceivedEventArgs : public I
```

### J#

```jsharp
```

### JScript

```jscript
```
Inheritance Hierarchy

- System.Object
  - System.EventArgs
    - Microsoft.WindowsAzure.StorageClient.ResponseReceivedEventArgs
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ResponseReceivedEventArgs Members
Microsoft.WindowsAzure.StorageClient Namespace
Provides the arguments for the **ResponseReceived** event.

The following tables list the members exposed by the **ResponseReceivedEventArgs** type.
## Public Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ResponseReceivedEventArgs</td>
<td></td>
</tr>
</tbody>
</table>

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## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exception</td>
<td>Gets an exception returned by the service.</td>
</tr>
<tr>
<td>RequestHeaders</td>
<td>Gets the request headers.</td>
</tr>
<tr>
<td>RequestId</td>
<td>Gets the request ID.</td>
</tr>
<tr>
<td>RequestUri</td>
<td>Gets the request URI.</td>
</tr>
<tr>
<td>ResponseHeaders</td>
<td>Gets the response headers.</td>
</tr>
<tr>
<td>StatusCode</td>
<td>Gets the HTTP status code for the request.</td>
</tr>
<tr>
<td>StatusDescription</td>
<td>Gets the status description for the request.</td>
</tr>
</tbody>
</table>
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>

[Top]
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
See Also

Reference
ResponseReceivedEventArgs Class
Microsoft.WindowsAzure.StorageClient Namespace
ResponseReceivedEventArgs Constructor

Initializes a new instance of the ResponseReceivedEventArgs Class.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
**Usage**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim instance As New ResponseReceivedEventArgs</td>
</tr>
</tbody>
</table>
## Syntax

### Visual Basic

```vbnet
Public Sub New
```

### C#

```csharp
public ResponseReceivedEventArgs()
```

### C++

```cpp
public:
ResponseReceivedEventArgs()
```

### J#

```jsharp

```

### JScript

```javascript

```
Remarks

The default constructor initializes any fields to their default values.
Platforms

Development Platforms
See Also

Reference

ResponseReceivedEventArgs Class
ResponseReceivedEventArgs Members
Microsoft.WindowsAzure.StorageClient Namespace
ResponseReceivedEventArgs Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
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<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✽ Finalize</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>✽ MemberwiseClone</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
See Also

Reference
ResponseReceivedEventArgs Class
Microsoft.WindowsAzure.StorageClient Namespace
**ResponseReceivedEventArgs Properties**

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exception</td>
<td>Gets an exception returned by the service.</td>
</tr>
<tr>
<td>RequestHeaders</td>
<td>Gets the request headers.</td>
</tr>
<tr>
<td>RequestId</td>
<td>Gets the request ID.</td>
</tr>
<tr>
<td>RequestUri</td>
<td>Gets the request URI.</td>
</tr>
<tr>
<td>ResponseHeaders</td>
<td>Gets the response headers.</td>
</tr>
<tr>
<td>StatusCode</td>
<td>Gets the HTTP status code for the request.</td>
</tr>
<tr>
<td>StatusDescription</td>
<td>Gets the status description for the request.</td>
</tr>
</tbody>
</table>
See Also

Reference

ResponseReceivedEventArgs Class
Microsoft.WindowsAzure.StorageClient Namespace
ResponseReceivedEventArgs.Exception Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets an exception returned by the service.

Namespace: Microsoft.WindowsAzure.StorageClient
## Usage

### Visual Basic

```vbnet
Dim instance As ResponseReceivedEventArgs
Dim value As Exception

value = instance.Exception
```
# Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Public Property Exception As Exception</code></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>public Exception Exception { get; }</code></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| `public:
property Exception^ Exception { Exception^ get ();
}` |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Property</code></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Property Value</code></td>
</tr>
</tbody>
</table>

Type: **System.Exception**

The exception returned by the service.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ResponseReceivedEventArgs Class
ResponseReceivedEventArgs Members
Microsoft.WindowsAzure.StorageClient Namespace
ResponseReceivedEventArgs.RequestHeaders Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the request headers.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>
| Dim instance As ResponseReceivedEventArgs  
Dim value As NameValueCollection  

value = instance.RequestHeaders |
## Syntax

### Visual Basic

```
Public Property RequestHeaders As NameValueCollection
```

### C#

```
public NameValueCollection RequestHeaders { get; }
```

### C++

```cpp
public:
property NameValueCollection^ RequestHeaders { 
    NameValueCollection^ get ();
}
```

### J#

```
```

### JScript

```
```

## Property Value

Type: [System.Collections.Specialized.NameValueCollection](https://docs.microsoft.com/en-us/dotnet/api/system.collections.specialized.namevaluecollection)

The collection of request headers.
Remarks

Modifying the collection of request headers may result in unexpected behavior.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe.  
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ResponseReceivedEventArgs Class
ResponseReceivedEventArgs Members
Microsoft.WindowsAzure.StorageClient Namespace
ResponseReceivedEventArgs.RequestId Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the request ID.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim instance As ResponseReceivedEventArgs
Dim value As String

value = instance.RequestId
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td><code>Public Property RequestId As String</code></td>
</tr>
<tr>
<td><strong>C#</strong></td>
</tr>
<tr>
<td><code>public string RequestId { get; }</code></td>
</tr>
<tr>
<td><strong>C++</strong></td>
</tr>
<tr>
<td><code>public: property String^ RequestId { String^ get (); }</code></td>
</tr>
<tr>
<td><strong>J#</strong></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
</tr>
</tbody>
</table>

### Property Value

Type: [System.String](https://docs.microsoft.com/en-us/dotnet/api/system.string)

The request ID.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
See Also

Reference
ResponseReceivedEventArgs Class
ResponseReceivedEventArgs Members
Microsoft.WindowsAzure.StorageClient Namespace
**ResponseReceivedEventArgs.RequestUri Property**

**See Also**

This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.

Gets the request URI.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As ResponseReceivedEventArgs
Dim value As Uri

value = instance.RequestUri
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Property RequestUri As Uri</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public Uri RequestUri { get; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: property Uri^ RequestUri</td>
</tr>
<tr>
<td>{ Uri^ get (); }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Property Value</td>
</tr>
<tr>
<td>Type: System.Uri</td>
</tr>
</tbody>
</table>

The request URI.
- **Thread Safety**
  
  Any public static (*Shared* in Visual Basic) members of this type are thread safe.
  
  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

ResponseReceivedEventArgs Class
ResponseReceivedEventArgs Members
Microsoft.WindowsAzure.StorageClient Namespace
ResponseReceivedEventArgs.ResponseHeaders Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the response headers.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As ResponseReceivedEventArgs
Dim value As NameValueCollection

value = instance.ResponseHeaders
## Syntax

### Visual Basic

```vbnet
Public Property ResponseHeaders As NameValueCollection
```

### C#

```csharp
public NameValueCollection ResponseHeaders { get; }
```

### C++

```cpp
public:
property NameValueCollection^ ResponseHeaders {
    NameValueCollection^ get ();
}
```

### J#

```jsharp```

### JScript

```
```

## Property Value

**Type:** [System.Collections.Specialized.NameValueCollection](https://docs.microsoft.com/en-us/dotnet/api/system.collections.specialized.namevaluecollection)

The collection of response headers.
Remarks

Modifying the collection of response headers may result in unexpected behavior.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ResponseReceivedEventArgs Class
ResponseReceivedEventArgs Members
Microsoft.WindowsAzure.StorageClient Namespace
ResponseReceivedEventArgs.StatusCode Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the HTTP status code for the request.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim instance As ResponseReceivedEventArgs
Dim value As HttpStatusCode

value = instance.StatusCode
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Property StatusCode As HttpStatusCode</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public HttpStatusCode StatusCode { get; }</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: property HttpStatusCode StatusCode { HttpStatusCode get (); }</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>

**Property Value**

Type: [System.Net.HttpStatusCode](https://docs.microsoft.com/en-us/dotnet/api/system.net.httpstatuscode)

The HTTP status code for the request.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

**Development Platforms**
See Also

Reference

ResponseReceivedEventArgs Class
ResponseReceivedEventArgs Members
Microsoft.WindowsAzure.StorageClient Namespace
ResponseReceivedEventArgs.StatusDescription Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the status description for the request.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As ResponseReceivedEventArgs
Dim value As String

value = instance.StatusDescription
```
## Syntax

### Visual Basic

| Public Property StatusDescription As **String** |

### C#

```csharp
public **string** StatusDescription { get; }
```

### C++

```cpp
public:
property **String**^ StatusDescription {
    **String**^ get ();
}
```

### J#

### JScript

### Property Value

Type: **System.String**

The status description for the request.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

ResponseReceivedEventArgs Class
ResponseReceivedEventArgs Members
Microsoft.WindowsAzure.StorageClient Namespace
Manage continuation information for various listing operations. Can be serialized using XML serialization.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim instance As ResultContinuation</td>
</tr>
</tbody>
</table>
**Syntax**

<table>
<thead>
<tr>
<th><strong>Visual Basic</strong></th>
</tr>
</thead>
</table>
| `<SerializableAttribute> _
Public NotInheritable Class ResultContinuation
   Implements IXmlSerializable` |

<table>
<thead>
<tr>
<th><strong>C#</strong></th>
</tr>
</thead>
</table>
| `[SerializableAttribute]
public sealed class ResultContinuation : IXmlSerializable` |

<table>
<thead>
<tr>
<th><strong>C++</strong></th>
</tr>
</thead>
</table>
| `[SerializableAttribute]
public ref class ResultContinuation sealed : IXmlSerializable` |

<table>
<thead>
<tr>
<th><strong>J#</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
  Microsoft.WindowsAzure.StorageClient.ResultContinuation
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

ResultContinuation Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Manage continuation information for various listing operation. Can be serialized using XML serialization.

The following tables list the members exposed by the ResultContinuation type.
### Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>

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## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>

[Top]
## Explicit Interface Implementations

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GetSchema</td>
<td>Gets an XML representation of an object.</td>
</tr>
<tr>
<td>ReadXml</td>
<td>Generates a serializable continuation token from its XML representation.</td>
</tr>
<tr>
<td>WriteXml</td>
<td>Converts a serializable continuation token into its XML representation.</td>
</tr>
</tbody>
</table>
See Also

Reference
ResultContinuation Class
Microsoft.WindowsAzure.StorageClient Namespace
ResultContinuation Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
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<td>GetType</td>
<td>(Inherited from Object)</td>
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<tr>
<td>ToString</td>
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</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
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</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>)</td>
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## Explicit Interface Implementations

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<td>Generates a serializable continuation token from its XML representation.</td>
</tr>
<tr>
<td>WriteXml</td>
<td>Converts a serializable continuation token into its XML representation.</td>
</tr>
</tbody>
</table>
See Also

Reference

ResultContinuation Class
Microsoft.WindowsAzure.StorageClient Namespace
ResultContinuation.GetSchema Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets an XML representation of an object.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As ResultContinuation
Dim returnValue As XmlSchema

returnValue = CType(instance, IXmlSerializable).GetSchema
```
Syntax

Visual Basic


C#

XmlSchema IXmlSerializable.GetSchema()

C++

private:
virtual XmlSchema^ System.Xml.Serialization.IXmlSerializable.GetSchema();

J#


JScript


Return Value

Type: System.Xml.Schema.XmlSchema

An XmlSchema that describes the XML representation of the object that is produced by the WriteXml method and consumed by the ReadXml method.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ResultContinuation Class
ResultContinuation Members
Microsoft.WindowsAzure.StorageClient Namespace
Generates a serializable continuation token from its XML representation.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As ResultContinuation
Dim reader As XmlReader

CType(instance, IXmlSerializable).ReadXml(reader)
```
### Syntax

**Visual Basic**

```vbnet
Private Sub System.Xml.Serialization.IXmlSerializable.ReadXml(
    _
    reader As XmlReader _
) Implements IXmlSerializable.ReadXml
```

**C#**

```csharp
void IXmlSerializable.ReadXml (XmlReader reader)
```

**C++**

```cpp
private:
virtual void System.Xml.Serialization.IXmlSerializable.ReadXml(
    XmlReader^ reader
) sealed = IXmlSerializable::ReadXml
```

**J#**

```
```

**JScript**

```
```

### Parameters

**reader**

Type: `System.Xml.XmlReader`

The `XmlReader` stream from which the continuation token is deserialized.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ResultContinuation Class
ResultContinuation Members
Microsoft.WindowsAzure.StorageClient Namespace
ResultContinuation.WriteXml Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Converts a serializable continuation token into its XML representation.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As ResultContinuation
Dim writer As XmlWriter

CType(instance, IXmlSerializable).WriteXml(writer)
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Private Sub System.Xml.Serialization.IXmlSerializable.WriteXml ( _   
| writer As XmlWriter _  
| ) Implements IXmlSerializable.WriteXml |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
</table>
| void IXmlSerializable.WriteXml ( 
| XmlWriter writer |
| ) |

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| private: 
| virtual void System.Xml.Serialization.IXmlSerializable.WriteXml ( 
| XmlWriter^ writer |
| ) sealed = IXmlSerializable::WriteXml |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

**Parameters**

*writer*

Type: System.Xml.XmlWriter

The XmlWriter stream to which the continuation token is serialized.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ResultContinuation Class
ResultContinuation Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a result segment that was retrieved from the total set of possible results.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```
Dim instance As ResultSegment(Of TElement)
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Class ResultSegment(Of TElement)</td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public class ResultSegment&lt;TElement&gt;</td>
</tr>
</tbody>
</table>
| **C++** | generic<typename TElement> 
public ref class ResultSegment |
| **J#** | |
| **JScript** | |

### GenericParameters

**TElement**

The type of the element.
Inheritance Hierarchy

System.Object
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

- ResultSegment Members
- Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a result segment that was retrieved from the total set of possible results.

The following tables list the members exposed by the ResultSegment type.
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>ContinuationToken</code></td>
<td>Gets a continuation token to use to retrieve the next set of results with a subsequent call to the operation.</td>
</tr>
<tr>
<td><code>HasMoreResults</code></td>
<td>Gets a value indicating whether there are additional results to retrieve.</td>
</tr>
<tr>
<td><code>Results</code></td>
<td>Gets an enumerable collection of results.</td>
</tr>
</tbody>
</table>
### Public Methods (see also **Protected Methods**)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BeginGetNext</td>
<td>Begins an asynchronous operation to retrieve the next result segment.</td>
</tr>
<tr>
<td>EndGetNext</td>
<td>Ends an asynchronous operation to retrieve the next result segment.</td>
</tr>
<tr>
<td>Equals</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>GetNext</td>
<td>Gets the next result segment.</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>

[Top](#)
See Also

Reference
ResultSegment Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BeginGetNext</strong></td>
<td>Begins an asynchronous operation to retrieve the next result segment.</td>
</tr>
<tr>
<td><strong>EndGetNext</strong></td>
<td>Ends an asynchronous operation to retrieve the next result segment.</td>
</tr>
<tr>
<td><strong>Equals</strong></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><strong>GetNext</strong></td>
<td>Gets the next result segment.</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>(Inherited from Object)</td>
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</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
See Also

Reference

ResultSegment Class
Microsoft.WindowsAzure.StorageClient Namespace
### ResultSegment.BeginGetNext Method

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to retrieve the next result segment.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As ResultSegment(Of TElement)
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginGetNext(callback, state)
```
### Syntax

#### Visual Basic

```vbnet
Public Function BeginGetNext ( 
    callback As AsyncCallback, 
    state As Object 
) As IAsyncResult
```

#### C#

```csharp
public IAsyncResult BeginGetNext ( 
    AsyncCallback callback, 
    Object state 
)
```

#### C++

```cpp
public: 
IAsyncResult^ BeginGetNext ( 
    AsyncCallback^ callback, 
    Object^ state 
)
```

#### J#

```jscript

```

#### JScript

```javascript

```

### Parameters

**callback**

Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.
**state**

Type: [System.Object](https://docs.microsoft.com/en-us/dotnet/api/system.object)

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: [System.IAsyncResult](https://docs.microsoft.com/en-us/dotnet/api/system.iasyncresult)

An [IAsyncResult](https://docs.microsoft.com/en-us/dotnet/api/system.iasyncresult) that references the asynchronous operation.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ResultSegment Class
ResultSegment Members
Microsoft.WindowsAzure.StorageClient Namespace
ResultSegment.EndGetNext Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to retrieve the next result segment.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As ResultSegment(Of TElement)
Dim asyncResult As IAsyncResult
Dim returnValue As ResultSegment(Of TElement)

returnValue = instance.EndGetNext(asyncResult)
```
## Syntax

### Visual Basic

```vbnet
Public Function EndGetNext ( _
    asyncResult As IAsyncResult _
) As ResultSegment(Of TElement)
```

### C#

```csharp
public ResultSegment<TElement> EndGetNext ( IAsyncResult asyncResult
```

### C++

```c++
public:
    ResultSegment<TElement>* EndGetNext ( IAsyncResult^ asyncResult
```

### J#

```

### JScript

```

## Parameters

**asyncResult**

An `IAasyncResult` that references the pending asynchronous operation.

## Return Value

Type: `Microsoft.WindowsAzure.StorageClient.ResultSegment`

The next result segment.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. 
Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
See Also

Reference

ResultSegment Class
ResultSegment Members
Microsoft.WindowsAzure.StorageClient Namespace
### ResultSegment.GetNext Method

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.]

Gets the next result segment.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As ResultSegment(Of TElement)
Dim returnValue As ResultSegment(Of TElement)

returnValue = instance.GetNext
**Syntax**

**Visual Basic**

Public Function GetNext As ResultSegment(Of TElement)

**C#**

public ResultSegment<TElement> GetNext ()

**C++**

public: ResultSegment<TElement>^ GetNext ()

**J#**

**JScript**

**Return Value**

Type: Microsoft.WindowsAzure.StorageClient.ResultSegment

The next result segment.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
- ResultSegment Class
- ResultSegment Members
- Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ContinuationToken</td>
<td>Gets a continuation token to use to retrieve the next set of results with a subsequent call to the operation.</td>
</tr>
<tr>
<td>HasMoreResults</td>
<td>Gets a value indicating whether there are additional results to retrieve.</td>
</tr>
<tr>
<td>Results</td>
<td>Gets an enumerable collection of results.</td>
</tr>
</tbody>
</table>
See Also

Reference

ResultSegment Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a continuation token to use to retrieve the next set of results with a subsequent call to the operation.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

#### Visual Basic

```
Dim instance As ResultSegment(Of TElement)
Dim value As ResultContinuation

value = instance.ContinuationToken
```
**Syntax**

**Visual Basic**

Public Property ContinuationToken As ResultContinuation

**C#**

public ResultContinuation ContinuationToken { get; }

**C++**

public: ResultContinuation ContinuationToken { ResultContinuation get (); }

**J#**

**JScript**

**Property Value**

Type: `Microsoft.WindowsAzure.StorageClient.ResultContinuation`

The continuation token.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

ResultSegment Class
ResultSegment Members
Microsoft.WindowsAzure.StorageClient Namespace
**ResultSegment.HasMoreResults Property**

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a value indicating whether there are additional results to retrieve.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim instance As <code>ResultSegment(Of TElement)</code></td>
</tr>
<tr>
<td>Dim value As <code>Boolean</code></td>
</tr>
<tr>
<td>value = instance.HasMoreResults</td>
</tr>
</tbody>
</table>
### Syntax

<table>
<thead>
<tr>
<th></th>
<th>Visual Basic</th>
<th>C#</th>
<th>C++</th>
<th>J#</th>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Public Property HasMoreResults As <strong>Boolean</strong></td>
<td>public <strong>bool</strong> HasMoreResults { get; }</td>
<td>public: property <strong>bool</strong> HasMoreResults { <strong>bool</strong> get (); }</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

Type: [System.Boolean](https://docs.microsoft.com/en-us/dotnet/api/system.boolean)

**True** if there are additional results; otherwise, **false**.
Remarks

It's recommended that you check the value of the ContinuationToken property to determine whether there are more results to be returned from the service, rather than using the HasMoreResults property.

This property indicates whether a result segment is complete. If the operation that returned a result segment provided a page size by specifying the maxResult parameter, and the number of results to be returned was less than the value of maxResults, then HasMoreResults returns false. If the operation returning the result segment did not specify a page size and there are more results to retrieve, then HasMoreResults returns true.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

ResultSegment Class
ResultSegment Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets an enumerable collection of results.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As ResultSegment(Of TElement)
Dim value As IEnumerable(Of TElement)

value = instance.Results
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td>Public Property Results As <code>IEnumerable(Of TElement)</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public IEnumerable&lt;TElement&gt; Results { get; }</code></td>
</tr>
</tbody>
</table>
| C++ | `public: property IEnumerable<TElement>* Results {
 IEnumerable<TElement>* get();
}` |
| J# | **JScript** |
| Property Value | **Type:** `System.Collections.Generic.IEnumerable`<br>An enumerable collection of results. |
Example

The following example lists the blobs in a container in result segments. The first operation returns

```csharp
static void ListBlobsInContainerInSegments()
{
    // Create service client for credentialed access to the Blob service.
    CloudBlobClient blobClient = new CloudBlobClient("http://storagesample.blob.core.windows.net/",
        new StorageCredentialsAccountAndKey("storagesample",
            "m4AHRkXjfhly2rE2YN/hcUR4U2lkGdCmj2/1ISutZKl+OqlrZN98Mhzq/U2AHYJT992tLmrkFW+mQgw9loIVCg=="));

    // Get a reference to a container that contains lots of blobs.
    CloudBlobContainer container = blobClient.GetContainerReference("lotsofblobs");

    // Return blobs using a flat listing.
    BlobRequestOptions options = new BlobRequestOptions();
    options.UseFlatBlobListing = true;

    // This first operation will return up to 5000 blobs.
    ResultSegment<IListBlobItem> resultSegment = container.ListBlobsSegmented(options);
    foreach (var blobItem in resultSegment.Results)
    {
        Console.WriteLine(blobItem.Uri);
    }

    ResultContinuation continuationToken = resultSegment.ContinuationToken;

    // Check whether there are more results and list them in pages of 1000.
    while (continuationToken != null)
    {
        resultSegment = container.ListBlobsSegmented(1000, continuationToken, options);
        foreach (var blobItem in resultSegment.Results)
        {
            Console.WriteLine(blobItem.Uri);
        }
    }
}
```
continuationToken = resultSegment.ContinuationToken;
Remarks

The **Results** property contains the collection of results returned by an operation that returns a result segment. You can use the **Results** property to enumerate the results.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
Change History
See Also

Reference

ResultSegment Class
ResultSegment Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Defines some standard retry policies.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
</tr>
</tbody>
</table>
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public NotInheritable Class RetryPolicies</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public static class RetryPolicies</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public ref class RetryPolicies abstract sealed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>
Inheritance Hierarchy

System.Object
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
RetryPolicies Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Defines some standard retry policies.

The following tables list the members exposed by the RetryPolicies type.
## Public Fields

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DefaultClientBackoff</td>
<td>Indicates the default delta backoff value used by the default exponential backoff retry policy.</td>
</tr>
<tr>
<td>DefaultClientRetryCount</td>
<td>Indicates the default retry count used by the default exponential backoff retry policy.</td>
</tr>
<tr>
<td>DefaultMaxBackoff</td>
<td>Indicates the default maximum backoff value that will be used for a policy returned by <code>RetryExponential(Int32,TimeSpan)</code>.</td>
</tr>
<tr>
<td>DefaultMinBackoff</td>
<td>Indicates the default minimum backoff value that will be used for a policy returned by <code>RetryExponential(Int32,TimeSpan)</code>.</td>
</tr>
</tbody>
</table>
## Public Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NoRetry</td>
<td>Returns a retry policy that performs no retries.</td>
</tr>
<tr>
<td>Retry</td>
<td>Returns a retry policy that retries a specified number of times, with a specified fixed time interval between retries.</td>
</tr>
<tr>
<td>RetryExponential</td>
<td>Overloaded.</td>
</tr>
</tbody>
</table>

Top
See Also

Reference
RetryPolicies Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Fields

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<th>Name</th>
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</tr>
</thead>
<tbody>
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<td>DefaultClientBackoff</td>
<td>Indicates the default delta backoff value used by the default exponential backoff retry policy.</td>
</tr>
<tr>
<td>DefaultClientRetryCount</td>
<td>Indicates the default retry count used by the default exponential backoff retry policy.</td>
</tr>
<tr>
<td>DefaultMaxBackoff</td>
<td>Indicates the default maximum backoff value that will be used for a policy returned by <code>RetryExponential(Int32,TimeSpan)</code> .</td>
</tr>
<tr>
<td>DefaultMinBackoff</td>
<td>Indicates the default minimum backoff value that will be used for a policy returned by <code>RetryExponential(Int32,TimeSpan)</code> .</td>
</tr>
</tbody>
</table>
See Also

Reference

RetryPolicies Class
Microsoft.WindowsAzure.StorageClient Namespace
**RetryPolicies.DefaultClientBackoff Field**

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Indicates the default delta backoff value used by the default exponential backoff retry policy.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim value As TimeSpan

value = RetryPolicies.DefaultClientBackoff
### Syntax

#### Visual Basic

Public Shared ReadOnly DefaultClientBackoff As TimeSpan

#### C#

public static readonly TimeSpan DefaultClientBackoff

#### C++

public:
static initonly TimeSpan DefaultClientBackoff

#### J#

#### JScript
Remarks

The client backoff is used to derive the increment for the exponential retry algorithm. The default client backoff value is used in the default exponential retry policy for each of the service client objects (CloudBlobClient, CloudQueueClient, and CloudTableClient). Currently the value of DefaultClientBackoff is set to 30 seconds.
Platforms

Development Platforms
See Also

Reference

RetryPolicies Class
RetryPolicies Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Indicates the default retry count used by the default exponential backoff retry policy.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>

```vbnet
Dim value As Integer
value = RetryPolicies.DefaultClientRetryCount
```
### Syntax

**Visual Basic**

Public Shared ReadOnly DefaultClientRetryCount As Integer

**C#**

```csharp
public static readonly int DefaultClientRetryCount
```

**C++**

```cpp
public:
static initonly int DefaultClientRetryCount
```

**J#**

**JScript**
Remarks

The default retry count specifies the number of times to retry for the default exponential retry policy for each of the service client objects (CloudBlobClient, CloudQueueClient, and CloudTableClient). Currently the value of DefaultClientRetryCount is set to 3.
Platforms

Development Platforms
See Also

Reference
RetryPolicies Class
RetryPolicies Members
Microsoft.WindowsAzure.StorageClient Namespace
<table>
<thead>
<tr>
<th><strong>RetryPolicies.DefaultMaxBackoff Field</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>See Also</strong></td>
</tr>
</tbody>
</table>

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Indicates the default maximum backoff value that will be used for a policy returned by `RetryExponential(Int32,TimeSpan)`.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim value As TimeSpan</td>
</tr>
<tr>
<td>value = RetryPolicies.DefaultMaxBackoff</td>
</tr>
</tbody>
</table>
## Syntax

### Visual Basic

```vbnet
Public Shared ReadOnly DefaultMaxBackoff As TimeUnit
```

### C#

```csharp
public static readonly TimeSpan DefaultMaxBackoff
```

### C++

```cpp
public:
static initonly TimeSpan DefaultMaxBackoff
```

### J#

```jsharp```

### JScript

```jscript```
Remarks

The **DefaultMaxBackoff** value specifies the maximum interval that may pass before a retry occurs. This value is currently set to 90 seconds.
Platforms

Development Platforms
See Also

Reference

RetryPolicies Class
RetryPolicies Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Indicates the default minimum backoff value that will be used for a policy returned by `RetryExponential(Int32,TimeSpan).

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim value As TimeSpan

value = RetryPolicies.DefaultMinBackoff
```
## Syntax

### Visual Basic

Public Shared Readonly DefaultMinBackoff As TimeSpan

### C#

public static readonly TimeSpan DefaultMinBackoff

### C++

public:
static initonly TimeSpan DefaultMinBackoff

### J#

### JScript
Remarks

The DefaultMinBackoff value specifies the minimum interval that may pass before a retry occurs. This value is currently set to 3 seconds.
Platforms

Development Platforms
See Also

Reference

RetryPolicies Class
RetryPolicies Members
Microsoft.WindowsAzure.StorageClient Namespace
RetryPolicies Methods
See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![image] NoRetry</td>
<td>Returns a retry policy that performs no retries.</td>
</tr>
<tr>
<td>![image] Retry</td>
<td>Returns a retry policy that retries a specified number of times, with a specified fixed time interval between retries.</td>
</tr>
<tr>
<td>![image] RetryExponential</td>
<td>Overloaded.</td>
</tr>
</tbody>
</table>
See Also

Reference
RetryPolicies Class
Microsoft.WindowsAzure.StorageClient Namespace
Returns a retry policy that performs no retries.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim returnValue As RetryPolicy

returnValue = RetryPolicies.NoRetry
```
### Syntax

**Visual Basic**

```vbnet
Public Shared Function NoRetry As RetryPolicy
```

**C#**

```csharp
public static RetryPolicy NoRetry ()
```

**C++**

```cpp
public:
static RetryPolicy^ NoRetry ()
```

**J#**

**JScript**

**Return Value**


The retry policy.
Remarks

Setting the **RetryPolicy** property to the **NoRetry** method effectively turns off
retries for the service client or for an individual request.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
RetryPolicies Class
RetryPolicies Members
Microsoft.WindowsAzure.StorageClient Namespace
Returns a retry policy that retries a specified number of times, with a specified fixed time interval between retries.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim retryCount As Integer
Dim intervalBetweenRetries As TimeSpan
Dim returnValue As RetryPolicy

returnValue = RetryPolicies.Retry(retryCount, intervalBetweenRetries)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
</table>
| Visual Basic | `Public Shared Function Retry ( _
| | retryCount As Integer,
| | intervalBetweenRetries As TimeSpan _) As RetryPolicy` |
| C# | `public static RetryPolicy Retry ( int retryCount,
| | TimeSpan intervalBetweenRetries )` |
| C++ | `public:
| | static RetryPolicy^ Retry ( int retryCount,
| | TimeSpan intervalBetweenRetries )` |
| J# | - |
| JScript | - |

### Parameters

- **retryCount**
  - Type: `System.Int32`
  - A non-negative number indicating the number of times to retry.
**intervalBetweenRetries**

Type: [System.TimeSpan](https://learn.microsoft.com/en-us/dotnet/api/system.timespan)

The time interval between retries. Use **Zero** to specify that the operation should be retried immediately.

**Return Value**


The retry policy.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

RetryPolicies Class
RetryPolicies Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RetryPolicies.RetryExponential(Int32, TimeSpan)</td>
<td>Returns a policy that retries a specified number of times with a randomized exponential backoff scheme, using default values for the minimum and maximum backoff.</td>
</tr>
<tr>
<td>RetryPolicies.RetryExponential(Int32, TimeSpan, TimeSpan, TimeSpan)</td>
<td>Returns a policy that retries a specified number of times with a randomized exponential backoff scheme, using specified minimum and maximum backoff values.</td>
</tr>
</tbody>
</table>
See Also

Reference
 RetryPolicies Class
 RetryPolicies Members
 Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a policy that retries a specified number of times with a randomized exponential backoff scheme, using default values for the minimum and maximum backoff.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim retryCount As Integer
Dim deltaBackoff As TimeSpan
Dim returnValue As RetryPolicy

returnValue = RetryPolicies.RetryExponential(retryCount)
```
## Syntax

### Visual Basic

```vbnet
Public Shared Function RetryExponential ( _
    retryCount As Integer, _
    deltaBackoff As TimeSpan _
) As RetryPolicy
```

### C#

```csharp
public static RetryPolicy RetryExponential ( int retryCount, TimeSpan deltaBackoff )
```

### C++

```cpp
public:
static RetryPolicy^ RetryExponential ( int retryCount, TimeSpan deltaBackoff )
```

### J#

```
```

### JScript

```
```

## Parameters

**retryCount**

Type: `System.Int32`

A non-negative number indicating the number of times to retry.
**deltaBackoff**

Type: `System.TimeSpan`

The delta backoff value used by the exponential backoff retry policy.

**Return Value**

Type: `Microsoft.WindowsAzure.StorageClient.RetryPolicy`

The retry policy.
Remarks

The retry policy returned by **RetryExponential** performs an exponential backoff using default values for the minimum backoff and the maximum backoff. The default values are defined by the **DefaultMinBackoff** and **DefaultMaxBackoff** constants.

This method provides the default retry policy for the **CloudBlobClient**, **CloudQueueClient**, and **CloudTableClient** objects. The default retry policy for the service client objects is set by calling **RetryExponential** to return a retry policy delegate that passes the **DefaultClientRetryCount** to specify the number of times to retry, and the **DefaultClientBackoff** constant to calculate the increment for the backoff interval.

The **RetryExponential** method returns a **RetryPolicy** delegate that returns a **ShouldRetry** delegate. The **ShouldRetry** delegate uses the algorithm shown here:

```csharp
public static RetryPolicy RetryExponential(int retryCount, TimeSpan deltaBackoff)
{
    //Returns a RetryPolicy delegate.
    return () =>
    {
        //Returns a ShouldRetry delegate.
        return (int currentRetryCount, Exception lastException, out TimeSpan retryInterval) =>
        {
            if (currentRetryCount < retryCount)
            {
                Random rand = new Random();
                int increment = (int)((Math.Pow(2, currentRetryCount) - 1) * rand.Next((int)(deltaBackoff.TotalMilliseconds * 0.8), (int)(deltaBackoff.TotalMilliseconds * 1.2)));
                int timeToSleepMsec = (int)Math.Min(RetryPolicies.DefaultMinBackoff.TotalMilliseconds + increment, RetryPolicies.DefaultMaxBackoff.TotalMilliseconds);
                retryInterval = TimeSpan.FromMilliseconds(timeToSleepMsec);
                return true;
            }
            retryInterval = TimeSpan.Zero;
            return false;
        };
    };
}
```
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference

RetryPolicies Class
RetryPolicies Members
Microsoft.WindowsAzure.StorageClient Namespace
Returns a policy that retries a specified number of times with a randomized exponential backoff scheme, using specified minimum and maximum backoff values.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim retryCount As Integer
Dim minBackoff As TimeSpan
Dim maxBackoff As TimeSpan
Dim deltaBackoff As TimeSpan
Dim returnValue As RetryPolicy

returnValue = RetryPolicies.RetryExponential(retryCount)
```
### Syntax

#### Visual Basic

```vbnet
Public Shared Function RetryExponential ( _
    retryCount As Integer, _
    minBackoff As TimeSpan, _
    maxBackoff As TimeSpan, _
    deltaBackoff As TimeSpan _
) As RetryPolicy
```

#### C#

```csharp
public static RetryPolicy RetryExponential (  
    int retryCount,
    TimeSpan minBackoff,
    TimeSpan maxBackoff,
    TimeSpan deltaBackoff
)
```

#### C++

```cpp
public:  
static RetryPolicy^ RetryExponential (  
    int retryCount,
    TimeSpan minBackoff,
    TimeSpan maxBackoff,
    TimeSpan deltaBackoff
)
```

#### J#

```jsharp
```

#### JScript

```jscript
```
**Parameters**

*retryCount*
   - Type: `System.Int32`
   - A non-negative number indicating the number of times to retry.

*minBackoff*
   - Type: `System.TimeSpan`
   - The minimum backoff interval.

*maxBackoff*
   - Type: `System.TimeSpan`
   - The maximum backoff interval.

*deltaBackoff*
   - Type: `System.TimeSpan`
   - The delta backoff value used by the exponential backoff retry policy.

**Return Value**

Type: `Microsoft.WindowsAzure.StorageClient.RetryPolicy`

The retry policy.
Remarks

The retry policy returned by **RetryExponential** performs an exponential backoff determined by the values of `minBackoff`, `maxBackoff`, and `deltaBackoff`.

The **RetryExponential** method returns a delegate that uses the algorithm shown here:

```csharp
public static RetryPolicy RetryExponential(int retryCount, TimeSpan minBackoff, TimeSpan maxBackoff, TimeSpan deltaBackoff)
{
    return () =>
    {
        return (int currentRetryCount, Exception lastException, out TimeSpan retryInterval) =>
        {
            if (currentRetryCount < retryCount)
            {
                Random rand = new Random();
                int increment = (int)((Math.Pow(2, currentRetryCount) - 1) * rand.Next((int)(deltaBackoff.TotalMilliseconds * 0.8), (int)(deltaBackoff.TotalMilliseconds * 1.2)));
                int timeToSleepMsec = (int)Math.Min(minBackoff.TotalMilliseconds + increment, maxBackoff.TotalMilliseconds);
                retryInterval = TimeSpan.FromMilliseconds(timeToSleepMsec);
                return true;
            }

            retryInterval = TimeSpan.Zero;
            return false;
        }
    };}
```
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
直接Policies Class
直接Policies Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns a `ShouldRetry` delegate that determines if the request should be retried.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As New RetryPolicy(AddressOf HandlerMethod)
```
## Syntax

### Visual Basic

Public Delegate Function RetryPolicy () As ShouldRetry

### C#

public delegate ShouldRetry RetryPolicy ()

### C++

public delegate ShouldRetry^ RetryPolicy ()

### J#

### JScript
Remarks

The **RetryPolicy** delegate returns a **ShouldRetry** delegate, which can be used to implement a custom retry policy.
Platforms

Development Platforms
See Also

Reference
Microsoft.WindowsAzure.StorageClient Namespace
SharedAccessPermissions Enumeration

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Specifies the set of possible permissions for a shared access policy.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As SharedAccessPermissions
### Syntax

<table>
<thead>
<tr>
<th></th>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>&lt;FlagsAttribute&gt; _ Public Enumeration SharedAccessPermissions</code></td>
</tr>
<tr>
<td></td>
<td>C#</td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td><code>[FlagsAttribute] public enum SharedAccessPermissions</code></td>
</tr>
<tr>
<td></td>
<td>C++</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><code>[FlagsAttribute] public enum class SharedAccessPermissions</code></td>
</tr>
<tr>
<td></td>
<td>J#</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>JScript</td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delete</td>
<td>Grant delete access.</td>
</tr>
<tr>
<td>List</td>
<td>Grant listing access.</td>
</tr>
<tr>
<td>None</td>
<td>No shared access granted.</td>
</tr>
<tr>
<td>Read</td>
<td>Grant read access.</td>
</tr>
<tr>
<td>Write</td>
<td>Grant write access.</td>
</tr>
</tbody>
</table>
Remarks

These enumeration values can be OR'ed together to designate multiple fields in method parameters that expect this enumeration type.
Platforms

Development Platforms
See Also

Reference

Microsoft.WindowsAzure.StorageClient Namespace
SharedAccessPolicy
Represented the collection of shared access policies defined for a container.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As SharedAccessPolicies
<table>
<thead>
<tr>
<th>Syntax</th>
<th>Visual Basic</th>
<th>C#</th>
<th>C++</th>
<th>J#</th>
<th>JScript</th>
</tr>
</thead>
</table>
|          | `<SerializableAttribute> _
Public Class SharedAccessPolicies
public ref class SharedAccessPolicies : public Dictionary<string>` |    |         |
|          |                                                                                |                                                                    |                                                                  |    |         |
Remarks

A container-level shared access policy defines a set of parameters that may be applied to shared access signatures on the container or its blobs. The access policy, represented by a `SharedAccessPolicy` object, defines a start time, an expiry time, and a set of permissions for shared access. Note that a `SharedAccessPolicy` object may also be defined for the shared access signature itself.
Inheritance Hierarchy

System.Object
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
See Also

Reference
SharedAccessPolicies.Members
Microsoft.WindowsAzure.StorageClient.NAMESPACE
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents the collection of shared access policies defined for a container.

The following tables list the members exposed by the SharedAccessPolicies type.
### Public Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SharedAccessPolicies</td>
<td></td>
</tr>
</tbody>
</table>

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# Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comparer</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>Count</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>Item</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>Keys</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>Values</td>
<td>(Inherited from Dictionary)</td>
</tr>
</tbody>
</table>
### Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>Add</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>Clear</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>ContainsKey</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>ContainsValue</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetEnumerator</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetObjectData</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>OnDeserialization</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>Remove</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>TryGetValue</td>
<td>(Inherited from Dictionary)</td>
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</tbody>
</table>

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## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>

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## Explicit Interface Implementations

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Add</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>Contains</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>CopyTo</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>Remove</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>GetEnumerator</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>CopyTo</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>Add</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>Contains</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>GetEnumerator</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>Remove</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>GetEnumerator</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>IsReadOnly</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>Keys</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>Values</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>IsSynchronized</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>SyncRoot</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>IsFixedSize</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>IsReadOnly</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>Item</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>Keys</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>Values</td>
<td>(Inherited from Dictionary)</td>
</tr>
</tbody>
</table>

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See Also

Reference

SharedAccessPolicies Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the SharedAccessPolicies Class.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As New SharedAccessPolicies
## Syntax

### Visual Basic

Public Sub New

### C#

public SharedAccessPolicies ()

### C++

public: 
SharedAccessPolicies ()

### J#

### JScript
Remarks

The default constructor initializes any fields to their default values.
Platforms

Development Platforms
See Also

Reference
SharedAccessPolicies Class
SharedAccessPolicies Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Managing Access to Containers and Blobs
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<tbody>
<tr>
<td>See Also</td>
</tr>
</tbody>
</table>

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add</td>
<td>(Inherited from <strong>Dictionary</strong>)</td>
</tr>
<tr>
<td>Clear</td>
<td>(Inherited from <strong>Dictionary</strong>)</td>
</tr>
<tr>
<td>ContainsKey</td>
<td>(Inherited from <strong>Dictionary</strong>)</td>
</tr>
<tr>
<td>ContainsValue</td>
<td>(Inherited from <strong>Dictionary</strong>)</td>
</tr>
<tr>
<td>Equals</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>GetEnumerator</td>
<td>(Inherited from <strong>Dictionary</strong>)</td>
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<tr>
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<tbody>
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<tr>
<td>GetEnumerator</td>
<td>(Inherited from Dictionary)</td>
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<tr>
<td>CopyTo</td>
<td>(Inherited from Dictionary)</td>
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<tr>
<td>GetEnumerator</td>
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<tr>
<td>Add</td>
<td>(Inherited from Dictionary)</td>
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<tr>
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<td>GetEnumerator</td>
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<td>GetEnumerator</td>
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</table>
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SharedAccessPolicies Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

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</tr>
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<td>Count</td>
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<td>Keys</td>
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<td>Values</td>
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</table>
### Explicit Interface Implementations

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<thead>
<tr>
<th>Name</th>
<th>Description</th>
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<tbody>
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<tr>
<td>IsSynchronized</td>
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<tr>
<td>SyncRoot</td>
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<tr>
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<td>(Inherited from Dictionary)</td>
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<tr>
<td>IsReadOnly</td>
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</tr>
<tr>
<td>Item</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>Keys</td>
<td>(Inherited from Dictionary)</td>
</tr>
<tr>
<td>Values</td>
<td>(Inherited from Dictionary)</td>
</tr>
</tbody>
</table>
See Also

Reference

SharedAccessPolicies Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a shared access policy, which specifies the start time, expiry time, and permissions for a shared access signature.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As SharedAccessPolicy
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
</tr>
<tr>
<td>Public Class SharedAccessPolicy</td>
</tr>
<tr>
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</tr>
<tr>
<td>public class SharedAccessPolicy</td>
</tr>
<tr>
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<tr>
<td>public ref class SharedAccessPolicy</td>
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<td>J#</td>
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<tr>
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</tr>
</tbody>
</table>
Example

The following code example creates a shared access signature for a blob. The shared access policy is created on the signature itself.

```csharp
static void CreateSAS()
{
    // Retrieve storage account information from an app.config file.
    // This is one way to store and retrieve a connection string
    // when you are writing an application that runs locally,
    CloudStorageAccount storageAccount = CloudStorageAccount.Parse
        (ConfigurationManager.AppSettings["StorageAccountConnectionString"]);

    // Create the blob client object.
    CloudBlobClient blobClient = storageAccount.CreateCloudBlobClient();

    // Get a reference to the container for which the shared access policy
    // and a public access setting, and store it on the container.
    CloudBlobContainer container = blobClient.GetContainerReference("mysascontainer");
    container.CreateIfNotExist();

    // Create a permission policy, consisting of a shared access policy
    // and a public access setting, and store it on the container.
    BlobContainerPermissions containerPermissions = new BlobContainerPermissions();

    // The public access setting explicitly specifies that
    // so that it can't be accessed anonymously.
    containerPermissions.PublicAccess = BlobContainerPublicAccessType.Off;

    // Set the permission policy on the container.
    container.SetPermissions(containerPermissions);

    // The container-level access policy provides read/write
    containerPermissions.SharedAccessPolicies.Add("mypolicy",
    {
        // If valid immediately, don’t set SharedAccessStartTime.
```
// to avoid failures caused by small clock differences.
// This policy goes live one hour from now.
SharedAccessStartTime = DateTime.UtcNow.AddHours(1);
SharedAccessExpiryTime = DateTime.UtcNow.AddHours(11);
Permissions = SharedAccessPermissions.Write | SharedAccessPermissions.Read
}

// The shared access signature then can be used to create
// This code would likely be run from a different client
// demonstrate how to consume the shared access signature

// Create the blob client directly, using the shared access signature
// The parameter for StorageCredentialsSharedAccessSignature is
// the query parameter portion (after the question mark)
// of a URL that uses an SAS.
// For example:
// Console.WriteLine(blob.Uri.AbsoluteUri + sas);

CloudBlobClient sasBlobClient = new CloudBlobClient(storageAccount.BlobEndpoint,
          new StorageCredentialsSharedAccessSignature(sas));

// Return a reference to a blob.
CloudBlob blob = sasBlobClient.GetBlobReference("mysascontainer/myblob.txt");

// Upload text to the blob. If the blob does not yet exist,
// If the blob does exist, its existing content will be overwritten.
blob.UploadText("Write to a blob using shared access credentials.

The following example creates a shared access policy at the container level, and then creates a shared access signature that is associated with the policy.

C#

```csharp
static void CreateSASUsingContainerAccessPolicy()
{
```
// Retrieve storage account information from an app.config file.
// This is one way to store and retrieve a connection string
// that will run locally, rather than in Windows Azure.
CloudStorageAccount storageAccount = CloudStorageAccount.Parse
    (ConfigurationManager.AppSettings["StorageAccountConnectionString"]);

// Create the blob client object.
CloudBlobClient blobClient = storageAccount.CreateCloudBlobClient();

// Get a reference to the container for which shared access signature will be created.
CloudBlobContainer container = blobClient.GetContainerReference("mysascontainer");
container.CreateIfNotExist();

// Create a permission policy, consisting of a container level
// and a public access setting, and store it on the container.
BlobContainerPermissions blobPermissions = new BlobContainerPermissions();

// The container-level access policy provides read and write
// for 10 hours.
blobPermissions.SharedAccessPolicies.Add("mypolicy",
    new SharedAccessPolicy()
    {
        // If valid immediately, don't set SharedAccessStartTime.
        // to avoid failures caused by small clock differences.
        // This policy goes live one hour from now.
        SharedAccessStartTime = DateTime.UtcNow.AddHours(1),
        SharedAccessExpiryTime = DateTime.UtcNow.AddHours(11),
        Permissions = SharedAccessPermissions.Write | SharedAccessPermissions.Read
    });

// The public access setting explicitly specifies that the container
// so that it can't be accessed anonymously.
blobPermissions.PublicAccess = BlobContainerPublicAccessType.Off;

// Set the permission policy on the container.
container.SetPermissions(blobPermissions);

// Get the shared access signature to share with clients.
// Note that this call passes in an empty access policy,
// will use the 'mypolicy' access policy that's defined
// on the container.
string sas = container.GetSharedAccessSignature(new SharedAccessPolicy());

// Clients can use the signature to create a service.
StorageCredentialsSharedAccessSignature sasCreds = new StorageCredentialsSharedAccessSignature(sas);
CloudBlobClient sasBlobClient = new CloudBlobClient(storageAccount.BlobEndpoint, new StorageCredentialsSharedAccessSignature(sas));

// Return a reference to a blob.
CloudBlob blob = sasBlobClient.GetBlobReference("mysascontainer/myblob.txt");

// Upload text to the blob. If the blob does not yet exist, it will be created.
// If the blob does exist, its existing content will be overwritten.
blob.UploadText("Hello SAS World");
Remarks

A container-level shared access policy defines a set of parameters that may be applied to shared access signatures on the container or its blobs. The access policy, represented by a `SharedAccessPolicy` object, defines a start time, an expiry time, and a set of permissions for shared access.

Note that a single `SharedAccessPolicy` object may also be defined for the shared access signature itself. A container may have a collection of shared access policies, represented by the `SharedAccessPolicies` class.
Inheritance Hierarchy

System.Object

**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
SharedAccessPolicy Members
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Managing Access to Containers and Blobs
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a shared access policy, which specifies the start time, expiry time, and permissions for a shared access signature.

The following tables list the members exposed by the SharedAccessPolicy type.
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<td>Gets or sets the permissions for a shared access signature associated with this shared access policy.</td>
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<tr>
<td><strong>SharedAccessExpiryTime</strong></td>
<td>Gets or sets the expiry time for a shared access signature associated with this shared access policy.</td>
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<tr>
<td><strong>SharedAccessStartTime</strong></td>
<td>Gets or sets the start time for a shared access signature associated with this shared access policy.</td>
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<td><strong>PermissionsFromString</strong></td>
<td>Constructs a <strong>SharedAccessPermissions</strong> object from a permissions string.</td>
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<td>Converts the permissions specified for the shared access policy to a string.</td>
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SharedAccessPolicy Class
Microsoft.WindowsAzure.StorageClient Namespace

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Managing Access to Containers and Blobs
SharedAccessPolicy Constructor

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the SharedAccessPolicy class.

Namespace: Microsoft.WindowsAzure.StorageClient
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<td>Visual Basic</td>
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<tr>
<td>Dim instance As New SharedAccessPolicy</td>
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</table>
### Syntax

**Visual Basic**

```
Public Sub New
```

**C#**

```
public SharedAccessPolicy()
```

**C++**

```
public:
SharedAccessPolicy()
```

**J#**

```

```

**JScript**

```

```
Remarks

The default constructor initializes any fields to their default values.
Platforms

Development Platforms
See Also

Reference

SharedAccessPolicy Class
SharedAccessPolicy Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<th>Description</th>
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<td>(Inherited from <strong>Object</strong>)</td>
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<tr>
<td>✤ GetHashCode</td>
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<tr>
<td>✤ GetType</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>✤ PermissionsFromString</td>
<td>Constructs a <strong>SharedAccessPermissions</strong> object from a permissions string.</td>
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<td>Converts the permissions specified for the shared access policy to a string.</td>
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<td>Name</td>
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</tr>
<tr>
<td>------------------</td>
<td>---------------------------------------</td>
</tr>
<tr>
<td>Finalize</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from Object)</td>
</tr>
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Microsoft.WindowsAzure.StorageClient Namespace

Other Resources

Managing Access to Containers and Blobs
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a SharedAccessPermissions object from a permissions string.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim value As String
Dim returnValue As SharedAccessPermissions

returnValue = SharedAccessPolicy.PermissionsFromString
## Syntax

### Visual Basic

```vbnet
Public Shared Function PermissionsFromString ( _
    value As String _
) As SharedAccessPermissions
```

### C#

```csharp
public static SharedAccessPermissions PermissionsFromString(
    string value
)
```

### C++

```cpp
public:
static SharedAccessPermissions PermissionsFromString(
    String^ value
)
```

### J#

```jsharp```

### JScript

```jscript```

---

### Parameters

**value**

Type: `System.String`

The shared access permissions in string format.

### Return Value
Type: Microsoft.WindowsAzure.StorageClient.SharedAccessPermissions

A set of shared access permissions.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

SharedAccessPolicy Class
SharedAccessPolicy Members
Microsoft.WindowsAzure.StorageClient Namespace
SharedAccessPermissions
Converted the permissions specified for the shared access policy to a string.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim permissions As SharedAccessPermissions
Dim returnValue As String

returnValue = SharedAccessPolicy.PermissionsToString
## Syntax

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<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Shared Function PermissionsToString ( _permissions As SharedAccessPermissions _) As String</td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public static string PermissionsToString ( SharedAccessPermissions permissions )</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public: static String^ PermissionsToString ( SharedAccessPermissions permissions )</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
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<tr>
<td><strong>JScript</strong></td>
<td></td>
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</tbody>
</table>

### Parameters

**permissions**


The shared access permissions.

### Return Value

Type: [System.String](https://docs.microsoft.com/en-us/dotnet/api/system.string)
The shared access permissions in string format.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
SharedAccessPolicy Class
SharedAccessPolicy Members
Microsoft.WindowsAzure.StorageClient Namespace
SharedAccessPermissions
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Properties

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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>⚛ Permissions</td>
<td>Gets or sets the permissions for a shared access signature associated with this shared access policy.</td>
</tr>
<tr>
<td>⚛ SharedAccessExpiryTime</td>
<td>Gets or sets the expiry time for a shared access signature associated with this shared access policy.</td>
</tr>
<tr>
<td>⚛ SharedAccessStartTime</td>
<td>Gets or sets the start time for a shared access signature associated with this shared access policy.</td>
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</table>
See Also

Reference
SharedAccessPolicy Class
Microsoft.WindowsAzure.StorageClient Namespace

Other Resources
Managing Access to Containers and Blobs
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the permissions for a shared access signature associated with this shared access policy.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As SharedAccessPolicy
Dim value As SharedAccessPermissions

value = instance.Permissions

instance.Permissions = value
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Public Property Permissions As</strong> <code>SharedAccessPermissions</code></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>public</code> <code>SharedAccessPermissions</code> Permissions { get; set; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| `public:` `SharedAccessPermissions` Permissions {
| `SharedAccessPermissions` get ();
| `void` set (`SharedAccessPermissions` value);
| } |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>public</code> <code>SharedAccessPermissions</code> Permissions { get; set; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>public</code> <code>SharedAccessPermissions</code> Permissions { get; set; }</td>
</tr>
</tbody>
</table>

**Property Value**


The permissions.
Remarks

This value must be set either on the container-level access policy or on the Shared Access Signature URL, but may not be set in both places.
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

SharedAccessPolicy Class
SharedAccessPolicy Members
Microsoft.WindowsAzure.StorageClient Namespace
SharedAccessPermissions
Get or sets the expiry time for a shared access signature associated with this shared access policy.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```
Dim instance As SharedAccessPolicy
Dim value As Nullable(Of DateTime)

value = instance.SharedAccessExpiryTime

instance.SharedAccessExpiryTime = value
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property SharedAccessExpiryTime As Nullable(Of C#)</code></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td><code>public Nullable&lt;DateTime&gt; SharedAccessExpiryTime { get; }</code></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><code>public: Nullable&lt;DateTime&gt; SharedAccessExpiryTime { get (); void set (Nullable&lt;DateTime&gt; value); }</code></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

Type: [System.Nullable](https://docs.microsoft.com/en-us/dotnet/api/system.Nullable)

The shared access expiry time.
Remarks

This value must be set either on the container-level access policy or on the Shared Access Signature URL, but may not be set in both places.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

SharedAccessPolicy Class
SharedAccessPolicy Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the start time for a shared access signature associated with this shared access policy.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Visual Basic

Dim instance As SharedAccessPolicy
Dim value As Nullable(Of DateTime)

dim instance = instance.SharedAccessStartTime

dim instance.SharedAccessStartTime = value
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
</table>
| Visual Basic | Public Property SharedAccessStartTime As Nullable(Of C# public Nullable<

| C# | public Nullable<DateTime> SharedAccessStartTime { get; set; } |
| C++ | public: Nullable<DateTime> SharedAccessStartTime { Nullable<DateTime> get();
void set (Nullable<DateTime> value); |
| J# | |
| JScript | |

### Property Value

Type: System.Nullable

The shared access start time.
Remarks

This value must be set either on the container-level access policy or on the Shared Access Signature URL, but may not be set in both places.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
See Also

Reference
SharedAccessPolicy Class
SharedAccessPolicy Members
Microsoft.WindowsAzure.StorageClient Namespace
ShouldRetry Delegate

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

A delegate that determines whether a request should be retried.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

#### Visual Basic

Dim instance As New `ShouldRetry`(AddressOf HandlerMethod)
**Syntax**

**Visual Basic**

```vbnet
Public Delegate Function ShouldRetry ( _
    retryCount As Integer, _
    lastException As Exception, _
    <OutAttribute> ByRef delay As TimeSpan _
) As Boolean
```

**C#**

```csharp
public delegate bool ShouldRetry (    int retryCount,    Exception lastException,    out TimeSpan delay
)
```

**C++**

```cpp
public delegate bool ShouldRetry (    int retryCount,    Exception^ lastException,    [OutAttribute] TimeSpan% delay
)
```

**J#**

```jsharp```

**JScript**

```jscript```
Platforms

Development Platforms
See Also

Reference
Microsoft.WindowsAzure.StorageClient Namespace
RetryPolicy
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents an exception thrown by the Windows Azure storage client library.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
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<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim instance As <strong>StorageClientException</strong></td>
</tr>
</tbody>
</table>
## Syntax

### Visual Basic

```vbnet
<SerializableAttribute> _
Public Class StorageClientException
    Inherits StorageException
```

### C#

```csharp
[SerializableAttribute]
public class StorageClientException : StorageException
```

### C++

```cpp
[SerializableAttribute]
public ref class StorageClientException : public StorageException
```

### J#

```jsharp```

### JScript

```jscript```
Remarks

When the StorageClientException is thrown it indicates that there was a problem with the request the client made to the server. Any timeout related exceptions are automatically retried, and therefore, retrying the operation yourself will almost certainly result in the same exception being thrown. The one exception to this rule is when the ExtendedErrorInformation property indicates that ErrorCode is equal to InternalError.

C#  
bool canRetry = true;
while (canRetry)
{
    try
    {
        // Perform data access operation
    }
    catch (StorageClientException ex)
    {
        {
            canRetry = false;
        }
        else
        {
            // Wait before retrying the operation
            System.Threading.Thread.Sleep(1000);
        }
    }
}
Inheritance Hierarchy

- System.Object
- System.Exception
  - Microsoft.WindowsAzure.StorageClient.StorageException
  - Microsoft.WindowsAzure.StorageClient.StorageClientException
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference

StorageClientException Members
Microsoft.WindowsAzure.StorageClient Namespace
See Also  Constructors  Methods  Properties  Events

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents an exception thrown by the Windows Azure storage client library.

The following tables list the members exposed by the StorageClientException type.
## Public Constructors (see also Protected Constructors)

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## Protected Constructors

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<th>Name</th>
<th>Description</th>
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<tr>
<td>StorageClientException</td>
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<th>Description</th>
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<tr>
<td>ErrorCode</td>
<td>Gets the specific error code returned by the service. (Inherited from StorageException)</td>
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<tr>
<td>ExtendedErrorInformation</td>
<td>Gets the extended error information returned by the service. (Inherited from StorageException)</td>
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<tr>
<td>HelpLink</td>
<td>(Inherited from Exception)</td>
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<tr>
<td>InnerException</td>
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<tr>
<td>Message</td>
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<tr>
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<td>StackTrace</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>StatusCode</td>
<td>Gets the HTTP status code that was returned by the service. (Inherited from StorageException)</td>
</tr>
<tr>
<td>TargetSite</td>
<td>(Inherited from Exception)</td>
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## Protected Properties

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<td>getbaseexception</td>
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<td>getobjectdata</td>
<td>Overridden. Sets the SerializationInfo object with additional exception information. (Inherited from Exception)</td>
</tr>
<tr>
<td>gettype</td>
<td>(Inherited from Exception)</td>
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<tr>
<td>tostring</td>
<td>Overridden. (Inherited from Object)</td>
</tr>
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</table>
## Protected Methods

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## Protected Events

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</table>
See Also

Reference

StorageClientException Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

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<th>Description</th>
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<tr>
<td><code>StorageClientException()</code></td>
<td>Initializes a new instance of the <code>StorageClientException</code> class.</td>
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<tr>
<td><code>StorageClientException(SerializationInfo, StreamingContext)</code></td>
<td>Initializes a new instance of the <code>StorageClientException</code> class with serialized data.</td>
</tr>
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</table>
See Also

Reference
StorageClientException Class
StorageClientException Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the StorageClientException class.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As New StorageClientException
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
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<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Sub New</td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public StorageClientException ()</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public: StorageClientException ()</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
Remarks

The default constructor initializes any fields to their default values.
Platforms

Development Platforms
See Also

Reference

StorageClientException Class
StorageClientException Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the StorageClientException class with serialized data.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim info As SerializationInfo
Dim context As StreamingContext

Dim instance As New StorageClientException(info, context)
```
Syntax

Visual Basic

Protected Sub New ( _
    info As SerializationInfo,
    context As StreamingContext _
)

C#

protected StorageClientException ( 
    SerializationInfo info, 
    StreamingContext context
)

C++

protected:
StorageClientException ( 
    SerializationInfo^ info, 
    StreamingContext context
)

J#

JScript

Parameters

info
Type: System.Runtime.Serialization.SerializationInfo

The object that contains serialized data about the exception being thrown.
context
Type: `System.Runtime.Serialization.StreamingContext`

The `StreamingContext` object that contains contextual information about the source or destination.
Platforms

Development Platforms
See Also

Reference
StorageClientException Class
StorageClientException Members
Microsoft.WindowsAzure.StorageClient Namespace
StorageClientException Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Methods (see also Protected Methods)

<table>
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<tbody>
<tr>
<td>Equals</td>
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</tr>
<tr>
<td>GetBaseException</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>ToString</td>
<td>Overridden. (Inherited from Object)</td>
</tr>
<tr>
<td>GetObjectData</td>
<td>Overridden. Sets the SerializationInfo object with additional exception information. (Inherited from Exception)</td>
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<tr>
<td>Name</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------</td>
<td>-------------------------------------------</td>
</tr>
<tr>
<td>Finalize</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
See Also

Reference

StorageClientException Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties (see also Protected Properties)

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<th>Description</th>
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</thead>
<tbody>
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<td>Data</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td><strong>ErrorCode</strong></td>
<td>Gets the specific error code returned by the service.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from StorageException)</td>
</tr>
<tr>
<td><strong>ExtendedErrorInformation</strong></td>
<td>Gets the extended error information returned by the service.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from StorageException)</td>
</tr>
<tr>
<td><strong>HelpLink</strong></td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td><strong>InnerException</strong></td>
<td>(Inherited from Exception)</td>
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<tr>
<td><strong>Message</strong></td>
<td>(Inherited from Exception)</td>
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<tr>
<td><strong>Source</strong></td>
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<td><strong>StackTrace</strong></td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td><strong>StatusCode</strong></td>
<td>Gets the HTTP status code that was returned by the service.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from StorageException)</td>
</tr>
<tr>
<td><strong>TargetSite</strong></td>
<td>(Inherited from Exception)</td>
</tr>
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</table>
## Protected Properties

<table>
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<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✽ HResult</td>
<td>(Inherited from Exception)</td>
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See Also

Reference
StorageClientException Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Protected Events

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<tr>
<th>Name</th>
<th>Description</th>
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<tbody>
<tr>
<td>SerializeObjectState</td>
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</table>
See Also

Reference

StorageClientException Class
Microsoft.WindowsAzure.StorageClient Namespace
**StorageErrorCode Enumeration**

---

**See Also**

---

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Describes error codes that may be returned by the Windows Azure storage services or the storage client library.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```visualbasic
Dim instance As StorageErrorCode
```
<table>
<thead>
<tr>
<th>Syntax</th>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Public Enumeration StorageErrorCode</strong></td>
</tr>
<tr>
<td>C#</td>
<td><code>public enum StorageErrorCode</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public enum class StorageErrorCode</code></td>
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</table>
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<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
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<tr>
<td>AccessDenied</td>
<td>Access was denied (client-side error).</td>
</tr>
<tr>
<td>AccountNotFound</td>
<td>The specified account was not found (client-side error).</td>
</tr>
<tr>
<td>AuthenticationFailure</td>
<td>An authentication error occurred (client-side error).</td>
</tr>
<tr>
<td>BadGateway</td>
<td>There was an error with the gateway used for the request (client-side error).</td>
</tr>
<tr>
<td>BadRequest</td>
<td>The request was incorrect or badly formed (client-side error).</td>
</tr>
<tr>
<td>BlobAlreadyExists</td>
<td>The specified blob already exists (client-side error).</td>
</tr>
<tr>
<td>BlobNotFound</td>
<td>The specified blob was not found (client-side error).</td>
</tr>
<tr>
<td>ConditionFailed</td>
<td>The specified condition failed (client-side error).</td>
</tr>
<tr>
<td>ContainerAlreadyExists</td>
<td>The specified container already exists (client-side error).</td>
</tr>
<tr>
<td>ContainerNotFound</td>
<td>The specified container was not found (client-side error).</td>
</tr>
<tr>
<td>HttpVersionNotSupported</td>
<td>The request version header is not supported (client-side error).</td>
</tr>
<tr>
<td>None</td>
<td>No error specified.</td>
</tr>
<tr>
<td>NotImplemented</td>
<td>The requested operation is not implemented on the specified resource (client-side error).</td>
</tr>
<tr>
<td>ResourceAlreadyExists</td>
<td>The specified resource already exists (client-side error).</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The specified resource was not found (client-side error).</td>
</tr>
<tr>
<td>ServiceBadResponse</td>
<td>The service returned a bad response (server-side error).</td>
</tr>
<tr>
<td>ServiceIntegrityCheckFailed</td>
<td>A service integrity check failed (server-side error).</td>
</tr>
<tr>
<td>Error Type</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>ServiceInternalError</td>
<td>An internal server occurred (server-side error).</td>
</tr>
<tr>
<td>ServiceTimeout</td>
<td>The service timed out (server-side error).</td>
</tr>
<tr>
<td>TransportError</td>
<td>A transport error occurred (server-side error).</td>
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</tbody>
</table>
Platforms

Development Platforms
See Also

Reference
Microsoft.WindowsAzure.StorageClient Namespace
StorageErrorCodeStrings Class

Provides error code strings that are common to all storage services.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Usage

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<th>C++</th>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Public NotInheritable Class StorageErrorCodeStrings</td>
<td>public static class StorageErrorCodeStrings</td>
<td>public ref class StorageErrorCodeStrings abstract sealed</td>
<td></td>
</tr>
<tr>
<td></td>
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</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
Provides error code strings that are common to all storage services.

The following tables list the members exposed by the `StorageErrorCodeStrings` type.
## Public Fields

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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AuthenticationFailed</td>
<td>Authentication failed.</td>
</tr>
<tr>
<td>ConditionNotMet</td>
<td>The specified condition was not met.</td>
</tr>
<tr>
<td>ContainerAlreadyExists</td>
<td>The specified container already exists.</td>
</tr>
<tr>
<td>ContainerBeingDeleted</td>
<td>The specified container is being deleted.</td>
</tr>
<tr>
<td>ContainerDisabled</td>
<td>The specified container is disabled.</td>
</tr>
<tr>
<td>ContainerNotFound</td>
<td>The specified container was not found.</td>
</tr>
<tr>
<td>EmptyMetadataKey</td>
<td>The metadata key is empty.</td>
</tr>
<tr>
<td>InternalError</td>
<td>An internal error occurred.</td>
</tr>
<tr>
<td>InvalidHeaderValue</td>
<td>One or more header values are invalid.</td>
</tr>
<tr>
<td>InvalidHttpVerb</td>
<td>The HTTP verb is invalid.</td>
</tr>
<tr>
<td>InvalidInput</td>
<td>The input is invalid.</td>
</tr>
<tr>
<td>InvalidMd5</td>
<td>The specified MD5 hash is invalid.</td>
</tr>
<tr>
<td>InvalidMetadata</td>
<td>The specified metadata is invalid.</td>
</tr>
<tr>
<td>InvalidQueryParameterValue</td>
<td>One or more query parameters are invalid.</td>
</tr>
<tr>
<td>InvalidRange</td>
<td>The specified range is invalid.</td>
</tr>
<tr>
<td>InvalidUri</td>
<td>The URI is invalid.</td>
</tr>
<tr>
<td>InvalidXmlElement</td>
<td>The specified XML document is invalid.</td>
</tr>
<tr>
<td>InvalidXmlNodeValue</td>
<td>One or more XML node values are invalid.</td>
</tr>
<tr>
<td>Md5Mismatch</td>
<td>The specified MD5 hash does not match the server value.</td>
</tr>
<tr>
<td>MetadataTooLarge</td>
<td>The specified metadata is too large.</td>
</tr>
<tr>
<td>MissingContentLengthHeader</td>
<td>The Content-Length header is required for this request.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Error Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MissingRequiredHeader</td>
<td>A required header was missing.</td>
</tr>
<tr>
<td>MissingRequiredQueryParameter</td>
<td>A required query parameter is missing.</td>
</tr>
<tr>
<td>MissingRequiredXmlNode</td>
<td>A required XML node was missing.</td>
</tr>
<tr>
<td>OperationTimedOut</td>
<td>The operation timed out.</td>
</tr>
<tr>
<td>OutOfRangeInput</td>
<td>The input is out of range.</td>
</tr>
<tr>
<td>OutOfRangeQueryParameterValue</td>
<td>One or more query parameters are out of range.</td>
</tr>
<tr>
<td>RequestBodyTooLarge</td>
<td>The request body is too large.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The specified resource was not found.</td>
</tr>
<tr>
<td>ServerBusy</td>
<td>The server is busy.</td>
</tr>
<tr>
<td>UnsupportedHeader</td>
<td>One or more header values are not supported.</td>
</tr>
<tr>
<td>UnsupportedHttpVerb</td>
<td>The specified HTTP verb is not supported.</td>
</tr>
<tr>
<td>UnsupportedQueryParameter</td>
<td>One or more query parameters is not supported.</td>
</tr>
<tr>
<td>UnsupportedXmlNode</td>
<td>One or more XML nodes are not supported.</td>
</tr>
</tbody>
</table>
See Also

Reference
- StorageErrorCodeStrings Class
- Microsoft.WindowsAzure.StorageClient Namespace
StorageErrorCodeStrings Fields

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Fields

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AuthenticationFailed</td>
<td>Authentication failed.</td>
</tr>
<tr>
<td>ConditionNotMet</td>
<td>The specified condition was not met.</td>
</tr>
<tr>
<td>ContainerAlreadyExists</td>
<td>The specified container already exists.</td>
</tr>
<tr>
<td>ContainerBeingDeleted</td>
<td>The specified container is being deleted.</td>
</tr>
<tr>
<td>ContainerDisabled</td>
<td>The specified container is disabled.</td>
</tr>
<tr>
<td>ContainerNotFound</td>
<td>The specified container was not found.</td>
</tr>
<tr>
<td>EmptyMetadataKey</td>
<td>The metadata key is empty.</td>
</tr>
<tr>
<td>InternalError</td>
<td>An internal error occurred.</td>
</tr>
<tr>
<td>InvalidHeaderValue</td>
<td>One or more header values are invalid.</td>
</tr>
<tr>
<td>InvalidHttpVerb</td>
<td>The HTTP verb is invalid.</td>
</tr>
<tr>
<td>InvalidInput</td>
<td>The input is invalid.</td>
</tr>
<tr>
<td>InvalidMd5</td>
<td>The specified MD5 hash is invalid.</td>
</tr>
<tr>
<td>InvalidMetadata</td>
<td>The specified metadata is invalid.</td>
</tr>
<tr>
<td>InvalidQueryParameterValue</td>
<td>One or more query parameters are invalid.</td>
</tr>
<tr>
<td>InvalidRange</td>
<td>The specified range is invalid.</td>
</tr>
<tr>
<td>InvalidUri</td>
<td>The URI is invalid.</td>
</tr>
<tr>
<td>InvalidXmlDocument</td>
<td>The specified XML document is invalid.</td>
</tr>
<tr>
<td>InvalidXmlNodeValue</td>
<td>One or more XML node values are invalid.</td>
</tr>
<tr>
<td>Md5Mismatch</td>
<td>The specified MD5 hash does not match the server value.</td>
</tr>
<tr>
<td>MetadataTooLarge</td>
<td>The specified metadata is too large.</td>
</tr>
<tr>
<td>MissingContentLengthHeader</td>
<td>The Content-Length header is required for this request.</td>
</tr>
<tr>
<td>Error Type</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>-------------------------------------------------------</td>
</tr>
<tr>
<td>MissingRequiredHeader</td>
<td>A required header was missing.</td>
</tr>
<tr>
<td>MissingRequiredQueryParameter</td>
<td>A required query parameter is missing.</td>
</tr>
<tr>
<td>MissingRequiredXmlNode</td>
<td>A required XML node was missing.</td>
</tr>
<tr>
<td>OperationTimedOut</td>
<td>The operation timed out.</td>
</tr>
<tr>
<td>OutOfRangeInput</td>
<td>The input is out of range.</td>
</tr>
<tr>
<td>OutOfRangeQueryParameterValue</td>
<td>One or more query parameters are out of range.</td>
</tr>
<tr>
<td>RequestBodyTooLarge</td>
<td>The request body is too large.</td>
</tr>
<tr>
<td>ResourceNotFound</td>
<td>The specified resource was not found.</td>
</tr>
<tr>
<td>ServerBusy</td>
<td>The server is busy.</td>
</tr>
<tr>
<td>UnsupportedHeader</td>
<td>One or more header values are not supported.</td>
</tr>
<tr>
<td>UnsupportedHttpVerb</td>
<td>The specified HTTP verb is not supported.</td>
</tr>
<tr>
<td>UnsupportedQueryParameter</td>
<td>One or more query parameters is not supported.</td>
</tr>
<tr>
<td>UnsupportedXmlNode</td>
<td>One or more XML nodes are not supported.</td>
</tr>
</tbody>
</table>
See Also

Reference

StorageErrorCodeStrings Class
Microsoft.WindowsAzure.StorageClient Namespace
Authentication failed.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim value As String

value = StorageErrorCodeStrings.AuthenticationFailed
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Const AuthenticationFailed As String</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public const string AuthenticationFailed</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: literal String^ AuthenticationFailed</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference
StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
The specified condition was not met.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim value As String

value = StorageErrorCodeStrings.ConditionNotMet
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public Const ConditionNotMet As <strong>String</strong></td>
<td></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public const <strong>string</strong> ConditionNotMet</td>
<td></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td></td>
</tr>
<tr>
<td>public: literal <strong>String</strong>^ ConditionNotMet</td>
<td></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
The specified container already exists.

**Namespace**: Microsoft.WindowsAzure.StorageClient  
### Usage

**Visual Basic**

```vbnet
Dim value As String
value = StorageErrorCodeStrings.ContainerAlreadyExists
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Const ContainerAlreadyExists As String</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public const string ContainerAlreadyExists</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: literal String^ ContainerAlreadyExists</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
 Platforms

Development Platforms
See Also

Reference
StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
The specified container is being deleted.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
</tr>
</tbody>
</table>

Dim value As String

value = StorageErrorCodeStrings.ContainerBeingDeleted
## Syntax

### Visual Basic

| Public Const ContainerBeingDeleted As String |

### C#

| public const string ContainerBeingDeleted |

### C++

| public: literal String^ ContainerBeingDeleted |

### J#

| |

### JScript

| |
Platforms

Development Platforms
See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
The specified container is disabled.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim value As String  
value = StorageErrorCodeStrings.ContainerDisabled
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public Const ContainerDisabled As <strong>String</strong></td>
<td></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public const <strong>string</strong> ContainerDisabled</td>
<td></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td></td>
</tr>
<tr>
<td>public: literal <strong>String^</strong> ContainerDisabled</td>
<td></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
StorageErrorCodeStrings.ContainerNotFound Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The specified container was not found.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim value As String
value = StorageErrorCodeStrings.ContainerNotFound
```
<table>
<thead>
<tr>
<th>Syntax</th>
<th>Visual Basic</th>
<th>C#</th>
<th>C++</th>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><code>Public Const ContainerNotFound As String</code></td>
<td><code>public const string ContainerNotFound</code></td>
<td><code>public: literal String^ ContainerNotFound</code></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
StorageErrorCodeStrings.EmptyMetadataKey Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The metadata key is empty.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim value As String
value = StorageErrorCodeStrings.EmptyMetadataKey
## Syntax

**Visual Basic**

```lang
Public Const EmptyMetadataKey As String
```

**C#**

```lang
public const string EmptyMetadataKey
```

**C++**

```lang
public:
literal String^ EmptyMetadataKey
```

**J#**

```lang

```

**JScript**

```lang

```
Platforms

Development Platforms
See Also

Reference
StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
StorageErrorCodeStrings.InternalError Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

An internal error occurred.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

**Visual Basic**

```vbnet
Dim value As String
value = StorageErrorCodeStrings.InternalError
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Const InternalError As String</code></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td><code>public const string InternalError</code></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><code>public: literal String^ InternalError</code></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
StorageErrorCodeStrings.InvalidHeaderValue Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

One or more header values are invalid.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```visualbasic
Dim value As String
value = StorageErrorCodeStrings.InvalidHeaderValue
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td>Public Const InvalidHeaderValue As <strong>String</strong></td>
</tr>
<tr>
<td>C#</td>
<td>public const <strong>string</strong> InvalidHeaderValue</td>
</tr>
<tr>
<td>C++</td>
<td>public: literal <strong>String</strong>^ InvalidHeaderValue</td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
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Development Platforms
See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
StorageErrorCodeStrings.InvalidHttpVerb Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The HTTP verb is invalid.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim value As String
value = StorageErrorCodeStrings.InvalidHttpVerb
```
<table>
<thead>
<tr>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Public Const InvalidHttpVerb As <strong>String</strong></td>
</tr>
<tr>
<td><strong>C#</strong></td>
</tr>
<tr>
<td>public const <strong>string</strong> InvalidHttpVerb</td>
</tr>
<tr>
<td><strong>C++</strong></td>
</tr>
<tr>
<td>public: literal <strong>String</strong> InvalidHttpVerb</td>
</tr>
<tr>
<td><strong>J#</strong></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
</tr>
</tbody>
</table>
 Platforms

 Development Platforms
See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
StorageErrorCodeStrings.InvalidInput Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The input is invalid.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

**Visual Basic**

```vbnet
Dim value As String
value = StorageErrorCodeStrings.InvalidInput
```
## Syntax

### Visual Basic

```vbnet
Public Const InvalidInput As String
```

### C#

```csharp
public const string InvalidInput
```

### C++

```cpp
public:
    literal String^ InvalidInput
```

### J#

```
```

### JScript

```
```
Platforms

Development Platforms
See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
The specified MD5 hash is invalid.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim value As <strong>String</strong></td>
</tr>
<tr>
<td>value = <code>StorageErrorCodeStrings.InvalidMd5</code></td>
</tr>
</tbody>
</table>
### Syntax

**Visual Basic**

```vbnet
Public Const InvalidMd5 As String
```

**C#**

```csharp
public const string InvalidMd5
```

**C++**

```cpp
public:
  literal String^ InvalidMd5
```

**J#**

**JScript**
Platforms

Development Platforms
See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
StorageErrorCodeStrings.InvalidMetadata Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The specified metadata is invalid.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

#### Visual Basic

```vbnet
Dim value As String
value = StorageErrorCodeStrings.InvalidMetadata
```
<table>
<thead>
<tr>
<th>Syntax</th>
<th>Visual Basic</th>
<th>C#</th>
<th>C++</th>
<th>J#</th>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Public Const InvalidMetadata As <em>String</em></td>
<td>public const <em>string</em> InvalidMetadata</td>
<td>public: literal String^ InvalidMetadata</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference
StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
One or more query parameters are invalid.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim value As String

value = StorageErrorCodeStrings.InvalidQueryParameterValue
```
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public Const InvalidQueryParameterValue As <strong>String</strong></td>
<td></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public const <strong>string</strong> InvalidQueryParameterValue</td>
<td></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td></td>
</tr>
<tr>
<td>public: literal <strong>String</strong>^ InvalidQueryParameterValue</td>
<td></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
StorageErrorCodeStrings.InvalidRange Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The specified range is invalid.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim value As String
value = StorageErrorCodeStrings.InvalidRange
```
## Syntax

### Visual Basic

| Public Const InvalidRange As **String** |

### C#

| public const **string** InvalidRange |

### C++

| public: literal **String**^ InvalidRange |

### J#

| JScript |
Platforms

Development Platforms
See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
StorageErrorCodeStrings.InvalidUri Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The URI is invalid.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```visualbasic
dim value as string
value = storageerrorcodestrings.invaliduri
```
## Syntax

<table>
<thead>
<tr>
<th></th>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td>public const <em>string</em> InvalidUri</td>
</tr>
<tr>
<td>C++</td>
<td>public: literal <em>String</em>^ InvalidUri</td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
The specified XML document is invalid.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>

```vbnet
Dim value As String
value = StorageErrorCodeStrings.InvalidXmlDocument
```
### Syntax

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td><strong>Public Const InvalidXmlDocument As String</strong></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td><strong>public const string InvalidXmlDocument</strong></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><strong>public: literal String^ InvalidXmlDocument</strong></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
StorageErrorCodeStrings.InvalidXmlNodeValue Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

One or more XML node values are invalid.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim value As String
value = StorageErrorCodeStrings.InvalidXmlNodeValue
```
## Syntax

### Visual Basic

```vbnet
Public Const InvalidXmlNodeValue As String
```

### C#

```csharp
public const string InvalidXmlNodeValue
```

### C++

```cpp
public: literal String^ InvalidXmlNodeValue
```

### J#

```jsharp
```

### JScript

```javascript
```
Platforms

Development Platforms
See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
StorageErrorCodeStrings.Md5Mismatch Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The specified MD5 hash does not match the server value.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

**Visual Basic**

```vbnet
Dim value As String
value = StorageErrorCodeStrings.Md5Mismatch
```
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Const Md5Mismatch As <em>String</em></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public const <em>string</em> Md5Mismatch</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: literal <em>String^</em> Md5Mismatch</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>
Platforms

Development Platforms
See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
The specified metadata is too large.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```
Dim value As String
value = StorageErrorCodeStrings.MetadataTooLarge
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Const MetadataTooLarge As <em>String</em></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public const <em>string</em> MetadataTooLarge</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public: literal <em>String^</em> MetadataTooLarge</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
 Platforms

Development Platforms
See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
<table>
<thead>
<tr>
<th>StorageErrorCodeStrings.MissingContentLengthHeader Field</th>
</tr>
</thead>
</table>

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The Content-Length header is required for this request.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim value As String
value = StorageErrorCodeStrings.MissingContentLength
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Const MissingContentLengthHeader As String</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public const string MissingContentLengthHeader</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: literal String^ MissingContentLengthHeader</code></td>
</tr>
<tr>
<td>J#</td>
<td>JScript</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

A required header was missing.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim value As String
value = StorageErrorCodeStrings.MissingRequiredHeader
```
### Syntax

<table>
<thead>
<tr>
<th></th>
<th>Visual Basic</th>
<th>C#</th>
<th>C++</th>
<th>J#</th>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Public Const MissingRequiredHeader As String</strong></td>
<td>public const <em>string</em> MissingRequiredHeader</td>
<td>public: literal <em>String^</em> MissingRequiredHeader</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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Development Platforms
See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.Storage.Client Namespace
### StorageErrorCodeStrings.MissingRequiredQueryParameter Field

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

A required query parameter is missing.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim value As String
value = StorageErrorCodeStrings.MissingRequiredQueryParameters
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Const MissingRequiredQueryParameter As String</code></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td><code>public const string MissingRequiredQueryParameter</code></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><code>public: literal String^ MissingRequiredQueryParameter</code></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
Platforms

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See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
A required XML node was missing.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim value As String

value = StorageErrorCodeStrings.MissingRequiredXmlNode
## Syntax

### Visual Basic

```vbnet
Public Const MissingRequiredXmlNode As String
```

### C#

```csharp
public const string MissingRequiredXmlNode
```

### C++

```cpp
public:
literal String^ MissingRequiredXmlNode
```

### J#

```
```

### JScript

```
```
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See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
The operation timed out.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
</table>

**Visual Basic**

Dim value As **String**

value = **StorageErrorCodeStrings**.OperationTimedOut
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Const OperationTimedOut As <strong>String</strong></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public const <strong>string</strong> OperationTimedOut</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public: literal <strong>String</strong>^ OperationTimedOut</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
The input is out of range.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>

Dim value As *String*

value = *StorageErrorCodeStrings*.OutOfRangeInput
## Syntax

<table>
<thead>
<tr>
<th>Field</th>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td>Public Const OutOfRangeInput As <strong>String</strong></td>
</tr>
<tr>
<td>C#</td>
<td>public const <strong>string</strong> OutOfRangeInput</td>
</tr>
<tr>
<td>C++</td>
<td>public: literal <strong>String</strong> OutOfRangeInput</td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
StorageErrorCodeStrings.OutOfRangeQueryParameterValue Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

One or more query parameters are out of range.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim value As String
value = StorageErrorCodeStrings.OutOfRangeQueryParameterValue
```
## Syntax

### Visual Basic

```vbnet
Public Const OutOfRangeQueryParameterValue As String
```

### C#

```csharp
public const string OutOfRangeQueryParameterValue
```

### C++

```cpp
public:
    literal String^ OutOfRangeQueryParameterValue
```

### J#

```jsharp```

### JScript

```javascript```
Platforms

Development Platforms
See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
The request body is too large.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim value As String
value = StorageErrorCodeStrings.RequestBodyTooLarge
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Const RequestBodyTooLarge As String</code></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td><code>public const string RequestBodyTooLarge</code></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><code>public: literal String^ RequestBodyTooLarge</code></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td>-</td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
StorageErrorCodeStrings.ResourceNotFound Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The specified resource was not found.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim value As String
value = StorageErrorCodeStrings.ResourceNotFound
```
<table>
<thead>
<tr>
<th>Syntax</th>
<th>Visual Basic</th>
<th>C#</th>
<th>C++</th>
<th>J#</th>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Public Const ResourceNotFound As <strong>String</strong></td>
<td>public const <strong>string</strong> ResourceNotFound</td>
<td>public: <strong>literal String</strong> ResourceNotFound</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
StorageErrorCodeStrings.ServerBusy Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The server is busy.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim value As <strong>String</strong></td>
</tr>
<tr>
<td>value = <em>StorageErrorCodeStrings</em>.ServerBusy</td>
</tr>
<tr>
<td>Syntax</td>
</tr>
<tr>
<td>--------</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Public Const ServerBusy As <em>String</em></td>
</tr>
<tr>
<td><strong>C#</strong></td>
</tr>
<tr>
<td>public const <em>string</em> ServerBusy</td>
</tr>
<tr>
<td><strong>C++</strong></td>
</tr>
<tr>
<td>public: literal <em>String^ ServerBusy</em></td>
</tr>
<tr>
<td><strong>J#</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
StorageErrorCodeStrings.UnsupportedHeader Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

One or more header values are not supported.

Namespace: Microsoft.WindowsAzure.StorageClient
## Usage

### Visual Basic

```vbnet
Dim value As String
value = StorageErrorCodeStrings.UnsupportedHeader
```
**Syntax**

<table>
<thead>
<tr>
<th></th>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Public Const UnsupportedHeader As <strong>String</strong></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>C#</strong></td>
</tr>
<tr>
<td></td>
<td>public const <strong>string</strong> UnsupportedHeader</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>C++</strong></td>
</tr>
<tr>
<td></td>
<td>public: literal <strong>String</strong> UnsupportedHeader</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>J#</strong></td>
</tr>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>JScript</strong></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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Development Platforms
See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
StorageErrorCodeStrings.UnsupportedHttpVerb Field

See Also

This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.

The specified HTTP verb is not supported.

Namespace: Microsoft.WindowsAzure.StorageClient  
**Usage**

**Visual Basic**

Dim value As String

value = StorageErrorCodeStrings.UnsupportedHttpVerb
## Syntax

### Visual Basic

```
Public Const UnsupportedHttpVerb As String
```

### C#

```
public const string UnsupportedHttpVerb
```

### C++

```
public:
    literal String^ UnsupportedHttpVerb
```

### J#

```
```

### JScript

```
```
Platforms

Development Platforms
See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
One or more query parameters is not supported.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim value As String
value = StorageErrorCodeStrings.UnsupportedQueryParameter
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Const UnsupportedQueryParameter As String</code></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td><code>public const string UnsupportedQueryParameter</code></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><code>public: literal String^ UnsupportedQueryParameter</code></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
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See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
StorageErrorCodeStrings.UnsupportedXmlNode Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

One or more XML nodes are not supported.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim value As String

value = StorageErrorCodeStrings.UnsupportedXmlNode
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Const UnsupportedXmlNode As String</code></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td><code>public const string UnsupportedXmlNode</code></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><code>public: literal String^ UnsupportedXmlNode</code></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
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See Also

Reference

StorageErrorCodeStrings Class
StorageErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The base class for Windows Azure storage service exceptions.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As StorageException
```
## Syntax

### Visual Basic

```vbnet
<SerializableAttribute> _
Public MustInherit Class StorageException
    Inherits Exception
```

### C#

```csharp
[SerializableAttribute]
public abstract class StorageException : Exception
```

### C++

```cpp
[SerializableAttribute]
public ref class StorageException abstract : public I
```

### J#

```
```

### JScript

```
```
Remarks

Based on the source of the error that caused the exception to be thrown, Windows Azure storage services may throw a `StorageClientException` or a `StorageServerException`. The `StorageException` will never be thrown directly. However, it can be difficult or impossible to predict which of the derived exception types will be thrown for an arbitrary piece of code. Regardless, the `StorageException` base class usually contains sufficient detail regarding the error for you to determine how your application should proceed. Additional guidance regarding how to handle the different exception types can be found in the documentation for the derived classes, `StorageClientException` or `StorageServerException`.

```csharp
try
{
    // Storage access code
}
catch (Microsoft.WindowsAzure.StorageClient.StorageException ex)
{
    // Inspect ex.ErrorCode or ex.StatusCode for error information
}
catch (System.Exception ex)
{
    // General exception handler
}
```

When the `StorageException` is also a `StorageClientException` exception, additional error details can be found in the `ExtendedErrorInformation` property. Otherwise, this property is `null`. 
Inheritance Hierarchy

System.Object
System.Exception
Microsoft.WindowsAzure.StorageClient.StorageException
   Microsoft.WindowsAzure.StorageClient.StorageClientException
   Microsoft.WindowsAzure.StorageClient.StorageServerException
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
StorageException Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The base class for Windows Azure storage service exceptions.

The following tables list the members exposed by the StorageException type.
### Protected Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>StorageException</code></td>
<td>Overloaded.</td>
</tr>
</tbody>
</table>
### Public Properties (see also Protected Properties)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✯ Data</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>✯ ErrorCode</td>
<td>Gets the specific error code returned by the service.</td>
</tr>
<tr>
<td>✯ ExtendedErrorInformation</td>
<td>Gets the extended error information returned by the service.</td>
</tr>
<tr>
<td>✯ HelpLink</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>✯ InnerException</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>✯ Message</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>✯ Source</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>✯ StackTrace</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>✯ StatusCode</td>
<td>Gets the HTTP status code that was returned by the service.</td>
</tr>
<tr>
<td>✯ TargetSite</td>
<td>(Inherited from Exception)</td>
</tr>
</tbody>
</table>

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## Protected Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRESULT</td>
<td>(Inherited from <strong>Exception</strong>)</td>
</tr>
</tbody>
</table>

[Top](#)
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✤ Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>✤ GetBaseException</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>✤ GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>✤ GetObjectData</td>
<td>Overridden. Sets the SerializationInfo object with additional exception information.</td>
</tr>
<tr>
<td>✤ GetType</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>✤ ToString</td>
<td>Overridden. (Inherited from Object)</td>
</tr>
</tbody>
</table>

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## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
## Protected Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SerializeObjectState</td>
<td>(Inherited from Exception)</td>
</tr>
</tbody>
</table>
See Also

Reference

StorageException Class
Microsoft.WindowsAzure.StorageClient Namespace
See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>StorageException ()</td>
<td>Initializes a new instance of the StorageException class.</td>
</tr>
<tr>
<td>StorageException (StorageErrorCode, String, HttpStatusCode, StorageExtendedErrorInformation, Exception)</td>
<td>Initializes a new instance of the StorageException Class with the Storage client error code, a message describing the exception, the HTTP status code returned in the response, the extended error information, and the Exception instance that caused the current exception.</td>
</tr>
<tr>
<td>StorageException (SerializationInfo, StreamingContext)</td>
<td>Initializes a new instance of the StorageException class with serialized data about the exception being thrown, and contextual information about the source or destination.</td>
</tr>
</tbody>
</table>
See Also

Reference
StorageException Class
StorageException Members
Microsoft.WindowsAzure.StorageClient Namespace
StorageException Constructor ()

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the StorageException class.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As New StorageException
## Syntax

### Visual Basic

```vbnet
Protected Sub New
```

### C#

```csharp
protected StorageException ()
```

### C++

```cpp
protected: 
StorageException ()
```

### J#

```
```

### JScript

```
```
Remarks

The default constructor initializes any fields to their default values.
Platforms

Development Platforms
See Also

Reference

StorageException Class
StorageException Members
Microsoft.WindowsAzure.StorageClient Namespace
StorageException Constructor (StorageErrorCode, String, HttpStatusCode, StorageExtendedErrorInformation, Exception)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the StorageException Class with the Storage client error code, a message describing the exception, the HTTP status code returned in the response, the extended error information, and the Exception instance that caused the current exception.

Namespace: Microsoft.WindowsAzure.StorageClient
## Usage

### Visual Basic

```vbnet
Dim errorCode As StorageErrorCode
Dim message As String
Dim statusCode As HttpStatusCode
Dim extendedErrorInfo As StorageExtendedErrorInformation
Dim innerException As Exception

Dim instance As New StorageException(errorCode, message)
```
## Syntax

**Visual Basic**

```vbnet
Protected Sub New (
    errorCode As StorageErrorCode, _
    message As String, _
    statusCode As HttpStatusCode, _
    extendedErrorInfo As StorageExtendedErrorInformation, _
    innerException As Exception)
```

**C#**

```csharp
protected StorageException (  
    StorageErrorCode errorCode,  
    string message,  
    HttpStatusCode statusCode,  
    StorageExtendedErrorInformation extendedErrorInfo,  
    Exception innerException)
```

**C++**

```cpp
protected:  
StorageException (  
    StorageErrorCode errorCode,  
    String^ message,  
    HttpStatusCode statusCode,  
    StorageExtendedErrorInformation^ extendedErrorInfo,  
    Exception^ innerException)
```

**J#**

```csharp
```
### Parameters

- **errorCode**
  - The storage client error code.

- **message**
  - Type: `System.String`
  - The message that describes the exception.

- **statusCode**
  - Type: `System.Net.HttpStatusCode`
  - The HTTP status code returned in the response.

- **extendedErrorInfo**
  - Type: `Microsoft.WindowsAzure.StorageClient.StorageExtendedErrorInformation`
  - The extended error information.

- **innerException**
  - Type: `System.Exception`
  - The `Exception` instance that caused the current exception.
Platforms

Development Platforms
See Also

Reference

StorageException Class
StorageException Members
Microsoft.WindowsAzure.StorageClient Namespace
StorageException Constructor (SerializationInfo, StreamingContext)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the StorageException class with serialized data about the exception being thrown, and contextual information about the source or destination.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

**Visual Basic**

```visualbasic
Dim info As SerializationInfo
Dim context As StreamingContext

Dim instance As New StorageException(info, context)
```
### Syntax

#### Visual Basic

```vbnet
Protected Sub New (_
    info As SerializationInfo, _
    context As StreamingContext _
)
```

#### C#

```csharp
protected StorageException (  
    SerializationInfo info,  
    StreamingContext context  
)
```

#### C++

```cpp
protected:
StorageException (  
    SerializationInfo^ info,  
    StreamingContext context  
)
```

#### J#

```
```

#### JScript

```
```

### Parameters

**info**

Type: `System.Runtime.Serialization.SerializationInfo`

The `SerializationInfo` object that contains serialized object data about the exception being thrown.
context
Type: System.Runtime.Serialization.StreamingContext

The **StreamingContext** object that contains contextual information about the source or destination.
Platforms

Development Platforms
See Also

Reference
- StorageException Class
- StorageException Members
- Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<tr>
<td><strong>GetObjectData</strong></td>
<td>Overridden. Sets the <strong>SerializationInfo</strong> object with additional exception information.</td>
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<td>GetType</td>
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<td>ToString</td>
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</table>
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<th>Description</th>
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<tr>
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</table>
See Also

Reference

StorageException Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Sets the **SerializationInfo** object with additional exception information.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As StorageException
Dim info As SerializationInfo
Dim context As StreamingContext

instance.GetObjectData(info, context)
Syntax

Visual Basic

<SecurityPermissionAttribute(SecurityAction.Demand, SerializationFormatter:=
Public Overrides Sub GetObjectData ( _
   info As SerializationInfo, _
   context As StreamingContext _
)

C#

[SecurityPermissionAttribute(SecurityAction.Demand, SerializationFormatter=
public override void GetObjectData ( 
   SerializationInfo info,
   StreamingContext context
) }

C++

[SecurityPermissionAttribute(SecurityAction::Demand, SerializationFormatter=
public:
   virtual void GetObjectData ( 
   SerializationInfo^ info,
   StreamingContext context
) override }

J#


JScript

Parameters

info
Type: `System.Runtime.Serialization.SerializationInfo`

The object that contains serialized data about the exception being thrown.

`context`
Type: `System.Runtime.Serialization.StreamingContext`

The `StreamingContext` object that contains contextual information about the source or destination.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
StorageException Class
StorageException Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<tr>
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<td>StatusCode</td>
<td>Gets the HTTP status code that was returned by the service.</td>
</tr>
<tr>
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</table>
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</table>
See Also

Reference

StorageException Class
Microsoft.WindowsAzure.StorageClient Namespace
See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the specific error code returned by the service.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As StorageException
Dim value As StorageErrorCode

value = instance.ErrorCode
```
**Syntax**

**Visual Basic**

Public Property ErrorCode As StorageErrorCode

**C#**

public StorageErrorCode ErrorCode { get; }

**C++**

public:
    property StorageErrorCode ErrorCode {
        StorageErrorCode get();
    }

**J#**

**JScript**

**Property Value**


The storage error code.
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageException Class
StorageException Members
Microsoft.WindowsAzure.StorageClient Namespace
Gets the extended error information returned by the service.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```
Dim instance As StorageException
Dim value As StorageExtendedErrorInformation

value = instance.ExtendedErrorInformation
```
### Syntax

#### Visual Basic

```vbnet
Public Property ExtendedErrorInformation As StorageExtendedErrorInformation
```

#### C#

```csharp
public StorageExtendedErrorInformation ExtendedErrorInformation
```

#### C++

```cpp
public:
property StorageExtendedErrorInformation^ ExtendedErrorInformation
{
    StorageExtendedErrorInformation^ get ();
}
```

#### J#

```java
```

#### JScript

```jscript
```

### Property Value

**Type:**


The extended error information.
Remarks

Important
This property will be null if the exception is of the derived type StorageServerException.
- **Thread Safety**
  
  Any public static (*Shared* in Visual Basic) members of this type are thread safe.
  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
StorageException Class
StorageException Members
Microsoft.WindowsAzure.StorageClient Namespace
### StorageException.StatusCode Property

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the HTTP status code that was returned by the service.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As StorageException
Dim value As HttpStatusCode

value = instance.StatusCode
**Syntax**

**Visual Basic**

Public Property StatusCode As HttpStatusCode

**C#**

public HttpStatusCode StatusCode { get; }  

**C++**

public: 
  property HttpStatusCode StatusCode {
    HttpStatusCode get();
  }

**J#**

**JScript**

**Property Value**

Type: [System.Net.HttpStatusCode](https://docs.microsoft.com/en-us/dotnet/api/system.net.httpstatuscode)

The HTTP status code.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
StorageException Class
StorageException Members
Microsoft.WindowsAzure.StorageClient Namespace
StorageException Events

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Protected Events

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<tbody>
<tr>
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<td>(Inherited from Exception)</td>
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</table>
See Also

Reference

StorageException Class
Microsoft.WindowsAzure.StorageClient Namespace
Contains methods used to translate data access exceptions for Windows Azure tables, blobs, and queues into Windows Azure-specific exceptions.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
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</table>
## Syntax

<table>
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<tr>
<th>Visual Basic</th>
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</thead>
</table>
| `<ExtensionAttribute> _
Public NotInheritable Class StorageExceptionExtensions                                          |
| C#                                                                                           |
| `[ExtensionAttribute] public static class StorageExceptionExtensions`                         |
| C++                                                                                          |
| `[ExtensionAttribute] public ref class StorageExceptionExtensions abstract`                   |
| J#                                                                                           |
| JScript                                                                                      |
Inheritance Hierarchy

System.Object
Microsoft.WindowsAzure.StorageClient.StorageExceptionExtensions
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageExceptionExtensions Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Contains methods used to translate data access exceptions for Windows Azure tables, blobs, and queues into Windows Azure-specific exceptions.

The following tables list the members exposed by the StorageExceptionExtensions type.
## Public Methods

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<thead>
<tr>
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<th>Description</th>
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<td>TranslateDataServiceClientException</td>
<td>Translates a System.InvalidOperationException into a StorageException.</td>
</tr>
<tr>
<td>TranslateWebException</td>
<td>Translates a System.Net.WebException into a StorageException.</td>
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</table>
See Also

Reference

StorageExceptionExtensions Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>TranslateDataServiceClientException</td>
<td>Translates a System.InvalidOperationException into a StorageException.</td>
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</table>
See Also

Reference
StorageExceptionExtensions Class
Microsoft.WindowsAzure.StorageClient Namespace
Translates a `System.InvalidOperationException` into a `StorageException`.

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

Visual Basic

Dim exceptionRef As InvalidOperationException
Dim returnValue As StorageException

returnValue = StorageExceptionExtensions.TranslateDataServiceClientException
## Syntax

### Visual Basic

```vbnet
<ExtensionAttribute> _
Public Shared Function TranslateDataServiceClientException ( _
    exceptionRef As InvalidOperationException _
) As StorageException
```

### C#

```csharp
[ExtensionAttribute]
public static StorageException TranslateDataServiceClientException (
    InvalidOperationException exceptionRef
)
```

### C++

```cpp
[ExtensionAttribute]
public:
static StorageException^ TranslateDataServiceClientException ( 
    InvalidOperationException^ exceptionRef
)
```

### J#

```
```

### JScript

```
```

## Parameters

- `exceptionRef`
Type: `System.InvalidOperationException`

**Return Value**

Type: `Microsoft.WindowsAzure.StorageClient.StorageException`

Returns `StorageException`.
Remarks

When working with Windows Azure tables using APIs that are outside of the Windows Azure SDK API-set, you can use this method to translate a `System.InvalidOperationException` into a `StorageException`. When using the Windows Azure SDK APIs, this translation is done for you automatically.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageExceptionExtensions Class
StorageExceptionExtensions Members
Microsoft.WindowsAzure.StorageClient Namespace
Translates a `System.Net.WebException` into a `StorageException`.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim exceptionRef As WebException
Dim returnValue As StorageException

returnValue = StorageExceptionExtensions.TranslateWebException
```
**Syntax**

**Visual Basic**

```vbnet
<ExtensionAttribute> _
Public Shared Function TranslateWebException ( _
    exceptionRef As WebException _
) As StorageException
```

**C#**

```csharp
[ExtensionAttribute]
public static StorageException TranslateWebException ( _
    WebException exceptionRef
)
```

**C++**

```cpp
[ExtensionAttribute]
public:
static StorageException^ TranslateWebException ( _
    WebException^ exceptionRef
)
```

**J#**

```jsharp```

**JScript**

```jscript```

**Parameters**

- `exceptionRef`
  - Type: `System.Net.WebException`
Return Value

Type: `Microsoft.WindowsAzure.StorageClient.StorageException`

Returns `StorageException`. 
Remarks

When working with Windows Azure blobs or queues using an APIs that are outside of the Windows Azure SDK API-set, you can use this method to translate a `System.Net.WebException` into a `StorageException`. When using the Windows Azure SDK APIs, this translation is done for you automatically.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
StorageExceptionExtensions Class
StorageExceptionExtensions Members
Microsoft.WindowsAzure.StorageClient Namespace
StorageExtendedErrorInformation Class

See Also Members

- [This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents extended error information returned by the Windows Azure storage services.

**Namespace:** Microsoft.WindowsAzure.StorageClient

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim instance As StorageExtendedErrorInformation
```
### Syntax

<table>
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<th>Visual Basic</th>
</tr>
</thead>
</table>
| `<SerializableAttribute> _
Public Class StorageExtendedErrorInformation` |

<table>
<thead>
<tr>
<th>C#</th>
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</thead>
</table>
| `[SerializableAttribute]`
`public class StorageExtendedErrorInformation` |

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| `[SerializableAttribute]`
`public ref class StorageExtendedErrorInformation` |

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Inheritance Hierarchy

System.Object
Microsoft.WindowsAzure.StorageClient.StorageExtendedErrorInformation
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageExtendedErrorInformation Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents extended error information returned by the Windows Azure storage services.

The following tables list the members exposed by the StorageExtendedErrorInformation type.
## Public Constructors

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<td>Gets additional error details.</td>
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<tr>
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<td>Gets the storage service error code.</td>
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<td>ErrorMessage</td>
<td>Gets the storage service error message.</td>
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</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
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<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
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<tr>
<td>ToString</td>
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## Protected Methods

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See Also

Reference
StorageExtendedErrorInformation Class
Microsoft.WindowsAzure.StorageClient Namespace
StorageExtendedErrorInformation Constructor

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the StorageExtendedErrorInformation Class.

Namespace: Microsoft.WindowsAzure.StorageClient
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<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim instance As New StorageExtendedErrorInformation</td>
</tr>
</tbody>
</table>
## Syntax

### Visual Basic

```vbnet
Public Sub New
```

### C#

```csharp
public StorageExtendedErrorInformation()
```

### C++

```cpp
public:
StorageExtendedErrorInformation()
```

### J#

```jsharp```

### JScript

```jscript```
Remarks

The default constructor initializes any fields to their default values.
Platforms

Development Platforms
See Also

Reference
StorageExtendedErrorInformation Class
StorageExtendedErrorInformation Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Methods (see also **Protected Methods**)

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<td>🌟 GetHashCode</td>
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<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>🌟 ToString</td>
<td>(Inherited from <strong>Object</strong>)</td>
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</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from <strong>Object</strong>)</td>
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<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
See Also

Reference

StorageExtendedErrorInformation Class
Microsoft.WindowsAzure.StorageClient Namespace
StorageExtendedErrorInformation Properties

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AdditionalDetails</td>
<td>Gets additional error details.</td>
</tr>
<tr>
<td>ErrorCode</td>
<td>Gets the storage service error code.</td>
</tr>
<tr>
<td>ErrorMessage</td>
<td>Gets the storage service error message.</td>
</tr>
</tbody>
</table>
See Also

Reference

StorageExtendedErrorInformation Class
Microsoft.WindowsAzure.StorageClient Namespace
StorageExtendedErrorInformation.AdditionalDetails Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets additional error details.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

Dim instance As StorageExtendedErrorInformation
Dim value As NameValueCollection

value = instance.AdditionalDetails
Syntax

Visual Basic

Public Property AdditionalDetails As NameValueCollection

C#

public NameValueCollection AdditionalDetails { get; };

C++

public:
property NameValueCollection& AdditionalDetails {
    NameValueCollection& get();
}

J#

JScript

Property Value

Type: System.Collections.Specialized.NameValueCollection

The additional error details.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

StorageExtendedErrorInformation Class
StorageExtendedErrorInformation Members
Microsoft.WindowsAzure.StorageClient Namespace
StorageExtendedErrorInformation.ErrorCode Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the storage service error code.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

#### Visual Basic

```vbnet
Dim instance As StorageExtendedErrorInformation
Dim value As String

value = instance.ErrorCode
```
Syntax

Visual Basic

Public Property ErrorCode As String

C#

public string ErrorCode { get; }

C++

public:
property String^ ErrorCode { 
    String^ get ();
}

J#

JScript

Property Value

Type: System.String

The storage service error code.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
- StorageExtendedErrorInformation Class
- StorageExtendedErrorInformation Members
- Microsoft.WindowsAzure.StorageClient Namespace
Gets the storage service error message.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>

```vbscript
Dim instance As StorageExtendedErrorInformation
Dim value As String

value = instance.ErrorMessage
```
## Syntax

### Visual Basic

Public Property ErrorMessage As String

### C#

public string ErrorMessage { get; }

### C++

public:
property String^ ErrorMessage {
    String^ get ();
}

### J#

### JScript

### Property Value

Type: System.String

The storage service error message.
- **Thread Safety**
  
  Any public static *(Shared in Visual Basic)* members of this type are thread safe.
  
  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
- StorageExtendedErrorInformation Class
- StorageExtendedErrorInformation Members
- Microsoft.WindowsAzure.StorageClient Namespace
StorageServerException Class

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents an exception thrown due to a server-side error.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As StorageServerException
```
### Syntax

**Visual Basic**

```
<SerializableAttribute> _
Public Class StorageServerException
    Inherits StorageException
```

**C#**

```
[SerializableAttribute]
public class StorageServerException : StorageException
```

**C++**

```
[SerializableAttribute]
public ref class StorageServerException : public StorageException
```

**J#**

```
```

**JScript**

```
```

```
Remarks

Server exceptions are caused by server-side failures. Requests resulting in a server exception can be retried with the same parameters. The storage client retries the failed call using the current retry policy, which retries 3 times (by default) before throwing this exception. Even though the operation has been retried and failed, subsequent retries in service code can succeed when the server issue has been resolved.

Important
For instances of the StorageServerException class, the ExtendedErrorInformation property will always be null.
Inheritance Hierarchy

System.Object
  System.Exception
    Microsoft.WindowsAzure.StorageClient.StorageException
    Microsoft.WindowsAzure.StorageClient.StorageServerException
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference

StorageServerException Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents an exception thrown due to a server-side error.

The following tables list the members exposed by the StorageServerException type.
### Public Constructors (see also Protected Constructors)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>StorageServerException</td>
<td>Overloaded.</td>
</tr>
</tbody>
</table>
## Protected Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>StorageServerException</td>
<td>Overloaded.</td>
</tr>
</tbody>
</table>
### Public Properties (see also Protected Properties)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>ErrorCode</td>
<td>Gets the specific error code returned by the service. (Inherited from StorageException)</td>
</tr>
<tr>
<td>ExtendedErrorInformation</td>
<td>Gets the extended error information returned by the service. (Inherited from StorageException)</td>
</tr>
<tr>
<td>HelpLink</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>InnerException</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>Message</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>Source</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>StackTrace</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>StatusCode</td>
<td>Gets the HTTP status code that was returned by the service. (Inherited from StorageException)</td>
</tr>
<tr>
<td>TargetSite</td>
<td>(Inherited from Exception)</td>
</tr>
</tbody>
</table>

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## Protected Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HResult</td>
<td>(Inherited from Exception)</td>
</tr>
</tbody>
</table>
### Public Methods (see also **Protected Methods**)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equals</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td><strong>GetBaseException</strong></td>
<td>(Inherited from <strong>Exception</strong>)</td>
</tr>
<tr>
<td><strong>GetHashCode</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td><strong>GetObjectData</strong></td>
<td>Overridden. Sets the <strong>SerializationInfo</strong> object with additional exception information. (Inherited from <strong>Exception</strong>)</td>
</tr>
<tr>
<td><strong>GetType</strong></td>
<td>(Inherited from <strong>Exception</strong>)</td>
</tr>
<tr>
<td><strong>ToString</strong></td>
<td>Overridden. (Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>

[Top]
## Protected Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SerializeObjectState</td>
<td>(Inherited from Exception)</td>
</tr>
</tbody>
</table>

[Top]
See Also

Reference

StorageServerException Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>StorageServerException ()</td>
<td>Initializes a new instance of the StorageServerException class.</td>
</tr>
<tr>
<td>StorageServerException (SerializationInfo, StreamingContext)</td>
<td>Initializes a new instance of the StorageServerException class with serialized data.</td>
</tr>
</tbody>
</table>
See Also

Reference

StorageServerException Class
StorageServerException Members
Microsoft.WindowsAzure.StorageClient Namespace
StorageServerException Constructor ()

See Also

This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.

Initializes a new instance of the StorageServerException class.

Namespace: Microsoft.WindowsAzure.StorageClient
## Usage

**Visual Basic**

<table>
<thead>
<tr>
<th>Dim instance As New StorageServerException</th>
</tr>
</thead>
</table>
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td>Public Sub New</td>
</tr>
<tr>
<td>C#</td>
<td>public StorageServerException ()</td>
</tr>
<tr>
<td>C++</td>
<td>public: StorageServerException ()</td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Remarks

The default constructor initializes any fields to their default values.
Platforms

Development Platforms
See Also

Reference

StorageServerException Class
StorageServerException Members
Microsoft.WindowsAzure.StorageClient Namespace
StorageServerException Constructor (SerializationInfo, StreamingContext)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the StorageServerException class with serialized data.

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

Visual Basic

Dim info As SerializationInfo
Dim context As StreamingContext

Dim instance As New StorageServerException(info, context)
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Protected Sub New ( _
| info As SerializationInfo, _
| context As StreamingContext _ |
| ) |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>protected StorageServerException (</td>
</tr>
<tr>
<td>SerializationInfo info,</td>
</tr>
<tr>
<td>StreamingContext context</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>protected:</td>
</tr>
<tr>
<td>StorageServerException (</td>
</tr>
<tr>
<td>SerializationInfo^ info,</td>
</tr>
<tr>
<td>StreamingContext context</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

### Parameters

**info**
Type: `System.Runtime.Serialization.SerializationInfo`

The object that contains serialized data about the exception being thrown.
context
Type: `System.Runtime.Serialization.StreamingContext`

The `StreamingContext` object that contains contextual information about the source or destination.
Platforms

Development Platforms
See Also

Reference
StorageServerException Class
StorageServerException Members
Microsoft.WindowsAzure.StorageClient Namespace
StorageServerException Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✤ Equals</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>✤ GetBaseException</td>
<td>(Inherited from <strong>Exception</strong>)</td>
</tr>
<tr>
<td>✤ GetHashCode</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>✤ GetObjectData</td>
<td>Overridden. Sets the <strong>SerializationInfo</strong> object with additional exception information. (Inherited from <strong>Exception</strong>)</td>
</tr>
<tr>
<td>✤ GetType</td>
<td>(Inherited from <strong>Exception</strong>)</td>
</tr>
<tr>
<td>✤ ToString</td>
<td>Overridden. (Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
See Also

Reference
StorageServerException Class
Microsoft.WindowsAzure.StorageClient Namespace
StorageServerException Properties

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Properties (see also Protected Properties)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data</td>
<td>(Inherited from <code>Exception</code>)</td>
</tr>
<tr>
<td><strong>ErrorCode</strong></td>
<td>Gets the specific error code returned by the service.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <code>StorageException</code>)</td>
</tr>
<tr>
<td><strong>ExtendedErrorInformation</strong></td>
<td>Gets the extended error information returned by the service.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <code>StorageException</code>)</td>
</tr>
<tr>
<td><strong>HelpLink</strong></td>
<td>(Inherited from <code>Exception</code>)</td>
</tr>
<tr>
<td><strong>InnerException</strong></td>
<td>(Inherited from <code>Exception</code>)</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>(Inherited from <code>Exception</code>)</td>
</tr>
<tr>
<td><strong>Source</strong></td>
<td>(Inherited from <code>Exception</code>)</td>
</tr>
<tr>
<td><strong>StackTrace</strong></td>
<td>(Inherited from <code>Exception</code>)</td>
</tr>
<tr>
<td><strong>StatusCode</strong></td>
<td>Gets the HTTP status code that was returned by the service.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <code>StorageException</code>)</td>
</tr>
<tr>
<td><strong>TargetSite</strong></td>
<td>(Inherited from <code>Exception</code>)</td>
</tr>
</tbody>
</table>
### Protected Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRESULT</td>
<td>(Inherited from Exception)</td>
</tr>
</tbody>
</table>
**See Also**

**Reference**

StorageServerException Class
Microsoft.WindowsAzure.StorageClient Namespace
StorageServerException Events

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Protected Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SerializeObjectState</td>
<td>(Inherited from Exception)</td>
</tr>
</tbody>
</table>
See Also

Reference

StorageServerException Class
Microsoft.WindowsAzure.StorageClient Namespace
TableErrorCodeStrings Class

See Also  Members

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Provides error code strings that are specific to the Azure Table service.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
| Usage | Visual Basic |
## Syntax

<table>
<thead>
<tr>
<th></th>
<th>Visual Basic</th>
<th>C#</th>
<th>C++</th>
<th>J#</th>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Public</strong></td>
<td>Public NotInheritable Class TableErrorCodeStrings</td>
<td>public</td>
<td>public ref class TableErrorCodeStrings abstract sealed</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Class</strong></td>
<td></td>
<td>static</td>
<td>class</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TableErrorCodeStrings</strong></td>
<td></td>
<td>class</td>
<td>class</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Inheritance Hierarchy

System.Object
Microsoft.WindowsAzure.StorageClient.TableErrorCodeStrings
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

TableErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
Provides error code strings that are specific to the Azure Table service.

The following tables list the members exposed by the `TableErrorCodeStrings` type.
## Public Fields

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BatchOperationNotSupported</td>
<td>Batch operations are not supported for this operation type.</td>
</tr>
<tr>
<td>DuplicateKeyPropertySpecified</td>
<td>A duplicate key property was specified.</td>
</tr>
<tr>
<td>DuplicatePropertiesSpecified</td>
<td>A property is specified more than once.</td>
</tr>
<tr>
<td>EntityAlreadyExists</td>
<td>The specified entity already exists.</td>
</tr>
<tr>
<td>EntityNot Found</td>
<td>The specified entity was not found.</td>
</tr>
<tr>
<td>EntityTooLarge</td>
<td>The entity is larger than the maximum size permitted.</td>
</tr>
<tr>
<td>InvalidValueType</td>
<td>One or more value types are invalid.</td>
</tr>
<tr>
<td>JsonFormatNotSupported</td>
<td>JSON format is not supported.</td>
</tr>
<tr>
<td>MethodNotAllowed</td>
<td>The specified method is not allowed.</td>
</tr>
<tr>
<td>NotImplemented</td>
<td>The specified operation is not yet implemented.</td>
</tr>
<tr>
<td>OperatorInvalid</td>
<td>One or more specified operators are invalid.</td>
</tr>
<tr>
<td>PartitionKeyNotSpecified</td>
<td>The partition key was not specified.</td>
</tr>
<tr>
<td>PartitionKeyPropertyCannotBeUpdated</td>
<td>The partition key property cannot be updated.</td>
</tr>
<tr>
<td>PrimaryKeyPropertyIsInvalidType</td>
<td>The type of the primary key property is invalid.</td>
</tr>
<tr>
<td>PropertiesNeedValue</td>
<td>All properties must have values.</td>
</tr>
<tr>
<td>PropertyNameInvalid</td>
<td>The property name is invalid.</td>
</tr>
<tr>
<td>PropertyNameTooLong</td>
<td>The property name exceeds the</td>
</tr>
<tr>
<td>Error Code</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>------------------------------------------------------------------</td>
</tr>
<tr>
<td>PropertyValueTooLarge</td>
<td>The property value is larger than the maximum size permitted.</td>
</tr>
<tr>
<td>TableAlreadyExists</td>
<td>The specified table already exists.</td>
</tr>
<tr>
<td>TableBeingDeleted</td>
<td>The specified table is being deleted.</td>
</tr>
<tr>
<td>TableHasNoProperties</td>
<td>The specified table has no properties.</td>
</tr>
<tr>
<td>TableHasNoSuchProperty</td>
<td>The specified table has no such property.</td>
</tr>
<tr>
<td>TableNotFound</td>
<td>The specified table was not found.</td>
</tr>
<tr>
<td>TableServerOutOfMemory</td>
<td>The Table service server is out of memory.</td>
</tr>
<tr>
<td>TooManyProperties</td>
<td>The entity contains more properties than allowed.</td>
</tr>
<tr>
<td>UpdateConditionNotSatisfied</td>
<td>The specified update condition was not satisfied.</td>
</tr>
<tr>
<td>XMethodIncorrectCount</td>
<td>More than one X-HTTP-Method is specified.</td>
</tr>
<tr>
<td>XMethodIncorrectValue</td>
<td>The specified X-HTTP-Method is invalid.</td>
</tr>
<tr>
<td>XMethodNotUsingPost</td>
<td>The request uses X-HTTP-Method with an HTTP verb other than POST.</td>
</tr>
</tbody>
</table>

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See Also

Reference

TableErrorCodeStrings Class
Microsoft.WindowsAzure.StorageClient Namespace
<table>
<thead>
<tr>
<th>TableErrorCodeStrings Fields</th>
<th>See Also</th>
</tr>
</thead>
</table>

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Fields

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</tr>
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</tr>
<tr>
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<td>The specified entity was not found.</td>
</tr>
<tr>
<td>EntityTooLarge</td>
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</tr>
<tr>
<td>InvalidValueType</td>
<td>One or more value types are invalid.</td>
</tr>
<tr>
<td>JsonFormatNotSupported</td>
<td>JSON format is not supported.</td>
</tr>
<tr>
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</tbody>
</table>
| PropertyNameTooLong                | The property name exceeds the
<table>
<thead>
<tr>
<th>Error Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PropertyValueTooLarge</td>
<td>The property value is larger than the maximum size permitted.</td>
</tr>
<tr>
<td>TableAlreadyExists</td>
<td>The specified table already exists.</td>
</tr>
<tr>
<td>TableBeingDeleted</td>
<td>The specified table is being deleted.</td>
</tr>
<tr>
<td>TableHasNoProperties</td>
<td>The specified table has no properties.</td>
</tr>
<tr>
<td>TableHasNoSuchProperty</td>
<td>The specified table has no such property.</td>
</tr>
<tr>
<td>TableNotFoundException</td>
<td>The specified table was not found.</td>
</tr>
<tr>
<td>TableServerOutOfMemory</td>
<td>The Table service server is out of memory.</td>
</tr>
<tr>
<td>TooManyProperties</td>
<td>The entity contains more properties than allowed.</td>
</tr>
<tr>
<td>UpdateConditionNotSatisfied</td>
<td>The specified update condition was not satisfied.</td>
</tr>
<tr>
<td>XMethodIncorrectCount</td>
<td>More than one X-HTTP-Method is specified.</td>
</tr>
<tr>
<td>XMethodIncorrectValue</td>
<td>The specified X-HTTP-Method is invalid.</td>
</tr>
<tr>
<td>XMethodNotUsingPost</td>
<td>The request uses X-HTTP-Method with an HTTP verb other than POST.</td>
</tr>
</tbody>
</table>
See Also

Reference

TableErrorCodeStrings Class
Microsoft.WindowsAzure.StorageClient Namespace
Batch operations are not supported for this operation type.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim value As String
value = TableErrorCodeStrings.BatchOperationNotSupported
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Const BatchOperationNotSupported As String</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public const string BatchOperationNotSupported</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: literal String^ BatchOperationNotSupported</code></td>
</tr>
<tr>
<td>J#</td>
<td>-</td>
</tr>
<tr>
<td>JScript</td>
<td>-</td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference
TableErrorCodeStrings Class
TableErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
A duplicate key property was specified.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```visual-basic
Dim value As String
value = TableErrorCodeStrings.DuplicateKeyPropertySpecified
```
### Syntax

**Visual Basic**

```vbnet
Public Const DuplicateKeyPropertySpecified As String
```

**C#**

```cs
public const string DuplicateKeyPropertySpecified
```

**C++**

```cpp
public:
  literal String^ DuplicateKeyPropertySpecified
```

**J#**

```jsharp```

**JScript**

```jscript```
Platforms

Development Platforms
See Also

Reference

TableErrorCodeStrings Class
TableErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
A property is specified more than once.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim value As String

value = TableErrorCodeStrings.DuplicatePropertiesSpecified
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td>Public Const DuplicatePropertiesSpecified As <strong>String</strong></td>
</tr>
<tr>
<td>C#</td>
<td>public const <strong>string</strong> DuplicatePropertiesSpecified</td>
</tr>
<tr>
<td>C++</td>
<td>public: literal <strong>String</strong>^ DuplicatePropertiesSpecified</td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference
TableErrorCodeStrings Class
TableErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
TableErrorCodeStrings.EntityAlreadyExists Field

<table>
<thead>
<tr>
<th>Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
</tr>
</tbody>
</table>

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The specified entity already exists.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim value As String

value = TableErrorCodeStrings.EntityAlreadyExists
```
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Const EntityAlreadyExists As <em>String</em></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public const <em>string</em> EntityAlreadyExists</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public: literal <em>String</em> EntityAlreadyExists</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference
TableErrorCodeStrings Class
TableErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
The specified entity was not found.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim value As <strong>String</strong></td>
</tr>
<tr>
<td>value = <strong>TableErrorCodeStrings</strong>.EntityNotFound</td>
</tr>
</tbody>
</table>
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Const EntityNotFound As String</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public const string EntityNotFound</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: literal String^ EntityNotFound</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
 Platforms

 Development Platforms
See Also

Reference

TableErrorCodeStrings Class
TableErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The entity is larger than the maximum size permitted.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>
| Dim value As String  
value = TableErrorCodeStrings.EntityTooLarge |
**Syntax**

**Visual Basic**

Public Const EntityTooLarge As **String**

**C#**

public const **string** EntityTooLarge

**C++**

public: literal **String**^ EntityTooLarge

**J#**

**JScript**
Platforms

Development Platforms
See Also

Reference
TableErrorCodeStrings Class
TableErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
TableErrorCodeStrings.InvalidValueType Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

One or more value types are invalid.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dim value As <strong>String</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>value = <code>TableErrorCodeStrings.InvalidValueType</code></td>
</tr>
<tr>
<td>Syntax</td>
</tr>
<tr>
<td>--------</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Public Const InvalidValueType As <strong>String</strong></td>
</tr>
<tr>
<td><strong>C#</strong></td>
</tr>
<tr>
<td>public const <strong>string</strong> InvalidValueType</td>
</tr>
<tr>
<td><strong>C++</strong></td>
</tr>
<tr>
<td>public: literal <strong>String^</strong> InvalidValueType</td>
</tr>
<tr>
<td><strong>J#</strong></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference
TableErrorCodeStrings Class
TableErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
TableErrorCodeStrings.JsonFormatNotSupported Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

JSON format is not supported.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim value As String
value = TableErrorCodeStrings.JsonFormatNotSupported
```
## Syntax

### Visual Basic

```vbnet
Public Const JsonFormatNotSupported As String
```

### C#

```csharp
public const string JsonFormatNotSupported
```

### C++

```cpp
public: literal String^ JsonFormatNotSupported
```

### J#

```

```

### JScript

```

```
Platforms

Development Platforms
See Also

Reference
TableErrorCodeStrings Class
TableErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
TableErrorCodeStrings.MethodNotAllowed Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The specified method is not allowed.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim value As String
value = TableErrorCodeStrings.MethodNotAllowed
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Const MethodNotAllowed As String</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public const string MethodNotAllowed</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: literal String^ MethodNotAllowed</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference
TableErrorCodeStrings Class
TableErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
<table>
<thead>
<tr>
<th>Table ErrorCode Strings. NotImplemented Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
</tr>
</tbody>
</table>

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.]

The specified operation is not yet implemented.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim value As String

value = TableErrorCodeStrings.NotImplemented
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Const NotImplemented As String</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public const string NotImplemented</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: literal String^ NotImplemented</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference
TableErrorCodeStrings Class
TableErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
TableErrorCodeStrings.OperatorInvalid Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

One or more specified operators are invalid.

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

Visual Basic

Dim value As String

value = TableErrorCodeStrings.OperatorInvalid
## Syntax

**Visual Basic**

```vbnet
global Const operatorInvalid As String
```

**C#**

```csharp
global const string operatorInvalid
```

**C++**

```c++
global const literal String^ operatorInvalid
```

**J#**

```
```

**JScript**

```
```
 Platforms

 Development Platforms
See Also

Reference

TableErrorCodeStrings Class
TableErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
The partition key was not specified.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>
| Dim value As *String*
value = *TableErrorCodeStrings*.PartitionKeyNotSpecified
## Syntax

### Visual Basic

```
Public Const PartitionKeyNotSpecified As String
```

### C#

```
public const string PartitionKeyNotSpecified
```

### C++

```
public:
    literal String^ PartitionKeyNotSpecified
```

### J#

```
```

### JScript

```
```
Platforms

Development Platforms
See Also

Reference
TableErrorCodeStrings Class
TableErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
TableErrorCodeStrings.PartitionKeyPropertyCannotBeUpdated Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The partition key property cannot be updated.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim value As String

value = TableErrorCodeStrings.PartitionKeyPropertyCannotBeUpdated
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Const PartitionKeyPropertyCannotBeUpdated As String</code></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td><code>public const string PartitionKeyPropertyCannotBeUpdated</code></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><code>public: literal String^ PartitionKeyPropertyCannotBeUpdated</code></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference
TableErrorCodeStrings Class
TableErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
TableErrorCodeStrings.PrimaryKeyPropertyIsInvalidType Field

The type of the primary key property is invalid.

Namespace: Microsoft.WindowsAzure.StorageClient

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
**Usage**

**Visual Basic**

Dim value As *String*

value = *TableErrorCodeStrings*.PrimaryKeyPropertyIsInvalidType
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Const PrimaryKeyPropertyIsInvalidType As String</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public const string PrimaryKeyPropertyIsInvalidType</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: literal String^ PrimaryKeyPropertyIsInvalidType</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference
TableErrorCodeStrings Class
TableErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
| TableErrorCodeStrings.PropertiesNeedValue Field |
| See Also |

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

All properties must have values.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim value As String
value = TableErrorCodeStrings.PropertiesNeedValue
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td>Public Const PropertiesNeedValue As <strong>String</strong></td>
</tr>
<tr>
<td>C#</td>
<td>public const <strong>string</strong> PropertiesNeedValue</td>
</tr>
<tr>
<td>C++</td>
<td>public: literal <strong>String</strong> PropertiesNeedValue</td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference

TableErrorCodeStrings Class
TableErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The property name is invalid.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim value As String
value = TableErrorCodeStrings.PropertyNameInvalid
```
<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Const PropertyNameInvalid As String</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public const string PropertyNameInvalid</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: literal String^ PropertyNameInvalid</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
 Platforms

 Development Platforms
See Also

Reference
TableErrorCodeStrings Class
TableErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
TableErrorCodeStrings.PropertyNameTooLong Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The property name exceeds the maximum allowed length.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim value As String
value = TableErrorCodeStrings.PropertyNameTooLong
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Const PropertyNameTooLong As String</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public const string PropertyNameTooLong</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: literal String^ PropertyNameTooLong</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference
TableErrorCodeStrings Class
TableErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
TableErrorCodeStrings.PropertyValueTooLarge Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The property value is larger than the maximum size permitted.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim value As String
value = TableErrorCodesStrings.PropertyValueTooLarge
```
## Syntax

<table>
<thead>
<tr>
<th></th>
<th><strong>Visual Basic</strong></th>
<th><strong>C#</strong></th>
<th><strong>C++</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Public Const PropertyValueTooLarge As String</strong></td>
<td><strong>public const string</strong> PropertyValueTooLarge</td>
<td><strong>public: literal String^ PropertyValueTooLarge</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
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<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

**J#**

<table>
<thead>
<tr>
<th></th>
<th><strong>JScript</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<tr>
<td></td>
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<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**JScript**
 Platforms

 Development Platforms
See Also

Reference
TableErrorCodeStrings Class
TableErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
TableErrorCodeStrings.TableAlreadyExists Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The specified table already exists.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim value As String
value = TableErrorCodeStrings.TableAlreadyExists
```
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Const TableAlreadyExists As <strong>String</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public const <strong>string</strong> TableAlreadyExists</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: literal <strong>String</strong>^ TableAlreadyExists</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference

TableErrorCodeStrings Class
TableErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
The specified table is being deleted.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim value As String

value = TableErrorCodeStrings.TableBeingDeleted
```
<table>
<thead>
<tr>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Public Const TableBeingDeleted As <strong>String</strong></td>
</tr>
<tr>
<td><strong>C#</strong></td>
</tr>
<tr>
<td>public const <strong>string</strong> TableBeingDeleted</td>
</tr>
<tr>
<td><strong>C++</strong></td>
</tr>
<tr>
<td>public: literal <strong>String</strong>^ TableBeingDeleted</td>
</tr>
<tr>
<td><strong>J#</strong></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference
TableErrorCodeStrings Class
TableErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The specified table has no properties.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim value As String
value = TableErrorCodeStrings.TableHasNoProperties
```
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public Const TableHasNoProperties As <strong>String</strong></td>
<td></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public const <strong>string</strong> TableHasNoProperties</td>
<td></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td></td>
</tr>
<tr>
<td>public: literal <strong>String</strong>^ TableHasNoProperties</td>
<td></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference
TableErrorCodeStrings Class
TableErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
Table ErrorCode Strings Table Has No Such Property Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The specified table has no such property.

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

**Visual Basic**

Dim value As **String**

value = **TableErrorCodeStrings**.TableHasNoSuchProperty
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td>Public Const TableHasNoSuchProperty As String</td>
</tr>
<tr>
<td>C#</td>
<td>public const string TableHasNoSuchProperty</td>
</tr>
<tr>
<td>C++</td>
<td>public: literal String^ TableHasNoSuchProperty</td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference
TableErrorCodeStrings Class
TableErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
The specified table was not found.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>

Dim value As **String**

value = **TableErrorCodeStrings**.TableNotFound
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td><code>Public Const TableNameNotFound As String</code></td>
<td></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td><code>public const string TableNameNotFound</code></td>
<td></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td></td>
</tr>
<tr>
<td><code>public: literal String^ TableNameNotFound</code></td>
<td></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference
TableErrorCodeStrings Class
TableErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
The Table service server is out of memory.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Dim value As *String*  
value = *TableErrorCodeStrings.TableServerOutOfMemory* |
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Const TableServerOutOfMemory As String</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>public const string TableServerOutOfMemory</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>public: literal String^ TableServerOutOfMemory</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
<th></th>
</tr>
</thead>
</table>
Platforms

Development Platforms
See Also

Reference
TableErrorCodeStrings Class
TableErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
TableErrorCodeStrings.TooManyProperties Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The entity contains more properties than allowed.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim value As String
value = TableErrorCodeStrings.TooManyProperties
```
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public Const TooManyProperties As String</td>
<td></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public const string TooManyProperties</td>
<td></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td></td>
</tr>
<tr>
<td>public: literal String^ TooManyProperties</td>
<td></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference
TableErrorCodeStrings Class
TableErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
The specified update condition was not satisfied.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

Dim `value` As `String`  

`value = TableErrorCodeStrings.UpdateConditionNotSatisfied`
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public Const UpdateConditionNotSatisfied As <strong>String</strong></td>
<td></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public const <strong>string</strong> UpdateConditionNotSatisfied</td>
<td></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td></td>
</tr>
<tr>
<td>public: literal <strong>String^</strong> UpdateConditionNotSatisfied</td>
<td></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
 Platforms

 Development Platforms
See Also

Reference
- TableErrorCodeStrings Class
- TableErrorCodeStrings Members
- Microsoft.WindowsAzure.StorageClient Namespace
Table ErrorCodeStrings.XMethodIncorrectCount Field

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

More than one X-HTTP-Method is specified.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim value As String
value = TableErrorCodeStrings.XMethodIncorrectCount
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Const XMethodIncorrectCount As String</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public const string XMethodIncorrectCount</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: literal String^ XMethodIncorrectCount</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference
TableErrorCodeStrings Class
TableErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The specified X-HTTP-Method is invalid.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim value As String

value = TableErrorCodeStrings.XMethodIncorrectValue
### Syntax

<table>
<thead>
<tr>
<th><strong>Visual Basic</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Const XMethodIncorrectValue As <em>String</em></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>C#</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>public const <em>string</em> XMethodIncorrectValue</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>C++</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>public: literal <em>String ^</em> XMethodIncorrectValue</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>J#</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>JScript</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference

TableErrorCodeStrings Class
TableErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
The request uses X-HTTP-Method with an HTTP verb other than POST.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim value As String</td>
</tr>
<tr>
<td>value = TableErrorCodeStrings.XMethodNotUsingPost</td>
</tr>
</tbody>
</table>
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Const XMethodNotUsingPost As <strong>String</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public const <strong>string</strong> XMethodNotUsingPost</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: literal <strong>String^</strong> XMethodNotUsingPost</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>
Platforms

**Development Platforms**

See Also

Reference
TableErrorCodeStrings Class
TableErrorCodeStrings Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a **DataServiceContext** object for use with the Windows Azure Table service.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Dim instance As <strong>TableServiceContext</strong></td>
<td></td>
</tr>
</tbody>
</table>
## Syntax

### Visual Basic

```vbnet
Public Class TableServiceContext
    Inherits DataServiceContext
```

### C#

```csharp
public class TableServiceContext : DataServiceContext
```

### C++

```cpp
public ref class TableServiceContext : public DataServiceContext
```

### J#

```jscript
```

### JScript

```jscript
```
Inheritance Hierarchy

System.Object
  Microsoft.WindowsAzure.StorageClient.TableServiceContext
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
TableServiceContext Members
Microsoft.WindowsAzure.StorageClient Namespace
Represents a **DataServiceContext** object for use with the Windows Azure Table service.

The following tables list the members exposed by the **TableServiceContext** type.
### Public Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TableServiceContext</td>
<td>Initializes a new instance of the TableServiceContext class.</td>
</tr>
</tbody>
</table>

[Top](#)
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ApplyingChanges</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>BaseUri</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>Credentials</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>DataNamespace</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>Entities</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>IgnoreMissingProperties</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>IgnoreResourceNotFoundException</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>Links</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>MergeOption</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>ResolveName</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>ResolveType</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>RetryPolicy</td>
<td>Gets or sets the retry policy for requests made via the service context.</td>
</tr>
<tr>
<td>SaveChangesDefaultOptions</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>StorageCredentials</td>
<td>Gets the storage account credentials used by this TableServiceContext object.</td>
</tr>
<tr>
<td>Timeout</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>Property</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>TypeScheme</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>UsePostTunneling</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>Name</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
<td>-------------</td>
</tr>
<tr>
<td>AddLink</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>AddObject</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>AddRelatedObject</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>AttachLink</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>AttachTo</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>AttachTo</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>BeginExecute</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>BeginExecute</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>BeginExecuteBatch</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>BeginGetReadStream</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>BeginLoadProperty</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>BeginLoadProperty</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>BeginLoadProperty</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>BeginSaveChanges</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>BeginSaveChanges</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>BeginSaveChanges</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>CancelRequest</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>CreateQuery</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>DeleteLink</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>DeleteObject</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>Detach</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>DetachLink</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>EndExecute</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>EndExecuteBatch</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>EndGetReadStream</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>EndLoadProperty</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>EndSaveChanges</td>
<td>(Inherited from DataServiceContext)</td>
</tr>
<tr>
<td>EndSaveChangesWithRetries</td>
<td>Ends an asynchronous operation to save changes to the Table service, using the</td>
</tr>
</tbody>
</table>
retry policy specified for the \texttt{TableServiceContext} object.

<table>
<thead>
<tr>
<th>Member</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from \texttt{Object})</td>
</tr>
<tr>
<td>Execute</td>
<td>(Inherited from \texttt{DataServiceContext})</td>
</tr>
<tr>
<td>Execute</td>
<td>(Inherited from \texttt{DataServiceContext})</td>
</tr>
<tr>
<td>ExecuteBatch</td>
<td>(Inherited from \texttt{DataServiceContext})</td>
</tr>
<tr>
<td>GetEntityDescriptor</td>
<td>(Inherited from \texttt{DataServiceContext})</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from \texttt{Object})</td>
</tr>
<tr>
<td>GetLinkDescriptor</td>
<td>(Inherited from \texttt{DataServiceContext})</td>
</tr>
<tr>
<td>GetMetadataUri</td>
<td>(Inherited from \texttt{DataServiceContext})</td>
</tr>
<tr>
<td>GetReadStream</td>
<td>(Inherited from \texttt{DataServiceContext})</td>
</tr>
<tr>
<td>GetReadStream</td>
<td>(Inherited from \texttt{DataServiceContext})</td>
</tr>
<tr>
<td>GetReadStream</td>
<td>(Inherited from \texttt{DataServiceContext})</td>
</tr>
<tr>
<td>GetReadStreamUri</td>
<td>(Inherited from \texttt{DataServiceContext})</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from \texttt{Object})</td>
</tr>
<tr>
<td>LoadProperty</td>
<td>(Inherited from \texttt{DataServiceContext})</td>
</tr>
<tr>
<td>LoadProperty</td>
<td>(Inherited from \texttt{DataServiceContext})</td>
</tr>
<tr>
<td>LoadProperty</td>
<td>(Inherited from \texttt{DataServiceContext})</td>
</tr>
<tr>
<td>LoadProperty</td>
<td>(Inherited from \texttt{DataServiceContext})</td>
</tr>
<tr>
<td>SaveChanges</td>
<td>(Inherited from \texttt{DataServiceContext})</td>
</tr>
<tr>
<td>SaveChanges</td>
<td>(Inherited from \texttt{DataServiceContext})</td>
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See Also

Reference
TableServiceContext Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the TableServiceContext class.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim baseAddress As String
Dim credentials As StorageCredentials

Dim instance As New TableServiceContext(baseAddress,
### Syntax

#### Visual Basic

```vbnet
Public Sub New ( _
    baseAddress As String, _
    credentials As StorageCredentials _
)
```

#### C#

```csharp
public TableServiceContext (  
    string baseAddress,
    StorageCredentials credentials
)
```

#### C++

```cpp
public:
TableServiceContext (  
    String^ baseAddress,
    StorageCredentials^ credentials
)
```

#### J#

```
```

#### JScript

```
```

### Parameters

*baseAddress*

Type: `System.String`

The Table service endpoint to use create the service context.
credentials
Type: Microsoft.WindowsAzure.StorageCredentials
The account credentials.
Platforms

Development Platforms
See Also

Reference
TableServiceContext Class
TableServiceContext Members
Microsoft.WindowsAzure.StorageClient Namespace
TableServiceContext Methods
See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<td><strong>EndSaveChangesWithRetries</strong></td>
<td>Ends an asynchronous operation to save changes to the Table service, using the</td>
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retry policy specified for the `TableServiceContext` object.

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### Protected Methods

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See Also

Reference

TableServiceContext Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
<table>
<thead>
<tr>
<th>Name</th>
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<tr>
<td><code>TableServiceContext.BeginSaveChangesWithRetries(AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to save changes to the Table service, using the retry policy specified for the <code>TableServiceContext</code> object.</td>
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<tr>
<td><code>TableServiceContext.BeginSaveChangesWithRetries(SaveChangesOptions, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to save changes to the Table service, using the retry policy specified for the <code>TableServiceContext</code> object, and a set of specified additional options for saving changes.</td>
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See Also

Reference

TableServiceContext Class
TableServiceContext Members
Microsoft.WindowsAzure.StorageClient Namespace
Begins an asynchronous operation to save changes to the Table service, using the retry policy specified for the TableServiceContext object.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As TableServiceContext
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginSaveChangesWithRetries(callback, state, null, null, null, null, null, null, null, null)
### Syntax

#### Visual Basic

Public Function BeginSaveChangesWithRetries ( _
    callback As AsyncCallback, _
    state As Object _
) As IAsyncResult

#### C#

public IAsyncResult BeginSaveChangesWithRetries ( _
    AsyncCallback callback,
    Object state
)

#### C++

public:
IAsyncResult^ BeginSaveChangesWithRetries ( _
    AsyncCallback^ callback,
    Object^ state
)

#### J#

#### JScript

### Parameters

*callback*

Type: System.AsyncCallback

The callback delegate that will receive notification when the asynchronous operation completes.
**state**

Type: **System.Object**

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: **System.IAsyncResult**

An **IAsyncResult** that references the asynchronous operation.
Remarks

The `BeginSaveChangesWithRetries` method asynchronously performs an operation to save changes to a Table, in the same manner as the `SaveChanges` method, with the addition of retries as specified by the `RetryPolicy` property.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
TableServiceContext Class
TableServiceContext Members
Microsoft.WindowsAzure.StorageClient Namespace
TableServiceContext.BeginSaveChangesWithRetries Method (SaveChangesOptions, AsyncCallback, Object)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Begins an asynchronous operation to save changes to the Table service, using the retry policy specified for the TableServiceContext object, and a set of specified additional options for saving changes.

Namespace: Microsoft.WindowsAzure.StorageClient
Usage

Visual Basic

Dim instance As TableServiceContext
Dim options As SaveChangesOptions
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginSaveChangesWithRetries(options)
### Syntax

#### Visual Basic

```vbnet
Public Function BeginSaveChangesWithRetries ( _
options As SaveChangesOptions, _
callback As AsyncCallback, _
state As Object _
) As IAsyncResult
```

#### C#

```cs
public IAsyncResult BeginSaveChangesWithRetries ( 
    SaveChangesOptions options, 
    AsyncCallback callback, 
    Object state
)
```

#### C++

```cpp
public: 
IAsyncResult^ BeginSaveChangesWithRetries ( 
    SaveChangesOptions options, 
    AsyncCallback^ callback, 
    Object^ state
)
```

#### J#

```jsharp```

#### JScript

```jscript```

### Parameters

- **options**
Type: `System.Data.Services.Client.SaveChangesOptions`

An object of type `SaveChangesOptions` that specifies additional options for saving changes.

`callback`
Type: `System.AsyncCallback`

The callback delegate that will receive notification when the asynchronous operation completes.

`state`
Type: `System.Object`

A user-defined object that will be passed to the callback delegate.

**Return Value**

Type: `System.IAsyncResult`

An `IAsyncResult` that references the asynchronous operation.
Remarks

The BeginSaveChangesWithRetries method synchronously performs an operation to save changes to a Table, in the same manner as the SaveChanges method, with the addition of retries as specified by the RetryPolicy property.
- **Thread Safety**

  Any public static (**Shared** in Visual Basic) members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
TableServiceContext Class
TableServiceContext Members
Microsoft.WindowsAzure.StorageClient Namespace
TableServiceContext.EndSaveChangesWithRetries Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Ends an asynchronous operation to save changes to the Table service, using the retry policy specified for the TableServiceContext object.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As TableServiceContext
Dim asyncResult As IAsyncResult
Dim returnValue As DataServiceResponse

returnValue = instance.EndSaveChangesWithRetries(asyncResult)
```
**Syntax**

**Visual Basic**

Public Function EndSaveChangesWithRetries (_
    asyncResult As IAsyncResult _
) As DataServiceResponse

**C#**

public DataServiceResponse EndSaveChangesWithRetries (IAsyncResult asyncResult)

**C++**

public: 
DataServiceResponse^ EndSaveChangesWithRetries (IAsyncResult^ asyncResult)

**J#**

**JScript**

**Parameters**

*asyncResult*

An **IAsyncResult** that references the pending asynchronous operation.

**Return Value**

Type: **System.Data.Services.Client.DataServiceResponse**
A **DataServiceResponse** that represents the result of the operation.
- **Thread Safety**

  Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
TableServiceContext Class
TableServiceContext Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<td>Saves changes to the Table service, using the retry policy specified for the <code>TableServiceContext</code> object.</td>
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<tr>
<td><code>TableServiceContext.SaveChangesWithRetries(SaveChangesOptions)</code></td>
<td>Saves changes to the Table service, using the retry policy specified for the <code>TableServiceContext</code> object, and a set of specified additional options for saving changes.</td>
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See Also

Reference
TableServiceContext Class
TableServiceContext Members
Microsoft.WindowsAzure.StorageClient Namespace
Saves changes to the Table service, using the retry policy specified for the `TableServiceContext` object.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

### Visual Basic

```vbnet
Dim instance As TableServiceContext
Dim returnValue As DataServiceResponse

returnValue = instance.SaveChangesWithRetries
```
### Syntax

<table>
<thead>
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</table>
| Visual Basic | ```
Public Function SaveChangesWithRetries As DataServiceResponse() ``` |
| C#          | ```
public DataServiceResponse SaveChangesWithRetries () ``` |
| C++         | ```
public: DataServiceResponse^ SaveChangesWithRetries () ``` |
| J#          | --                                        |
| JScript     | --                                        |

### Return Value


A **DataServiceResponse** that represents the result of the operation.
The following code example inserts an entity into a table.

```csharp
public static void InsertContact(CloudTableClient tableClient, string firstName, string lastName, string email, string cellPhone, string homePhone, string streetAddress, string city, string state, string zipCode)
{
    // Get data context.
    TableServiceContext context = tableClient.GetDataServiceContext();

    // Create the new entity.
    ContactEntity entity = new ContactEntity();

    // Partition key is first letter of contact's first name.
    entity.PartitionKey = firstName.Substring(0, 1).ToUpper();

    // Row key is value of first name, with GUID appended to avoid conflicts in case where two first names are the same.
    entity.RowKey = firstName + "_" + Guid.NewGuid().ToString();

    // Populate the other properties.
    entity.FirstName = firstName;
    entity.LastName = lastName;
    entity.Email = email;
    entity.CellPhone = cellPhone;
    entity.HomePhone = homePhone;
    entity.StreetAddress = streetAddress;
    entity.City = city;
    entity.State = state;
    entity.ZipCode = zipCode;

    // Add the entity.
    context.AddObject(tableName, entity);

    // Save changes to the service.
    context.SaveChangesWithRetries();
}
```
public class ContactEntity : TableServiceEntity
{
    public ContactEntity()
    {
    }

    public string FirstName { get; set; }
    public string LastName { get; set; }
    public string Email { get; set; }
    public string HomePhone { get; set; }
    public string CellPhone { get; set; }
    public string StreetAddress { get; set; }
    public string City { get; set; }
    public string State { get; set; }
    public string ZipCode { get; set; }
}
Remarks

The SaveChangesWithRetries method behaves in the same manner as the SaveChanges method, with the addition of retries as specified by the RetryPolicy property.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
TableServiceContext Class
TableServiceContext Members
Microsoft.WindowsAzure.StorageClient Namespace
TableServiceContext.SaveChangesWithRetries Method (SaveChangesOptions)

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Saves changes to the Table service, using the retry policy specified for the TableServiceContext object, and a set of specified additional options for saving changes.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As TableServiceContext  
Dim options As SaveChangesOptions  
Dim returnValue As DataServiceResponse

returnValue = instance.SaveChangesWithRetries(options)
Syntax

Visual Basic

Public Function SaveChangesWithRetries ( _
    options As SaveChangesOptions _
) As DataServiceResponse

C#

public DataServiceResponse SaveChangesWithRetries ( 
    SaveChangesOptions options
)

C++

public:
    DataServiceResponse^ SaveChangesWithRetries ( 
    SaveChangesOptions options
)

J#

JScript

Parameters

options
    Type: System.Data.Services.Client.SaveChangesOptions

    An object of type SaveChangesOptions that specifies additional options for saving changes to the Table service.

Return Value

A `DataServiceResponse` that represents the result of the operation.
The following code example takes a `DataTable` object and writes the data in it to a table, using batch operations.

```csharp
public static void BulkInsertContacts(DataTable dt) {
    // Ensure that the data table will be filtered case-insensitively.
    dt.CaseSensitive = false;

    // Add the data to the Contacts table using batch operations.
    // whose first name starts with the same letter of the alphabet.
    for (char c = 'A'; c <= 'Z'; c++)
    {
        // Select all rows where FirstName begins with the same letter.
        DataRow[] rows = dt.Select("FirstName LIKE '\" + c.ToString() + \'\'",
                                 "FirstName ASC");

        // Get data context.
        TableServiceContext context = tableClient.GetDataServiceContext();

        int i = 0;

        // Create and add each entity.
        foreach (DataRow row in rows)
        {
            ContactEntity contact = new ContactEntity();
            contact.FirstName = row["FirstName"].ToString();
            contact.LastName = dt.Columns.Contains("LastName") ? row["LastName"].ToString() : string.Empty;
            contact.Email = dt.Columns.Contains("Email") ? row["Email"].ToString() : string.Empty;
            contact.HomePhone = dt.Columns.Contains("HomePhone") ? row["HomePhone"].ToString() : string.Empty;
            contact.StreetAddress = dt.Columns.Contains("StreetAddress") ? row["StreetAddress"].ToString() : string.Empty;
            contact.City = dt.Columns.Contains("City") ? row["City"].ToString() : string.Empty;

            // Insert the entity.
            context.Create(contact);
        }
    }
}
```

contact.PartitionKey = c.ToString();
contact.RowKey = contact.FirstName + "_" + Guid.NewGuid().ToString();

// Add the entity.
context.AddObject("Contacts", contact);

// Increment the counter.
i++;

// Batch supports only 100 transactions at a time,
// submit the transaction and keep going if we hit 100 records for this partition.
if (i == 100)
{
    // Save changes, using the Batch option.
    context.SaveChangesWithRetries(System.Data.Services.Client.SaveChangesOptions.Batch);

    // Reset the counter.
i = 0;
}

// Save changes, using the Batch option.
context.SaveChangesWithRetries(System.Data.Services.Client.SaveChangesOptions.Batch);

public class ContactEntity : TableServiceEntity
{
    public ContactEntity()
    {
    }

    public string FirstName { get; set; }
    public string LastName { get; set; }
    public string Email { get; set; }
    public string HomePhone { get; set; }
    public string CellPhone { get; set; }
    public string StreetAddress { get; set; }
}
public string City { get; set; }
public string State { get; set; }
public string ZipCode { get; set; }
}
Remarks

The `SaveChangesWithRetries` method behaves in the same manner as the `SaveChanges` method, with the addition of retries as specified by the `RetryPolicy` property.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
Change History
See Also

Reference
TableServiceContext Class
TableServiceContext Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

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<th>Description</th>
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</tr>
<tr>
<td><code>BaseUri</code></td>
<td>(Inherited from <code>DataServiceContext</code>)</td>
</tr>
<tr>
<td><code>Credentials</code></td>
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<td><code>DataNamespace</code></td>
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<tr>
<td><code>Entities</code></td>
<td>(Inherited from <code>DataServiceContext</code>)</td>
</tr>
<tr>
<td><code>IgnoreMissingProperties</code></td>
<td>(Inherited from <code>DataServiceContext</code>)</td>
</tr>
<tr>
<td><code>IgnoreResourceNotFoundException</code></td>
<td>(Inherited from <code>DataServiceContext</code>)</td>
</tr>
<tr>
<td><code>Links</code></td>
<td>(Inherited from <code>DataServiceContext</code>)</td>
</tr>
<tr>
<td><code>MergeOption</code></td>
<td>(Inherited from <code>DataServiceContext</code>)</td>
</tr>
<tr>
<td><code>ResolveName</code></td>
<td>(Inherited from <code>DataServiceContext</code>)</td>
</tr>
<tr>
<td><code>ResolveType</code></td>
<td>(Inherited from <code>DataServiceContext</code>)</td>
</tr>
<tr>
<td><code>RetryPolicy</code></td>
<td>Gets or sets the retry policy for requests made via the service context.</td>
</tr>
<tr>
<td><code>SaveChangesDefaultOptions</code></td>
<td>(Inherited from <code>DataServiceContext</code>)</td>
</tr>
<tr>
<td><code>StorageCredentials</code></td>
<td>Gets the storage account credentials used by this <code>TableServiceContext</code> object.</td>
</tr>
<tr>
<td><code>Timeout</code></td>
<td>(Inherited from <code>DataServiceContext</code>)</td>
</tr>
<tr>
<td>Feature</td>
<td>Description</td>
</tr>
<tr>
<td>------------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>TypeScheme</td>
<td>(Inherited from <code>DataServiceContext</code>)</td>
</tr>
<tr>
<td>UsePostTunneling</td>
<td>(Inherited from <code>DataServiceContext</code>)</td>
</tr>
</tbody>
</table>
See Also

Reference
- TableServiceContext Class
- Microsoft.WindowsAzure.StorageClient Namespace
Gets or sets the retry policy for requests made via the service context.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As TableServiceContext
Dim value As RetryPolicy

value = instance.RetryPolicy

instance.RetryPolicy = value
```
## Syntax

### Visual Basic

Public Property RetryPolicy As **RetryPolicy**

### C#

```csharp
public **RetryPolicy** RetryPolicy { get; set; }
```

### C++

```cpp
public:
property **RetryPolicy**^ RetryPolicy {
    **RetryPolicy**^ get ();
    void set (**RetryPolicy**^ value);
}
```

### J#

(J# content not provided)

### JScript

(JScript content not provided)

## Property Value


The retry policy.
Remarks

To set the retry policy for requests made via this TableServiceContext object, set the RetryPolicy property to a delegate of type RetryPolicy. The retry policy delegate may be one of the policies returned by the methods provided by the RetryPolicies class, or it may be a custom retry policy delegate that you define.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
TableServiceContext Class
TableServiceContext Members
Microsoft.WindowsAzure.StorageClient Namespace
Gets the storage account credentials used by this TableServiceContext object.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Visual Basic

```vbnet
Dim instance As TableServiceContext
Dim value As StorageCredentials

value = instance.StorageCredentials
```
### Syntax

**Visual Basic**

```vbnet
Public Property StorageCredentials As StorageCredentials
```

**C#**

```csharp
public StorageCredentials StorageCredentials { get; }
```

**C++**

```cpp
public:
property StorageCredentials^ StorageCredentials { StorageCredentials^ get ();
}
```

**J#**

```java

```

**JScript**

```js

```

### Property Value

Type: [Microsoft.WindowsAzure.StorageCredentials](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storagecredentials)

The account credentials.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
TableServiceContext Class
TableServiceContext Members
Microsoft.WindowsAzure.StorageClient Namespace
<table>
<thead>
<tr>
<th>TableServiceContext Events</th>
</tr>
</thead>
</table>

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ReadingEntity</td>
<td>(Inherited from <code>DataServiceContext</code>)</td>
</tr>
<tr>
<td>SendingRequest</td>
<td>(Inherited from <code>DataServiceContext</code>)</td>
</tr>
<tr>
<td>WritingEntity</td>
<td>(Inherited from <code>DataServiceContext</code>)</td>
</tr>
</tbody>
</table>
See Also

Reference

TableServiceContext Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents an entity in a Windows Azure table.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim instance As <em>TableServiceEntity</em></td>
</tr>
</tbody>
</table>
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>&lt;DataServiceKeyAttribute(System.String[])&gt; _&lt;CLSCompliantAttribute(False)&gt; _Public MustInherit Class TableServiceEntity</code></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>[DataServiceKeyAttribute(System.String[])] [CLSCompliantAttribute(false)] public abstract class TableServiceEntity</code></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>[DataServiceKeyAttribute(System.String[])] [CLSCompliantAttribute(false)] public ref class TableServiceEntity abstract</code></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>
Inheritance Hierarchy

System.Object
     Microsoft.WindowsAzure.StorageClient.TableServiceEntity
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
TableServiceEntity Members
Microsoft.WindowsAzure.StorageClient Namespace
TableServiceEntity Members

See Also  Methods  Properties  Constructors

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents an entity in a Windows Azure table.

The following tables list the members exposed by the TableServiceEntity type.
## Protected Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TableServiceEntity</td>
<td>Overloaded.</td>
</tr>
</tbody>
</table>

[Top](#)
**Public Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PartitionKey</td>
<td>Gets or sets the partition key of a table entity.</td>
</tr>
<tr>
<td>RowKey</td>
<td>Gets or sets the row key of a table entity.</td>
</tr>
<tr>
<td>Timestamp</td>
<td>Gets the timestamp for the entity.</td>
</tr>
</tbody>
</table>
## Public Methods (see also [Protected Methods](#))

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Equals</code></td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
<tr>
<td><code>GetHashCode</code></td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
<tr>
<td><code>GetType</code></td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
<tr>
<td><code>ToString</code></td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
</tbody>
</table>
# Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Finalize</code></td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
<tr>
<td><code>MemberwiseClone</code></td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
</tbody>
</table>

[Top]
See Also

Reference
TableServiceEntity Class
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>TableServiceEntity ()</code></td>
<td>Initializes a new instance of the <a href="#">TableServiceEntity</a> class.</td>
</tr>
<tr>
<td><code>TableServiceEntity (String, String)</code></td>
<td>Initializes a new instance of the <a href="#">TableServiceEntity</a> Class using a partition key and a row key.</td>
</tr>
</tbody>
</table>
See Also

Reference
TableServiceEntity Class
TableServiceEntity Members
Microsoft.WindowsAzure.StorageClient Namespace
TableServiceEntity Constructor ()

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the TableServiceEntity class.

Namespace: Microsoft.WindowsAzure.StorageClient
### Usage

**Visual Basic**

```vbnet
Dim instance As New TableServiceEntity
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td>Protected Sub New</td>
</tr>
<tr>
<td>C#</td>
<td>protected TableServiceEntity ()</td>
</tr>
<tr>
<td>C++</td>
<td>protected: TableServiceEntity ()</td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Remarks

The default constructor initializes any fields to their default values.
Platforms

Development Platforms
See Also

Reference
TableServiceEntity Class
TableServiceEntity Members
Microsoft.WindowsAzure.StorageClient Namespace
TableServiceEntity Constructor (String, String)
See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the TableServiceEntity Class using a partition key and a row key.

Namespace: Microsoft.WindowsAzure.StorageClient  
**Usage**

**Visual Basic**

```vbnet
Dim partitionKey As String
Dim rowKey As String

Dim instance As New TableServiceEntity(partitionKey,
```

```vbnet
```
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Protected Sub New ( _
| partitionKey As String, _
| rowKey As String _
| ) |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>protected TableServiceEntity (</td>
</tr>
<tr>
<td>string partitionKey,</td>
</tr>
<tr>
<td>string rowKey</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>protected:</td>
</tr>
<tr>
<td>TableServiceEntity (</td>
</tr>
<tr>
<td>String^ partitionKey,</td>
</tr>
<tr>
<td>String^ rowKey</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>

### Parameters

*partitionKey*

Type: `System.String`

The partition key.
*rowKey*

Type: `System.String`

The row key.
Platforms

Development Platforms
See Also

Reference

[TableServiceEntity Class](#)
[TableServiceEntity Members](#)
[Microsoft.WindowsAzure.StorageClient Namespace](#)
TableServiceEntity Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
Public Methods (see also **Protected Methods**)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
See Also

Reference
TableServiceEntity Class
Microsoft.WindowsAzure.StorageClient Namespace
<table>
<thead>
<tr>
<th>TableServiceEntity Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
</tr>
</tbody>
</table>

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PartitionKey</td>
<td>Gets or sets the partition key of a table entity.</td>
</tr>
<tr>
<td>RowKey</td>
<td>Gets or sets the row key of a table entity.</td>
</tr>
<tr>
<td>Timestamp</td>
<td>Gets the timestamp for the entity.</td>
</tr>
</tbody>
</table>
See Also

Reference
TableServiceEntity Class
Microsoft.WindowsAzure.StorageClient Namespace
**TableServiceEntity.PartitionKey Property**

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the partition key of a table entity.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As TableServiceEntity
Dim value As String

value = instance.PartitionKey

instance.PartitionKey = value
```
### Syntax

**Visual Basic**

Public Overridable Property PartitionKey As String

**C#**

```csharp
public virtual string PartitionKey { get; set; }
```

**C++**

```cpp
public:
virtual property String^ PartitionKey {
    String^ get ();
    void set (String^ value);
}
```

**J#**

```

```

**JScript**

```

```

### Property Value

Type: System.String

The partition key.
Remarks

The concatenation of the partition key and row key form the primary key for an entity, and so must be unique within the table.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
TableServiceEntity Class
TableServiceEntity Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the row key of a table entity.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As TableServiceEntity
Dim value As String

value = instance.RowKey

instance.RowKey = value
```
Syntax

Visual Basic

Public Overridable Property RowKey As String

C#

public virtual string RowKey { get; set; }

C++

public:
virtual property String^ RowKey {
    String^ get ();
    void set (String^ value);
}

J#

JScript

Property Value

Type: System.String

The row key.
Remarks

The concatenation of the partition key and row key form the primary key for an entity, and so must be unique within the table.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
TableServiceEntity Class
TableServiceEntity Members
Microsoft.WindowsAzure.StorageClient Namespace
### TableServiceEntity.Timestamp Property

**See Also**

This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.

- Gets the timestamp for the entity.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As TableServiceEntity
Dim value As DateTime

value = instance.Timestamp

instance.Timestamp = value
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td>Public Property Timestamp As DateTime</td>
</tr>
<tr>
<td>C#</td>
<td>public DateTime Timestamp { get; set; }</td>
</tr>
</tbody>
</table>
| C++ | public: property DateTime Timestamp {
  DateTime get ()
  void set (DateTime value);
} |
| J# | |
| JScript | Property Value |

### Property Value

**Type:** System.DateTime

The entity's timestamp.
Remarks

Setting this property has no effect.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

TableServiceEntity Class
TableServiceEntity Members
Microsoft.WindowsAzure.StorageClient Namespace
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Provides a set of extensions for the Table service.

**Namespace:** Microsoft.WindowsAzure.StorageClient  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

<table>
<thead>
<tr>
<th>Visual Basic</th>
<th></th>
</tr>
</thead>
</table>


## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>&lt;ExtensionAttribute&gt; _</code></td>
</tr>
<tr>
<td>Public NotInheritable Class TableServiceExtensionMethods</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>[ExtensionAttribute]</code></td>
</tr>
<tr>
<td>public static class TableServiceExtensionMethods</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>[ExtensionAttribute]</code></td>
</tr>
<tr>
<td>public ref class TableServiceExtensionMethods abstract</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>
Inheritance Hierarchy

System.Object
Microsoft.WindowsAzure.StorageClient.TableServiceExtensionMethods
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
TableServiceExtensionMethods Members
Microsoft.WindowsAzure.StorageClient Namespace
Provides a set of extensions for the Table service.

The following tables list the members exposed by the `TableServiceExtensionMethods` type.
### Public Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AsTableServiceQuery</td>
<td>Converts a query of type <a href="#">DataServiceQuery</a> to a CloudTableQuery object that handles continuation tokens and retries failed calls to the Table service.</td>
</tr>
</tbody>
</table>

[Top](#)
See Also

Reference
TableServiceExtensionMethods Class
Microsoft.WindowsAzure.StorageClient Namespace
| TableServiceExtensionMethods Methods |
| See Also |

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
**Public Methods**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AsTableServiceQuery</td>
<td>Converts a query of type <a href="#">DataServiceQuery</a> to a <a href="#">CloudTableQuery</a> object that handles continuation tokens and retries failed calls to the Table service.</td>
</tr>
</tbody>
</table>
See Also

Reference
TableServiceExtensionMethods Class
Microsoft.WindowsAzure.StorageClient Namespace
TableServiceExtensionMethods.AsTableServiceQuery Method

See Also  Example

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Converts a query of type DataServiceQuery to a CloudTableQuery object that handles continuation tokens and retries failed calls to the Table service.

Namespace: Microsoft.WindowsAzure.StorageClient
**Usage**

**Visual Basic**

```vbnet
Dim query As **IQueryable(Of TElement)**
Dim returnValue As **CloudTableQuery(Of TElement)**

returnValue = **TableServiceExtensionMethods.AsTableServiceQuery**
```
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| `<ExtensionAttribute> _
Public Shared Function AsTableServiceQuery(Of TElement) ( _
    query As `IQueryable(Of TElement) _
) As CloudTableQuery(Of TElement) |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
</table>
| `[ExtensionAttribute]
public static `CloudTableQuery<TElement> AsTableServiceQuery(`IQueryable<TElement> query |

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| `[ExtensionAttribute]
public:
generic<typename TElement>
static `CloudTableQuery<TElement>^ AsTableServiceQuery(`IQueryable<TElement>^ query |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GenericParameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>TElement</td>
</tr>
</tbody>
</table>
The type of the element.

**Parameters**

*query*

Type: `System.Linq.IQueryable`

A `DataServiceQuery` object.

**Return Value**

Type: `Microsoft.WindowsAzure.StorageClient.CloudTableQuery`

A `CloudTableQuery` object.
The following code example queries entities using a simulated LIKE clause.

```csharp
// Get contacts filtered by prefix.
public static List<ContactEntity> GetContactsByPrefix(string prefix)
{
    // Get data context.
    TableServiceContext context = tableClient.GetDataServiceContext();

    CloudTableQuery<ContactEntity> query;

    // Query entities to return names beginning with the specified letter.
    // Note that because wildcard queries are not supported,
    // matching by using string comparisons.
    if (!String.IsNullOrEmpty(prefix) && Char.IsLetter(prefix[0]))
    {
        char prefixChar = prefix[0];
        int nextCharValue = ((int)prefixChar) + 1;
        char nextChar = (char)nextCharValue;
        query = context.CreateQuery<ContactEntity>(tableName)
            .Where(e => e.FirstName.CompareTo(prefixChar.ToString().ToUpper()) >= 0
            && e.FirstName.CompareTo(nextChar.ToString().ToUpper()) < 0)
            .AsTableServiceQuery<ContactEntity>();
    }
    else
    {
        query = context.CreateQuery<ContactEntity>(tableName).AsTableServiceQuery<ContactEntity>();
    }

    // Populate list of entities from query results.
    List<ContactEntity> list = new List<ContactEntity>();
    foreach (ContactEntity entity in query)
    {
        list.Add(entity);
    }
}
```
return list;
}

// Class to represent the table schema
public class ContactEntity : TableServiceEntity
{
    public ContactEntity()
    {
    }
    public string FirstName { get; set; }
    public string LastName { get; set; }
    public string Email { get; set; }
    public string HomePhone { get; set; }
    public string CellPhone { get; set; }
    public string StreetAddress { get; set; }
    public string City { get; set; }
    public string State { get; set; }
    public string ZipCode { get; set; }
}
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
Change History
See Also

Reference
TableServiceExtensionMethods Class
TableServiceExtensionMethods Members
Microsoft.WindowsAzure.StorageClient Namespace
The **Microsoft.WindowsAzure.StorageClient.Protocol** namespace contains helper classes that provide access to lowlevel functionality exposed by the **Blob Service REST API**, the **Queue Service REST API**, and the **Table Service REST API**.

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](Storage+Client+Library) for the latest version.]
### Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AccessPolicyResponse</strong></td>
<td>Parses the response XML from an operation to set the access policy for a container.</td>
</tr>
<tr>
<td><strong>BlobContainerEntry</strong></td>
<td>Represents a container item returned in the XML response for a container listing operation.</td>
</tr>
<tr>
<td><strong>BlobEntry</strong></td>
<td>Represents a blob item returned in the XML response for a blob listing operation.</td>
</tr>
<tr>
<td><strong>BlobListingContext</strong></td>
<td>Provides a set of parameters for a blob listing operation.</td>
</tr>
<tr>
<td><strong>BlobPrefixEntry</strong></td>
<td>Represents the blob name prefix that is returned in the XML response for a blob listing operation.</td>
</tr>
<tr>
<td><strong>BlobRequest</strong></td>
<td>Provides a set of methods for constructing requests for blob operations.</td>
</tr>
<tr>
<td><strong>BlobResponse</strong></td>
<td>Provides a set of methods for parsing responses from blob operations.</td>
</tr>
<tr>
<td><strong>CanonicalizationStrategy</strong></td>
<td>Represents the base canonicalization strategy used to authenticate a request against the storage services.</td>
</tr>
<tr>
<td><strong>ContainerRequest</strong></td>
<td>Provides a set of methods for constructing requests for container operations.</td>
</tr>
<tr>
<td><strong>ContainerResponse</strong></td>
<td>Provides a set of methods for parsing responses from container operations.</td>
</tr>
<tr>
<td><strong>Credentials</strong></td>
<td>Represents the credentials used to sign a request against the storage services.</td>
</tr>
<tr>
<td><strong>GetBlockListResponse</strong></td>
<td>Provides methods for parsing the response from an operation to return a block list.</td>
</tr>
<tr>
<td><strong>GetMessagesResponse</strong></td>
<td>Provides methods for parsing the response from an operation to get messages from a queue.</td>
</tr>
<tr>
<td>Class/Method</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>GetPageRangesResponse</td>
<td>Provides methods for parsing the response from an operation to get a range of pages for a page blob.</td>
</tr>
<tr>
<td>ListBlobsResponse</td>
<td>Provides methods for parsing the response from a blob listing operation.</td>
</tr>
<tr>
<td>ListContainersResponse</td>
<td>Provides methods for parsing the response from a container listing operation.</td>
</tr>
<tr>
<td>ListingContext</td>
<td>Represents the listing context for enumeration operations.</td>
</tr>
<tr>
<td>ListQueuesResponse</td>
<td>Provides methods for parsing the response from a queue listing operation.</td>
</tr>
<tr>
<td>LoggingProperties</td>
<td>The logging properties for Windows Azure Storage Analytics.</td>
</tr>
<tr>
<td>MetricsProperties</td>
<td>Indicates the metrics properties for Windows Azure Storage Analytics.</td>
</tr>
<tr>
<td>PeekMessagesResponse</td>
<td>Provides methods for parsing the response from an operation to peek messages from a queue.</td>
</tr>
<tr>
<td>PutBlockListItem</td>
<td>Represents a block in a block list.</td>
</tr>
<tr>
<td>PutPageProperties</td>
<td>Represents properties for writing to a page blob.</td>
</tr>
<tr>
<td>QueueEntry</td>
<td>Represents a queue item returned in the XML response for a queue listing operation.</td>
</tr>
<tr>
<td>QueueMessage</td>
<td>Represents a message retrieved from a queue.</td>
</tr>
<tr>
<td>QueueRequest</td>
<td>Provides a set of methods for constructing requests for queue operations.</td>
</tr>
<tr>
<td>QueueResponse</td>
<td>Provides a set of methods for parsing responses from queue operations.</td>
</tr>
<tr>
<td>ResourceConsumedException</td>
<td>The exception that is thrown if the client attempts to parse the response a second time.</td>
</tr>
<tr>
<td>ResponseParsingBase</td>
<td>Provides a base class that is used internally to parse XML streams from storage service operations.</td>
</tr>
<tr>
<td><strong>ServiceProperties</strong></td>
<td>Specifies the logging, metrics, and default service version for a storage service.</td>
</tr>
<tr>
<td>-----------------------</td>
<td>----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>SharedKeyCanonicalizer</strong></td>
<td>Provides an implementation of the <a href="#">CanonicalizationStrategy</a> class for requests against the Blob or Queue services under the Shared Key authentication scheme.</td>
</tr>
<tr>
<td><strong>SharedKeyLiteCanonicalizer</strong></td>
<td>Provides an implementation of the <a href="#">CanonicalizationStrategy</a> class for the Blob and Queue services for use with the Shared Key Lite authentication scheme.</td>
</tr>
<tr>
<td><strong>SharedKeyLiteTableCanonicalizer</strong></td>
<td>Provides an implementation of the <a href="#">CanonicalizationStrategy</a> class for the Table service for use with the Shared Key Lite authentication scheme.</td>
</tr>
<tr>
<td><strong>SharedKeyTableCanonicalizer</strong></td>
<td>Provides an implementation of the <a href="#">CanonicalizationStrategy</a> class for the Table service for use with the Shared Key authentication scheme.</td>
</tr>
<tr>
<td><strong>TableRequest</strong></td>
<td>Provides a set of methods for constructing requests for table operations.</td>
</tr>
<tr>
<td><strong>TableResponse</strong></td>
<td>Provides a set of methods for parsing responses from Table operations.</td>
</tr>
</tbody>
</table>
## Interfaces

<table>
<thead>
<tr>
<th>Interface</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IListBlobEntry</td>
<td>Defines an interface for blob items that are returned in the XML response for a blob listing operation.</td>
</tr>
</tbody>
</table>
## Enumerations

<table>
<thead>
<tr>
<th>Enumeration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BlockSearchMode</td>
<td>Indicates which block lists should be searched to find a specified block.</td>
</tr>
<tr>
<td>ConditionHeaderKind</td>
<td>Specifies the kinds of conditional headers that may be set for a request.</td>
</tr>
<tr>
<td>LeaseAction</td>
<td>Describes actions that can be performed on a lease.</td>
</tr>
<tr>
<td>LoggingOperations</td>
<td>Indicates the types of operations to log.</td>
</tr>
<tr>
<td>MetricsLevel</td>
<td>Indicates the type of metrics to generate.</td>
</tr>
<tr>
<td>PageWrite</td>
<td>Describes actions that may be used for writing to a page blob or clearing a set of pages.</td>
</tr>
</tbody>
</table>
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Parses the response XML from an operation to set the access policy for a container.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim instance As AccessPolicyResponse</td>
</tr>
</tbody>
</table>
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Class AccessPolicyResponse Inherits ResponseParsingBase(Of KeyValuePair)</td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public class AccessPolicyResponse : ResponseParsingBase</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public ref class AccessPolicyResponse : public ResponseParsingBase</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Inheritance Hierarchy

System.Object
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

AccessPolicyResponse Members

Other Resources

Managing Access to Blobs and Containers
Restricting Access to Containers and Blobs
Setting and Retrieving Properties and Metadata for Blob Resources (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Parses the response XML from an operation to set the access policy for a container.

The following tables list the members exposed by the AccessPolicyResponse type.
## Protected Fields

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>allObjectsParsed</td>
<td>Indicates that all parsable objects have been consumed. This field is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td>outstandingObjectsToParse</td>
<td>Stores any objects that have not yet been parsed. This field is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td>reader</td>
<td>(Inherited from ResponseParsingBase)</td>
</tr>
</tbody>
</table>

Top
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AccessIdentifiers</strong></td>
<td>Gets an enumerable collection of container-level access policy identifiers.</td>
</tr>
</tbody>
</table>
## Protected Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ObjectsToParse</td>
<td>Gets the parsable objects. This method is reserved and should not be used.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from ResponseParsingBase)</td>
</tr>
</tbody>
</table>

[Top]
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Dispose]</td>
<td>Overloaded. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td>![Equals]</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>![GetHashCode]</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>![GetType]</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>![ToString]</td>
<td>(Inherited from Object)</td>
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## Protected Methods

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<th>Name</th>
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</thead>
<tbody>
<tr>
<td>Dispose</td>
<td>Overloaded. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
<tr>
<td>Finalize</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td>ParseXml</td>
<td>Overridden. Parses the response XML from a Set Container ACL operation to retrieve container-level access policy data.</td>
</tr>
<tr>
<td>Variable</td>
<td>This method is reserved and should not be used. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
</tbody>
</table>
See Also

Reference
AccessPolicyResponse Class

Other Resources
Managing Access to Blobs and Containers
Restricting Access to Containers and Blobs
Setting and Retrieving Properties and Metadata for Blob Resources (REST API)
AccessPolicyResponse Fields

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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</tr>
<tr>
<td>reader</td>
<td>(Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
</tbody>
</table>
See Also

Reference
AccessPolicyResponse Class

Other Resources
Managing Access to Blobs and Containers
Restricting Access to Containers and Blobs
Setting and Retrieving Properties and Metadata for Blob Resources (REST API)
AccessPolicyResponse Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispose</td>
<td>Overloaded. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
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</table>
## Protected Methods

<table>
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<tr>
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<th>Description</th>
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<tbody>
<tr>
<td>Dispose</td>
<td>Overloaded. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
<tr>
<td>Finalize</td>
<td>(Inherited from <a href="#">Object</a>)</td>
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<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td>ParseXml</td>
<td>Overridden. Parses the response XML from a Set Container ACL operation to retrieve container-level access policy data.</td>
</tr>
<tr>
<td>Variable</td>
<td>This method is reserved and should not be used. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
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</table>
See Also

Reference
AccessPolicyResponse Class

Other Resources
Managing Access to Blobs and Containers
Restricting Access to Containers and Blobs
Setting and Retrieving Properties and Metadata for Blob Resources (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Parses the response XML from a Set Container ACL operation to retrieve container-level access policy data.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim returnValue As IEnumerable(Of KeyValuePair(Of String, String))
returnValue = Me.ParseXml
```
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protected Overrides Function ParseXml As IEnumerable</td>
</tr>
</tbody>
</table>

**C#**

```csharp
protected override IEnumerable<
    KeyValuePair<string,
    SharedAccessPolicy>
```

**C++**

```cpp
protected: virtual IEnumerable<
    KeyValuePair<String^,
    SharedAccessPolicy>
```

**J#**

```jsharp```

**JScript**

```javascript```

**Return Value**

Type: System.Collections.Generic.IEnumerable

A list of enumerable key-value pairs.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
AccessPolicyResponse Class
AccessPolicyResponse Members

Other Resources
Managing Access to Blobs and Containers
Restricting Access to Containers and Blobs
Setting and Retrieving Properties and Metadata for Blob Resources (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Properties (see also Protected Properties)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AccessIdentifiers</strong></td>
<td>Gets an enumerable collection of container-level access policy identifiers.</td>
</tr>
</tbody>
</table>
## Protected Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Inherited from</th>
</tr>
</thead>
<tbody>
<tr>
<td>ObjectsToParse</td>
<td>Gets the parsable objects. This method is reserved and should not be used.</td>
<td><a href="#">ResponseParsingBase</a></td>
</tr>
</tbody>
</table>
See Also

Reference
AccessPolicyResponse Class

Other Resources
Managing Access to Blobs and Containers
Restricting Access to Containers and Blobs
Setting and Retrieving Properties and Metadata for Blob Resources (REST API)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets an enumerable collection of container-level access policy identifiers.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As AccessPolicyResponse
Dim value As IEnumerable(Of KeyValuePair(Of String, String))

value = instance.AccessIdentifiers
Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public ReadOnly Property AccessIdentifiers As IEnumerable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public IEnumerable&lt;KeyValuePair&lt;string, SharedAccessPolicy&gt;&gt;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: property IEnumerable&lt;KeyValuePair&lt;String^, SharedAccessPolicy&gt;&gt;</td>
</tr>
<tr>
<td>{</td>
</tr>
<tr>
<td>IEnumerable&lt;KeyValuePair&lt;String^, SharedAccessPolicy&gt;&gt; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

Property Value

Type: System.Collections.Generic.IEnumerable

An enumerable collection of container-level access policy identifiers.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
AccessPolicyResponse Class
AccessPolicyResponse Members

Other Resources
Managing Access to Blobs and Containers
Restricting Access to Containers and Blobs
Setting and Retrieving Properties and Metadata for Blob Resources (REST API)
BlobContainerEntry Class

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a container item returned in the XML response for a container listing operation.

<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Dim instance As BlobContainerEntry</td>
</tr>
<tr>
<td>Syntax</td>
</tr>
<tr>
<td>-------------</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>


Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Inheritance Hierarchy

System.Object
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobContainerEntry Members

Other Resources
List Containers (REST API)
Operations on Containers
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a container item returned in the XML response for a container listing operation.

The following tables list the members exposed by the BlobContainerEntry type.
### Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attributes</td>
<td>Gets the attributes for this container item.</td>
</tr>
</tbody>
</table>
## Public Methods (see also **Protected Methods**)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
</tbody>
</table>
See Also

Reference
BlobContainerEntry Class

Other Resources
List Containers (REST API)
Operations on Containers
BlobContainerEntry Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods (see also Protected Methods)

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</tr>
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<td><code>GetHashCode</code></td>
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</tr>
<tr>
<td><code>GetType</code></td>
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</tr>
<tr>
<td><code>ToString</code></td>
<td>(Inherited from Object)</td>
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</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Finalize</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td><strong>MemberwiseClone</strong></td>
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</tr>
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</table>
See Also

Reference
BlobContainerEntry Class

Other Resources
List Containers (REST API)
Operations on Containers
BlobContainerEntry Properties
See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attributes</td>
<td>Gets the attributes for this container item.</td>
</tr>
</tbody>
</table>
[See Also]

Reference
BlobContainerEntry Class

Other Resources
List Containers (REST API)
Operations on Containers
BlobContainerEntry.Attributes Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the attributes for this container item.


**Usage**

**Visual Basic**

```vbnet
Dim instance As BlobContainerEntry
Dim value As BlobContainerAttributes

value = instance.Attributes
```
**Syntax**

**Visual Basic**

Public Property Attributes As BlobContainerAttributes

**C#**

```csharp
public BlobContainerAttributes Attributes { get; }

**C++**

```c++```
public: BlobContainerAttributes^ Attributes { 
BlobContainerAttributes^ get ();
```

**J#**

**JScript**

**Property Value**


The container item's attributes.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
- **Thread Safety**
  
  Any public static (*Shared* in Visual Basic) members of this type are thread safe.
  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobContainerEntry Class
BlobContainerEntry Members

Other Resources
List Containers (REST API)
Operations on Containers
BlobEntry Class

See Also  Members

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a blob item returned in the XML response for a blob listing operation.

## Usage

**Visual Basic**

```
Dim instance As BlobEntry
```
## Syntax

### Visual Basic

| Public Class BlobEntry  
| Implements IListBlobEntry |

### C#

```csharp
public class BlobEntry : IListBlobEntry
```

### C++

```cpp
public ref class BlobEntry : IListBlobEntry
```

### J#

```jsharp```

### JScript

```jscript```
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Inheritance Hierarchy

System.Object
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
PLATFORMS

Development Platforms
See Also

Reference
BlobEntry Members

Other Resources
List Blobs (REST API)
Get Blob Properties (REST API)
Get Blob Metadata (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a blob item returned in the XML response for a blob listing operation.

The following tables list the members exposed by the BlobEntry type.
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attributes</td>
<td>Gets the attributes for this blob item.</td>
</tr>
<tr>
<td>Name</td>
<td>Gets the name of the blob item.</td>
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<tr>
<td>GetHashCode</td>
<td>(Inherited from <strong>Object</strong>)</td>
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<td>GetType</td>
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<tr>
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## Protected Methods

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<tr>
<td>Finalize</td>
<td>(Inherited from Object)</td>
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<tr>
<td>MemberwiseClone</td>
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Reference
BlobEntry Class

Other Resources
List Blobs (REST API)
Get Blob Properties (REST API)
Get Blob Metadata (REST API)
BlobEntry Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Methods

(see also **Protected Methods**)

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<tr>
<th>Name</th>
<th>Description</th>
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<tbody>
<tr>
<td>Equals</td>
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See Also

Reference
BlobEntry Class

Other Resources
List Blobs (REST API)
Get Blob Properties (REST API)
Get Blob Metadata (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

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<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attributes</td>
<td>Gets the attributes for this blob item.</td>
</tr>
<tr>
<td>Name</td>
<td>Gets the name of the blob item.</td>
</tr>
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</table>
See Also

Reference
BlobEntry Class

Other Resources
List Blobs (REST API)
Get Blob Properties (REST API)
Get Blob Metadata (REST API)
BlobEntry.Attributes Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the attributes for this blob item.

**Usage**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Dim instance As **BlobEntry**  
Dim value As **BlobAttributes**  
value = instance.Attributes |
## Syntax

### Visual Basic

```vbnet
Public Property Attributes As BlobAttributes
```

### C#

```csharp
public BlobAttributes Attributes { get; }
```

### C++

```cpp
public:
property BlobAttributes^ Attributes {
    BlobAttributes^ get ();
}
```

### J#

```jsharp```

### JScript

```jscript```

## Property Value


The blob item's attributes.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobEntry Class
BlobEntry Members

Other Resources
List Blobs (REST API)
Get Blob Properties (REST API)
Get Blob Metadata (REST API)
### BlobEntry.Name Property

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.]

Gets the name of the blob item.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As BlobEntry
Dim value As String

value = instance.Name
### Syntax

#### Visual Basic

Public Property Name As String

#### C#

public string Name { get; }

#### C++

public:
property String^ Name {
    String^ get ();
}

#### J#

#### JScript

### Property Value

Type: System.String

The name of the blob item.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

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BlobEntry Class
BlobEntry Members

Other Resources
List Blobs (REST API)
Get Blob Properties (REST API)
Get Blob Metadata (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Provides a set of parameters for a blob listing operation.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>

```vbnet
Dim instance As BlobListingContext
```
## Syntax

**Visual Basic**

```vbnet
Public Class BlobListingContext
    Inherits ListingContext
```

**C#**

```csharp
public class BlobListingContext : ListingContext
```

**C++**

```cpp
public ref class BlobListingContext : public ListingContext
```

**J#**

```jsharp
```

**JScript**

```jscript
```
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Inheritance Hierarchy

- System.Object
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

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Reference
BlobListingContext Members

Other Resources
List Blobs (REST API)
Provides a set of parameters for a blob listing operation.

The following tables list the members exposed by the `BlobListingContext` type.
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</thead>
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<td>Initializes a new instance of the BlobListingContext class.</td>
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## Public Properties

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<th>Description</th>
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</thead>
<tbody>
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<td><strong>Delimiter</strong></td>
<td>Gets or sets the delimiter for a blob listing operation.</td>
</tr>
<tr>
<td><strong>Include</strong></td>
<td>Gets or sets the details for the listing operation, which indicates the types of data to include in the response.</td>
</tr>
<tr>
<td><strong>Marker</strong></td>
<td>Gets or sets the Marker value. (Inherited from <code>ListingContext</code>)</td>
</tr>
<tr>
<td><strong>MaxResults</strong></td>
<td>Gets or sets the MaxResults value. (Inherited from <code>ListingContext</code>)</td>
</tr>
<tr>
<td><strong>Prefix</strong></td>
<td>Gets or sets the Prefix value. (Inherited from <code>ListingContext</code>)</td>
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<tr>
<td>🆕 GetHashCode</td>
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<td>🆕 GetType</td>
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## Protected Methods

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Reference
BlobListingContext Class

Other Resources
List Blobs (REST API)
BlobListingContext Constructor

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the BlobListingContext class.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim prefix As String
Dim maxResults As Nullable(Of Integer)
Dim delimiter As String
Dim include As BlobListingDetails

Dim instance As New BlobListingContext(prefix, maxResults)
```
## Syntax

### Visual Basic

```vbnet
Public Sub New (_
    prefix As String, _
    maxResults As Nullable(Of Integer), _
    delimiter As String, _
    include As BlobListingDetails _
)
```

### C#

```csharp
public BlobListingContext (  
    string prefix,  
    Nullable<int> maxResults,  
    string delimiter,  
    BlobListingDetails include
)
```

### C++

```cpp
public:
BlobListingContext (  
    String^ prefix,  
    Nullable<int> maxResults,  
    String^ delimiter,  
    BlobListingDetails include
)
```

### J#

```jsharp```

### JScript
Parameters

prefix
Type: System.String

The blob prefix.

maxResults
Type: System.Nullable

The maximum number of results to return.

delimiter
Type: System.String

The blob delimiter.

include
Type: Microsoft.WindowsAzure.StorageClient.BlobListingDetails

The include parameter.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Platforms

Development Platforms
See Also

Reference
BlobListingContext Class
BlobListingContext Members

Other Resources
List Blobs (REST API)
BlobListingContext Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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</thead>
<tbody>
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<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>GetType</td>
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</tr>
<tr>
<td>ToString</td>
<td>(Inherited from <strong>Object</strong>)</td>
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## Protected Methods

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</table>
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Reference
BlobListingContext Class

Other Resources
List Blobs (REST API)
BlobListingContext Properties

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Properties

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<tr>
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</thead>
<tbody>
<tr>
<td>Delimiter</td>
<td>Gets or sets the delimiter for a blob listing operation.</td>
</tr>
<tr>
<td>Include</td>
<td>Gets or sets the details for the listing operation, which indicates the types of data to include in the response.</td>
</tr>
<tr>
<td>Marker</td>
<td>Gets or sets the Marker value. (Inherited from ListingContext)</td>
</tr>
<tr>
<td>MaxResults</td>
<td>Gets or sets the MaxResults value. (Inherited from ListingContext)</td>
</tr>
<tr>
<td>Prefix</td>
<td>Gets or sets the Prefix value. (Inherited from ListingContext)</td>
</tr>
</tbody>
</table>
See Also

Reference
BlobListingContext Class

Other Resources
List Blobs (REST API)
BlobListingContext.Delimiter Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the delimiter for a blob listing operation.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Visual Basic

Dim instance As BlobListingContext
Dim value As String

value = instance.Delimiter

instance.Delimiter = value
**Syntax**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Public Property Delimiter As <strong>String</strong></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>public <strong>string</strong> Delimiter { get; set; }</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td></td>
</tr>
</tbody>
</table>
|  | public: property **String**^ Delimiter {  
|  | **String**^ get ();  
|  | void set (**String**^ value);  
|  |
| **J#** |  |
| **JScript** |  |

**Property Value**

Type: **System.String**

The delimiter to use to traverse the virtual hierarchy of blobs.
Remarks

The delimiter parameter enables the caller to traverse the blob namespace by using a user-configured delimiter.

Using this parameter, it is possible to traverse a virtual hierarchy of blobs as though it were a file system.

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobListingContext Class
BlobListingContext Members

Other Resources
List Blobs (REST API)
BlobListingContext.Include Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the details for the listing operation, which indicates the types of data to include in the response.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As BlobListingContext
Dim value As BlobListingDetails

value = instance.Include

instance.Include = value
```
**Syntax**

<table>
<thead>
<tr>
<th>Programming Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Property Include As BlobListingDetails</td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public BlobListingDetails Include { get; set; }</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public: property BlobListingDetails Include { BlobListingDetails get (); void set (BlobListingDetails value); }</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Property Value**

Type: [Microsoft.WindowsAzure.StorageClient.BlobListingDetails](#)

The details to include in the listing operation.
Remarks

The include parameter specifies that the response should include one or more of the following subsets: snapshots, metadata, uncommitted blobs.

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
_thread safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobListingContext Class
BlobListingContext Members

Other Resources
List Blobs (REST API)
BlobPrefixEntry Class

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents the blob name prefix that is returned in the XML response for a blob listing operation.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As BlobPrefixEntry
```
## Syntax

### Visual Basic

```vbnet
Public Class BlobPrefixEntry
    Implements IListBlobEntry
```

### C#

```csharp
public class BlobPrefixEntry : IListBlobEntry
```

### C++

```csharp
public ref class BlobPrefixEntry : IListBlobEntry
```

### J#

```csharp```

### JScript

```csharp```
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Inheritance Hierarchy

System.Object
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobPrefixEntry Members

Other Resources
Enumerating Blob Resources (REST API)
Filtering List Results
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents the blob name prefix that is returned in the XML response for a blob listing operation.

The following tables list the members exposed by the BlobPrefixEntry type.
## Public Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>BlobPrefixEntry</td>
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## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Gets the blob name prefix.</td>
</tr>
</tbody>
</table>
## Public Methods (see also **Protected Methods**)

<table>
<thead>
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<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
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<td>(Inherited from <strong>Object</strong>)</td>
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<tr>
<td>GetHashCode</td>
<td>(Inherited from <strong>Object</strong>)</td>
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<tr>
<td>ToString</td>
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<tbody>
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Filtering List Results
BlobPrefixEntry Constructor

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the BlobPrefixEntry Class.

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<tr>
<th>Usage</th>
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</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim instance As New <strong>BlobPrefixEntry</strong></td>
</tr>
<tr>
<td>Syntax</td>
</tr>
<tr>
<td>--------</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Public Sub New</td>
</tr>
<tr>
<td><strong>C#</strong></td>
</tr>
<tr>
<td>public BlobPrefixEntry ()</td>
</tr>
<tr>
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</tr>
<tr>
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</tbody>
</table>
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Platforms

Development Platforms
See Also

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BlobPrefixEntry Class
BlobPrefixEntry Members

Other Resources
Enumerating Blob Resources (REST API)
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See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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</tr>
<tr>
<td>GetHashCode</td>
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</tr>
<tr>
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</tr>
<tr>
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</table>
## Protected Methods

<table>
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<tr>
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</tbody>
</table>
See Also

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BlobPrefixEntry Class

Other Resources
Enumerating Blob Resources (REST API)
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[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Name</td>
<td>Gets the blob name prefix.</td>
</tr>
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</table>
See Also

Reference
BlobPrefixEntry Class

Other Resources
Enumerating Blob Resources (REST API)
Filtering List Results
**BlobPrefixEntry.Name Property**

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the blob name prefix.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>
| Dim instance As **BlobPrefixEntry**  
Dim value As **String**  
value = instance.Name |
## Syntax

### Visual Basic

```vbnet
Public Property Name As String
```

### C#

```csharp
public string Name { get; }
```

### C++

```cpp
public: String^ Name {
    String^ get ();
}
```

### J#

```
```

### JScript

```
```

## Property Value

Type: `System.String`

The blob name prefix.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobPrefixEntry Class
BlobPrefixEntry Members

Other Resources
Enumerating Blob Resources (REST API)
Filtering List Results
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Provides a set of methods for constructing requests for blob operations.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

| Visual Basic |
### Syntax

**Visual Basic**

```vbnet
Public NotInheritable Class BlobRequest
```

**C#**

```csharp
public static class BlobRequest
```

**C++**

```cpp
public ref class BlobRequest abstract sealed
```

**J#**

```jscript
```

**JScript**

```javascript
```
Inheritance Hierarchy

System.Object
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

BlobRequest Members
Provides a set of methods for constructing requests for blob operations.

The following tables list the members exposed by the BlobRequest type.

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods

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<tr>
<th>Name</th>
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</tr>
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<tbody>
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<td>Overloaded.</td>
</tr>
<tr>
<td>AddMetadata</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>CopyFrom</td>
<td>Constructs a web request to copy a blob.</td>
</tr>
<tr>
<td>Delete</td>
<td>Constructs a web request to delete a blob.</td>
</tr>
<tr>
<td>Get</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>GetBlockList</td>
<td>Constructs a web request to return the list of blocks for a block blob.</td>
</tr>
<tr>
<td>GetMetadata</td>
<td>Constructs a web request to return the user-defined metadata for the blob.</td>
</tr>
<tr>
<td>GetPageRanges</td>
<td>Constructs a web request to return the list of active page ranges for a page blob.</td>
</tr>
<tr>
<td>GetProperties</td>
<td>Constructs a web request to return the blob’s system properties.</td>
</tr>
<tr>
<td>GetServiceProperties</td>
<td>Gets the properties of an account’s Blob service.</td>
</tr>
<tr>
<td>Lease</td>
<td>Constructs a web request to use to acquire, renew, release or break the lease for the blob.</td>
</tr>
<tr>
<td>List</td>
<td>Constructs a web request to return a listing of all blobs in the container.</td>
</tr>
<tr>
<td>Put</td>
<td>Constructs a web request to create a new block blob or page blob, or to update the content of an existing block blob.</td>
</tr>
<tr>
<td>PutBlock</td>
<td>Constructs a web request to write a block to a block blob.</td>
</tr>
<tr>
<td>PutBlockList</td>
<td>Constructs a web request to create or update a blob by committing a block list.</td>
</tr>
<tr>
<td>PutPage</td>
<td>Constructs a web request to write or clear a range of pages in a page blob.</td>
</tr>
<tr>
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</tr>
<tr>
<td>Method</td>
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</tr>
<tr>
<td>---------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>defined metadata for the blob.</td>
<td></td>
</tr>
<tr>
<td>SetProperties</td>
<td>Constructs a web request to set system properties for a blob.</td>
</tr>
<tr>
<td>SetServiceProperties</td>
<td>Sets the properties of an account’s Blob service.</td>
</tr>
<tr>
<td>SignRequest</td>
<td>Signs the request for Shared Key authentication.</td>
</tr>
<tr>
<td>SignRequestForSharedKeyLite</td>
<td>Signs the request for Shared Key Lite authentication.</td>
</tr>
<tr>
<td>Snapshot</td>
<td>Constructs a web request to create a snapshot of a blob.</td>
</tr>
<tr>
<td>WriteBlockListBody</td>
<td>Writes the body of the block list to the specified stream in XML format.</td>
</tr>
<tr>
<td>WriteServiceProperties</td>
<td>Writes the Blob service properties to an output stream.</td>
</tr>
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See Also

Reference

BlobRequest Class
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>SetProperties</td>
<td>Constructs a web request to set system properties for a blob.</td>
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See Also

Reference
BlobRequest Class
BlobRequest.AddConditional Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<tbody>
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<td>Adds a conditional header to the request.</td>
</tr>
<tr>
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See Also

Reference
BlobRequest Class
BlobRequest Members

Other Resources
Specifying Conditional Headers for Blob Service Operations
Put Block List (REST API)
Put Page (REST API)
Adds a conditional header to the request.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim request As HttpWebRequest
Dim header As ConditionHeaderValue
Dim dateTime As DateTime

BlobRequest.AddConditional(request, header, dateTime)
```
## Syntax

**Visual Basic**

```vbnet
Public Shared Sub AddConditional ( _
    request As HttpWebRequest, _
    header As ConditionHeaderKind, _
    dateTime As DateTime _
)
```

**C#**

```csharp
public static void AddConditional ( 
    HttpWebRequest request, 
    ConditionHeaderKind header, 
    DateTime dateTime
)
```

**C++**

```cpp
public:
    static void AddConditional ( 
        HttpRequest^ request, 
        ConditionHeaderKind header, 
        DateTime dateTime
    )
```

**J#**

```jsharp```

**JScript**

```typescript```

### Parameters

- `request`
Type: `System.Net.HttpWebRequest`

The web request.

`header`

The type of conditional header to add.

`dateTime`
Type: `System.DateTime`

The date and time specification for the request.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

BlobRequest Class
BlobRequest Members

Other Resources

Specifying Conditional Headers for Blob Service Operations
Put Block List (REST API)
Put Page (REST API)
BlobRequest.AddConditional Method (HttpWebRequest, ConditionHeaderKind, String)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Adds a conditional header to the request.

**Usage**

### Visual Basic

```vbnet
Dim request As HttpWebRequest
Dim header As ConditionHeaderValue
Dim etag As String

BlobRequest.AddConditional(request, header, etag)
```
**Syntax**

**Visual Basic**

```vbnet
Public Shared Sub AddConditional ( _
    request As HttpHeaders, _
    header As ConditionHeaderKind, _
    etag As String _
)
```

**C#**

```csharp
public static void AddConditional ( 
    HttpHeaders request, 
    ConditionHeaderKind header, 
    string etag 
)
```

**C++**

```cpp
public:
static void AddConditional ( 
    HttpHeaders^ request, 
    ConditionHeaderKind header, 
    String^ etag 
)
```

**J#**

**JScript**

**Parameters**

- `request`
Type: `System.Net.HttpWebRequest`

The web request.

*header*


The type of conditional header to add.

*etag*

Type: `System.String`

The blob's ETag.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

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BlobRequest Class
BlobRequest Members

Other Resources
Specifying Conditional Headers for Blob Service Operations
Put Block List (REST API)
Put Page (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

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<td><code>BlobRequest.AddMetadata(HttpWebRequest, NameValueCollection)</code></td>
<td>Adds user-defined metadata to the request as one or more name-value pairs.</td>
</tr>
<tr>
<td><code>BlobRequest.AddMetadata(HttpWebRequest, String, String)</code></td>
<td>Adds user-defined metadata to the request as a single name-value pair.</td>
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BlobRequest Class
BlobRequest Members

Other Resources
Setting and Retrieving Properties and Metadata for Blob Resources (REST API)
Set Container Metadata (REST API)
Set Blob Metadata (REST API)
BlobRequest.AddMetadata Method (HttpWebRequest, NameValueCollection)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Adds user-defined metadata to the request as one or more name-value pairs.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim request As HttpRequest
Dim metadata As NameValueCollection

BlobRequest.AddMetadata(request, metadata)
## Syntax

### Visual Basic

```vbnet
Public Shared Sub AddMetadata ( _
    request As HttpRequest, _
    metadata As NameValueCollection _
)
```

### C#

```csharp
public static void AddMetadata (  
    HttpRequest request,  
    NameValueCollection metadata
)
```

### C++

```cpp
public:
static void AddMetadata (  
    HttpRequest^ request,  
    NameValueCollection^ metadata
)
```

### J#

```jscript

```

### JScript

```javascript

```

## Parameters

**request**

Type: `System.Net.HttpWebRequest`

The web request.
metadata
   Type: System.Collections.Specialized.NameValueCollection

   The user-defined metadata.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobRequest Class
BlobRequest Members

Other Resources
Setting and Retrieving Properties and Metadata for Blob Resources (REST API)
Set Container Metadata (REST API)
Set Blob Metadata (REST API)
BlobRequest.AddMetadata Method (HttpWebRequest, String, String)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Adds user-defined metadata to the request as a single name-value pair.


**Usage**

**Visual Basic**

```vbnet
Dim request As HttpWebRequest
Dim name As String
Dim value As String

BlobRequest.AddMetadata(request, name, value)
```
### Syntax

#### Visual Basic

```vbnet
Public Shared Sub AddMetadata (_
    request As HttpWebRequest, _
    name As String, _
    value As String _
)
```

#### C#

```csharp
public static void AddMetadata ( _
    HttpWebRequest request, _
    string name, _
    string value
)
```

#### C++

```cpp
public:
    static void AddMetadata ( _
        HttpRequest^ request, _
        String^ name, _
        String^ value
    )
```

#### J#

```jsharp
```

#### JScript

```
```

### Parameters

- `request`
Type: `System.Net.HttpWebRequest`

The web request.

`name`
Type: `System.String`

The metadata name.

`value`
Type: `System.String`

The metadata value.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobRequest Class
BlobRequest Members

Other Resources
Setting and Retrieving Properties and Metadata for Blob Resources (REST API)
Set Container Metadata (REST API)
Set Blob Metadata (REST API)
BlobRequest.CopyFrom Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a web request to copy a blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

### Visual Basic

```vbscript
Dim uri As Uri
Dim timeout As Integer
Dim source As String
Dim sourceSnapshot As Nullable(Of DateTime)
Dim sourceConditions As ConditionHeaderKind
Dim sourceConditionsValue As String
Dim leaseId As String
Dim returnValue As HttpWebRequest

returnValue = BlobRequest.CopyTo(uri, timeout, source, sourceConditions, sourceConditionsValue, leaseId)
```
### Syntax

#### Visual Basic

```vbnet
Public Shared Function CopyFrom ( _
    uri As Uri, _
    timeout As Integer, _
    source As String, _
    sourceSnapshot As Nullable(Of DateTime), _
    sourceConditions As ConditionHeaderKind, _
    sourceConditionsValue As String, _
    leaseId As String _
) As HttpWebRequest
```

#### C#

```csharp
public static HttpWebRequest CopyFrom ( _
    Uri uri, _
    int timeout, _
    string source, _
    Nullable<DateTime> sourceSnapshot, _
    ConditionHeaderKind sourceConditions, _
    string sourceConditionsValue, _
    string leaseId _
)
```

#### C++

```cpp
public:
static HttpWebRequest^ CopyFrom ( _
    Uri^ uri, _
    int timeout, _
    String^ source, _
    Nullable<DateTime> sourceSnapshot, _
    ConditionHeaderKind sourceConditions, _
    String^ sourceConditionsValue, _
    String^ leaseId _
)
Parameters

uri
Type: System.Uri

The absolute URI to the destination blob.

timeout
Type: System.Int32

The server timeout interval.

source
Type: System.String

The canonical path to the source blob, in the form /<account-name>/<container-name>/<blob-name>.

sourceSnapshot
Type: System.Nullable

The snapshot version, if the source blob is a snapshot.

sourceConditions

A type of condition to check on the source blob.

sourceConditionsValue
Type: System.String
The value of the condition to check on the source blob.

leaseId
Type: System.String

The lease ID for the source blob, if it has an active lease.

Return Value
Type: System.Net.HttpWebRequest

A web request to use to perform the operation.
Remarks

If the destination blob has an active lease, you must specify a valid lease ID for the active lease in order to copy the blob.

If the source blob has an active lease, you can optionally specify the lease ID for the source blob to copy the source blob conditionally. In this case, the source blob will be copied only if the lease ID for the source blob matches that specified on the request.

Copying a blob does not affect an existing lease on the destination blob. The destination blob's lease is maintained, whether you are copying a blob to a destination blob with a different name from the source, copying the blob to a destination blob with the same name as the source, or copying a snapshot over its base blob.

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobRequest Class
BlobRequest Members

Other Resources
Copy Blob (REST API)
Abort Copy Blob (REST API)
BlobRequest.Delete Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a web request to delete a blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim uri As Uri
Dim timeout As Integer
Dim snapshot As Nullable(Of DateTime)
Dim deleteSnapshotsOption As DeleteSnapshotsOption
Dim leaseId As String
Dim returnValue As HttpWebRequest

returnValue = BlobRequest.Delete(uri, timeout, snapshot)
```
### Syntax

#### Visual Basic

```vbnet
Public Shared Function Delete ( _
    uri As Uri, _
    timeout As Integer, _
    snapshot As Nullable(Of DateTime), _
    deleteSnapshotsOption As DeleteSnapshotsOption, _
    leaseId As String _
) As HttpWebRequest
```

#### C#

```csharp
public static HttpWebRequest Delete (  
    Uri uri,  
    int timeout,  
    Nullable<DateTime> snapshot,  
    DeleteSnapshotsOption deleteSnapshotsOption,  
    string leaseId  
)
```

#### C++

```cpp
public:  
static HttpWebRequest^ Delete (  
    Uri^ uri,  
    int timeout,  
    Nullable<DateTime> snapshot,  
    DeleteSnapshotsOption deleteSnapshotsOption,  
    String^ leaseId  
)
```

#### J#
**Parameters**

*uri*
   Type: `System.Uri`
   The absolute URI to the blob.

*timeout*
   Type: `System.Int32`
   The server timeout interval.

*snapshot*
   Type: `System.Nullable`
   The snapshot timestamp, if the blob is a snapshot.

*deleteSnapshotsOption*
   Type: `Microsoft.WindowsAzure.StorageClient.DeleteSnapshotsOption`
   A set of options indicating whether to delete only blobs, only snapshots, or both.

*leaseId*
   Type: `System.String`
   The lease ID, if the blob has an active lease.

**Return Value**

Type: `System.Net.HttpWebRequest`
A web request to use to perform the operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobRequest Class
BlobRequest Members

Other Resources
Delete Blob (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>BlobRequest.Get (Uri, Int32, Nullable, Int64, Nullable, String)</strong></td>
<td>Constructs a web request to return a specified range of the blob's content, together with its properties and metadata.</td>
</tr>
<tr>
<td><strong>BlobRequest.Get (Uri, Int32, Nullable, String)</strong></td>
<td>Constructs a web request to get the blob's content, properties, and metadata.</td>
</tr>
</tbody>
</table>
See Also

Reference

BlobRequest Class
BlobRequest Members
BlobRequest.Get Method (Uri, Int32, Nullable, Int64, Nullable, String)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a web request to return a specified range of the blob's content, together with its properties and metadata.

**Usage**

**Visual Basic**

```vbnet
Dim uri As Uri
Dim timeout As Integer
Dim snapshot As Nullable(Of DateTime)
Dim offset As Long
Dim count As Nullable(Of Long)
Dim leaseId As String
Dim returnValue As HttpWebRequest

returnValue = BlobRequest.Get(uri, timeout, snapshot,
```
## Syntax

### Visual Basic

```vbnet
Public Shared Function Get ( _
    uri As Uri, _
    timeout As Integer, _
    snapshot As Nullable(Of DateTime), _
    offset As Long, _
    count As Nullable(Of Long), _
    leaseId As String _
) As HttpWebRequest
```

### C#

```csharp
public static HttpWebRequest Get (      
    Uri uri, 
    int timeout, 
    Nullable<DateTime> snapshot, 
    long offset, 
    Nullable<long> count, 
    string leaseId 
) 
```

### C++

```cpp
public: 
static HttpWebRequest^ Get ( 
    Uri^ uri, 
    int timeout, 
    Nullable<DateTime> snapshot, 
    long offset, 
    Nullable<long> count, 
    String^ leaseId 
) 
```
**Parameters**

*uri*
- Type: `System.Uri`
  - The absolute URI to the blob.

*timeout*
- Type: `System.Int32`
  - The server timeout interval.

*snapshot*
- Type: `System.Nullable`
  - The snapshot version, if the blob is a snapshot.

*offset*
- Type: `System.Int64`
  - The offset at which to begin returning content.

*count*
- Type: `System.Nullable`
  - The number of bytes to return.

*leaseId*
- Type: `System.String`
  - The lease ID for the blob, if it has an active lease.

**Return Value**

Type: `System.Net.HttpWebRequest`
A web request to use to perform the operation.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobRequest Class
BlobRequest Members
BlobRequest.Get Method (Uri, Int32, Nullable, String)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a web request to get the blob's content, properties, and metadata.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim uri As Uri
Dim timeout As Integer
Dim snapshot As Nullable(Of DateTime)
Dim leaseId As String
Dim returnValue As HttpWebRequest

returnValue = BlobRequest.Get(uri, timeout, snapshot,
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Public Shared Function Get ( _
| ur As Uri, _
| timeout As Integer, _
| snapshot As Nullable(Of DateTime), _
| leaseId As String _
| ) As HttpWebRequest |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public static HttpWebRequest Get (</td>
</tr>
<tr>
<td>Uri uri,</td>
</tr>
<tr>
<td>int timeout,</td>
</tr>
<tr>
<td>Nullable&lt;DateTime&gt; snapshot,</td>
</tr>
<tr>
<td>string leaseId</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| public:
| static HttpWebRequest^ Get ( |
| Uri^ uri, |
| int timeout, |
| Nullable<DateTime> snapshot, |
| String^ leaseId |
| ) |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>
Parameters

uri
  Type: System.Uri
  The absolute URI to the blob.

timeout
  Type: System.Int32
  The server timeout interval.

snapshot
  Type: System.Nullable
  The snapshot version, if the blob is a snapshot.

leaseId
  Type: System.String
  The lease ID for the blob, if it has an active lease.

Return Value

Type: System.Net.HttpWebRequest
A web request for performing the operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

BlobRequest Class
BlobRequest Members

Other Resources

Get Blob (REST API)
Get Blob Properties (REST API)
Get Blob Metadata (REST API)
BlobRequest.GetBlockList Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a web request to return the list of blocks for a block blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim uri As Uri
Dim timeout As Integer
Dim snapshot As Nullable(Of DateTime)
Dim typesOfBlocks As BlockListingFilter
Dim leaseId As String
Dim returnValue As HttpWebRequest

returnValue = BlobRequest.GetBlockList(uri, timeout,
**Syntax**

Visual Basic

Public Shared Function GetBlockList ( _
    uri As Uri, _
    timeout As Integer, _
    snapshot As Nullable(Of DateTime), _
    typesOfBlocks As BlockListingFilter, _
    leaseId As String _
) As HttpWebRequest

C#

public static HttpWebRequest GetBlockList (  
    Uri uri, 
    int timeout, 
    Nullable<DateTime> snapshot, 
    BlockListingFilter typesOfBlocks, 
    string leaseId 
)

C++

public:  
    static HttpWebRequest^ GetBlockList (  
        Uri^ uri, 
        int timeout, 
        Nullable<DateTime> snapshot, 
        BlockListingFilter typesOfBlocks, 
        String^ leaseId 
    )

J#
Parameters

uri
Type: System.Uri

The absolute URI to the blob.

timeout
Type: System.Int32

The server timeout interval.

snapshot
Type: System.Nullable

The snapshot timestamp, if the blob is a snapshot.

typesOfBlocks
Type: Microsoft.WindowsAzure.StorageClient.BlockListingFilter

The types of blocks to include in the list: committed, uncommitted, or both.

leaseId
Type: System.String

The lease ID for the blob, if it has an active lease.

Return Value

Type: System.Net.HttpWebRequest

A web request to use to perform the operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobRequest Class
BlobRequest Members

Other Resources
Get Block List (REST API)
Put Block List (REST API)
BlobRequest.GetMetadata Method

Constructs a web request to return the user-defined metadata for the blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
**Usage**

**Visual Basic**

```vbnet
Dim uri As Uri
Dim timeout As Integer
Dim snapshot As Nullable(Of DateTime)
Dim leaseId As String
Dim returnValue As HttpWebRequest

returnValue = BlobRequest.GetMetadata(uri, timeout, snapshot)
```
**Syntax**

**Visual Basic**

Public Shared Function GetMetadata ( _
    uri As Uri, _
    timeout As Integer, _
    snapshot As Nullable(Of DateTime), _
    leaseId As String _
) As HttpWebRequest

**C#**

public static HttpWebRequest GetMetadata (  
    Uri uri,  
    int timeout,  
    Nullable<DateTime> snapshot,  
    string leaseId
)

**C++**

public:  
static HttpWebRequest^ GetMetadata (  
    Uri^ uri,  
    int timeout,  
    Nullable<DateTime> snapshot,  
    String^ leaseId
)

**J#**

**JScript**
Parameters

uri
Type: System.Uri
The absolute URI to the blob.

timeout
Type: System.Int32
The server timeout interval.

snapshot
Type: System.Nullable
The snapshot timestamp, if the blob is a snapshot.

leaseId
Type: System.String
The lease ID, if the blob has an active lease.

Return Value

Type: System.Net.HttpWebRequest
A web request for performing the operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobRequest Class
BlobRequest Members

Other Resources
Setting and Retrieving Properties and Metadata for Blob Resources (REST API)
Get Container Metadata (REST API)
Set Container Metadata (REST API)
Get Blob Metadata (REST API)
Set Blob Metadata (REST API)
BlobRequest.GetPageRanges Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a web request to return the list of active page ranges for a page blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim uri As Uri
Dim timeout As Integer
Dim snapshot As Nullable(Of DateTime)
Dim leaseId As String
Dim returnValue As HttpWebRequest

returnValue = BlobRequest.GetPageRanges(uri, timeout,
### Syntax

#### Visual Basic

```vbnet
Public Shared Function GetPageRanges ( _
    uri As Uri, _
    timeout As Integer, _
    snapshot As Nullable(Of DateTime), _
    leaseId As String _
) As HttpWebRequest
```

#### C#

```csharp
public static HttpWebRequest GetPageRanges ( 
    Uri uri,
    int timeout,
    Nullable<DateTime> snapshot,
    String leaseId
)
```

#### C++

```cpp
public:
static HttpWebRequest^ GetPageRanges ( 
    Uri^ uri,
    int timeout,
    Nullable<DateTime> snapshot,
    String^ leaseId
)
```

#### J#

#### JScript
Parameters

uri
Type: System.Uri
The absolute URI to the blob.

timeout
Type: System.Int32
The server timeout interval.

snapshot
Type: System.Nullable
The snapshot timestamp, if the blob is a snapshot.

leaseId
Type: System.String
The lease ID, if the blob has an active lease.

Return Value

Type: System.Net.HttpWebRequest
A web request to use to perform the operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobRequest Class
BlobRequest Members

Other Resources
Get Page Ranges (REST API)
BlobRequest.GetProperties Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a web request to return the blob's system properties.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim uri As Uri
Dim timeout As Integer
Dim snapshot As Nullable(Of DateTime)
Dim leaseId As String
Dim returnValue As HttpWebRequest

returnValue = BlobRequest.GetProperties(uri, timeout,
```
### Syntax

#### Visual Basic

```vbnet
Public Shared Function GetProperties ( _
    uri As Uri, _
    timeout As Integer, _
    snapshot As Nullable(Of DateTime), _
    leaseId As String _
) As HttpWebRequest
```

#### C#

```csharp
public static HttpWebRequest GetProperties (  
    Uri uri,  
    int timeout,  
    Nullable<DateTime> snapshot,  
    string leaseId  
)
```

#### C++

```cpp
public:  
    static HttpWebRequest^ GetProperties (  
        Uri^ uri,  
        int timeout,  
        Nullable<DateTime> snapshot,  
        String^ leaseId  
    )
```

#### J#

```jsharp```

#### JScript

```jscript```

---

**Synopsis:**

The `GetProperties` function retrieves properties associated with a specified URI. It accepts parameters for the URI, timeout, snapshot, and lease ID, and returns an `HttpWebRequest` instance.
**Parameters**

*uri*
Type: System.Uri
The absolute URI to the blob.

*timeout*
Type: System.Int32
The server timeout interval.

*snapshot*
Type: System.Nullable
The snapshot timestamp, if the blob is a snapshot.

*leaseId*
Type: System.String
The lease ID.

**Return Value**

Type: System.Net.HttpWebRequest
A web request for performing the operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (**Shared** in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobRequest Class
BlobRequest Members

Other Resources
Get Blob Properties (REST API)
Set Blob Properties (REST API)
BlobRequest.GetServiceProperties Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the properties of an account’s Blob service.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim uri As Uri
Dim timeout As Integer
Dim returnValue As HttpWebRequest

returnValue = BlobRequest.GetServiceProperties(uri, timeout)
## Syntax

### Visual Basic

```vbnet
Public Shared Function GetServiceProperties ( _
    uri As Uri, _
    timeout As Integer _
) As HttpWebRequest
```

### C#

```csharp
public static HttpWebRequest GetServiceProperties ( 
    Uri uri,
    int timeout
)
```

### C++

```cpp
public:
static HttpWebRequest^ GetServiceProperties ( 
    Uri^ uri,
    int timeout
)
```

### J#

```jsharp
```

### JScript

```javascript
```

### Parameters

- **uri**
  - The absolute URI to the Blob service.

- **timeout**
  - A timeout value, in seconds.
Return Value

Returns **HttpWebRequest**.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobRequest Class
BlobRequest Members

Other Resources
Get Blob Service Properties
Set Blob Service Properties
BlobRequest.Lease Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a web request to use to acquire, renew, release or break the lease for the blob.

**Usage**

**Visual Basic**

```vbnet
Dim uri As Uri
Dim timeout As Integer
Dim action As LeaseAction
Dim leaseId As String
Dim returnValue As HttpWebRequest

returnValue = BlobRequest.Lease(uri, timeout, action,
```
### Syntax

#### Visual Basic

```vbnet
Public Shared Function Lease ( _
    uri As Uri, _
    timeout As Integer, _
    action As LeaseAction, _
    leaseId As String _
) As HttpWebRequest
```

#### C#

```csharp
public static HttpWebRequest Lease ( 
    Uri uri, 
    int timeout, 
    LeaseAction action, 
    string leaseId
)
```

#### C++

```cpp
public:
    static HttpWebRequest^ Lease ( 
        Uri^ uri, 
        int timeout, 
        LeaseAction action, 
        String^ leaseId
    )
```

#### J#

#### JScript
**Parameters**

*uri*

Type: [System.Uri](https://docs.microsoft.com/en-us/dotnet/api/system.uri?view=netframework-4.8)

The absolute URI to the blob.

*timeout*

Type: [System.Int32](https://docs.microsoft.com/en-us/dotnet/api/system.int32?view=netframework-4.8)

The server timeout interval.

*action*


The lease action to perform.

*leaseId*

Type: [System.String](https://docs.microsoft.com/en-us/dotnet/api/system.string?view=netframework-4.8)

The lease ID.

**Return Value**

Type: [System.Net.HttpWebRequest](https://docs.microsoft.com/en-us/dotnet/api/system.net.httpwebrequest?view=netframework-4.8)

A web request to use to perform the operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
See Also

Reference
BlobRequest Class
BlobRequest Members

Other Resources
HTTP Operations on Blob Service Resources (REST API)
BlobRequest.List Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a web request to return a listing of all blobs in the container.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim uri As Uri
Dim timeout As Integer
Dim listingContext As BlobListingContext
Dim returnValue As HttpWebRequest

returnValue = BlobRequest.List(uri, timeout, listingContext)
**Syntax**

**Visual Basic**

```vbnet
Public Shared Function List ( _
    uri As Uri, _
    timeout As Integer, _
    listingContext As BlobListingContext _
) As HttpWebRequest
```

**C#**

```csharp
public static HttpWebRequest List (  
    Uri uri,  
    int timeout,  
    BlobListingContext listingContext
)
```

**C++**

```cpp
public:  
static HttpWebRequest^ List (  
    Uri^ uri,  
    int timeout,  
    BlobListingContext^ listingContext
)
```

**J#**

**JScript**

**Parameters**

- `uri`
Type: `System.Uri`

The absolute URI to the blob.

`timeout`
Type: `System.Int32`

The server timeout interval.

`listingContext`

A set of parameters for the listing operation.

**Return Value**

Type: `System.Net.HttpWebRequest`

A web request to use to perform the operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobRequest Class
BlobRequest Members

Other Resources
List Containers (REST API)
List Blobs (REST API)
BlobRequest.Put Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a web request to create a new block blob or page blob, or to update the content of an existing block blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Dim uri As Uri
Dim timeout As Integer
Dim properties As BlobProperties
Dim blobType As BlobType
Dim leaseId As String
Dim pageBlobSize As Long
Dim returnValue As HttpWebRequest

returnValue = BlobRequest.Put(uri, timeout, properties)
### Syntax

#### Visual Basic

```vbnet
Public Shared Function Put ( _
    uri As Uri, _
    timeout As Integer, _
    properties As BlobProperties, _
    blobType As BlobType, _
    leaseId As String, _
    pageBlobSize As Long _
) As HttpWebRequest
```

#### C#

```csharp
public static HttpWebRequest Put (  
    Uri uri,  
    int timeout,  
    BlobProperties properties,  
    BlobType blobType,  
    string leaseId,  
    long pageBlobSize
)
```

#### C++

```cpp
public:
    static HttpWebRequest^ Put (  
        Uri^ uri,  
        int timeout,  
        BlobProperties^ properties,  
        BlobType blobType,  
        String^ leaseId,  
        long long pageBlobSize
    )
```
**Parameters**

*uri*

Type: *System.Uri*

The absolute URI to the blob.

*timeout*

Type: *System.Int32*

The server timeout interval.

*properties*

Type: *Microsoft.WindowsAzure.StorageClient.BlobProperties*

The properties to set for the blob.

*blobType*

Type: *Microsoft.WindowsAzure.StorageClient.BlobType*

The type of the blob.

*leaseId*

Type: *System.String*

The lease ID, if the blob has an active lease.

*pageBlobSize*

Type: *System.Int64*

For a page blob, the size of the blob. This parameter is ignored for block blobs.

**Return Value**
Type: `System.Net.HttpWebRequest`

A web request to use to perform the operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

BlobRequest Class
BlobRequest Members

Other Resources

Put Blob (REST API)
Put Block (REST API)
BlobRequest.PutBlock Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a web request to write a block to a block blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```
Dim uri As Uri
Dim timeout As Integer
Dim blockId As String
Dim leaseId As String
Dim returnValue As HttpWebRequest

returnValue = BlobRequest.PutBlock(uri, timeout, blockId)
```
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public Shared Function PutBlock ( _</td>
<td></td>
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<tr>
<td>uri As Uri, _</td>
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<tr>
<td>timeout As Integer, _</td>
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<tr>
<td>blockId As String, _</td>
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<tr>
<td>leaseId As String _</td>
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<tr>
<td>) As HttpWebRequest</td>
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</tr>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public static HttpWebRequest PutBlock (</td>
<td></td>
</tr>
<tr>
<td>Uri uri,</td>
<td></td>
</tr>
<tr>
<td>int timeout,</td>
<td></td>
</tr>
<tr>
<td>string blockId,</td>
<td></td>
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<tr>
<td>string leaseId</td>
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<td>)</td>
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<td><strong>C++</strong></td>
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<tr>
<td>public:</td>
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<tr>
<td>static HttpWebRequest^ PutBlock (</td>
<td></td>
</tr>
<tr>
<td>Uri^ uri,</td>
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<tr>
<td>int timeout,</td>
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<td>String^ blockId,</td>
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<td>String^ leaseId</td>
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<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
**Parameters**

*uri*

Type: `System.Uri`

The absolute URI to the blob.

*timeout*

Type: `System.Int32`

The server timeout interval.

*blockId*

Type: `System.String`

The block ID for this block.

*leaseId*

Type: `System.String`

The lease ID for the blob, if it has an active lease.

**Return Value**

Type: `System.Net.HttpWebRequest`

A web request to use to perform the operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
See Also

Reference
BlobRequest Class
BlobRequest Members

Other Resources
Put Block (REST API)
Put Block List (REST API)
### BlobRequest.PutBlockList Method

#### See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.]

Constructs a web request to create or update a blob by committing a block list.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

<table>
<thead>
<tr>
<th>Dim uri As Uri</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim timeout As Integer</td>
</tr>
<tr>
<td>Dim properties As BlobProperties</td>
</tr>
<tr>
<td>Dim leaseId As String</td>
</tr>
<tr>
<td>Dim returnValue As HttpWebRequest</td>
</tr>
</tbody>
</table>

```vbscript
returnValue = BlobRequest.PutBlockList(uri, timeout,
```
### Syntax

#### Visual Basic

```vbnet
Public Shared Function PutBlockList (_
    uri As Uri, _
    timeout As Integer, _
    properties As BlobProperties, _
    leaseId As String _
) As HttpWebRequest
```

#### C#

```csharp
public static HttpWebRequest PutBlockList (_
    Uri uri,
    int timeout,
    BlobProperties properties,
    string leaseId
)
```

#### C++

```cpp
public:
    static HttpWebRequest^ PutBlockList (_
        Uri^ uri,
        int timeout,
        BlobProperties^ properties,
        String^ leaseId
    )
```

#### J#

```jsharp```

#### JScript

```jscript```
Parameters

uri
Type: System.Uri

The absolute URI to the blob.

timeout
Type: System.Int32

The server timeout interval.

properties
Type: Microsoft.WindowsAzure.StorageClient.BlobProperties

The properties to set for the blob.

leaseId
Type: System.String

The lease ID, if the blob has an active lease.

Return Value

Type: System.Net.HttpWebRequest

A web request for performing the operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobRequest Class
BlobRequest Members

Other Resources
Put Block List (REST API)
Get Block List (REST API)
Understanding Block Blobs and Page Blobs
BlobRequest.PutPage Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a web request to write or clear a range of pages in a page blob.

**Usage**

### Visual Basic

```vbnet
Dim uri As Uri
Dim timeout As Integer
Dim properties As PutPageProperties
Dim leaseId As String
Dim returnValue As HttpWebRequest

returnValue = BlobRequest.PutPage(uri, timeout, properties)
```
Syntax

Visual Basic

Public Shared Function PutPage ( _
    uri As Uri, _
    timeout As Integer, _
    properties As PutPageProperties, _
    leaseId As String _
) As HttpWebRequest

C#

public static HttpWebRequest PutPage ( _
    Uri uri, _
    int timeout, _
    PutPageProperties properties, _
    string leaseId _
)

C++

public:
    static HttpWebRequest^ PutPage ( _
        Uri^ uri, _
        int timeout, _
        PutPageProperties^ properties, _
        String^ leaseId _
    )

J#

JScript
**Parameters**

*uri*

Type: `System.Uri`

The absolute URI to the blob.

*timeout*

Type: `System.Int32`

The server timeout interval.

*properties*


The blob's properties.

*leaseId*

Type: `System.String`

The lease ID, if the blob has an active lease.

**Return Value**

Type: `System.Net.HttpWebRequest`

A web request to use to perform the operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobRequest Class
BlobRequest Members

Other Resources
Operations on Page Blobs
Put Page (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a web request to set user-defined metadata for the blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim uri As Uri
Dim timeout As Integer
Dim leaseId As String
Dim returnValue As.HttpWebRequest

returnValue = BlobRequest.SetMetadata(uri, timeout, leaseId)
## Syntax

### Visual Basic

```vbnet
Public Shared Function SetMetadata ( _
    uri As Uri, _
    timeout As Integer, _
    leaseId As String _
) As HttpWebRequest
```

### C#

```csharp
public static HttpWebRequest SetMetadata (
    Uri uri,
    int timeout,
    string leaseId
)
```

### C++

```cpp
public:
static HttpWebRequest^ SetMetadata ( 
    Uri^ uri,
    int timeout,
    String^ leaseId
)
```

### J#

```jsharp```

### JScript

```jscript```

### Parameters

- `uri`
Type: **System.Uri**

The absolute URI to the blob.

*timeout*
Type: **System.Int32**

The server timeout interval.

*leaseId*
Type: **System.String**

The lease ID, if the blob has an active lease.

**Return Value**

Type: **System.Net.HttpWebRequest**

A web request for performing the operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
**Platforms**

**Development Platforms**
See Also

Reference
BlobRequest Class
BlobRequest Members

Other Resources
Setting and Retrieving Properties and Metadata for Blob Resources (REST API)
Get Container Metadata (REST API)
Set Container Metadata (REST API)
Get Blob Metadata (REST API)
Set Blob Metadata (REST API)
**BlobRequest.SetProperties Method**

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a web request to set system properties for a blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim uri As Uri
Dim timeout As Integer
Dim properties As BlobProperties
Dim leaseId As String
Dim newBlobSize As Nullable(Of Long)
Dim returnValue As HttpWebRequest

returnValue = BlobRequest.SetProperties(uri, timeout,
**Syntax**

**Visual Basic**

```
Public Shared Function SetProperties (_
    uri As Uri, _
    timeout As Integer, _
    properties As BlobProperties, _
    leaseId As String, _
    newBlobSize As Nullable(Of Long) _
) As HttpWebRequest
```

**C#**

```
public static HttpWebRequest SetProperties (?
    Uri uri,
    int timeout,
    BlobProperties properties,
    string leaseId,
    Nullable<long> newBlobSize
)
```

**C++**

```
public:
static HttpWebRequest^ SetProperties (?
    Uri^ uri,
    int timeout,
    BlobProperties^ properties,
    String^ leaseId,
    Nullable<long long> newBlobSize
)
```

**J#**

```null```
**Parameters**

- **uri**
  - Type: `System.Uri`
  - The absolute URI to the blob.

- **timeout**
  - Type: `System.Int32`
  - The server timeout interval.

- **properties**
  - The blob's properties.

- **leaseId**
  - Type: `System.String`
  - The lease ID, if the blob has an active lease.

- **newBlobSize**
  - Type: `System.Nullable`
  - The new blob size, if the blob is a page blob. Set this parameter to `null` to keep the existing blob size.

**Return Value**

- Type: `System.Net.HttpWebRequest`
  - A web request to use to perform the operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
See Also

Reference
BlobRequest Class
BlobRequest Members

Other Resources
Get Blob Properties (REST API)
Set Blob Properties (REST API)
Sets the properties of an account’s Blob service.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim uri As Uri
Dim timeout As Integer
Dim returnValue As HttpWebRequest

returnValue = BlobRequest.SetServiceProperties(uri, timeout)
### Syntax

#### Visual Basic

```vbnet
Public Shared Function SetServiceProperties ( _
    uri As Uri, _
    timeout As Integer _
) As HttpWebRequest
```

#### C#

```csharp
public static HttpWebRequest SetServiceProperties (  
    Uri uri,  
    int timeout
)
```

#### C++

```cpp
public:
    static HttpWebRequest^ SetServiceProperties (  
        Uri^ uri,  
        int timeout
    )
```

#### J#

```jsharp```

#### JScript

```
```

### Parameters

**uri**

The absolute URI to the Blob service.

**timeout**

A timeout value, in seconds.
Return Value

Returns `HttpWebRequest`. 
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobRequest Class
BlobRequest Members

Other Resources
Get Blob Service Properties
Set Blob Service Properties
BlobRequest.SignRequest Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Signs the request for Shared Key authentication.

## Usage

**Visual Basic**

```vbnet
Dim request As HttpWebRequest
Dim credentials As Credentials

BlobRequest.SignRequest(request, credentials)
```
### Syntax

#### Visual Basic

Public Shared Sub SignRequest ( _
    request As HttpWebRequest, _
    credentials As Credentials _
)

#### C#

public static void SignRequest (  
    HttpWebRequest request,  
    Credentials credentials
)

#### C++

public:
    static void SignRequest (  
        HttpWebRequest^ request,  
        Credentials^ credentials
    )

#### J#

#### JScript

### Parameters

*request*

Type: System.Net.HttpWebRequest

The web request.
credentials

The account credentials.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.


- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobRequest Class
BlobRequest Members

Other Resources
Managing Access to Blobs and Containers
Creating a Shared Access Signature
Using a Container-Level Access Policy
Using a Shared Access Signature (REST API)
Table Service Extensions
BlobRequest.SignRequestForSharedKeyLite Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Signs the request for Shared Key Lite authentication.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbscript
Dim request As HttpWebRequest
Dim credentials As Credentials

BlobRequest.SignRequestForSharedKeyLite(request, cred)
```
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| **Public Shared Sub** `SignRequestForSharedKeyLite (_
| request As `HttpWebRequest`, _
| credentials As `Credentials`_)** |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
</table>
| **public static void** `SignRequestForSharedKeyLite (**
| `HttpWebRequest` request,**
| `Credentials` credentials** |

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| **public:**
| **static void** `SignRequestForSharedKeyLite (**
| `HttpWebRequest`^ request,**
| `Credentials`^ credentials** |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>

### Parameters

- **request**
  - Type: `System.Net.HttpWebRequest`

  The web request.
credentials

The account credentials.
**Remarks**

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

BlobRequest Class
BlobRequest Members

Other Resources

Managing Access to Blobs and Containers
Creating a Shared Access Signature
Using a Container-Level Access Policy
Using a Shared Access Signature (REST API)
Table Service Extensions
## BlobRequest.Snapshot Method

### See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a web request to create a snapshot of a blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

#### Visual Basic

```vbnet
Dim uri As Uri
Dim timeout As Integer
Dim returnValue As HttpWebRequest

returnValue = BlobRequest.Snapshot(uri, timeout)
```
## Syntax

### Visual Basic

Public Shared Function Snapshot ( _
    uri As Uri, _
    timeout As Integer _
) As HttpWebRequest

### C#

```csharp
public static HttpWebRequest Snapshot (  
    Uri uri,
    int timeout
)
```

### C++

```c++
public:
static HttpWebRequest^ Snapshot (  
    Uri^ uri,
    int timeout
)
```

### J#

```
```

### JScript

```
```

## Parameters

`uri`

Type: `System.Uri`

The absolute URI to the blob.
timeout
Type: System.Int32

The server timeout interval.

Return Value
Type: System.Net.HttpWebRequest

A web request to use to perform the operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe. 
  Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
See Also

Reference
BlobRequest Class
BlobRequest Members

Other Resources
Working with Snapshots
Understanding How Snapshots Accrue Charges
Snapshot Blob (REST API)
BlobRequest.WriteBlockListBody Method

<table>
<thead>
<tr>
<th>See Also</th>
</tr>
</thead>
</table>

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Writes the body of the block list to the specified stream in XML format.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim blocks As IEnumerable(Of PutBlockListItem)
Dim outputStream As Stream

BlobRequest.WriteBlockListBody(blocks, outputStream)
```
## Syntax

### Visual Basic

```vbnet
Public Shared Sub WriteBlockListBody (_
    blocks As IEnumerable(Of PutBlockListItem), _
    outputStream As Stream _
)
```

### C#

```csharp
public static void WriteBlockListBody (  
    IEnumerable<PutBlockListItem> blocks,  
    Stream outputStream
)
```

### C++

```cpp
public:
static void WriteBlockListBody (  
    IEnumerable<PutBlockListItem>^ blocks,  
    Stream^ outputStream
)
```

### J#

```

```

### JScript

```

```

### Parameters

**blocks**

Type: System.Collections.Generic.IEnumerable

An enumerable collection of PutBlockListItem objects.
outputStream
Type: System.IO.Stream

The stream to which the block list is written.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobRequest Class
BlobRequest Members

Other Resources
Get Block List (REST API)
Put Block List (REST API)
BlobRequest.WriteServiceProperties Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Writes the Blob service properties to an output stream.

**Usage**

**Visual Basic**

```vbnet
Dim properties As ServiceProperties
Dim outputStream As Stream

BlobRequest.WriteServiceProperties(properties, outputStream)
```
## Syntax

**Visual Basic**

```vbnet
Public Shared Sub WriteServiceProperties ( _
    properties As ServiceProperties, _
    outputStream As Stream _
)
```

**C#**

```csharp
public static void WriteServiceProperties ( 
    ServiceProperties properties, 
    Stream outputStream 
)
```

**C++**

```cpp
public:
static void WriteServiceProperties ( 
    ServiceProperties^ properties, 
    Stream^ outputStream 
)
```

**J#**

```jsharp
```

**JScript**

```
```

## Parameters

- **properties**
  - The Blob service properties.

- **outputStream**
  - The stream to be written.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobRequest Class
BlobRequest Members

Other Resources
Get Blob Service Properties
BlobResponse Class

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Provides a set of methods for parsing responses from blob operations.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

| Visual Basic |
## Syntax

### Visual Basic

```vbnet
Public NotInheritable Class BlobResponse
```

### C#

```csharp
public static class BlobResponse
```

### C++

```cpp
public ref class BlobResponse abstract sealed
```

### J#

```jsharp
```

### JScript

```javascript
```
Inheritance Hierarchy

System.Object
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobResponse Members
BlobResponse Members

See Also Methods

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Provides a set of methods for parsing responses from blob operations.

The following tables list the members exposed by the BlobResponse type.
# Public Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GetAttributes</code></td>
<td>Gets the blob's attributes, including its metadata and properties, from the response.</td>
</tr>
<tr>
<td><code>GetBlockList</code></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><code>WithError</code></td>
<td>Returns extended error information from the storage service, that is in addition to the HTTP status code returned with the response.</td>
</tr>
<tr>
<td><code>GetMetadata</code></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><code>GetPageRanges</code></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><code>GetRequestId</code></td>
<td>Gets the request ID from the response.</td>
</tr>
<tr>
<td><code>GetSnapshotTime</code></td>
<td>Gets the snapshot timestamp from the response.</td>
</tr>
<tr>
<td><code>List</code></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><code>ReadServiceProperties</code></td>
<td>Gets an account’s Blob service properties from an input stream.</td>
</tr>
</tbody>
</table>
See Also

Reference

BlobResponse Class
BlobResponse Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GetAttributes</td>
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</tr>
<tr>
<td>GetBlockList</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>GetError</td>
<td>Returns extended error information from the storage service, that is in addition to the HTTP status code returned with the response.</td>
</tr>
<tr>
<td>GetMetadata</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>GetPageRanges</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>GetRequestId</td>
<td>Gets the request ID from the response.</td>
</tr>
<tr>
<td>GetSnapshotTime</td>
<td>Gets the snapshot timestamp from the response.</td>
</tr>
<tr>
<td>List</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>ReadServiceProperties</td>
<td>Gets an account’s Blob service properties from an input stream.</td>
</tr>
</tbody>
</table>
See Also

Reference

BlobResponse Class
BlobResponse.GetAttributes Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the blob's attributes, including its metadata and properties, from the response.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim response As HttpWebResponse
Dim returnValue As BlobAttributes

returnValue = BlobResponse.GetAttributes(response)
```
## Syntax

**Visual Basic**

```vbscript
Public Shared Function GetAttributes ( _
    response As HttpHeaders _
) As BlobAttributes
```

**C#**

```csharp
public static BlobAttributes GetAttributes ( HttpHeaders response
)
```

**C++**

```cpp
public:
static BlobAttributes^ GetAttributes ( HttpHeaders^ response
)
```

**J#**

```jscript

```

**JScript**

```javascript

```

## Parameters

**response**

Type: `System.Net.HttpWebResponse`

The web response.

## Return Value

Type: `Microsoft.WindowsAzure.StorageClient.BlobAttributes`
The blob's attributes.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
- **Thread Safety**

  Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobResponse Class
BlobResponse Members

Other Resources
Operations on Blobs
Setting and Retrieving Properties and Metadata for Blob Resources (REST API)
Get Blob Metadata (REST API)
Set Blob Metadata (REST API)
BlobResponse.GetBlockList Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BlobResponse.GetBlockList (Stream)</td>
<td>Parses the response for an operation that returns a block list for the blob.</td>
</tr>
<tr>
<td>BlobResponse.GetBlockList (HttpWebResponse)</td>
<td>Parses the response for an operation that returns a block list for the blob.</td>
</tr>
</tbody>
</table>
See Also

Reference
BlobResponse Class
BlobResponse Members

Other Resources
Operations on Blobs
Get Block List (REST API)
Put Block List (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Parses the response for an operation that returns a block list for the blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vba
Dim stream As Stream
Dim returnValue As GetBlockListResponse

returnValue = BlobResponse.GetBlockList(stream)
```
### Syntax

**Visual Basic**

Public Shared Function GetBlockList ( _
    stream As Stream _
) As GetBlockListResponse

---

**C#**

```csharp
public static GetBlockListResponse GetBlockList ( Stream stream
```

---

**C++**

```cpp
public:
    static GetBlockListResponse^ GetBlockList ( Stream^ stream
```

---

**J#**

---

**JScript**

---

### Parameters

- **stream**
  - Type: `System.IO.Stream`
  - The response stream.

### Return Value

An object that may be used for parsing data from the results of an operation to return a block list.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobResponse Class
BlobResponse Members

Other Resources
Operations on Blobs
Get Block List (REST API)
Put Block List (REST API)
BlobResponse.GetBlockList Method (HttpResponse)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Parses the response for an operation that returns a block list for the blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim response As HttpWebResponse
Dim returnValue As GetBlockListResponse

returnValue = BlobResponse.GetBlockList(response)
```
## Syntax

### Visual Basic

```vbscript
Public Shared Function GetBlockList ( _
    response As HttpWebResponse _
) As GetBlockListResponse
```

### C#

```csharp
public static GetBlockListResponse GetBlockList ( HttpWebResponse response )
```

### C++

```cpp
public:
static GetBlockListResponse^ GetBlockList ( HttpWebResponse^ response )
```

### J#

```jsharp

```

### JScript

```jscript

```

## Parameters

- **response**
  - Type: `System.Net.HttpWebResponse`
  - The web response.

## Return Value

An object that may be used for parsing data from the results of an operation to return a block list.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobResponse Class
BlobResponse Members

Other Resources
Operations on Blobs
Get Block List (REST API)
Put Block List (REST API)
BlobResponse.GetError Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns extended error information from the storage service, that is in addition to the HTTP status code returned with the response.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim response As HttpWebResponse
Dim returnValue As StorageExtendedErrorInformation

returnValue = BlobResponse.GetError(response)
```
### Parameters

<table>
<thead>
<tr>
<th>parameter</th>
<th>description</th>
</tr>
</thead>
</table>
| response  | Type: `System.Net.HttpWebResponse`  
The web response. |

### Return Value
Type: 
`Microsoft.WindowsAzure.StorageClient.StorageExtendedErrorInformation`

An object containing extended error information returned with the response.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobResponse Class
BlobResponse Members

Other Resources
Operations on Blobs
Blob Service Error Codes
Status and Error Codes
BlobResponse.GetMetadata Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BlobResponse.GetMetadata</strong> <em>(HttpWebResponse)</em></td>
<td>Gets a collection of user-defined metadata from the response.</td>
</tr>
<tr>
<td><strong>BlobResponse.GetMetadata</strong> <em>(HttpWebResponse, String)</em></td>
<td>Gets an array of values for a specified name-value pair from a response that includes user-defined metadata.</td>
</tr>
</tbody>
</table>
See Also

Reference
BlobResponse Class
BlobResponse Members

Other Resources
Operations on Blobs
Get Blob Metadata (REST API)
Set Blob Metadata (REST API)
BlobResponse.GetMetadata Method (HttpWebResponse)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a collection of user-defined metadata from the response.

### Usage

#### Visual Basic

```vbnet
Dim response As HttpResponse
Dim returnValue As NameValueCollection

returnValue = BlobResponse.GetMetadata(response)
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| Visual Basic | ```
Public Shared Function GetMetadata (_
    response As HttpWebResponse _
) As NameValueCollection
``` |
| C# | ```
public static NameValueCollection GetMetadata (HttpWebResponse response)
``` |
| C++ | ```
public:
static NameValueCollection^ GetMetadata (HttpWebResponse^ response)
``` |
| J# | ```

```
```
| JScript | ```

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```

```
A collection of user-defined metadata, as name-value pairs.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

BlobResponse Class
BlobResponse Members

Other Resources

Operations on Blobs
Get Blob Metadata (REST API)
Set Blob Metadata (REST API)
BlobResponse.GetMetadata Method (HttpWebResponse, String)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets an array of values for a specified name-value pair from a response that includes user-defined metadata.

## Usage

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Dim response As **HttpWebResponse**  
Dim name As **String**  
Dim returnValue As **String**()  

returnValue = **BlobResponse**.GetMetadata(response, name)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **Visual Basic** | ```
Public Shared Function GetMetadata ( response As HttpWebResponse, name As String ) As String()
``` |
| **C#** | ```
public static string[] GetMetadata ( HttpWebResponse response, string name )
``` |
| **C++** | ```
public:
static array<String^>^ GetMetadata ( HttpWebResponse^ response, String^ name)
``` |
| **J#** | ```
``` |
| **JScript** | ```
``` |

### Parameters

- **response**
  - Type: `System.Net.HttpWebResponse`

  The web response.
name
   Type: System.String

   The name associated with the metadata values to return.

Return Value

An array of metadata values.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobResponse Class
BlobResponse Members

Other Resources
Operations on Blobs
Get Blob Metadata (REST API)
Set Blob Metadata (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BlobResponse.GetPageRanges(Stream)</td>
<td>Parses the response for an operation that returns a range of pages.</td>
</tr>
<tr>
<td>BlobResponse.GetPageRanges(HttpWebResponse)</td>
<td>Parses the response for an operation that returns a range of pages.</td>
</tr>
</tbody>
</table>
See Also

Reference
BlobResponse Class
BlobResponse Members

Other Resources
Operations on Blobs
Operations on Page Blobs
Get Page Ranges (REST API)
Put Page (REST API)
BlobResponse.GetPageRanges Method (Stream)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Parses the response for an operation that returns a range of pages.

**Usage**

**Visual Basic**

Dim stream As Stream
Dim returnValue As GetPageRangesResponse

returnValue = BlobResponse.GetPageRanges(stream)
## Syntax

### Visual Basic

```vbnet
Public Shared Function GetPageRanges ( Stream stream ) As GetPageRangesResponse
```

### C#

```csharp
public static GetPageRangesResponse GetPageRanges ( Stream stream )
```

### C++

```cpp
public:
static GetPageRangesResponse GetPageRanges ( Stream^ stream )
```

### J#

### JScript

### Parameters

- **stream**
  - Type: `System.IO.Stream`
  - The response stream.

### Return Value

- Type:
An object that may be used for parsing data from the results of an operation to return a range of pages.
**Remarks**

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobResponse Class
BlobResponse Members

Other Resources
Operations on Blobs
Operations on Page Blobs
Get Page Ranges (REST API)
Put Page (REST API)
BlobResponse.GetPageRanges Method (HttpWebResponse)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Parses the response for an operation that returns a range of pages.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim response As HttpWebResponse
Dim returnValue As GetPageRangesResponse

returnValue = BlobResponse.GetPageRanges(response)
### Syntax

#### Visual Basic

```vbnet
Public Shared Function GetPageRanges ( _
    response As HttpWebResponse _
) As GetPageRangesResponse
```

#### C#

```csharp
public static GetPageRangesResponse GetPageRanges (HttpWebResponse response)
```

#### C++

```cpp
public:
static GetPageRangesResponse^ GetPageRanges (HttpWebResponse^ response)
```

#### J#

```jsharp```

#### JScript

```jscript```

### Parameters

- **response**
  - Type: `System.Net.HttpWebResponse`
    - The web response.

### Return Value

- Type:

An object that may be used for parsing data from the results of an operation to return a range of pages.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
See Also

Reference
BlobResponse Class
BlobResponse Members

Other Resources
Operations on Blobs
Operations on Page Blobs
Get Page Ranges (REST API)
Put Page (REST API)
**BlobResponse.GetRequestId Method**

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.]

Gets the request ID from the response.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim response As HttpHeaders
Dim returnValue As String

returnValue = BlobResponse.GetRequestId(response)
```
## Syntax

### Visual Basic

```vbnet
Public Shared Function GetRequestId ( _
    response As HttpWebResponse _
) As String
```

### C#

```csharp
public static string GetRequestId (  
    HttpWebResponse response  
)
```

### C++

```cpp
public:  
    static String^ GetRequestId (  
        HttpWebResponse^ response  
    )
```

### J#

```jsharp```

### JScript

```jscript```

## Parameters

- **response**
  
  Type: `System.Net.HttpWebResponse`

  The web response.

## Return Value

Type: `System.String`
A unique value associated with the request.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobResponse Class
BlobResponse Members

Other Resources
Operations on Blobs
The x-ms-request-id Header
BlobResponse.GetSnapshotTime Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the snapshot timestamp from the response.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim response As HttpWebResponse
Dim returnValue As String

returnValue = BlobResponse.GetSnapshotTime(response)
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Shared Function GetSnapshotTime ( _response As HttpWebResponse _) As String</td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public static string GetSnapshotTime ( HttpWebResponse response )</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public: static String^ GetSnapshotTime ( HttpWebResponse^ response )</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Parameters

**response**
- Type: System.Net.HttpWebResponse
  - The web response.

### Return Value

Type: System.String
The snapshot timestamp.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobResponse Class
BlobResponse Members

Other Resources
Operations on Blobs
Snapshot Blob (REST API)
BlobResponse.List Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>BlobResponse.List (Stream)</code></td>
<td>Parses the response for a blob listing operation.</td>
</tr>
<tr>
<td><code>BlobResponse.List (HttpWebResponse)</code></td>
<td>Parses the response for a blob listing operation.</td>
</tr>
</tbody>
</table>
See Also

Reference
BlobResponse Class
BlobResponse Members

Other Resources
Operations on Blobs
Enumerating Blob Resources (REST API)
List Blobs (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Parses the response for a blob listing operation.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```
Dim stream As Stream
Dim returnValue As ListBlobsResponse

returnValue = BlobResponse.List(stream)
```
## Syntax

### Visual Basic

Public Shared Function List (  
    stream As Stream  
) As ListBlobsResponse

### C#

public static ListBlobsResponse List (  
    Stream stream  
)

### C++

public:  
static ListBlobsResponse^ List (  
    Stream^ stream  
)

### J#

### JScript

<table>
<thead>
<tr>
<th>Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>stream</code></td>
</tr>
<tr>
<td>Type: <code>System.IO.Stream</code></td>
</tr>
<tr>
<td>The response stream.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Return Value</th>
</tr>
</thead>
</table>
An object that may be used for parsing data from the results of a blob listing operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in [See Also > Other Resources](#).
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
See Also

Reference
BlobResponse Class
BlobResponse Members

Other Resources
Operations on Blobs
Enumerating Blob Resources (REST API)
List Blobs (REST API)
Parses the response for a blob listing operation.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim response As HttpWebResponse
Dim returnValue As ListBlobsResponse

returnValue = BlobResponse.List(response)
## Parameters

**response**
Type: `System.Net.HttpWebResponse`

The web response.

## Return Value
An object that may be used for parsing data from the results of a blob listing operation.
**Remarks**

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.
  Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
See Also

Reference
BlobResponse Class
BlobResponse Members

Other Resources
Operations on Blobs
Enumerating Blob Resources (REST API)
List Blobs (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets an account’s Blob service properties from an input stream.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim inputStream As Stream
Dim returnValue As ServiceProperties

returnValue = BlobResponse.ReadServiceProperties(inputStream)
```
### Syntax

**Visual Basic**

```vbnet
Public Shared Function ReadServiceProperties ( _
    inputStream As Stream _
) As ServiceProperties
```

**C#**

```csharp
public static ServiceProperties ReadServiceProperties (  
    Stream inputStream
)
```

**C++**

```cpp
public:  
static ServiceProperties^ ReadServiceProperties (  
    Stream^ inputStream
)
```

**J#**

```jsharp```

**JScript**

```jscript```

### Parameters

**inputStream**

The input stream to retrieve the service properties from.

### Return Value

Returns an ServiceProperties object that contains the account’s Table service properties.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
BlobResponse Class
BlobResponse Members

Other Resources
Operations on Blobs
Setting and Retrieving Properties and Metadata for Blob Resources (REST API)
Standard HTTP Properties for Containers and Blobs
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Indicates which block lists should be searched to find a specified block.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dim instance As <strong>BlockSearchMode</strong></td>
</tr>
<tr>
<td>Syntax</td>
<td></td>
</tr>
<tr>
<td>--------</td>
<td></td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public Enumeration BlockSearchMode</td>
<td></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public enum BlockSearchMode</td>
<td></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td></td>
</tr>
<tr>
<td>public enum class BlockSearchMode</td>
<td></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Committed</td>
<td>Search the committed block list only.</td>
</tr>
<tr>
<td>Latest</td>
<td>Search the uncommitted block list first, and if the block is not found there, search the committed block list.</td>
</tr>
<tr>
<td>Uncommitted</td>
<td>Search the uncommitted block list only.</td>
</tr>
</tbody>
</table>
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Platforms

Development Platforms
See Also

Reference

Other Resources
Operations on Blobs
Get Block List (REST API)
Put Block List (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents the base canonicalization strategy used to authenticate a request against the storage services.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As CanonicalizationStrategy
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public MustInherit Class CanonicalizationStrategy</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public abstract class CanonicalizationStrategy</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public ref class CanonicalizationStrategy abstract</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>
Inheritance Hierarchy

System.Object


Microsoft.WindowsAzure.StorageClient.Protocol.SharedKeyLiteTableCanonicalizer

Microsoft.WindowsAzure.StorageClient.Protocol.SharedKeyTableCanonicalizer
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CanonicalizationStrategy Members
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents the base canonicalization strategy used to authenticate a request against the storage services.

The following tables list the members exposed by the CanonicalizationStrategy type.
## Protected Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CanonicalizationStrategy</td>
<td></td>
</tr>
</tbody>
</table>

[Top](#)
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="CanonicalizeHttpRequest" /></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><img src="image" alt="Equals" /></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><img src="image" alt="GetHashCode" /></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><img src="image" alt="GetType" /></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><img src="image" alt="ToString" /></td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Protected</strong> AppendStringToCanonicalizedString</td>
<td>Appends a string to the canonicalized resource string.</td>
</tr>
<tr>
<td><strong>Protected</strong> CanonicalizeHttpRequest</td>
<td>Overloaded.</td>
</tr>
<tr>
<td><strong>Protected</strong> CanonicalizeHttpRequestVersion2</td>
<td>Constructs a canonicalized string from the request's headers that will be used to construct the signature string for signing a Blob or Queue service request under the Shared Key Lite authentication scheme.</td>
</tr>
<tr>
<td><strong>Finalize</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td><strong>Protected</strong> GetCanonicalizedResource</td>
<td>Gets the canonicalized resource string for a Blob or Queue service request under the Shared Key Lite authentication scheme.</td>
</tr>
<tr>
<td><strong>Protected</strong> GetCanonicalizedResourceVersion2</td>
<td>Gets the canonicalized resource string for a Blob or Queue service request under the Shared Key authentication scheme.</td>
</tr>
<tr>
<td><strong>Protected</strong> GetHeaderValue</td>
<td>Returns an <strong>ArrayList</strong> of HTTP header values for a named header.</td>
</tr>
<tr>
<td><strong>Protected</strong> GetStandardHeaderValue</td>
<td>Gets the value of a standard HTTP header.</td>
</tr>
<tr>
<td><strong>MemberwiseClone</strong></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
See Also

Reference
CanonicalizationStrategy Class
CanonicalizationStrategy Constructor

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the CanonicalizationStrategy Class.

**Usage**

**Visual Basic**

```visualbasic
Dim instance As New CanonicalizationStrategy
```
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protected Sub New</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>protected CanonicalizationStrategy ()</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>protected: CanonicalizationStrategy ()</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Platforms

Development Platforms
See Also

Reference
CanonicalizationStrategy Class
CanonicalizationStrategy Members

Other Resources
Authentication Schemes
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CanonicalizeHttpRequest</code></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><code>Equals</code></td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
<tr>
<td><code>GetHashCode</code></td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
<tr>
<td><code>GetType</code></td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
<tr>
<td><code>ToString</code></td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AppendStringToCanonicalizedString</td>
<td>Appends a string to the canonicalized resource string.</td>
</tr>
<tr>
<td>CanonicalizeHttpRequest</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>CanonicalizeHttpRequestVersion2</td>
<td>Constructs a canonicalized string from the request's headers that will be used to construct the signature string for signing a Blob or Queue service request under the Shared Key Lite authentication scheme.</td>
</tr>
<tr>
<td>Finalize</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetCanonicalizedResource</td>
<td>Gets the canonicalized resource string for a Blob or Queue service request under the Shared Key Lite authentication scheme.</td>
</tr>
<tr>
<td>GetCanonicalizedResourceVersion2</td>
<td>Gets the canonicalized resource string for a Blob or Queue service request under the Shared Key authentication scheme.</td>
</tr>
<tr>
<td>GetHeaderValue</td>
<td>Returns an ArrayList of HTTP header values for a named header.</td>
</tr>
<tr>
<td>GetStandardHeaderValue</td>
<td>Gets the value of a standard HTTP header.</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
See Also

Reference
CanonicalizationStrategy Class
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Appends a string to the canonicalized resource string.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

#### Visual Basic

```vbnet
Dim canonicalizedString As StringBuilder
Dim stringToAppend As String
Dim returnValue As String

returnValue = CanonicalizationStrategy.AppendStringToCanonicalizedString
```
## Syntax

### Visual Basic

Protected Shared Function AppendStringToCanonicalizedString (
    canonicalizedString As StringBuilder, 
    stringToAppend As String
) As String

### C#

protected static string AppendStringToCanonicalizedString (
    StringBuilder canonicalizedString, 
    string stringToAppend
)

### C++

protected:
static String^ AppendStringToCanonicalizedString ( 
    StringBuilder^ canonicalizedString, 
    String^ stringToAppend
)

### J#


### JScript


## Parameters

- **canonicalizedString**
  - Type: System.Text.StringBuilder
The canonicalized resource string.

stringToAppend
Type: System.String

The string to append.

Return Value
Type: System.String

The modified canonicalized resource string.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CanonicalizationStrategy Class
CanonicalizationStrategy Members

Other Resources
Authentication Schemes
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CanonicalizationStrategy.CanonicalizeHttpRequest (HttpWebRequest, String)</td>
<td>Constructs a canonicalized string for signing a request.</td>
</tr>
<tr>
<td>CanonicalizationStrategy.CanonicalizeHttpRequest (Uri, String, String, String, String, NameValueCollection)</td>
<td>Constructs a canonicalized string from the request's headers that will be used to construct the signature string for signing a Blob or Queue service request under the Shared Key Lite authentication scheme.</td>
</tr>
</tbody>
</table>
See Also

Reference
CanonicalizationStrategy Class
CanonicalizationStrategy Members

Other Resources
Authentication Schemes
Constructs a canonicalized string for signing a request.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As CanonicalizationStrategy
Dim request As HttpWebRequest
Dim accountName As String
Dim returnValue As String

returnValue = instance.CanonicalizeHttpRequest(request)
## Syntax

### Visual Basic

```vbnet
Public MustOverride Function CanonicalizeHttpRequest (_
    request As HttpWebRequest, _
    accountName As String _
) As String
```

### C#

```csharp
public abstract string CanonicalizeHttpRequest (
    HttpWebRequest request,
    string accountName
)
```

### C++

```cpp
public:
    virtual String^ CanonicalizeHttpRequest ( 
        HttpWebRequest^ request, 
        String^ accountName 
    ) abstract
```

### J#

```jsharp```

### JScript

```jscript```

## Parameters

`request`

Type: `System.Net.HttpWebRequest`

The web request.
accountName
Type: System.String

The name of the storage account.

**Return Value**

Type: System.String

A canonicalized string.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CanonicalizationStrategy Class
CanonicalizationStrategy Members

Other Resources
Authentication Schemes
Constructs a canonicalized string from the request's headers that will be used to construct the signature string for signing a Blob or Queue service request under the Shared Key Lite authentication scheme.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim address As Uri
Dim accountName As String
Dim method As String
Dim contentType As String
Dim date As String
Dim headers As NameValueCollection
Dim returnValue As String

returnValue = CanonicalizationStrategy.CanonicalizeHttpRequest
```
### Syntax

#### Visual Basic

Protected Shared Function CanonicalizeHttpRequest (  
    address As Uri, _  
    accountName As String, _  
    method As String, _  
    contentType As String, _  
    date As String, _  
    headers As NameValueCollection _  
) As String

#### C#

protected static string CanonicalizeHttpRequest (  
    Uri address,  
    string accountName,  
    string method,  
    string contentType,  
    string date,  
    NameValueCollection headers  
)

#### C++

protected:
static String^ CanonicalizeHttpRequest (  
    Uri^ address,  
    String^ accountName,  
    String^ method,  
    String^ contentType,  
    String^ date,  
    NameValueCollection^ headers  
)
Parameters

address
Type: System.Uri
The request URI.

accountName
Type: System.String
The storage account name.

method
Type: System.String
The verb to be used for the HTTP request.

contentType
Type: System.String
The content type of the HTTP request.

date
Type: System.String
The date/time specification for the HTTP request.

headers
Type: System.Collections.Specialized.NameValueCollection
A collection of additional headers specified on the HTTP request.

Return Value
Type: System.String
A canonicalized string.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CanonicalizationStrategy Class
CanonicalizationStrategy Members

Other Resources
Authentication Schemes
**CanonicalizationStrategy.CanonicalizeHttpRequestVersion2 Method**

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a canonicalized string from the request's headers that will be used to construct the signature string for signing a Blob or Queue service request under the Shared Key Lite authentication scheme.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim address As Uri
Dim accountName As String
Dim method As String
Dim contentType As String
Dim contentLength As Long
Dim date As String
Dim headers As NameValueCollection
Dim returnValue As String

returnValue = CanonicalizationStrategy.CanonicalizeHttpRequestVersion2
Syntax

Visual Basic

Protected Shared Function CanonicalizeHttpRequestVersion2
( _
    address As Uri, _
    accountName As String, _
    method As String, _
    contentType As String, _
    contentLength As Long, _
    date As String, _
    headers As NameValueCollection _
) As String

C#

protected static string CanonicalizeHttpRequestVersion2
(
    Uri address,
    string accountName,
    string method,
    string contentType,
    long contentLength,
    string date,
    NameValueCollection headers
)

C++

protected:
static String^ CanonicalizeHttpRequestVersion2 ( 
    Uri^ address,
    String^ accountName,
    String^ method,
    String^ contentType,
    long long contentLength,
Parameters

address
Type: System.Uri

The request URI.

accountName
Type: System.String

The storage account name.

method
Type: System.String

The verb to be used for the HTTP request.

contentType
Type: System.String

The content type of the HTTP request.

contentLength
Type: System.Int64

The length of the HTTP request, in bytes.

date
Type: System.String
The date/time specification for the HTTP request.

headers
Type: System.Collections.Specialized.NameValueCollection
A collection of additional headers specified on the HTTP request.

Return Value
Type: System.String
A canonicalized string.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CanonicalizationStrategy Class
CanonicalizationStrategy Members

Other Resources
Authentication Schemes
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the canonicalized resource string for a Blob or Queue service request under the Shared Key Lite authentication scheme.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim address As Uri
Dim accountName As String
Dim returnValue As String

returnValue = CanonicalizationStrategy.GetCanonicalizationStrategy()
```
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protected Shared Function GetCanonicalizedResource (</td>
</tr>
<tr>
<td>address As Uri, _</td>
</tr>
<tr>
<td>accountName As String _</td>
</tr>
<tr>
<td>) As String</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>protected static string GetCanonicalizedResource (</td>
</tr>
<tr>
<td>Uri address,</td>
</tr>
<tr>
<td>string accountName</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>protected:</td>
</tr>
<tr>
<td>static String^ GetCanonicalizedResource (</td>
</tr>
<tr>
<td>Uri^ address,</td>
</tr>
<tr>
<td>String^ accountName</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

**Parameters**

*address*

Type: System.Uri

The resource URI.
accountName
Type: System.String

The name of the storage account.

Return Value
Type: System.String

The canonicalized resource string.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (*Shared* in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
See Also

Reference
CanonicalizationStrategy Class
CanonicalizationStrategy Members

Other Resources
Authentication Schemes
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the canonicalized resource string for a Blob or Queue service request under the Shared Key authentication scheme.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim address As Uri
Dim accountName As String
Dim returnValue As String

returnValue = CanonicalizationStrategy.GetCanonicalizationStrategy()
```
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protected Shared Function GetCanonicalizedResourceVersion2</td>
</tr>
<tr>
<td>( _ address As Uri, _ accountName As String _ ) As String</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>protected static string GetCanonicalizedResourceVersion2</td>
</tr>
<tr>
<td>( Uri address, string accountName</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>protected: static String^ GetCanonicalizedResourceVersion2 ( Uri^ address, String^ accountName</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

**Parameters**

**address**

Type: System.Uri
The resource URI.

accountName
Type: System.String

The name of the storage account.

Return Value

Type: System.String

The canonicalized resource string.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CanonicalizationStrategy Class
CanonicalizationStrategy Members

Other Resources
Authentication Schemes
Returns an `ArrayList` of HTTP header values for a named header.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim headers As NameValueCollection
Dim headerName As String
Dim returnValue As ArrayList

returnValue = CanonicalizationStrategy.GetHeaderValue
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Protected Shared Function GetHeaderValues ( _
  headers As NameValueCollection, _
  headerName As String _
) As ArrayList |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>protected static ArrayList GetHeaderValues (</td>
</tr>
</tbody>
</table>
  NameValueCollection headers, |
  string headerName |
) |

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>protected:</td>
</tr>
<tr>
<td>static ArrayList^ GetHeaderValues (</td>
</tr>
</tbody>
</table>
  NameValueCollection^ headers, |
  String^ headerName |
) |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

### Parameters

<table>
<thead>
<tr>
<th>headers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type: System.Collections.Specialized.NameValueCollection</td>
</tr>
<tr>
<td>A collection of HTTP headers as name-values pairs.</td>
</tr>
</tbody>
</table>
**headerName**

Type: `System.String`

The name of the header to return.

**Return Value**

Type: `System.Collections.ArrayList`

An `ArrayList` of HTTP header values, stored in the same order as they appear in the collection.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CanonicalizationStrategy Class
CanonicalizationStrategy Members
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the value of a standard HTTP header.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim headers As *NameValueCollection*
Dim headerName As *String*
Dim returnValue As *String*

returnValue = *CanonicalizationStrategy*.GetStandardHeaderValue
### Syntax

#### Visual Basic

Protected Shared Function GetStandardHeaderValue ( _
    headers As NameValueCollection, _
    headerName As String _
) As String

#### C#

protected static string GetStandardHeaderValue ( _
    NameValueCollection headers, _
    string headerName
)

#### C++

protected: _
static String^ GetStandardHeaderValue ( _
    NameValueCollection^ headers, _
    String^ headerName
)

#### J#


#### JScript


### Parameters

- **headers**
  - Type: `System.Collections.Specialized.NameValueCollection`

  The collection of headers.
**headerName**
Type: **System.String**

The name of the header.

**Return Value**
Type: **System.String**

The header value.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
CanonicalizationStrategy Class
CanonicalizationStrategy Members

Other Resources
Authentication Schemes
**ConditionHeaderKind Enumeration**

### See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Specifies the kinds of conditional headers that may be set for a request.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim instance As <strong>ConditionHeaderKind</strong></td>
</tr>
</tbody>
</table>
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Public Enumeration ConditionHeaderKind</code></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>public enum ConditionHeaderKind</code></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>public enum class ConditionHeaderKind</code></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IfMatch</td>
<td>The If-Match header.</td>
</tr>
<tr>
<td>IfModifiedSince</td>
<td>The If-Modified-Since header.</td>
</tr>
<tr>
<td>IfNoneMatch</td>
<td>The If-None-Match header.</td>
</tr>
<tr>
<td>IfUnmodifiedSince</td>
<td>The If-Unmodified-Since header.</td>
</tr>
<tr>
<td>None</td>
<td>Indicates that no conditional headers are set.</td>
</tr>
</tbody>
</table>
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Platforms

Development Platforms
See Also

Reference

Other Resources
Specifying Conditional Headers for Blob Service Operations
HTTP Response Codes for Operations Supporting Conditional Headers
Operations Supporting Conditional Headers
Supported Conditional Headers
Provides a set of methods for constructing requests for container operations.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**
## Syntax

**Visual Basic**

```
Public NotInheritable Class ContainerRequest
```

**C#**

```
public static class ContainerRequest
```

**C++**

```
public ref class ContainerRequest abstract sealed
```

**J#**

```
```

**JScript**

```
```
Inheritance Hierarchy

System.Object
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

ContainerRequest Members
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Provides a set of methods for constructing requests for container operations.

The following tables list the members exposed by the `ContainerRequest` type.
## Public Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AddConditional</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>AddMetadata</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>Create</td>
<td>Constructs a web request to create a new container.</td>
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<tr>
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<tr>
<td>GetMetadata</td>
<td>Constructs a web request to retrieve the container's metadata.</td>
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<td>GetProperties</td>
<td>Constructs a web request to return the user-defined metadata for this container.</td>
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<tr>
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<tr>
<td>SetAcl</td>
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<tr>
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<td>Constructs a web request to set user-defined metadata for the container.</td>
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<tr>
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<td>Signs the request for Shared Key authentication.</td>
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ContainerRequest Class
**ContainerRequest Methods**

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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See Also

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ContainerRequest Class
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

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<td><code>ContainerRequest.AddConditional(HttpWebRequest, ConditionHeaderKind, DateTime)</code></td>
<td>Adds a conditional header to the request.</td>
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<td><code>ContainerRequest.AddConditional(HttpWebRequest, ConditionHeaderKind, String)</code></td>
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</table>
See Also

Reference

ContainerRequest Class
ContainerRequest Members

Other Resources

Specifying Conditional Headers for Blob Service Operations
Set Container Metadata (REST API)
Delete Container (REST API)
ContainerRequest.AddConditional Method (HttpRequest, ConditionHeaderKind, DateTime)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Adds a conditional header to the request.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Dim request As HttpWebRequest
Dim header As ConditionHeaderKind
Dim dateTime As DateTime

ContainerRequest.AddConditional(request, header, dateTime)
## Syntax

### Visual Basic

```vbnet
Public Shared Sub AddConditional ( _
    request As HttpWebRequest, _
    header As ConditionHeaderKind, _
    dateTime As DateTime _
)
```

### C#

```csharp
public static void AddConditional (  
    HttpWebRequest request,  
    ConditionHeaderKind header,  
    DateTime dateTime
)
```

### C++

```cpp
public:
static void AddConditional (  
    HttpWebRequest^ request,  
    ConditionHeaderKind header,  
    DateTime dateTime
)
```

### J#

```jsharp
```

### JScript

```javascript
```

## Parameters

*request*
Type: `System.Net.HttpWebRequest`  
The web request.

*header*  
Type:  
The type of conditional header to add.

*dateTime*  
Type: `System.DateTime`  
The date and time specification for the request.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
- **Thread Safety**

  Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

ContainerRequest Class
ContainerRequest Members

Other Resources

Specifying Conditional Headers for Blob Service Operations
Set Container Metadata (REST API)
Delete Container (REST API)
ContainerRequest.AddConditional Method (HttpWebRequest, ConditionHeaderKind, String)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Adds a conditional header to the request.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```
Dim request As HttpWebRequest
Dim header As ConditionHeaderKind
Dim etag As String

ContainerRequest.AddConditional(request, header, etag)
```
Syntax

Visual Basic

Public Shared Sub AddConditional ( _
    request As HttpWebRequest, _
    header As ConditionHeaderKind, _
    etag As String _
)

C#

public static void AddConditional ( 
    HttpWebRequest request, 
    ConditionHeaderKind header, 
    string etag
)

C++

public: 
    static void AddConditional ( 
        HttpRequest^ request, 
        ConditionHeaderKind header, 
        String^ etag
    )

J#

JScript

Parameters

request
Type: `System.Net.HttpWebRequest`

The web request.

*header*

The type of conditional header to add.

*etag*
Type: `System.String`

The container's ETag.
**Remarks**

For more details about this API, see the topics on the equivalent REST APIs in **See Also > Other Resources.**
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

ContainerRequest Class
ContainerRequest Members

Other Resources

Specifying Conditional Headers for Blob Service Operations
Set Container Metadata (REST API)
Delete Container (REST API)
ContainerRequest.AddMetadata Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
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<tbody>
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<td><code>ContainerRequest.AddMetadata (HttpWebRequest, NameValueCollection)</code></td>
<td>Adds user-defined metadata to the request as one or more name-value pairs.</td>
</tr>
<tr>
<td><code>ContainerRequest.AddMetadata (HttpWebRequest, String, String)</code></td>
<td>Adds user-defined metadata to the request as a single name-value pair.</td>
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See Also

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ContainerRequest Class
ContainerRequest Members

Other Resources

Naming and Referencing Containers, Blobs, and Metadata
Setting and Retrieving Properties and Metadata for Blob Resources (REST API)
Get Container Metadata (REST API)
Set Container Metadata (REST API)
Adds user-defined metadata to the request as one or more name-value pairs.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim request As HttpWebRequest
Dim metadata As NameValueCollection

ContainerRequest.AddMetadata(request, metadata)
```
### Syntax

**Visual Basic**

```vbnet
Public Shared Sub AddMetadata ( _
    request As HttpWebRequest, _
    metadata As NameValueCollection _
)
```

**C#**

```csharp
public static void AddMetadata (  
    HttpWebRequest request,
    NameValueCollection metadata
)
```

**C++**

```cpp
public:
static void AddMetadata (  
    HttpWebRequest^ request, 
    NameValueCollection^ metadata
)
```

**J#**

```jsharp```

**JScript**

```javascript```

### Parameters

- **request**

  Type: `System.Net.HttpWebRequest`

  The web request.
**metadata**

Type: `System.Collections.Specialized.NameValueCollection`

The user-defined metadata.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
*Thread Safety*

Any public static (*Shared in Visual Basic*) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
- ContainerRequest Class
- ContainerRequest Members

Other Resources
- Naming and Referencing Containers, Blobs, and Metadata
- Setting and Retrieving Properties and Metadata for Blob Resources (REST API)
- Get Container Metadata (REST API)
- Set Container Metadata (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Adds user-defined metadata to the request as a single name-value pair.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim request As HttpWebRequest
Dim name As String
Dim value As String

ContainerRequest.AddMetadata(request, name, value)
Syntax

Visual Basic

Public Shared Sub AddMetadata ( _
    request As HttpWebRequest, _
    name As String, _
    value As String _
)

C#

public static void AddMetadata (  
    HttpWebRequest request,  
    string name,  
    string value
)

C++

public:
  static void AddMetadata (  
    HttpWebRequest^ request,  
    String^ name,  
    String^ value
  )

J#

JScript

Parameters

request
Type: **System.Net.HttpWebRequest**

The web request.

**name**
Type: **System.String**

The metadata name.

**value**
Type: **System.String**

The metadata value.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ContainerRequest Class
ContainerRequest Members

Other Resources
Naming and Referencing Containers, Blobs, and Metadata
Setting and Retrieving Properties and Metadata for Blob Resources (REST API)
Get Container Metadata (REST API)
Set Container Metadata (REST API)
### ContainerRequest.Create Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a web request to create a new container.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

**Visual Basic**

```vbnet
Dim uri As Uri
Dim timeout As Integer
Dim returnValue As HttpWebRequest

returnValue = ContainerRequest.Create(uri, timeout)
```
### Syntax

#### Visual Basic

```vbnet
Public Shared Function Create ( _
    uri As Uri, _
    timeout As Integer _
) As HttpWebRequest
```

#### C#

```csharp
public static HttpWebRequest Create (  
    Uri uri,  
    int timeout
)
```

#### C++

```cpp
public:
static HttpWebRequest Create ( 
    Uri uri, 
    int timeout
)
```

#### J#

```jsharp```

#### JScript

```jscript```

### Parameters

**uri**

Type: `System.Uri`

The absolute URI to the container.
timeout
Type: System.Int32

The server timeout interval.

Return Value

Type: System.Net.HttpWebRequest

A web request to use to perform the operation.
 Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ContainerRequest Class
ContainerRequest Members

Other Resources
Create Container (REST API)
Delete Container (REST API)
List Blobs (REST API)
ContainerRequest.Delete Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a web request to delete the container and all of blobs within it.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim uri As Uri
Dim timeout As Integer
Dim returnvalue As HttpWebRequest

returnValue = ContainerRequest.Delete(uri, timeout)
### Syntax

<table>
<thead>
<tr>
<th><strong>Visual Basic</strong></th>
</tr>
</thead>
</table>
| Public Shared Function Delete ( _  
| uri As Uri, _ 
| timeout As Integer _  
| ) As HttpWebRequest |

<table>
<thead>
<tr>
<th><strong>C#</strong></th>
</tr>
</thead>
</table>
| public static HttpWebRequest Delete ( 
| Uri uri, 
| int timeout 
| ) |

<table>
<thead>
<tr>
<th><strong>C++</strong></th>
</tr>
</thead>
</table>
| public: 
| static HttpWebRequest^ Delete ( 
| Uri^ uri, 
| int timeout 
| ) |

<table>
<thead>
<tr>
<th><strong>J#</strong></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>JScript</strong></th>
</tr>
</thead>
</table>

### Parameters

**uri**

Type: System.Uri

The absolute URI to the container.
timeout
Type: System.Int32

The server timeout interval.

Return Value

Type: System.Net.HttpWebRequest

A web request to use to perform the operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

ContainerRequest Class
ContainerRequest Members

Other Resources

Create Container (REST API)
Delete Container (REST API)
List Blobs (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

**ContainerRequest.GetAcl Method**

**See Also**

Constructs a web request to return the ACL for this container.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim uri As Uri
Dim timeout As Integer
Dim returnValue As HttpWebRequest

returnValue = ContainerRequest.GetAcl(uri, timeout)
```
**Syntax**

**Visual Basic**

```vbnet
Public Shared Function GetAcl ( _
    uri As Uri, _
    timeout As Integer _
) As HttpWebRequest
```

**C#**

```csharp
public static HttpWebRequest GetAcl (  
    Uri uri,  
    int timeout  
)
```

**C++**

```cpp
public:
    static HttpWebRequest GetAcl (  
        Uri^ uri,  
        int timeout  
    )
```

**J#**

```
```

**JScript**

```
```

**Parameters**

*uri*

Type: `System.Uri`

The absolute URI to the container.
timeout
Type: System.Int32
The server timeout interval.

Return Value
Type: System.Net.HttpWebRequest
A web request to use to perform the operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
- **Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

ContainerRequest Class
ContainerRequest Members

Other Resources

Get Container Metadata (REST API)
Set Container Metadata (REST API)
ContainerRequest.GetMetadata Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a web request to retrieve the container's metadata.

### Usage

#### Visual Basic

```vbnet
Dim uri As Uri
Dim timeout As Integer
Dim returnValue As HttpWebRequest

returnValue = ContainerRequest.GetMetadata(uri, timeout)
```
### Syntax

#### Visual Basic

```vbnet
Public Shared Function GetMetadata ( _
    uri As Uri, _
    timeout As Integer _
) As HttpWebRequest
```

#### C#

```csharp
public static HttpWebRequest GetMetadata ( 
    Uri uri, 
    int timeout
)
```

#### C++

```cpp
public:  
static HttpWebRequest^ GetMetadata ( 
    Uri^ uri,  
    int timeout
)
```

#### J#

```
```

#### JScript

```
```

### Parameters

- **uri**
  - Type: `System.Uri`
  
    The absolute URI to the container.
timeout
Type: System.Int32
The server timeout interval.

Return Value
Type: System.Net.HttpWebRequest
A web request to use to perform the operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ContainerRequest Class
ContainerRequest Members

Other Resources
Naming and Referencing Containers, Blobs, and Metadata
Setting and Retrieving Properties and Metadata for Blob Resources (REST API)
Get Container Metadata (REST API)
Set Container Metadata (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a web request to return the user-defined metadata for this container.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

### Visual Basic

```vbnet
Dim uri As Uri
Dim timeout As Integer
Dim returnValue As HttpWebRequest

returnValue = ContainerRequest.GetProperties(uri, timeout)
```
### Syntax

#### Visual Basic

```vbnet
Public Shared Function GetProperties ( _
    uri As Uri, _
    timeout As Integer _
) As HttpWebRequest
```

#### C#

```csharp
public static HttpWebRequest GetProperties ( 
    Uri uri,
    int timeout
)
```

#### C++

```cpp
public:
static HttpWebRequest^ GetProperties ( 
    Uri^ uri,
    int timeout
)
```

#### J#

```
```

#### JScript

```
```

### Parameters

**uri**

Type: System.Uri

The absolute URI to the container.
timeout
Type: System.Int32

The server timeout interval.

Return Value
Type: System.Net.HttpWebRequest

A web request to use to perform the operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ContainerRequest Class
ContainerRequest Members

Other Resources
Get Container Properties (REST API)
ContainerRequest.List Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a web request to return a listing of all containers in this storage account.

**Usage**

### Visual Basic

```vbnet
Dim uri As Uri
Dim timeout As Integer
Dim listingContext As ListingContext
Dim detailsIncluded As ContainerListingDetails
Dim returnValue As HttpWebRequest

returnValue = ContainerRequest.List(uri, timeout, listingContext, detailsIncluded)
```
## Syntax

### Visual Basic

```vbnet
Public Shared Function List ( _
    uri As Uri, _
    timeout As Integer, _
    listingContext As ListingContext, _
    detailsIncluded As ContainerListingDetails _
) As HttpWebRequest
```

### C#

```csharp
public static HttpWebRequest List (  
    Uri uri,  
    int timeout,  
    ListingContext listingContext,  
    ContainerListingDetails detailsIncluded
)
```

### C++

```cpp
public:  
static HttpWebRequest^ List (  
    Uri^ uri,  
    int timeout,  
    ListingContext^ listingContext,  
    ContainerListingDetails detailsIncluded
)
```

### J#

```jsharp
```

### JScript

```jscript
```
**Parameters**

*uri*

Type: System.Uri

The absolute URI for the account.

*timeout*

Type: System.Int32

The server timeout interval.

*listingContext*


A set of parameters for the listing operation.

*detailsIncluded*

Type: Microsoft.WindowsAzure.StorageClient.ContainerListingDetails

Additional details to return with the listing.

**Return Value**

Type: System.Net.HttpWebRequest

A web request for the specified operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ContainerRequest Class
ContainerRequest Members

Other Resources
Create Container (REST API)
Delete Container (REST API)
List Blobs (REST API)
Sets the ACL for the container.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim uri As Uri
Dim timeout As Integer
Dim publicAccess As BlobContainerPublicAccessType
Dim returnValue As HttpWebRequest

returnValue = ContainerRequest.SetAcl(uri, timeout, publicAccess)
```
Syntax

Visual Basic

Public Shared Function SetAcl ( _
    uri As Uri, _
    timeout As Integer, _
    publicAccess As BlobContainerPublicAccessType _
) As HttpWebRequest

C#

public static HttpWebRequest SetAcl (  
    Uri uri,  
    int timeout,  
    BlobContainerPublicAccessType publicAccess  
)

C++

public:  
static HttpWebRequest^ SetAcl (  
    Uri^ uri,  
    int timeout,  
    BlobContainerPublicAccessType publicAccess  
)

J#

JScript

Parameters

uri
Type: **System.Uri**

The absolute URI to the container.

**timeout**
Type: **System.Int32**

The server timeout interval.

**publicAccess**
Type: [Microsoft.WindowsAzure.StorageClient.BlobContainerPublicAccessType](#)

The type of public access to allow for the container.

**Return Value**
Type: **System.Net.HttpWebRequest**

A web request to use to perform the operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ContainerRequest Class
ContainerRequest Members

Other Resources
Get Container Metadata (REST API)
Set Container Metadata (REST API)
### ContainerRequest.SetMetadata Method

<table>
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<tr>
<th>See Also</th>
</tr>
</thead>
</table>

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.]

Constructs a web request to set user-defined metadata for the container.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim uri As Uri
Dim timeout As Integer
Dim returnValue As HttpWebRequest

returnValue = ContainerRequest.SetMetadata(uri, timeout)
```
### Syntax

#### Visual Basic

```vbnet
Public Shared Function SetMetadata (_
    uri As Uri, _
    timeout As Integer _
  ) As HttpWebRequest
```

#### C#

```csharp
public static HttpWebRequest SetMetadata (  
    Uri uri, 
    int timeout
  )
```

#### C++

```cpp
public:  
    static HttpWebRequest^ SetMetadata (  
        Uri^ uri, 
        int timeout
    )
```

#### J#

#### JScript

#### Parameters

- **uri**
  - Type: `System.Uri`
    - The absolute URI to the container.
timeout
Type: System.Int32

The server timeout interval.

Return Value
Type: System.Net.HttpWebRequest

A web request to use to perform the operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ContainerRequest Class
ContainerRequest Members

Other Resources
Naming and Referencing Containers, Blobs, and Metadata
Setting and Retrieving Properties and Metadata for Blob Resources (REST API)
Get Container Metadata (REST API)
Set Container Metadata (REST API)
**ContainerRequest.SignRequest Method**

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Signs the request for Shared Key authentication.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```
Dim request As HttpWebRequest
Dim credentials As Credentials

ContainerRequest.SignRequest(request, credentials)
```
## Syntax

### Visual Basic

```vbnet
Public Shared Sub SignRequest ( request As HttpRequest, credentials As Credentials )
```

### C#

```csharp
public static void SignRequest ( HttpRequest request, Credentials credentials )
```

### C++

```cpp
public:
static void SignRequest ( HttpRequest^ request, Credentials^ credentials )
```

### J#

```jsharp

```

### JScript

```

### Parameters

- **request**
  - Type: `System.Net.HttpWebRequest`

  The web request.
credentials

The account credentials.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

ContainerRequest Class
ContainerRequest Members

Other Resources

Creating a Shared Access Signature
Lifetime and Revocation of a Shared Access Signature
Using a Shared Access Signature (REST API)
Operations on Containers
ContainerRequest.SignRequestForSharedKeyLite Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Signs the request for Shared Key Lite authentication.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim request As HttpWebRequest
Dim credentials As Credentials

ContainerRequest.SignRequestForSharedKeyLite(request,
```
Syntax

Visual Basic

Public Shared Sub SignRequestForSharedKeyLite ( _
    request As HttpWebRequest, _
    credentials As Credentials _
)

C#

public static void SignRequestForSharedKeyLite ( _
    HttpWebRequest request, _
    Credentials credentials _
)

C++

public:
static void SignRequestForSharedKeyLite ( _
    HttpWebRequest^ request, _
    Credentials^ credentials _
)

J#


JScript

Parameters

request
Type: System.Net.HttpWebRequest

The web request.
credentials

The account credentials.
 Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

ContainerRequest Class
ContainerRequest Members

Other Resources

Creating a Shared Access Signature
Table Service Extensions
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

 Writes a collection of shared access policies to the specified stream in XML format.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim sharedAccessPolicies As SharedAccessPolicies
Dim outputStream As Stream

ContainerRequest.WriteSharedAccessIdentifiers(sharedAccessPolicies)
```
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Public Shared Sub WriteSharedAccessIdentifiers ( 
| sharedAccessPolicies As SharedAccessPolicies,
| outputStream As Stream _ |
| )          |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
</table>
| public static void WriteSharedAccessIdentifiers ( 
| SharedAccessPolicies sharedAccessPolicies, 
| Stream outputStream |
| ) |

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| public:
| static void WriteSharedAccessIdentifiers ( 
| SharedAccessPolicies^ sharedAccessPolicies, 
| Stream^ outputStream |
| ) |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>

**Parameters**

*sharedAccessPolicies*


A collection of shared access policies.
outputStream
Type: System.IO.Stream

An output stream.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
See Also

Reference
ContainerRequest Class
ContainerRequest Members

Other Resources
Managing Access to Blobs and Containers
Using a Shared Access Signature (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Provides a set of methods for parsing responses from container operations.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<p>| Usage | Visual Basic |</p>
<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td>Public NotInheritable Class ContainerResponse</td>
</tr>
<tr>
<td>C#</td>
<td>public static class ContainerResponse</td>
</tr>
<tr>
<td>C++</td>
<td>public ref class ContainerResponse abstract sealed</td>
</tr>
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<td>J#</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>
**Inheritance Hierarchy**

System.Object
- **Thread Safety**
  
  Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

ContainerResponse Members
Provides a set of methods for parsing responses from container operations.

The following tables list the members exposed by the `ContainerResponse` type.
## Public Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="s" /> GetAcl</td>
<td>Gets the ACL for the container from the response.</td>
</tr>
<tr>
<td><img src="image" alt="s" /> GetAttributes</td>
<td>Gets the container's attributes, including its metadata and properties, from the response.</td>
</tr>
<tr>
<td><img src="image" alt="s" /> GetError</td>
<td>Returns extended error information from the storage service, that is in addition to the HTTP status code returned with the response.</td>
</tr>
<tr>
<td><img src="image" alt="s" /> GetMetadata</td>
<td>Overloaded.</td>
</tr>
<tr>
<td><img src="image" alt="s" /> GetRequestId</td>
<td>Gets the request ID from the response.</td>
</tr>
<tr>
<td><img src="image" alt="s" /> List</td>
<td>Parses the response for a container listing operation.</td>
</tr>
</tbody>
</table>
See Also

Reference

ContainerResponse Class
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>🔄 GetAcl</td>
<td>Gets the ACL for the container from the response.</td>
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<tr>
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<td>Gets the container's attributes, including its metadata and properties, from the response.</td>
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<tr>
<td>🔄 GetError</td>
<td>Returns extended error information from the storage service, that is in addition to the HTTP status code returned with the response.</td>
</tr>
<tr>
<td>🔄 GetMetadata</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>🔄 GetRequestId</td>
<td>Gets the request ID from the response.</td>
</tr>
<tr>
<td>🔄 List</td>
<td>Parses the response for a container listing operation.</td>
</tr>
</tbody>
</table>
See Also

Reference

ContainerResponse Class
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the ACL for the container from the response.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

#### Visual Basic

Dim response As [HttpWebResponse](http)
Dim returnValue As [String](http)

returnValue = [ContainerResponse](http).GetAcl(response)
### Syntax

#### Visual Basic

Public Shared Function GetAcl ( _
    response As HttpWebResponse _
) As String

#### C#

public static string GetAcl (  
    HttpWebResponse response
)

#### C++

public:
static String^ GetAcl (  
    HttpWebResponse^ response
)

#### J#

#### JScript

### Parameters

- **response**
  - Type: System.Net.HttpWebResponse
  - The web response.

### Return Value

- Type: System.String
A value indicating the public access level for the container.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ContainerResponse Class
ContainerResponse Members

Other Resources
Get Container ACL (REST API)
Get Container Properties (REST API)
Get Container Metadata (REST API)
ContainerResponse.GetAttributes Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the container's attributes, including its metadata and properties, from the response.

Declaring variables and obtaining the container attributes in Visual Basic:

```vbnet
Dim response As HttpWebResponse
Dim returnValue As BlobContainerAttributes

returnValue = ContainerResponse.GetAttributes(response)
```
Syntax

Visual Basic

Public Shared Function GetAttributes ( _
    response As HttpWebResponse _
) As BlobContainerAttributes

C#

public static BlobContainerAttributes GetAttributes (
    HttpWebResponse response
)

C++

public:
static BlobContainerAttributes^ GetAttributes ( 
    HttpWebResponse^ response
)

J#

JScript

Parameters

response
Type: System.Net.HttpWebResponse

The web response.

Return Value

Type: Microsoft.WindowsAzure.StorageClient.BlobContainerAttributes
The container's attributes.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ContainerResponse Class
ContainerResponse Members

Other Resources
Get Container Properties (REST API)
Get Container Metadata (REST API)
Set Container Metadata (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns extended error information from the storage service, that is in addition to the HTTP status code returned with the response.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim response As HttpWebResponse
Dim returnValue As StorageExtendedErrorInformation

returnValue = ContainerResponse.GetError(response)
```
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Shared Function GetError (<em>response As HttpWebResponse</em>) As StorageExtendedErrorInformation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public static StorageExtendedErrorInformation GetError (HttpWebResponse response)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: static StorageExtendedErrorInformation^ GetError (HttpWebResponse^ response)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

### Parameters

*response*

Type: `System.Net.HttpWebResponse`

The web response.

### Return Value
Type:
Microsoft.WindowsAzure.StorageClient.StorageExtendedErrorInformation

An object containing extended error information returned with the response.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

ContainerResponse Class
ContainerResponse Members

Other Resources

Blob Service Error Codes
Common REST API Error Codes
ContainerResponse.GetMetadata Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>&lt;ContainerResponse.GetMetadata&gt;</code> (HttpWebResponse)</td>
<td>Gets a collection of user-defined metadata from the response.</td>
</tr>
<tr>
<td><code>&lt;ContainerResponse.GetMetadata&gt;</code> (HttpWebResponse, String)</td>
<td>Gets an array of values for a specified name value pair from the user-defined metadata included in the response.</td>
</tr>
</tbody>
</table>
See Also

Reference

ContainerResponse Class
ContainerResponse Members

Other Resources

Get Container Properties (REST API)
Get Container Metadata (REST API)
Set Container Metadata (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a collection of user-defined metadata from the response.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim response As HttpWebResponse
Dim returnValue As NameValueCollection

returnValue = ContainerResponse.GetMetadata(response)
Syntax

Visual Basic

Public Shared Function GetMetadata ( _
    response As HttpWebResponse _
) As NameValueCollection

C#

public static NameValueCollection GetMetadata ( HttpWebResponse response

C++

public:
static NameValueCollection^ GetMetadata ( HttpWebResponse^ response

J#


JScript

Parameters

response
Type: System.Net.HttpWebResponse

The web response.

Return Value

Type: System.Collections.Specialized.NameValueCollection
A collection of user-defined metadata, as name-value pairs.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ContainerResponse Class
ContainerResponse Members

Other Resources
Get Container Properties (REST API)
Get Container Metadata (REST API)
Set Container Metadata (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets an array of values for a specified name-value pair from the user-defined metadata included in the response.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim response As HttpWebResponse
Dim name As String
Dim returnValue As String()

returnValue = ContainerResponse.GetMetadata(response,
### Syntax

#### Visual Basic

```vbnet
Public Shared Function GetMetadata ( _
    response As HttpWebResponse, _
    name As String _
) As String()
```

#### C#

```csharp
public static string[] GetMetadata (
    HttpWebResponse response,
    string name
)
```

#### C++

```cpp
public:
static array<String^>^ GetMetadata ( 
    HttpWebResponse^ response,
    String^ name
)
```

#### J#

```
```

#### JScript

```
```

### Parameters

- **response**
  - Type: `System.Net.HttpWebResponse`
    - The web response.
name
Type: System.String

The name associated with the metadata values to return.

Return Value
An array of metadata values.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

ContainerResponse Class
ContainerResponse Members

Other Resources

Get Container Properties (REST API)
Get Container Metadata (REST API)
Set Container Metadata (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the request ID from the response.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim response As HttpWebResponse
Dim returnValue As String

returnValue = ContainerResponse.GetRequestId(response)
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td>Public Shared Function GetRequestId ( _ response As HttpWebResponse _) As String</td>
</tr>
<tr>
<td>C#</td>
<td>public static string GetRequestId ( HttpWebResponse response )</td>
</tr>
<tr>
<td>C++</td>
<td>public: static String^ GetRequestId ( HttpWebResponse^ response )</td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>

### Parameters

- **response**
  - Type: `System.Net.HttpWebResponse`
  - The web response.

### Return Value

- Type: `System.String`
A unique value associated with the request.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also. Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ContainerResponse Class
ContainerResponse Members

Other Resources
The x-ms-request-id Header
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Parses the response for a container listing operation.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim response As HttpWebResponse
Dim returnValue As ListContainersResponse

returnValue = ContainerResponse.List(response)
```
## Syntax

### Visual Basic

```vbnet
Public Shared Function List (response As HttpWebResponse) As ListContainersResponse
```

### C#

```csharp
public static ListContainersResponse List (HttpWebResponse response)
```

### C++

```cpp
public:
static ListContainersResponse^ List (HttpWebResponse^ response)
```

### J#

```jscript

```

### JScript

```javascript

```

## Parameters

**response**

Type: `System.Net.HttpWebResponse`

The web response.

## Return Value

An object that may be used for parsing data from the results of a container listir operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ContainerResponse Class
ContainerResponse Members

Other Resources
List Containers (REST API)
Response
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents the credentials used to sign a request against the storage services.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim instance As Credentials
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Class Credentials</td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public class Credentials</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public ref class Credentials</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Inheritance Hierarchy

System.Object
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
Credentials Members

Other Resources
Managing Access to Blobs and Containers
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents the credentials used to sign a request against the storage services.

The following tables list the members exposed by the Credentials type.
## Public Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credentials</td>
<td>Overloaded.</td>
</tr>
</tbody>
</table>

[Top](#)
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccountName</td>
<td>Gets the account name to be used in signing the request.</td>
</tr>
</tbody>
</table>
### Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ęż Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ę ExportBase64EncodedKey</td>
<td>Exports the value of the access key to a Base64-encoded string.</td>
</tr>
<tr>
<td>ę ExportKey</td>
<td>Exports the value of the access key to an array of bytes.</td>
</tr>
<tr>
<td>ę GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ę GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ę ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>

[Top]
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Finalize</strong></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><strong>MemberwiseClone</strong></td>
<td>(Inherited from Object)</td>
</tr>
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</table>

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See Also

Reference
Credentials Class

Other Resources
Managing Access to Blobs and Containers
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.

Managing Access to Blobs and Containers
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Credentials (String, Byte[])</code></td>
<td>Initializes a new instance of the <a href="#">Credentials</a> class</td>
</tr>
<tr>
<td><code>Credentials (String, String)</code></td>
<td>Initializes a new instance of the <a href="#">Credentials</a> class</td>
</tr>
</tbody>
</table>
See Also

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Credentials Class
Credentials Members

Other Resources
Managing Access to Blobs and Containers
Managing Access to Blobs and Containers
<table>
<thead>
<tr>
<th>Credentials Constructor (String, Byte[])</th>
</tr>
</thead>
</table>

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the **Credentials** class.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

**Visual Basic**

```vbnet
Dim accountName As String
Dim key As Byte()

Dim instance As New Credentials(accountName, key)
```
## Syntax

### Visual Basic

```vbnet
Public Sub New (_
    accountName As String, _
    key As Byte()) _
```

### C#

```csharp
public Credentials (
    string accountName, 
    byte[] key
)
```

### C++

```cpp
public:
Credentials ( 
    String^ accountName, 
    array<unsigned char>^ key
)
```

### J#

```

### JScript

```

## Parameters

*accountName*

Type: `System.String`

The storage account name.
key
   The access key.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Platforms

Development Platforms
See Also

Reference

Credentials Class
Credentials Members

Other Resources

Managing Access to Blobs and Containers
Managing Access to Blobs and Containers
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the Credentials class.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim accountName As String
Dim base64EncodedKey As String

Dim instance As New Credentials(accountName, base64EncodedKey)
**Syntax**

**Visual Basic**

```vbnet
Public Sub New (_
    accountName As String, _
    base64EncodedKey As String _
)
```

**C#**

```csharp
public Credentials (    string accountName,
    string base64EncodedKey
)
```

**C++**

```cpp
public:    Credentials (        String^ accountName,
        String^ base64EncodedKey
    )
```

**J#**

```java
```

**JScript**

```javascript
```

**Parameters**

- `accountName`
  - Type: `System.String`
  - The storage account name.
**base64EncodedKey**

Type: [System.String](#)

The access key, as a Base64-encoded string.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in
See Also > Other Resources.
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See Also

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[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<td>✶ ExportBase64EncodedKey</td>
<td>Exports the value of the access key to a Base64-encoded string.</td>
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<tr>
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<td>Exports the value of the access key to an array of bytes.</td>
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<tr>
<td>✶ GetHashCode</td>
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<tr>
<td>✶ ToString</td>
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## Protected Methods

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<th>Description</th>
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<tr>
<td>Finalize</td>
<td>(Inherited from Object)</td>
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<tr>
<td>MemberwiseClone</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
See Also

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Exports the value of the access key to a Base64-encoded string.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As Credentials
Dim returnValue As String

returnValue = instance.ExportBase64EncodedKey
### Syntax

#### Visual Basic

```
Public Function ExportBase64EncodedKey As String
```

#### C#

```
public string ExportBase64EncodedKey ()
```

#### C++

```
public: String^ ExportBase64EncodedKey ()
```

#### J#

```
```

#### JScript

```
```

### Return Value

Type: System.String

The account access key.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

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See Also

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Managing Access to Blobs and Containers
Credentials.ExportKey Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Exports the value of the access key to an array of bytes.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As Credentials
Dim returnValue As Byte()

returnValue = instance.ExportKey
```
## Syntax

### Visual Basic

```vbnet
Public Function ExportKey As Byte()
```

### C#

```csharp
public byte[] ExportKey()
```

### C++

```cpp
public:
array<unsigned char>^ ExportKey()
```

### J#

```
```

### JScript

```
```

---

**Return Value**

The account access key.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

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[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccountName</td>
<td>Gets the account name to be used in signing the request.</td>
</tr>
</tbody>
</table>
See Also

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Credentials Class

Other Resources
Managing Access to Blobs and Containers
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the account name to be used in signing the request.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As Credentials
Dim value As String

value = instance.AccountName
```
## Syntax

### Visual Basic

```vbp
Public Property AccountName As String
```

### C#

```cs
public string AccountName { get; }
```

### C++

```cpp
public:
property String^ AccountName { String^ get ();
}
```

### J#

```jsharp

```

### JScript

```jscript

```

## Property Value

Type: `System.String`

The name of the account.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

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See Also

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Managing Access to Blobs and Containers
GetBlockListResponse Class

Provides methods for parsing the response from an operation to return a block list.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
<th>Visual Basic</th>
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</thead>
<tbody>
<tr>
<td>Dim instance As <strong>GetBlockListResponse</strong></td>
<td></td>
</tr>
</tbody>
</table>
**Syntax**

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Class GetBlockListResponse Inherits ResponseParsingBase(Of ListBlockItem)</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public class GetBlockListResponse : ResponseParsingBase</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public ref class GetBlockListResponse : public ResponseParsingBase</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Inheritance Hierarchy

System.Object

Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

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Get Block List (REST API)
Provides methods for parsing the response from an operation to return a block list.

The following tables list the members exposed by the `GetBlockListResponse` type.

---

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</thead>
</table>

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Protected Fields

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>allObjectsParsed</td>
<td>Indicates that all parsable objects have been consumed. This field is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td>outstandingObjectsToParse</td>
<td>Stores any objects that have not yet been parsed. This field is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td>reader</td>
<td>(Inherited from ResponseParsingBase)</td>
</tr>
</tbody>
</table>
### Public Properties (see also Protected Properties)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blocks</td>
<td>Gets an enumerable collection of ListBlockItem objects from the response.</td>
</tr>
</tbody>
</table>

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## Protected Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ObjectsToParse</td>
<td>Gets the parsable objects. This method is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
</tr>
</tbody>
</table>
## Public Methods (see also Protected Methods)

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</tr>
</thead>
<tbody>
<tr>
<td>Dispose</td>
<td>Overloaded. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
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</tbody>
</table>

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## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="check" alt="Dispose" /> Dispose</td>
<td>Overloaded. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
<tr>
<td><img src="check" alt="Finalize" /> Finalize</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><img src="check" alt="MemberwiseClone" /> MemberwiseClone</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><img src="check" alt="ParseXml" /> ParseXml</td>
<td>Overridden. Parses the XML response returned by an operation to retrieve a list of blocks.</td>
</tr>
<tr>
<td><img src="check" alt="Variable" /> Variable</td>
<td>This method is reserved and should not be used. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
</tbody>
</table>

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Get Block List (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Protected Fields

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<tr>
<th>Name</th>
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</tr>
</thead>
<tbody>
<tr>
<td>allObjectsParsed</td>
<td>Indicates that all parsable objects have been consumed. This field is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td>outstandingObjectsToParse</td>
<td>Stores any objects that have not yet been parsed. This field is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td>reader</td>
<td>(Inherited from ResponseParsingBase)</td>
</tr>
</tbody>
</table>
See Also

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See Also

This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.
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<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispose</td>
<td>Overloaded. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Dispose] Dispose</td>
<td>Overloaded. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
<tr>
<td>![Finalize] Finalize</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td>![MemberwiseClone] MemberwiseClone</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td>![ParseXml] ParseXml</td>
<td>Overridden. Parses the XML response returned by an operation to retrieve a list of blocks.</td>
</tr>
<tr>
<td>![Variable] Variable</td>
<td>This method is reserved and should not be used. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
</tbody>
</table>
See Also

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GetBlockListResponse Class

Other Resources
Operations on Block Blobs
Get Block List (REST API)
GetBlockListResponse.ParseXml Method

Parses the XML response returned by an operation to retrieve a list of blocks.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Usage

### Visual Basic

```vbnet
Dim returnValue As IEnumerable(Of ListBlockItem)
returnValue = Me.ParseXml
```
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protected Overrides Function ParseXml As IEnumerable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>protected override IEnumerable&lt;ListBlockItem&gt; ParseXml() override</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>protected: virtual IEnumerable&lt;ListBlockItem&gt;^ ParseXml () override</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>

### Return Value

Type: System.Collections.Generic.IEnumerable

An enumerable collection of ListBlockItem objects.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

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[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties (see also Protected Properties)

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<tr>
<th>Name</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>🌟 <strong>Blocks</strong></td>
<td>Gets an enumerable collection of <a href="#">ListBlockItem</a> objects from the response.</td>
</tr>
</tbody>
</table>
## Protected Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>ObjectsToParse</code></td>
<td>Gets the parsable objects. This method is reserved and should not be used.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
</tbody>
</table>
See Also

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Other Resources
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See Also

This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.

Gets an enumerable collection of ListBlockItem objects from the response.

**Usage**

**Visual Basic**

```vbnet
Dim instance As GetBlockListResponse
Dim value As IEnumerable(Of ListBlockItem)

value = instance.Blocks
```
## Syntax

### Visual Basic

Public ReadOnly Property Blocks As IEnumerable(Of ListBlockItem)

### C#

```csharp
public IEnumerable<ListBlockItem> Blocks { get; }
```

### C++

```cpp
public:
property IEnumerable<ListBlockItem^>^ Blocks {
    IEnumerable<ListBlockItem^>^ get ();
}
```

### J#

```
```

### JScript

```
```

### Property Value

Type: System.Collections.Generic.IEnumerable

An enumerable collection of ListBlockItem objects.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
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### GetMessagesResponse Class

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[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](Storage_Client_Library) for the latest version.]

Provides methods for parsing the response from an operation to get messages from a queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

`Dim instance As GetMessagesResponse`
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Class GetMessagesResponse</td>
</tr>
<tr>
<td>Inherits ResponseParsingBase(Of QueueMessage)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public class GetMessagesResponse : ResponseParsingBase</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public ref class GetMessagesResponse : public ResponseParsingBase</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
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<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Inheritance Hierarchy

System.Object

**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

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GetMessagesResponse Members

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[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Provides methods for parsing the response from an operation to get messages from a queue.

The following tables list the members exposed by the `GetMessagesResponse` type.
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<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>allObjectsParsed</td>
<td>Indicates that all parsable objects have been consumed. This field is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
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<tr>
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<td>Stores any objects that have not yet been parsed. This field is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
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<tr>
<td>reader</td>
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</tr>
</tbody>
</table>
## Public Properties (see also Protected Properties)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>⚑ Messages</td>
<td>Gets an enumerable collection of QueueMessage objects from the response.</td>
</tr>
</tbody>
</table>

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## Protected Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ObjectsToParse</td>
<td>Gets the parsable objects. This method is reserved and should not be used.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from ResponseParsingBase)</td>
</tr>
</tbody>
</table>

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### Public Methods (see also **Protected Methods**)

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<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispose</td>
<td>Overloaded. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
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<td>GetType</td>
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</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td>ParseXml</td>
<td>Overridden. Parses the XML response returned by an operation to get messages from a queue.</td>
</tr>
<tr>
<td>Variable</td>
<td>This method is reserved and should not be used. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
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[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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</table>
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[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Methods (see also Protected Methods)

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td><code>Dispose</code></td>
<td>Overloaded. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td><code>Equals</code></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><code>GetHashCode</code></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><code>GetType</code></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><code>ToString</code></td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispose</td>
<td>Overloaded. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
<tr>
<td><strong>Finalize</strong></td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>MemberwiseClone</strong></td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td>ParseXml</td>
<td>Overridden. Parses the XML response returned by an operation to get messages from a queue.</td>
</tr>
<tr>
<td><strong>Variable</strong></td>
<td>This method is reserved and should not be used. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
</tbody>
</table>
See Also

Reference
GetMessagesResponse Class

Other Resources
List Queues
Operations on Queues
GetMessagesResponse.ParseXml Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Parses the XML response returned by an operation to get messages from a queue.

Usage

Visual Basic

Dim returnValue As IEnumerable(Of QueueMessage)

returnValue = Me.ParseXml
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Protected Overrides Function ParseXml As IEnumerable&lt;QueueMessage&gt;</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>protected override IEnumerable&lt;QueueMessage&gt; ParseXml()</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>protected: virtual IEnumerable&lt;QueueMessage&gt; ParseXml()</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>

### Return Value

Type: `System.Collections.Generic.IEnumerable`  
An enumerable collection of `QueueMessage` objects.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
GetMessagesResponse Class
GetMessagesResponse Members

Other Resources
List Queues
Operations on Queues
GetMessagesResponse Properties

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Properties (see also Protected Properties)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Messages</td>
<td>Gets an enumerable collection of QueueMessage objects from the response.</td>
</tr>
</tbody>
</table>
## Protected Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ObjectsToParse</strong></td>
<td>Gets the parsable objects. This method is reserved and should not be used.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
</tbody>
</table>
See Also

Reference
GetMessagesResponse Class

Other Resources
List Queues
Operations on Queues
GetMessagesResponse.Messages Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets an enumerable collection of QueueMessage objects from the response.

### Usage

**Visual Basic**

```vbnet
Dim instance As GetMessagesResponse
Dim value As IEnumerable(Of QueueMessage)

value = instance.Messages
```
## Syntax

### Visual Basic

```vbnet
Public ReadOnly Property Messages As IEnumerable(Of QueueMessage)
```

### C#

```csharp
public IEnumerable<QueueMessage> Messages { get; }
```

### C++

```cpp
public:
property IEnumerable<QueueMessage>^ Messages {
    IEnumerable<QueueMessage>^ get();
}
```

### J#

```csharp
```

### JScript

```csharp
```

## Property Value

Type: System.Collections.Generic.IEnumerable

An enumerable collection of `QueueMessage` objects.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
GetMessagesResponse Class
GetMessagesResponse Members

Other Resources
List Queues
Operations on Queues
GetPageRangesResponse Class

See Also  Members

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Provides methods for parsing the response from an operation to get a range of pages for a page blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As GetPageRangesResponse
## Syntax

**Visual Basic**

Public Class GetPageRangesResponse  
   Inherits ResponseParsingBase(Of PageRange)

**C#**

public class GetPageRangesResponse : ResponseParsingBase

**C++**

public ref class GetPageRangesResponse : public ResponseParsingBase

**J#**

**JScript**
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Inheritance Hierarchy

System.Object
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
GetPageRangesResponse Members

Other Resources
Operations on Page Blobs
Get Page Ranges (REST API)
Provides methods for parsing the response from an operation to get a range of pages for a page blob.

The following tables list the members exposed by the `GetPageRangesResponse` type.
## Protected Fields

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>allObjectsParsed</td>
<td>Indicates that all parsable objects have been consumed. This field is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td>outstandingObjectsToParse</td>
<td>Stores any objects that have not yet been parsed. This field is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td>reader</td>
<td>(Inherited from ResponseParsingBase)</td>
</tr>
</tbody>
</table>
## Public Properties (see also Protected Properties)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PageRanges</td>
<td>Gets an enumerable collection of PageRange objects from the response.</td>
</tr>
</tbody>
</table>

Top
## Protected Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ObjectsToParse</td>
<td>Gets the parsable objects. This method is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
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</table>

[Top](#)
### Public Methods (see also Protected Methods)

<table>
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<th>Name</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Dispose</td>
<td>Overloaded. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
<tr>
<td>Equals</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td>GetHashCode</td>
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</tr>
<tr>
<td>GetType</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
</tbody>
</table>

**Top**
### Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Dispose]</td>
<td>Overloaded. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
<tr>
<td>![Finalize]</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td>![MemberwiseClone]</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td>![ParseXml]</td>
<td>Overridden. Parses the XML response for an operation to get a range of pages for a page blob.</td>
</tr>
<tr>
<td>![Variable]</td>
<td>This method is reserved and should not be used. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
</tbody>
</table>
See Also

Reference
GetPageRangesResponse Class

Other Resources
Operations on Page Blobs
Get Page Ranges (REST API)
GetPageRangesResponse Fields

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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</thead>
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<td>Stores any objects that have not yet been parsed. This field is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td>reader</td>
<td>(Inherited from ResponseParsingBase)</td>
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</tbody>
</table>
See Also

Reference
GetPageRangesResponse Class

Other Resources
Operations on Page Blobs
Get Page Ranges (REST API)
GetPageRangesResponse Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
Public Methods (see also **Protected Methods**)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Dispose" /></td>
<td>Overloaded. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td><img src="image" alt="Equals" /></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><img src="image" alt="GetHashCode" /></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><img src="image" alt="GetType" /></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><img src="image" alt="ToString" /></td>
<td>(Inherited from Object)</td>
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</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✧ Dispose</td>
<td>Overloaded. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
<tr>
<td>✧ Finalize</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td>✧ MemberwiseClone</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td>✧ ParseXml</td>
<td>Overridden. Parses the XML response for an operation to get a range of pages for a page blob.</td>
</tr>
<tr>
<td>✧ Variable</td>
<td>This method is reserved and should not be used. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
</tbody>
</table>
See Also

Reference
GetPageRangesResponse Class

Other Resources
Operations on Page Blobs
Get Page Ranges (REST API)
GetPageRangesResponse.ParseXml Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Parses the XML response for an operation to get a range of pages for a page blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

DimreturnValue As IEnumerable(Of PageRange)

returnValue = Me.ParseXml
### Syntax

**Visual Basic**

```
Protected Overrides Function ParseXml As IEnumerable
```

**C#**

```
protected override IEnumerable<PageRange> ParseXml()
```

**C++**

```
protected:  
virtual IEnumerable<PageRange^>^ ParseXml () override
```

**J#**

```
```

**JScript**

```
```

### Return Value

Type: System.Collections.Generic.IEnumerable

An enumerable collection of `PageRange` objects.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
GetPageRangesResponse Class
GetPageRangesResponse Members

Other Resources
Operations on Page Blobs
Get Page Ranges (REST API)
GetPageRangesResponse Properties

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Properties (see also Protected Properties)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PageRanges</td>
<td>Gets an enumerable collection of PageRange objects from the response.</td>
</tr>
</tbody>
</table>
## Protected Properties

<table>
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<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>ObjectsToParse</code></td>
<td>Gets the parsable objects. This method is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
</tr>
</tbody>
</table>
See Also

Reference

GetPageRangesResponse Class

Other Resources

Operations on Page Blobs
Get Page Ranges (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets an enumerable collection of `PageRange` objects from the response.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As GetPageRangesResponse
Dim value As IEnumerable(Of PageRange)

value = instance.PageRanges
```
## Syntax

**Visual Basic**

```vbnet
Public ReadOnly Property PageRanges As IEnumerable(Of PageRange)
```

**C#**

```csharp
public IEnumerable<PageRange> PageRanges { get; }
```

**C++**

```cpp
public: 
property IEnumerable<PageRange>^ PageRanges {
 IEnumerable<PageRange>^ get ();
}
```

**J#**

```jsharp

```

**JScript**

```javascript

```

## Property Value

Type: `System.Collections.Generic.IEnumerable`

An enumerable collection of `PageRange` objects.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
GetPageRangesResponse Class
GetPageRangesResponse Members

Other Resources
Operations on Page Blobs
Get Page Ranges (REST API)
IListBlobEntry Interface

See Also  Members

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Defines an interface for blob items that are returned in the XML response for a blob listing operation.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

Dim instance As *ILlistBlobEntry*
## Syntax

<table>
<thead>
<tr>
<th></th>
<th>Visual Basic</th>
<th>C#</th>
<th>C++</th>
<th>J#</th>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Public Interface</td>
<td></td>
<td>public interface class</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>IListBlobEntry</td>
<td></td>
<td>IListBlobEntry</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Platforms

Development Platforms
See Also

Reference
ILBlobEntry Members

Other Resources
List Blobs (REST API)
Operations on Blobs
Defines an interface for blob items that are returned in the XML response for a blob listing operation.

The following tables list the members exposed by the `IListBlobEntry` type.
See Also

Reference
IListBlobEntry Interface

Other Resources
List Blobs (REST API)
Operations on Blobs
LeaseAction Enumeration

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Describes actions that can be performed on a lease.

**Usage**

**Visual Basic**

```vbnet
Dim instance As LeaseAction
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Enumeration LeaseAction</code></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td><code>public enum LeaseAction</code></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><code>public enum class LeaseAction</code></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acquire</td>
<td>Acquire the lease.</td>
</tr>
<tr>
<td>Break</td>
<td>Break the lease.</td>
</tr>
<tr>
<td>Release</td>
<td>Release the lease.</td>
</tr>
<tr>
<td>Renew</td>
<td>Renew the lease.</td>
</tr>
</tbody>
</table>
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
 Platforms

 Development Platforms
See Also

Reference

Other Resources
Lease Container (REST API)
Lease Blob (REST API)
Provides methods for parsing the response from a blob listing operation.

## Usage

**Visual Basic**

```vbnet
Dim instance As ListBlobsResponse
```
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Public Class ListBlobsResponse</code></td>
</tr>
<tr>
<td><code>Inherits ResponseParsingBase(Of IListBlobEntry)</code></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>public class ListBlobsResponse : ResponseParsingBase</code></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>public ref class ListBlobsResponse : public ResponseParsingBase</code></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ListBlobsResponse Members
ListBlobsResponse Members

See Also  Methods  Properties  Fields

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Provides methods for parsing the response from a blob listing operation.

The following tables list the members exposed by the ListBlobsResponse type.
## Protected Fields

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>allObjectsParsed</td>
<td>Indicates that all parsable objects have been consumed. This field is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td>outstandingObjectsToParse</td>
<td>Stores any objects that have not yet been parsed. This field is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
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<tr>
<td>reader</td>
<td>(Inherited from ResponseParsingBase)</td>
</tr>
</tbody>
</table>
## Public Properties (see also **Protected Properties**)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Blobs</strong></td>
<td>Gets an enumerable collection of objects that implement <strong>IListBlobEntry</strong> from the response.</td>
</tr>
<tr>
<td><strong>Delimiter</strong></td>
<td>Gets the Delimiter value provided for the listing operation from the XML response.</td>
</tr>
<tr>
<td><strong>ListingContext</strong></td>
<td>Gets the listing context from the XML response.</td>
</tr>
<tr>
<td><strong>Marker</strong></td>
<td>Gets the Marker value provided for the listing operation from the XML response.</td>
</tr>
<tr>
<td><strong>MaxResults</strong></td>
<td>Gets the MaxResults value provided for the listing operation from the XML response.</td>
</tr>
<tr>
<td><strong>NextMarker</strong></td>
<td>Gets the NextMarker value from the XML response, if the listing was not complete.</td>
</tr>
<tr>
<td><strong>Prefix</strong></td>
<td>Gets the Prefix value provided for the listing operation from the XML response.</td>
</tr>
</tbody>
</table>
## Protected Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="ObjectsToParse" /></td>
<td>Gets the parsable objects. This method is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
</tr>
</tbody>
</table>
## Public Methods (see also Protected Methods)

<table>
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<tr>
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<tr>
<td>Dispose</td>
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<tr>
<td>GetHashCode</td>
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<tr>
<td>Finalize</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td>ParseXml</td>
<td>Overridden. Parses the response XML for a blob listing operation.</td>
</tr>
<tr>
<td>Variable</td>
<td>This method is reserved and should not be used. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
</tbody>
</table>

[Top](#)
See Also

Reference

ListBlobsResponse Class
ListBlobsResponse Fields

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Protected Fields

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>allObjectsParsed</td>
<td>Indicates that all parsable objects have been consumed. This field is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td>outstandingObjectsToParse</td>
<td>Stores any objects that have not yet been parsed. This field is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td>reader</td>
<td>(Inherited from ResponseParsingBase)</td>
</tr>
</tbody>
</table>
See Also

Reference
ListBlobsResponse Class
ListBlobsResponse Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispose</td>
<td>Overloaded. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
## Protected Methods

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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispose</td>
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</tr>
<tr>
<td>ParseXml</td>
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<tr>
<td>Variable</td>
<td>This method is reserved and should not be used.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
</tbody>
</table>
See Also

Reference
ListBlobsResponse Class
ListBlobsResponse.ParseXml Method

Parses the response XML for a blob listing operation.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>

```
Dim returnValue As IEnumerable(Of IListBlobEntry)
returnValue = Me.ParseXml
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Protected Overrides Function ParseXml As IEnumerable&lt;IListBlobEntry&gt;</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>protected override IEnumerable&lt;IListBlobEntry&gt; ParseXml()</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>protected: virtual IEnumerable&lt;IListBlobEntry&gt;^ ParseXml() override</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>

### Return Value

**Type:** `System.Collections.Generic.IEnumerable`

An enumerable collection of objects that implement `IListBlobEntry`. 
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ListBlobsResponse Class
ListBlobsResponse Members

Other Resources
Operations on Containers
List Blobs (REST API)
### ListBlobsResponse Properties

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.]
Public Properties (see also Protected Properties)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Blobs</strong></td>
<td>Gets an enumerable collection of objects that implement IListBlobEntry from the response.</td>
</tr>
<tr>
<td><strong>Delimiter</strong></td>
<td>Gets the Delimiter value provided for the listing operation from the XML response.</td>
</tr>
<tr>
<td><strong>ListingContext</strong></td>
<td>Gets the listing context from the XML response.</td>
</tr>
<tr>
<td><strong>Marker</strong></td>
<td>Gets the Marker value provided for the listing operation from the XML response.</td>
</tr>
<tr>
<td><strong>MaxResults</strong></td>
<td>Gets the MaxResults value provided for the listing operation from the XML response.</td>
</tr>
<tr>
<td><strong>NextMarker</strong></td>
<td>Gets the NextMarker value from the XML response, if the listing was not complete.</td>
</tr>
<tr>
<td><strong>Prefix</strong></td>
<td>Gets the Prefix value provided for the listing operation from the XML response.</td>
</tr>
</tbody>
</table>
## Protected Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;i&gt;ObjectsToParse&lt;/i&gt;</td>
<td>Gets the parsable objects. This method is reserved and should not be used. (Inherited from <code>ResponseParsingBase</code>)</td>
</tr>
</tbody>
</table>
See Also

Reference
ListBlobsResponse Class
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets an enumerable collection of objects that implement IListBlobEntry from the response.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>

```vbnet
Dim instance As ListBlobsResponse
Dim value As IEnumerable(Of IListBlobEntry)

value = instance.Blobs
```
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public ReadOnly Property Blobs As IEnumerable(Of IListBlobEntry)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public IEnumerable&lt;IListBlobEntry&gt; Blobs { get; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: property IEnumerable&lt;IListBlobEntry&gt;^ Blobs {</td>
</tr>
<tr>
<td>IEnumerable&lt;IListBlobEntry&gt;^ get ();</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Property Value Type: System.Collections.Generic.IEnumerable</td>
</tr>
</tbody>
</table>

An enumerable collection of objects that implement IListBlobEntry.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ListBlobsResponse Class
ListBlobsResponse Members

Other Resources
List Blobs (REST API)
Authorization
Response
ListBlobsResponse.Delimiter Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the Delimiter value provided for the listing operation from the XML response.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As ListBlobsResponse
Dim value As String

value = instance.Delimiter
**Syntax**

<table>
<thead>
<tr>
<th><strong>Visual Basic</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Public ReadOnly Property Delimiter As <em>String</em></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>C#</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>public <em>string</em> Delimiter { get; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>C++</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>public: property <em>String^</em> Delimiter {</td>
</tr>
<tr>
<td><em>String^</em> get ();</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>J#</strong></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>JScript</strong></th>
</tr>
</thead>
</table>

**Property Value**

Type: *System.String*

The Delimiter value.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ListBlobsResponse Class
ListBlobsResponse Members

Other Resources
Enumerating Blob Resources (REST API)
Delimited Blob List
List Blobs (REST API)
XML Response Format
| **ListBlobsResponse.ListingContext Property** |  |
| **See Also** |  |

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the listing context from the XML response.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```visualbasic
Dim instance As ListBlobsResponse
Dim value As BlobListingContext

value = instance.ListingContext
```
**Syntax**

**Visual Basic**

Public Readonly Property ListingContext As BlobListingContext

**C#**

public BlobListingContext ListingContext { get; }

**C++**

public: BlobListingContext^ ListingContext { 
    BlobListingContext^ get (); 
}

**J#**

**JScript**

**Property Value**


A set of parameters for the listing operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ListBlobsResponse Class
ListBlobsResponse Members

Other Resources
Enumerating Blob Resources (REST API)
Delimited Blob List
List Blobs (REST API)
XML Response Format
ListBlobsResponse.Marker Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the Marker value provided for the listing operation from the XML response.

<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>

Dim instance As ListBlobsResponse
Dim value As String

value = instance.Marker
## Syntax

### Visual Basic

Public ReadOnly Property Marker As String

### C#

public string Marker { get; }

### C++

public:
property String^ Marker {
    String^ get ()
}

### J#

### JScript

### Property Value

Type: System.String

The Marker value.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
See Also

Reference
ListBlobsResponse Class
ListBlobsResponse Members

Other Resources
Enumerating Blob Resources (REST API)
Delimited Blob List
List Blobs (REST API)
List Containers (REST API)
XML Response Format
ListBlobsResponse.MaxResults Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the MaxResults value provided for the listing operation from the XML response.

### Usage

**Visual Basic**

```vbnet
Dim instance As ListBlobsResponse
Dim value As Integer

value = instance.MaxResults
```
### Syntax

#### Visual Basic

Public ReadOnly Property MaxResults As Integer

#### C#

public int MaxResults { get; }

#### C++

public:
    property int MaxResults {
        int get ();
    }

#### J#

#### JScript

### Property Value

Type: System.Int32

The MaxResults value.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ListBlobsResponse Class
ListBlobsResponse Members

Other Resources
Enumerating Blob Resources (REST API)
Delimited Blob List
List Blobs (REST API)
List Containers (REST API)
XML Response Format
ListBlobsResponse.NextMarker Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the NextMarker value from the XML response, if the listing was not complete.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As ListBlobsResponse
Dim value As String

value = instance.NextMarker
## Syntax

### Visual Basic

```vbnet
Public ReadOnly Property NextMarker As String
```

### C#

```csharp
public string NextMarker { get; }
```

### C++

```cpp
public:
property String^ NextMarker {
    String^ get ();
}
```

### J#

```
```

### JScript

```
```

## Property Value

**Type:** System.String

The NextMarker value.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ListBlobsResponse Class
ListBlobsResponse Members

Other Resources
Enumerating Blob Resources (REST API)
Delimited Blob List
List Blobs (REST API)
List Containers (REST API)
XML Response Format
ListBlobsResponse.Prefix Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the Prefix value provided for the listing operation from the XML response.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
</tbody>
</table>
| Dim instance As `ListBlobsResponse`  
Dim value As `String`  

value = instance.Prefix |  |
## Syntax

### Visual Basic

Public ReadOnly Property Prefix As String

### C#

public string Prefix { get; }

### C++

public: property String^ Prefix { 
    String^ get ();
}

### J#

### JScript

### Property Value

Type: System.String

The Prefix value.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in
See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ListBlobsResponse Class
ListBlobsResponse Members

Other Resources
Enumerating Blob Resources (REST API)
Delimited Blob List
List Blobs (REST API)
List Containers (REST API)
XML Response Format
ListContainersResponse Class

Provides methods for parsing the response from a container listing operation.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim instance As ListContainersResponse</td>
</tr>
<tr>
<td>Syntax</td>
</tr>
<tr>
<td>--------</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>
| Public Class ListContainersResponse  
Inherits ResponseParsingBase(Of BlobContainerEntry) |  |
| **C#** |  |
| public class ListContainersResponse : ResponseParsingBase |  |
| **C++** |  |
| public ref class ListContainersResponse : public ResponseParsingBase |  |
| **J#** |  |
|  |  |
| **JScript** |  |
Inheritance Hierarchy

System.Object
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

ListContainersResponse Members
Provides methods for parsing the response from a container listing operation.

The following tables list the members exposed by the `ListContainersResponse` type.
## Protected Fields

<table>
<thead>
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<th>Name</th>
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</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>outstandingObjectsToParse</td>
<td>Stores any objects that have not yet been parsed. This field is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
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</table>

Top
## Public Properties (see also Protected Properties)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Containers</td>
<td>Gets an enumerable collection of <a href="#">BlobContainerEntry</a> objects from the response.</td>
</tr>
<tr>
<td>ListingContext</td>
<td>Gets the listing context from the XML response.</td>
</tr>
<tr>
<td>Marker</td>
<td>Gets the Marker value provided for the listing operation from the XML response.</td>
</tr>
<tr>
<td>MaxResults</td>
<td>Gets the MaxResults value provided for the listing operation from the XML response.</td>
</tr>
<tr>
<td>NextMarker</td>
<td>Gets the NextMarker value from the XML response, if the listing was not complete.</td>
</tr>
<tr>
<td>Prefix</td>
<td>Gets the Prefix value provided for the listing operation from the XML response.</td>
</tr>
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[Top](#)
## Protected Properties

<table>
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<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ObjectsToParse</td>
<td>Gets the parsable objects. This method is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
</tr>
</tbody>
</table>

[Top]
## Public Methods (see also Protected Methods)

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<td>Equals</td>
<td>(Inherited from Object)</td>
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<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
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<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
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</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td>ParseXml</td>
<td>Overridden. Parses the response XML for a container listing operation.</td>
</tr>
<tr>
<td>Variable</td>
<td>This method is reserved and should not be used. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
</tbody>
</table>

[Top](#)
See Also

Reference

ListContainersResponse Class
ListContainersResponse Fields

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<tr>
<td>allObjectsParsed</td>
<td>Indicates that all parsable objects have been consumed. This field is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
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<td>Stores any objects that have not yet been parsed. This field is reserved and should not be used.     (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td>reader</td>
<td>(Inherited from ResponseParsingBase)</td>
</tr>
</tbody>
</table>
See Also

Reference
ListContainersResponse Class
ListContainersResponse Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods (see also Protected Methods)

<table>
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<tbody>
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<tbody>
<tr>
<td>![Dispose]</td>
<td>Overloaded. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
<tr>
<td>![Finalize]</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td>![MemberwiseClone]</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td>![ParseXml]</td>
<td>Overridden. Parsed the response XML for a container listing operation.</td>
</tr>
<tr>
<td>![Variable]</td>
<td>This method is reserved and should not be used. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
</tbody>
</table>
See Also

Reference
ListContainersResponse Class
ListContainersResponse.ParseXml Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

 Parses the response XML for a container listing operation.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim returnValue As IEnumerable(Of BlobContainerEntry)
returnValue = Me.ParseXml
```
**Syntax**

**Visual Basic**

```vbnet
Protected Overrides Function ParseXml As IEnumerable
```

**C#**

```csharp
protected override IEnumerable<BlobContainerEntry> ParseXml()
```

**C++**

```cpp
protected:
virtual IEnumerable<BlobContainerEntry> ParseXml()
```

**J#**

```jsharp```

**JScript**

```jscript```

**Return Value**

Type: System.Collections.Generic.IEnumerable

An enumerable collection of `BlobContainerEntry` objects.
Remarks

This may return a null for an object if it parses non-BlobContainer item (such a property)

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ListContainersResponse Class
ListContainersResponse Members

Other Resources
List Containers (REST API)
ListContainersResponse Properties

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties (see also **Protected Properties**)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Containers</strong></td>
<td>Gets an enumerable collection of <a href="#">BlobContainerEntry</a> objects from the response.</td>
</tr>
<tr>
<td><strong>ListingContext</strong></td>
<td>Gets the listing context from the XML response.</td>
</tr>
<tr>
<td><strong>Marker</strong></td>
<td>Gets the Marker value provided for the listing operation from the XML response.</td>
</tr>
<tr>
<td><strong>MaxResults</strong></td>
<td>Gets the MaxResults value provided for the listing operation from the XML response.</td>
</tr>
<tr>
<td><strong>NextMarker</strong></td>
<td>Gets the NextMarker value from the XML response, if the listing was not complete.</td>
</tr>
<tr>
<td><strong>Prefix</strong></td>
<td>Gets the Prefix value provided for the listing operation from the XML response.</td>
</tr>
</tbody>
</table>
## Protected Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ObjectsToParse</td>
<td>Gets the parsable objects. This method is reserved and should not be used.</td>
</tr>
<tr>
<td></td>
<td>(Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
</tbody>
</table>
See Also

Reference
ListContainersResponse Class
ListContainersResponse.Containers Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets an enumerable collection of BlobContainerEntry objects from the response.

Usage

Visual Basic

Dim instance As ListContainersResponse
Dim value As IEnumerable(Of BlobContainerEntry)

value = instance.Containers
### Syntax

**Visual Basic**

Public ReadOnly Property Containers As **IEnumerable(Of BlobContainerEntry)**

**C#**

```csharp
public **IEnumerable<BlobContainerEntry>** Containers {
```  
```csharp
    **IEnumerable<BlobContainerEntry>** get();
```  
```csharp
}
```

**C++**

```cpp
public:
    **property IEnumerable<BlobContainerEntry>** Containers
    {
        **IEnumerable<BlobContainerEntry>** get();
    }
```

**J#**

**JScript**

---

**Property Value**

Type: System.Collections.Generic.IEnumerable

An enumerable collection of **BlobContainerEntry** objects.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ListContainersResponse Class
ListContainersResponse Members

Other Resources
List Containers (REST API)
ListContainersResponse.ListingContext Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the listing context from the XML response.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As ListContainersResponse
Dim value As ListingContext

value = instance.ListingContext
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public ReadOnly Property ListingContext As ListingContext</td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public ListingContext ListingContext { get; }</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public: property ListingContext^ ListingContext { ListingContext^ get (); }</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Property Value


A set of parameters for the listing operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ListContainersResponse Class
ListContainersResponse Members

Other Resources
List Containers (REST API)
ListContainersResponse.Marker Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

 Gets the Marker value provided for the listing operation from the XML response.

<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>
| Dim instance As ListContainersResponse  
Dim value As String  

value = instance.Marker |
# Syntax

## Visual Basic

```
Public ReadOnly Property Marker As String
```

## C#

```
public string Marker { get; }
```

## C++

```
public:
property String^ Marker { 
    String^ get ();
}
```

## J#

## JScript

## Property Value

Type: [System.String](https://docs.microsoft.com/en-us/dotnet/api/system.string)

The Marker value.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
See Also

Reference
ListContainersResponse Class
ListContainersResponse Members

Other Resources
List Containers (REST API)
Retrieving Partial List Results with Markers
ListContainersResponse.MaxResults Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the MaxResults value provided for the listing operation from the XML response.

Dim instance As ListContainersResponse
Dim value As Integer

value = instance.MaxResults
Syntax

Visual Basic

Public ReadOnly Property MaxResults As Integer

C#

public int MaxResults { get; }

C++

public:
property int MaxResults {
    int get ();
}

J#

JScript

Property Value

Type: System.Int32

The MaxResults value.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ListContainersResponse Class
ListContainersResponse Members

Other Resources
List Containers (REST API)
Setting Maximum Results
ListContainersResponse.NextMarker Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the NextMarker value from the XML response, if the listing was not complete.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As ListContainersResponse
Dim value As String

value = instance.NextMarker
```
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public ReadOnly Property NextMarker As String</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public string NextMarker { get; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: property String^ NextMarker { String^ get (); }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>

**Property Value**

Type: System.String

The NextMarker value.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
See Also

Reference
ListContainersResponse Class
ListContainersResponse Members

Other Resources
List Containers (REST API)
Retrieving Partial List Results with Markers
ListContainersResponse.Prefix Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the Prefix value provided for the listing operation from the XML response.

**Usage**

**Visual Basic**

```vbscript
Dim instance As ListContainersResponse
Dim value As String

value = instance.Prefix
```
### Syntax

**Visual Basic**

Public ReadOnly Property Prefix As String

**C#**

```csharp
public string Prefix { get; }
```

**C++**

```cpp
public:
property String^ Prefix {
    String^ get ();
}
```

**J#**

**JScript**

### Property Value

Type: [System.String](https://docs.microsoft.com/en-us/dotnet/api/system.string)

The Prefix value.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
See Also

Reference
ListContainersResponse Class
ListContainersResponse Members

Other Resources
List Containers (REST API)
Filtering List Results
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents the listing context for enumeration operations.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

Dim instance As ListingContext
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><strong>Public Class ListingContext</strong></td>
</tr>
<tr>
<td>C#</td>
<td><code>public class ListingContext</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public ref class ListingContext</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Inheritance Hierarchy

System.Object
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ListingContext Members

Other Resources
List Containers (REST API)
Authorization
Request
Response
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents the listing context for enumeration operations.

The following tables list the members exposed by the ListingContext type.
## Public Constructors

<table>
<thead>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ListingContext</td>
<td>Initializes a new instance of the ListingContext class.</td>
</tr>
</tbody>
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## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marker</td>
<td>Gets or sets the Marker value.</td>
</tr>
<tr>
<td>MaxResults</td>
<td>Gets or sets the MaxResults value.</td>
</tr>
<tr>
<td>Prefix</td>
<td>Gets or sets the Prefix value.</td>
</tr>
</tbody>
</table>
### Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
### Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>

[Top](#)
See Also

Reference
ListingContext Class

Other Resources
List Containers (REST API)
Authorization
Request
Response
ListingContext Constructor

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the ListingContext class.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim prefix As String
Dim maxResults As Nullable(Of Integer)
Dim instance As New ListingContext(prefix, maxResults)
```
### Syntax

**Visual Basic**

```vbnet
Public Sub New ( _
    prefix As String, _
    maxResults As Nullable(Of Integer) _
)
```

**C#**

```csharp
public ListingContext (  
    string prefix,  
    Nullable<int> maxResults
)
```

**C++**

```cpp
public:  
ListingContext (  
    String^ prefix,  
    Nullable<int> maxResults
)
```

**J#**

```jsharp```

**JScript**

```javascript```

### Parameters

**prefix**

Type: `System.String`

The resource name prefix.
**maxResults**

Type: **System.Nullable**

The maximum number of resources to return in a single operation, up to the per-operation limit of 5000.
Remarks

If maxresults is not specified, the server will return up to 5,000 items. Setting maxresults to a value greater than 5,000 results in error response code 400 (Bad Request).

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Platforms

Development Platforms
See Also

Reference
ListingContext Class
ListingContext Members

Other Resources
List Containers (REST API)
Authorization
Request
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[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
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<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
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</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
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Other Resources
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Authorization
Request
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<table>
<thead>
<tr>
<th>ListingContext Properties</th>
</tr>
</thead>
</table>

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marker</td>
<td>Gets or sets the Marker value.</td>
</tr>
<tr>
<td>MaxResults</td>
<td>Gets or sets the MaxResults value.</td>
</tr>
<tr>
<td>Prefix</td>
<td>Gets or sets the Prefix value.</td>
</tr>
</tbody>
</table>
See Also

Reference
ListingContext Class

Other Resources
List Containers (REST API)
Authorization
Request
Response
Gets or sets the Marker value.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```visual-basic
Dim instance As ListingContext
Dim value As String

value = instance.Marker

instance.Marker = value
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property Marker As String</code></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td><code>public string Marker { get; set; }</code></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><code>public: property String^ Marker { String^ get (); void set (String^ value); }</code></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td>-</td>
</tr>
</tbody>
</table>

### Property Value

Type: [System.String](https://docs.microsoft.com/en-us/dotnet/api/system.string)

The Marker value.
Remarks

A string value that identifies the portion of the list to be returned with the next list operation. The operation returns a marker value within the response body if the list returned was not complete. The marker value may then be used in a subsequent call to request the next set of list items.

For more details about this API, see the topics on the equivalent REST APIs in **See Also > Other Resources.**
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ListingContext Class
ListingContext Members

Other Resources
List Containers (REST API)
Enumerating Blob Resources (REST API)
Retrieving Partial List Results with Markers
ListingContext.MaxResults Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the MaxResults value.

**Usage**

### Visual Basic

```
Dim instance As ListingContext
Dim value As Nullable(Of Integer)

value = instance.MaxResults

instance.MaxResults = value
```
## Syntax

### Visual Basic

Public Property MaxResults As Nullable(Of Integer)

### C#

public Nullable<int> MaxResults { get; set; }

### C++

public:
property Nullable<int> MaxResults {
    Nullable<int> get();
    void set (Nullable<int> value);
}

### J#

### JScript

### Property Value

Type: System.Nullable

The MaxResults value.
Remarks

Specifies the maximum number of blobs to return, including all BlobPrefix elements.

If maxresults is not specified, the server will return up to 5,000 items. Setting maxresults to a value greater than 5,000 results in error response code 400 (Bad Request).

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
- See Also

Reference

[ListingContext Class]
[ListingContext Members]

Other Resources

[List Containers (REST API)]
[Enumerating Blob Resources (REST API)]
[Setting Maximum Results]
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the Prefix value.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As ListingContext
Dim value As String

value = instance.Prefix

instance.Prefix = value
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td>Public Property Prefix As <code>String</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public string Prefix { get; set; }</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: String^ Prefix { String^ get (); void set (String^ value); }</code></td>
</tr>
<tr>
<td>J#</td>
<td><strong>Property Value</strong></td>
</tr>
<tr>
<td>JScript</td>
<td><strong>Property Value</strong></td>
</tr>
</tbody>
</table>

*Type: `System.String`*

The Prefix value.
Remarks

Including a prefix string on the request filters the results to return only blobs whose names begin with the specified prefix.

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (**Shared** in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ListingContext Class
ListingContext Members

Other Resources
List Containers (REST API)
Enumerating Blob Resources (REST API)
Filtering List Results
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Provides methods for parsing the response from a queue listing operation.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As ListQueuesResponse
### Syntax

#### Visual Basic

Public Class ListQueuesResponse
    Inherits ResponseParsingBase(Of QueueEntry)

#### C#

public class ListQueuesResponse : ResponseParsingBase

#### C++

public ref class ListQueuesResponse : public ResponseParsingBase

#### J#

#### JScript


Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Inheritance Hierarchy

System.Object
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ListQueuesResponse Members

Other Resources
List Queues
ListQueuesResponse Members

See Also  Methods  Properties  Fields

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Provides methods for parsing the response from a queue listing operation.

The following tables list the members exposed by the ListQueuesResponse type.
## Protected Fields

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>allObjectsParsed</td>
<td>Indicates that all parsable objects have been consumed. This field is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td>outstandingObjectsToParse</td>
<td>Stores any objects that have not yet been parsed. This field is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td>reader</td>
<td>(Inherited from ResponseParsingBase)</td>
</tr>
</tbody>
</table>
## Public Properties (see also **Protected Properties**)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ListingContext</td>
<td>Gets the listing context from the XML response.</td>
</tr>
<tr>
<td>Marker</td>
<td>Gets the Marker value provided for the listing operation from the XML response.</td>
</tr>
<tr>
<td>MaxResults</td>
<td>Gets the MaxResults value provided for the listing operation from the XML response.</td>
</tr>
<tr>
<td>NextMarker</td>
<td>Gets the NextMarker value from the XML response, if the listing was not complete.</td>
</tr>
<tr>
<td>Prefix</td>
<td>Gets the Prefix value provided for the listing operation from the XML response.</td>
</tr>
<tr>
<td>Queues</td>
<td>Gets an enumerable collection of QueueEntry objects from the response.</td>
</tr>
</tbody>
</table>

[Top](#)
## Protected Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ObjectsToParse</td>
<td>Gets the parsable objects. This method is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
</tr>
</tbody>
</table>
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispose</td>
<td>Overloaded. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dispose</strong></td>
<td>Overloaded. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
<tr>
<td><strong>Finalize</strong></td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>MemberwiseClone</strong></td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td><strong>ParseXml</strong></td>
<td>Overridden. Parses the response XML for a queue listing operation.</td>
</tr>
<tr>
<td><strong>Variable</strong></td>
<td>This method is reserved and should not be used. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
</tbody>
</table>

[Top](#)
- **See Also**

- **Reference**
  - ListQueuesResponse Class

- **Other Resources**
  - List Queues
ListQueuesResponse Fields

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
**Protected Fields**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>allObjectsParsed</strong></td>
<td>Indicates that all parsable objects have been consumed. This field is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td><strong>outstandingObjectsToParse</strong></td>
<td>Stores any objects that have not yet been parsed. This field is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td><strong>reader</strong></td>
<td>(Inherited from ResponseParsingBase)</td>
</tr>
</tbody>
</table>
See Also

Reference
ListQueueResponse Class

Other Resources
List Queues
ListQueuesResponse Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispose</td>
<td>Overloaded. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
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</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Dispose] Dispose</td>
<td>Overloaded. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
<tr>
<td>![Finalize] Finalize</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td>![MemberwiseClone] MemberwiseClone</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td>![ParseXml] ParseXml</td>
<td>Overridden. Parses the response XML for a queue listing operation.</td>
</tr>
<tr>
<td>![Variable] Variable</td>
<td>This method is reserved and should not be used. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
</tbody>
</table>
See Also

Reference
ListQueuesResponse Class

Other Resources
List Queues
ListQueuesResponse.ParseXml Method

Parses the response XML for a queue listing operation.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Usage

**Visual Basic**

Dim returnValue As IEnumerable(Of QueueEntry)

returnValue = Me.ParseXml
**Syntax**

<table>
<thead>
<tr>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
</tr>
<tr>
<td>Protected Overrides Function ParseXml As IEnumerable&lt;QueueEntry&gt;</td>
</tr>
<tr>
<td>C#</td>
</tr>
<tr>
<td>protected override IEnumerable&lt;QueueEntry&gt; ParseXml () override</td>
</tr>
<tr>
<td>C++</td>
</tr>
<tr>
<td>protected: virtual IEnumerable&lt;QueueEntry&gt;^ ParseXml () override</td>
</tr>
<tr>
<td>J#</td>
</tr>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>

**Return Value**

Type: System.Collections.Generic.IEnumerable

An enumerable collection of QueueEntry objects.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ListQueuesResponse Class
ListQueuesResponse Members

Other Resources
List Queues
ListQueuesResponse Properties

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Properties (see also Protected Properties)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ListingContext</strong></td>
<td>Gets the listing context from the XML response.</td>
</tr>
<tr>
<td><strong>Marker</strong></td>
<td>Gets the Marker value provided for the listing operation from the XML response.</td>
</tr>
<tr>
<td><strong>MaxResults</strong></td>
<td>Gets the MaxResults value provided for the listing operation from the XML response.</td>
</tr>
<tr>
<td><strong>NextMarker</strong></td>
<td>Gets the NextMarker value from the XML response, if the listing was not complete.</td>
</tr>
<tr>
<td><strong>Prefix</strong></td>
<td>Gets the Prefix value provided for the listing operation from the XML response.</td>
</tr>
<tr>
<td><strong>Queues</strong></td>
<td>Gets an enumerable collection of QueueEntry objects from the response.</td>
</tr>
</tbody>
</table>
## Protected Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ObjectsToParse</strong></td>
<td>Gets the parsable objects. This method is reserved and should not be used. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
</tbody>
</table>
See Also

Reference
ListQueuesResponse Class

Other Resources
List Queues
ListQueuesResponse.ListingContext Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the listing context from the XML response.

### Usage

**Visual Basic**

```vba
Dim instance As ListQueuesResponse
Dim value As ListingContext

value = instance.ListingContext
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public ReadOnly Property ListingContext As ListingContext</td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public ListingContext ListingContext { get; }</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public: property ListingContext^ ListingContext { ListingContext^ get (); }</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Property Value


A set of parameters for the listing operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ListQueuesResponse Class
ListQueuesResponse Members

Other Resources
List Queues
ListQueuesResponse.Marker Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the Marker value provided for the listing operation from the XML response.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

<table>
<thead>
<tr>
<th>Dim instance As ListQueuesResponse</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim value As String</td>
</tr>
</tbody>
</table>

value = instance.Marker
## Syntax

### Visual Basic

Public ReadOnly Property Marker As **String**

### C#

public **string** Marker { get; }

### C++

public:
property **String^** Marker {
    **String^** get ()
}

### J#

### JScript

### Property Value

Type: **System.String**

The Marker value.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ListQueuesResponse Class
ListQueuesResponse Members

Other Resources
List Queues
Retrieving Partial List Results with Markers
ListQueuesResponse.MaxResults Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the MaxResults value provided for the listing operation from the XML response.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As ListQueuesResponse
Dim value As Integer

value = instance.MaxResults
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td>Public ReadOnly Property MaxResults As <strong>Integer</strong></td>
</tr>
<tr>
<td>C#</td>
<td>public <strong>int</strong> MaxResults { get; }</td>
</tr>
<tr>
<td>C++</td>
<td>public: property <strong>int</strong> MaxResults { <strong>int</strong> get (); }</td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

Type: [System.Int32](#)

The MaxResults value.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ListQueuesResponse Class
ListQueuesResponse Members

Other Resources
List Queues
Setting Maximum Results
ListQueuesResponse.NextMarker Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the NextMarker value from the XML response, if the listing was not complete.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>

Dim instance As `ListQueuesResponse`
Dim value As `String`

value = instance.NextMarker
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public ReadOnly Property NextMarker As String</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public string NextMarker { get; }</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: property String^ NextMarker { String^ get (); }</code></td>
</tr>
<tr>
<td>J#</td>
<td>N/A</td>
</tr>
<tr>
<td>JScript</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Property Value

**Type:** [System.String](#)  

The NextMarker value.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
- **Thread Safety**

  Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

ListQueuesResponse Class
ListQueuesResponse Members

Other Resources

List Queues
Retrieving Partial List Results with Markers
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the Prefix value provided for the listing operation from the XML response.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbs
Dim instance As ListQueuesResponse
Dim value As String

value = instance.Prefix
```
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public ReadOnly Property Prefix As <strong>String</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public <strong>string</strong> Prefix { get; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: property <strong>String</strong>^ Prefix { <strong>String</strong>^ get (); }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Property Value</strong></td>
</tr>
<tr>
<td>Type: <strong>System.String</strong></td>
</tr>
</tbody>
</table>

**The Prefix value.**
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ListQueuesResponse Class
ListQueuesResponse Members

Other Resources
List Queues
Filtering List Results
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets an enumerable collection of QueueEntry objects from the response.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

### Visual Basic

Dim instance As ListQueuesResponse
Dim value As IEnumerable(Of QueueEntry)

value = instance.Queues
## Syntax

### Visual Basic

Public ReadOnly Property Queues As IEnumerable(Of QueueEntry)

### C#

```csharp
public IEnumerable<QueueEntry> Queues { get; }
```

### C++

```cpp
public:
property IEnumerable<QueueEntry^>^ Queues {
    IEnumerable<QueueEntry^>^ get ();
}
```

### J#

```jsharp```

### JScript

```javascript```

## Property Value

Type: System.Collections.Generic.IEnumerable

An enumerable collection of `QueueEntry` objects.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ListQueuesResponse Class
ListQueuesResponse Members

Other Resources
List Queues
LoggingOperations Enumeration

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Indicates the types of operations to log.

**Usage**

**Visual Basic**

```vbnet
Dim instance As LoggingOperations
```
## Syntax

### Visual Basic

```vbnet
<FlagsAttribute> _
Public Enumeration LoggingOperations
```

### C#

```csharp
[FlagsAttribute]
public enum LoggingOperations
```

### C++

```cpp
[FlagsAttribute]
public enum class LoggingOperations
```

### J#

```jsharp```

### JScript

```jscript```
<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>Indicates whether all storage service operations should be logged.</td>
</tr>
<tr>
<td>Delete</td>
<td>Indicates whether all delete requests should be logged.</td>
</tr>
<tr>
<td>None</td>
<td>Indicates if no operations should be logged.</td>
</tr>
<tr>
<td>Read</td>
<td>Indicates whether read operations should be logged.</td>
</tr>
<tr>
<td>Write</td>
<td>Indicates whether write operations should be logged.</td>
</tr>
</tbody>
</table>
Remarks

These enumeration values can be combined using the OR operator (vertical bar in C#) to designate multiple fields in method parameters that expect this enumeration type.

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Platforms

Development Platforms
See Also

Reference

Other Resources
Get Blob Service Properties
Set Blob Service Properties
Get Queue Service Properties
Set Queue Service Properties
Get Table Service Properties
Set Table Service Properties
The logging properties for Windows Azure Storage Analytics.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

### Visual Basic

Dim instance As LoggingProperties
<table>
<thead>
<tr>
<th>Syntax</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Class LoggingProperties</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public class LoggingProperties</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public ref class LoggingProperties</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Inheritance Hierarchy

System.Object
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
LoggingProperties Members

Other Resources
Get Blob Service Properties
Set Blob Service Properties
Get Queue Service Properties
Set Queue Service Properties
Get Table Service Properties
Set Table Service Properties
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The logging properties for Windows Azure Storage Analytics.

The following tables list the members exposed by the LoggingProperties type.
## Public Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LoggingProperties</td>
<td></td>
</tr>
</tbody>
</table>

[Top](#)
# Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LoggingOperations</strong></td>
<td>Gets the logged operations for an account’s storage service.</td>
</tr>
<tr>
<td><strong>RetentionDays</strong></td>
<td>Gets the number of days that the logging data will be retained.</td>
</tr>
<tr>
<td><strong>Version</strong></td>
<td>Gets the version of analytics for the storage service.</td>
</tr>
</tbody>
</table>

Top
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
<tr>
<td>GetType</td>
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</tr>
<tr>
<td>ToString</td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
</tbody>
</table>
### Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Protected Icon] Finalize</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>![Protected Icon] MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>

[Top](#)
See Also

Reference
LoggingProperties Class

Other Resources
Get Blob Service Properties
Set Blob Service Properties
Get Queue Service Properties
Set Queue Service Properties
Get Table Service Properties
Set Table Service Properties
LoggingProperties Constructor

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the LoggingProperties Class.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim instance As New <strong>LoggingProperties</strong></td>
</tr>
<tr>
<td>Syntax</td>
</tr>
<tr>
<td>-----------------</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Public Sub New</td>
</tr>
<tr>
<td><strong>C#</strong></td>
</tr>
<tr>
<td><strong>C++</strong></td>
</tr>
<tr>
<td><strong>J#</strong></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
</tr>
</tbody>
</table>
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
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See Also

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LoggingProperties Class
LoggingProperties Members

Other Resources
Get Blob Service Properties
Set Blob Service Properties
Get Queue Service Properties
Set Queue Service Properties
Get Table Service Properties
Set Table Service Properties
<table>
<thead>
<tr>
<th><strong>LoggingProperties Methods</strong></th>
</tr>
</thead>
</table>

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.]
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Finalize</code></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><code>MemberwiseClone</code></td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
See Also

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LoggingProperties Class

Other Resources
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Set Blob Service Properties
Get Queue Service Properties
Set Queue Service Properties
Get Table Service Properties
Set Table Service Properties
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LoggingOperations</td>
<td>Gets the logged operations for an account’s storage service.</td>
</tr>
<tr>
<td>RetentionDays</td>
<td>Gets the number of days that the logging data will be retained.</td>
</tr>
<tr>
<td>Version</td>
<td>Gets the version of analytics for the storage service.</td>
</tr>
</tbody>
</table>
See Also

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LoggingProperties Class

Other Resources
Get Blob Service Properties
Set Blob Service Properties
Get Queue Service Properties
Set Queue Service Properties
Get Table Service Properties
Set Table Service Properties
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the logged operations for an account’s storage service.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As `LoggingProperties`
Dim value As `LoggingOperations`

value = instance.LoggingOperations

instance.LoggingOperations = value
### Syntax

#### Visual Basic

Public Property LoggingOperations As LoggingOperations

#### C#

public LoggingOperations LoggingOperations { get; set; }

#### C++

```cpp
public:
    property LoggingOperations LoggingOperations {
        LoggingOperations get ();
        void set (LoggingOperations value);
    }
```

#### J#

#### JScript

#### Property Value

Returns a [LoggingOperations](#) object that contains the types of operations to log.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
LoggingProperties Class
LoggingProperties Members

Other Resources
Get Blob Service Properties
Set Blob Service Properties
Get Queue Service Properties
Set Queue Service Properties
Get Table Service Properties
Set Table Service Properties
LoggingProperties.RetentionDays Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the number of days that the logging data will be retained.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

<table>
<thead>
<tr>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim instance As <code>LoggingProperties</code></td>
</tr>
<tr>
<td>Dim value As <code>Nullable(Of Integer)</code></td>
</tr>
<tr>
<td>value = instance.RetentionDays</td>
</tr>
<tr>
<td>instance.RetentionDays = value</td>
</tr>
</tbody>
</table>
### Syntax

**Visual Basic**

```vbnet
Public Property RetentionDays As Nullable(Of Integer)
```

**C#**

```csharp
public Nullable<int> RetentionDays { get; set; }
```

**C++**

```cpp
public:
property Nullable<int> RetentionDays {
    Nullable<int> get ();
    void set (Nullable<int> value);
}
```

**J#**

**JScript**


### Property Value

Returns a `Int32` object that indicates the number of days to retain logging data.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
LoggingProperties Class
LoggingProperties Members

Other Resources
Get Blob Service Properties
Set Blob Service Properties
Get Queue Service Properties
Set Queue Service Properties
Get Table Service Properties
Set Table Service Properties
LoggingProperties.Version Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the version of analytics for the storage service.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As `LoggingProperties`
Dim value As `String`

value = instance.Version

instance.Version = value
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Property Version As <strong>String</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public <strong>string</strong> Version { get; set; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| public: property **String**^ Version {  
  **String**^ get ();  
  **void** set (**String**^ value);  
} |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>

### Property Value

Returns **String**.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
**Platforms**

**Development Platforms**
See Also

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LoggingProperties Class
LoggingProperties Members

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Get Blob Service Properties
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Get Queue Service Properties
Set Queue Service Properties
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Set Table Service Properties
### MetricsLevel Enumeration

#### See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Indicates the type of metrics to generate.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As MetricsLevel
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Enumeration MetricsLevel</code></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td><code>public enum MetricsLevel</code></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><code>public enum class MetricsLevel</code></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td><strong>JScript</strong></td>
</tr>
<tr>
<td><strong>Member name</strong></td>
<td><strong>Description</strong></td>
</tr>
<tr>
<td>----------------</td>
<td>----------------</td>
</tr>
<tr>
<td>None</td>
<td>Indicates that no operations should be used to generate metrics.</td>
</tr>
<tr>
<td>Service</td>
<td>Indicates that only service operations should be used to generate metrics.</td>
</tr>
<tr>
<td>ServiceAndApi</td>
<td>Indicates that service and API operations should be used to generate metrics.</td>
</tr>
</tbody>
</table>
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
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See Also

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Other Resources
Get Blob Service Properties
Set Blob Service Properties
Get Queue Service Properties
Set Queue Service Properties
Get Table Service Properties
Set Table Service Properties
Indicates the metrics properties for Windows Azure Storage Analytics.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim instance As <code>MetricsProperties</code></td>
</tr>
</tbody>
</table>
### Syntax

**Visual Basic**

Public Class MetricsProperties

**C#**

public class MetricsProperties

**C++**

public ref class MetricsProperties

**J#**

**JScript**
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Inheritance Hierarchy

System.Object
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

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MetricsProperties Members

Other Resources

Get Blob Service Properties
Set Blob Service Properties
Get Queue Service Properties
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Get Table Service Properties
Set Table Service Properties
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Indicates the metrics properties for Windows Azure Storage Analytics.

The following tables list the members exposed by the MetricsProperties type.
## Public Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>MetricsProperties</td>
<td></td>
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</table>

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## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MetricsLevel</td>
<td>Gets the metrics level for the storage service.</td>
</tr>
<tr>
<td>RetentionDays</td>
<td>Gets the number of days to retain data for metrics.</td>
</tr>
<tr>
<td>Version</td>
<td>Indicates the version of Storage Analytics for the storage service.</td>
</tr>
</tbody>
</table>

[Top]
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from Object)</td>
</tr>
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</table>

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See Also

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MetricsProperties Class

Other Resources
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Set Blob Service Properties
Get Queue Service Properties
Set Queue Service Properties
Get Table Service Properties
Set Table Service Properties
MetricsProperties Constructor

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the MetricsProperties Class.

<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>

```vbnet
Dim instance As New MetricsProperties
```
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public Sub New</td>
<td></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public MetricsProperties ()</td>
<td></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td></td>
</tr>
<tr>
<td>public: MetricsProperties ()</td>
<td></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
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MetricsProperties Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
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Other Resources
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Set Queue Service Properties
Get Table Service Properties
Set Table Service Properties
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MetricsLevel</td>
<td>Gets the metrics level for the storage service.</td>
</tr>
<tr>
<td>RetentionDays</td>
<td>Gets the number of days to retain data for metrics.</td>
</tr>
<tr>
<td>Version</td>
<td>Indicates the version of Storage Analytics for the storage service.</td>
</tr>
</tbody>
</table>
See Also

Reference

MetricsProperties Class

Other Resources

Get Blob Service Properties
Set Blob Service Properties
Get Queue Service Properties
Set Queue Service Properties
Get Table Service Properties
Set Table Service Properties
MetricsProperties.MetricsLevel Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the metrics level for the storage service.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As MetricsProperties
Dim value As MetricsLevel

value = instance.MetricsLevel

instance.MetricsLevel = value
## Syntax

### Visual Basic

```vbnet
Public Property MetricsLevel As MetricsLevel
```

### C#

```csharp
public MetricsLevel MetricsLevel { get; set; }
```

### C++

```cpp
public:
property MetricsLevel MetricsLevel {
    MetricsLevel get ();
    void set (MetricsLevel value);
}
```

### J#

### JScript

### Property Value

Returns a [MetricsLevel](#) object that indicates what metrics to generate.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

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MetricsProperties Members

Other Resources
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Get Queue Service Properties
Set Queue Service Properties
Get Table Service Properties
Set Table Service Properties
**MetricsProperties.RetentionDays Property**

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the number of days to retain data for metrics.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As MetricsProperties
Dim value As Nullable(Of Integer)

value = instance.RetentionDays

instance.RetentionDays = value
```
Syntax

Visual Basic

Public Property RetentionDays As Nullable(Of Integer)

C#

public Nullable<int> RetentionDays { get; set; }

C++

public:
property Nullable<int> RetentionDays {
    Nullable<int> get();
    void set (Nullable<int> value);
}

J#

JScript

Property Value

Returns a Int32 object that indicates the number of days to store metrics for the storage service.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

MetricsProperties Class
MetricsProperties Members

Other Resources

Get Blob Service Properties
Set Blob Service Properties
Get Queue Service Properties
Set Queue Service Properties
Get Table Service Properties
Set Table Service Properties
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Indicates the version of Storage Analytics for the storage service.

### Usage

**Visual Basic**

```vbnet
Dim instance As MetricsProperties
Dim value As String

value = instance.Version

instance.Version = value
```
## Syntax

**Visual Basic**

Public Property Version As **String**

**C#**

```csharp
public **string** Version { get; set; }
```

**C++**

```cpp
public:
property **String**^ Version {
    **String**^ get ();
    void set (**String**^ value);
}
```

**J#**

**JScript**

**Property Value**

Returns **String**.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

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Reference
MetricsProperties Class
MetricsProperties Members

Other Resources
Get Blob Service Properties
Set Blob Service Properties
Get Queue Service Properties
Set Queue Service Properties
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Set Table Service Properties
PageWrite Enumeration

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Describes actions that may be used for writing to a page blob or clearing a set of pages.

### Usage

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim instance As PageWrite</td>
</tr>
</tbody>
</table>
## Syntax

### Visual Basic

**Public Enumeration PageWrite**

### C#

```csharp
public enum PageWrite
```

### C++

```cpp
public enum class PageWrite
```

### J#

### JScript
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear</td>
<td>Clear the page.</td>
</tr>
<tr>
<td>Update</td>
<td>Update the page with new data.</td>
</tr>
</tbody>
</table>
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
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See Also

Reference

Other Resources
Operations on Page Blobs
Get Page Ranges (REST API)
Put Page (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Provides methods for parsing the response from an operation to peek messages from a queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As *PeekMessagesResponse*
### Syntax

**Visual Basic**

```vbnet
Public Class PeekMessagesResponse
    Inherits ResponseParsingBase(Of QueueMessage)
```

**C#**

```csharp
public class PeekMessagesResponse : ResponseParsingBase
```

**C++**

```cpp
public ref class PeekMessagesResponse : public ResponseParsingBase
```

**J#**

```jsharp```

**JScript**

```javascript```
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Inheritance Hierarchy

System.Object
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

PeekMessagesResponse Members

Other Resources

Operations on Messages
Peek Messages
Provides methods for parsing the response from an operation to peek messages from a queue.

The following tables list the members exposed by the `PeekMessagesResponse` type.
## Protected Fields

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>allObjectsParsed</td>
<td>Indicates that all parsable objects have been consumed. This field is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td>outstandingObjectsToParse</td>
<td>Stores any objects that have not yet been parsed. This field is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td>reader</td>
<td>(Inherited from ResponseParsingBase)</td>
</tr>
</tbody>
</table>

---
- **Public Properties** (see also **Protected Properties**)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Messages</td>
<td>Gets an enumerable collection of <code>QueueMessage</code> objects from the response.</td>
</tr>
</tbody>
</table>

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## Protected Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ObjectsToParse</td>
<td>Gets the parsable objects. This method is reserved and should not be used. (Inherited from ResponseParsingBase)</td>
</tr>
</tbody>
</table>
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispose</td>
<td>Overloaded. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
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## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Dispose]</td>
<td>Overloaded. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
<tr>
<td>![Finalize]</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td>![MemberwiseClone]</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td>![ParseXml]</td>
<td>Overridden. Parses the XML response returned by an operation to get messages from a queue.</td>
</tr>
<tr>
<td>![Variable]</td>
<td>This method is reserved and should not be used. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
</tbody>
</table>
See Also

Reference

PeekMessagesResponse Class

Other Resources

Operations on Messages
 Peek Messages
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Protected Fields

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>allObjectsParsed</td>
<td>Indicates that all parsable objects have been consumed. This field is reserved and should not be used. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
<tr>
<td>outstandingObjectsToParse</td>
<td>Stores any objects that have not yet been parsed. This field is reserved and should not be used. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
<tr>
<td>reader</td>
<td>(Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
</tbody>
</table>
See Also

Reference
PeekMessagesResponse Class

Other Resources
Operations on Messages
Peek Messages
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispose</td>
<td>Overloaded. (Inherited from ResponseParsingBase)</td>
</tr>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>❗️ Dispose</td>
<td>Overloaded. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
<tr>
<td>❗️ Finalize</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td>❗️ MemberwiseClone</td>
<td>(Inherited from <a href="#">Object</a>)</td>
</tr>
<tr>
<td>❗️ ParseXml</td>
<td>Overridden. Parses the XML response returned by an operation to get messages from a queue.</td>
</tr>
<tr>
<td>❗️ Variable</td>
<td>This method is reserved and should not be used. (Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
</tbody>
</table>
See Also

Reference

PeekMessagesResponse Class

Other Resources

Operations on Messages
Peek Messages
PeekMessagesResponse.ParseXml Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Parses the XML response returned by an operation to get messages from a queue.

**Usage**

**Visual Basic**

```vbnet
Dim returnValue As IEnumerable(Of QueueMessage)
returnValue = Me.ParseXml
```
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protected Overrides Function ParseXml As IEnumerable&lt;QueueMessage&gt;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>protected override IEnumerable&lt;QueueMessage&gt; ParseXml() override</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>protected: virtual IEnumerable&lt;QueueMessage&gt; ParseXml() override</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>

### Return Value

Type: System.Collections.Generic.IEnumerable

An enumerable collection of QueueMessage objects.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
PeekMessagesResponse Class
PeekMessagesResponse Members

Other Resources
Operations on Messages
Peek Messages
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Properties (see also Protected Properties)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Messages</td>
<td>Gets an enumerable collection of QueueMessage objects from the response.</td>
</tr>
</tbody>
</table>
## Protected Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>🛠️ <strong>ObjectsToParse</strong></td>
<td>Gets the parsable objects. This method is reserved and should not be used.</td>
<td>(Inherited from <a href="#">ResponseParsingBase</a>)</td>
</tr>
</tbody>
</table>
See Also

Reference

PeekMessagesResponse Class

Other Resources

Operations on Messages
Peek Messages
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets an enumerable collection of QueueMessage objects from the response.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

**Visual Basic**

```
Dim instance As PeekMessagesResponse
Dim value As IEnumerable(Of QueueMessage)

value = instance.Messages
```
## Syntax

**Visual Basic**

Public ReadOnly Property Messages As IEnumerable(Of QueueMessage)

**C#**

public IEnumerable<QueueMessage> Messages { get; }

**C++**

public: IEnumerable<QueueMessage>^ Messages { 
    IEnumerable<QueueMessage>^ get ();
}

**J#**

**JScript**

### Property Value

Type: System.Collections.Generic.IEnumerable

An enumerable collection of QueueMessage objects.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

PeekMessagesResponse Class
PeekMessagesResponse Members

Other Resources

Operations on Messages
Peek Messages
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a block in a block list.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

| Dim instance As **PutBlockListItem** |
## Syntax

### Visual Basic

```vbnet
Public Class PutBlockListItem
```

### C#

```csharp
public class PutBlockListItem
```

### C++

```cpp
public ref class PutBlockListItem
```

### J#

```java
```

### JScript

```javascript
```
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Inheritance Hierarchy

System.Object
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
PutBlockListItem Members

Other Resources
Operations on Block Blobs
Put Block (REST API)
Get Block List (REST API)
Put Block List (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a block in a block list.

The following tables list the members exposed by the `PutBlockListItem` type.
### Public Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PutBlockListItem</td>
<td>Initializes a new instance of the <a href="#">PutBlockListItem</a> class.</td>
</tr>
</tbody>
</table>
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Id</td>
<td>Gets the block ID.</td>
</tr>
<tr>
<td>SearchMode</td>
<td>Gets a value that indicates which block lists to search for the block.</td>
</tr>
</tbody>
</table>

Top
### Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
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</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
See Also

Reference
PutBlockListItem Class

Other Resources
Operations on Block Blobs
Put Block (REST API)
Get Block List (REST API)
Put Block List (REST API)
PutBlockListItem Constructor

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the PutBlockListItem class.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

#### Visual Basic

```vbscript
Dim id As String
Dim searchMode As BlockSearchMode

Dim instance As New PutBlockListItem(id, searchMode)
```
## Syntax

### Visual Basic

```vbnet
Public Sub New (_
    id As String, _
    searchMode As BlockSearchMode _
)
```

### C#

```csharp
public PutBlockListItem (  
    string id,
    BlockSearchMode searchMode
)
```

### C++

```cpp
public:  
PutBlockListItem (  
    String^ id,
    BlockSearchMode searchMode
)
```

### J#

```csharp
```

### JScript

```csharp
```

## Parameters

**id**  
Type: `System.String`  
The block ID.
**searchMode**


One of the enumeration values that specifies in which block lists to search for the block.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Platforms

Development Platforms
See Also

Reference

PutBlockListItem Class
PutBlockListItem Members

Other Resources

Operations on Block Blobs
Put Block (REST API)
Get Block List (REST API)
Put Block List (REST API)
PutBlockListItem Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
See Also

Reference

PutBlockListItem Class

Other Resources

Operations on Block Blobs
Put Block (REST API)
Get Block List (REST API)
Put Block List (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Id</td>
<td>Gets the block ID.</td>
</tr>
<tr>
<td>SearchMode</td>
<td>Gets a value that indicates which block lists to search for the block.</td>
</tr>
</tbody>
</table>
See Also

Reference

PutBlockListListItem Class

Other Resources

Operations on Block Blobs
Put Block (REST API)
Get Block List (REST API)
Put Block List (REST API)
PutBlockListItem.Id Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the block ID.

<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
</tbody>
</table>
| Dim instance As PutBlockListItem  
Dim value As String  
value = instance.Id |
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Property Id As String</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public string Id { get; }</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: property String^ Id { String^ get (); }</code></td>
</tr>
<tr>
<td>J#</td>
<td>-</td>
</tr>
<tr>
<td>JScript</td>
<td>-</td>
</tr>
</tbody>
</table>

## Property Value

Type: [System.String](https://docs.microsoft.com/en-us/dotnet/api/system.string)

The block ID.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
- PutBlockListItem Class
- PutBlockListItem Members

Other Resources
- Operations on Block Blobs
- Put Block (REST API)
- Get Block List (REST API)
- Put Block List (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a value that indicates which block lists to search for the block.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

### Visual Basic

```vbnet
Dim instance As PutBlockListItem
Dim value As BlockSearchMode

value = instance.SearchMode
```
## Syntax

### Visual Basic

Public Property SearchMode As **BlockSearchMode**

### C#

```csharp
public **BlockSearchMode** SearchMode { get; }
```

### C++

```cpp
public:
property **BlockSearchMode** SearchMode {
    **BlockSearchMode** get ()
}
```

### J#

### JScript

## Property Value


One of the enumeration values that specifies in which block lists to search for the block.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
PutBlockListItem Class
PutBlockListItem Members

Other Resources
Operations on Block Blobs
Put Block (REST API)
Get Block List (REST API)
Put Block List (REST API)
PutPageProperties Class

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents properties for writing to a page blob.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td></td>
</tr>
<tr>
<td>Dim instance As <strong>PutPageProperties</strong></td>
<td></td>
</tr>
<tr>
<td>Syntax</td>
<td></td>
</tr>
<tr>
<td>----------</td>
<td>-------------------------------------</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Class PutPageProperties</td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public class PutPageProperties</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public ref class PutPageProperties</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Inheritance Hierarchy

System.Object

Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
PutPageProperties Members

Other Resources
Operations on Page Blobs
Get Page Ranges (REST API)
Put Page (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents properties for writing to a page blob.

The following tables list the members exposed by the PutPageProperties type.
## Public Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PutPageProperties</td>
<td>Initializes a new instance of the PutPageProperties class.</td>
</tr>
</tbody>
</table>
Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PageWrite</td>
<td>Gets or sets the type of write operation.</td>
</tr>
<tr>
<td>Range</td>
<td>Gets or sets the range of bytes to write to.</td>
</tr>
</tbody>
</table>
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
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</table>

[Top]
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
See Also

Reference
- PutPageProperties Class

Other Resources
- Operations on Page Blobs
- Get Page Ranges (REST API)
- Put Page (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the PutPageProperties class.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As New PutPageProperties
<table>
<thead>
<tr>
<th>Syntax</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td></td>
</tr>
<tr>
<td>Public Sub New</td>
<td></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td></td>
</tr>
<tr>
<td>public PutPageProperties ()</td>
<td></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td></td>
</tr>
<tr>
<td>public: PutPageProperties ()</td>
<td></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Platforms

Development Platforms
See Also

Reference

PutPageProperties Class
PutPageProperties Members

Other Resources

Operations on Page Blobs
Get Page Ranges (REST API)
Put Page (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
Public Methods (see also Protected Methods)

<table>
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<tr>
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</tr>
</thead>
<tbody>
<tr>
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## Protected Methods

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<tr>
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</tr>
<tr>
<td><code>MemberwiseClone</code></td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
</tbody>
</table>
See Also

Reference
PutPageProperties Class

Other Resources
Operations on Page Blobs
Get Page Ranges (REST API)
Put Page (REST API)
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PageWrite</td>
<td>Gets or sets the type of write operation.</td>
</tr>
<tr>
<td>Range</td>
<td>Gets or sets the range of bytes to write to.</td>
</tr>
</tbody>
</table>
See Also

Reference
PutPageProperties Class

Other Resources
Operations on Page Blobs
Get Page Ranges (REST API)
Put Page (REST API)
See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the type of write operation.

## Usage

### Visual Basic

```vbnet
Dim instance As PutPageProperties
Dim value As PageWrite

value = instance.PageWrite

instance.PageWrite = value
```
## Syntax

### Visual Basic

```
Public Property PageWrite As PageWrite
```

### C#

```
public PageWrite PageWrite { get; set; }
```

### C++

```
public:
property PageWrite PageWrite {
   PageWrite get ();
   void set (PageWrite value);
}
```

### J#

```

```

### JScript

```

```

## Property Value


The type of page write operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
PutPageProperties Class
PutPageProperties Members

Other Resources
Operations on Page Blobs
Get Page Ranges (REST API)
Put Page (REST API)
PutPageProperties.Range Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets or sets the range of bytes to write to.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As PutPageProperties
Dim value As PageRange

value = instance.Range

instance.Range = value
# Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Property Range As PageRange</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public PageRange Range { get; set; }</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: PageRange^ Range {</td>
</tr>
<tr>
<td>PageRange^ get ();</td>
</tr>
<tr>
<td>void set (PageRange^ value);</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>

**Property Value**


The page range.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
PutPageProperties Class
PutPageProperties Members

Other Resources
Operations on Page Blobs
Get Page Ranges (REST API)
Put Page (REST API)
QueueEntry Class

See Also Members

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a queue item returned in the XML response for a queue listing operation.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```
Dim instance As QueueEntry
```
<table>
<thead>
<tr>
<th>Syntax</th>
<th>Visual Basic</th>
<th></th>
<th>C#</th>
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<th>C++</th>
<th></th>
<th>J#</th>
<th></th>
<th>JScript</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Public Class QueueEntry</td>
<td></td>
<td>public class QueueEntry</td>
<td></td>
<td>public ref class QueueEntry</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Inheritance Hierarchy

System.Object
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueEntry Members

Other Resources
Queue Service REST API
List Queues
Operations on Messages
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a queue item returned in the XML response for a queue listing operation.

The following tables list the members exposed by the QueueEntry type.
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attributes</td>
<td>Gets the queue's attributes.</td>
</tr>
<tr>
<td>Name</td>
<td>Gets the name of the queue.</td>
</tr>
</tbody>
</table>

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## Public Methods (see also **Protected Methods**)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
### Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>

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See Also

Reference
QueueEntry Class

Other Resources
Queue Service REST API
List Queues
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QueueEntry Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✿ Finalize</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>✿ MemberwiseClone</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
See Also

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QueueEntry Class

Other Resources
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List Queues
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<table>
<thead>
<tr>
<th>QueueEntry Properties</th>
</tr>
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<tbody>
<tr>
<td>See Also</td>
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</tbody>
</table>

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attributes</td>
<td>Gets the queue's attributes.</td>
</tr>
<tr>
<td>Name</td>
<td>Gets the name of the queue.</td>
</tr>
</tbody>
</table>
See Also

Reference
QueueEntry Class

Other Resources
Queue Service REST API
List Queues
Operations on Messages
QueueEntry.Attributes Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the queue's attributes.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim instance As QueueEntry
Dim value As QueueAttributes

value = instance.Attributes
```
## Syntax

### Visual Basic

Public Property Attributes As `QueueAttributes`

### C#

```csharp
public `QueueAttributes` Attributes { get; }
```

### C++

```cpp
public:
property `QueueAttributes`^ Attributes {
    `QueueAttributes`^ get ();
}
```

### J#

```

```

### JScript

```

```

## Property Value

Type: `Microsoft.WindowsAzure.StorageClient.QueueAttributes`

The queue's attributes.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueEntry Class
QueueEntry Members

Other Resources
Queue Service REST API
List Queues
Operations on Messages
QueueEntry.Name Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the name of the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As QueueEntry
Dim value As String

value = instance.Name
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public Property Name As String</code></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td><code>public string Name { get; }</code></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><code>public: property String^ Name { String^ get (); }</code></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

Type: [System.String](https://docs.microsoft.com/en-us/dotnet/api/system.string)

The queue name.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
See Also

Reference
QueueEntry Class
QueueEntry Members

Other Resources
Queue Service REST API
List Queues
Operations on Messages
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a message retrieved from a queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim instance As <strong>QueueMessage</strong></td>
</tr>
<tr>
<td>Syntax</td>
</tr>
<tr>
<td>----------</td>
</tr>
<tr>
<td>Visual Basic</td>
</tr>
<tr>
<td>C#</td>
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<tr>
<td>C++</td>
</tr>
<tr>
<td>J#</td>
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<tr>
<td>JScript</td>
</tr>
</tbody>
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Inheritance Hierarchy

System.Object
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

QueueMessage Members
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Represents a message retrieved from a queue.

The following tables list the members exposed by the QueueMessage type.
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DequeueCount</td>
<td>Gets the number of times this message has been dequeued.</td>
</tr>
<tr>
<td>ExpirationTime</td>
<td>Gets the message expiration time.</td>
</tr>
<tr>
<td>Id</td>
<td>Gets the message ID.</td>
</tr>
<tr>
<td>InsertionTime</td>
<td>Gets the time the message was added to the queue.</td>
</tr>
<tr>
<td>PopReceipt</td>
<td>Gets the pop receipt for the message.</td>
</tr>
<tr>
<td>Text</td>
<td>Gets the text of the message.</td>
</tr>
<tr>
<td>TimeNextVisible</td>
<td>Gets the time the message is next visible.</td>
</tr>
</tbody>
</table>

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Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
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<td>Equals</td>
<td>(Inherited from Object)</td>
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<td>GetHashCode</td>
<td>(Inherited from Object)</td>
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<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>

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## Protected Methods

<table>
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<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>

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Reference
QueueMessage Class
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>

- Public Methods (see also Protected Methods)
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>
See Also

Reference
QueueMessage Class
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DequeueCount</td>
<td>Gets the number of times this message has been dequeued.</td>
</tr>
<tr>
<td>ExpirationTime</td>
<td>Gets the message expiration time.</td>
</tr>
<tr>
<td>Id</td>
<td>Gets the message ID.</td>
</tr>
<tr>
<td>InsertionTime</td>
<td>Gets the time the message was added to the queue.</td>
</tr>
<tr>
<td>PopReceipt</td>
<td>Gets the pop receipt for the message.</td>
</tr>
<tr>
<td>Text</td>
<td>Gets the text of the message.</td>
</tr>
<tr>
<td>TimeNextVisible</td>
<td>Gets the time the message is next visible.</td>
</tr>
</tbody>
</table>
See Also

Reference
QueueMessage Class
QueueMessage.DequeueCount Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the number of times this message has been dequeued.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim instance As QueueMessage
Dim value As Integer

value = instance.DequeueCount
```
## Syntax

### Visual Basic

Public Property DequeueCount As Integer

### C#

public int DequeueCount { get; }

### C++

public:
property int DequeueCount {
    int get ();
}

### J#

### JScript

**Property Value**

Type: [System.Int32](https://docs.microsoft.com/en-us/dotnet/api/system.int32)

The dequeue count.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueMessage Class
QueueMessage Members

Other Resources
Queue Service REST API
Operations on Messages
QueueMessage.ExpirationTime Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the message expiration time.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| Dim instance As QueueMessage  
Dim value As DateTime  
value = instance.ExpirationTime |
## Syntax

### Visual Basic

Public Property ExpirationTime As **DateTime**

### C#

```csharp
public DateTime ExpirationTime { get; }
```

### C++

```cpp
public:
    property DateTime ExpirationTime {
        DateTime get();
    }
```

### J#

### JScript

### Property Value

Type: **System.DateTime**

The message expiration time.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueMessage Class
QueueMessage Members

Other Resources
Queue Service REST API
Operations on Messages
### QueueMessage.Id Property

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.]

Gets the message ID.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim instance As QueueMessage
Dim value As String

value = instance.Id
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Property Id As <em>String</em></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public <em>string</em> Id { get; }</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public: property <em>String</em> Id { <em>String</em> get (); }</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

Type: [System.String](#)

The message ID.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueMessage Class
QueueMessage Members

Other Resources
Queue Service REST API
Operations on Messages
QueueMessage.InsertionTime Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the time the message was added to the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

<table>
<thead>
<tr>
<th>Dim instance As QueueMessage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dim value As DateTime</td>
</tr>
</tbody>
</table>

value = instance.InsertionTime
Syntax

Visual Basic

Public Property InsertionTime As DateTime

C#

public DateTime InsertionTime { get; }

C++

public:
property DateTime InsertionTime {
    DateTime get ();
}

J#

JScript

Property Value

Type: System.DateTime

The message insertion time.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueMessage Class
QueueMessage Members

Other Resources
Queue Service REST API
Operations on Messages
QueueMessage.PopReceipt Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the pop receipt for the message.

### Usage

**Visual Basic**

```vbnet
Dim instance As QueueMessage
Dim value As String

value = instance.PopReceipt
```
**Syntax**

**Visual Basic**

```vbnet
Public Property PopReceipt As String
```

**C#**

```csharp
public string PopReceipt { get; }
```

**C++**

```cpp
public:
    property String^ PopReceipt {
        String^ get ();
    }
```

**J#**

```jsharp
```

**JScript**

```jscript
```

**Property Value**

Type: [System.String](https://docs.microsoft.com/en-us/dotnet/api/system.string)

The message's pop receipt.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
-thread safety

Any public static (\textit{Shared} in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueMessage Class
QueueMessage Members

Other Resources
Queue Service REST API
Operations on Messages
QueueMessage.Text Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the text of the message.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vba
Dim instance As QueueMessage
Dim value As String

value = instance.Text
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Property Text As <em>String</em></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public <em>string</em> Text { get; }</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public: property <em>String^</em> Text { <em>String^</em> get (); }</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

Type: [System.String](https://docs.microsoft.com/en-us/dotnet/api/system.string)  
The message text.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueMessage Class
QueueMessage Members

Other Resources
Queue Service REST API
Operations on Messages
QueueMessage.TimeNextVisible Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the time the message is next visible.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Visual Basic

Dim instance As QueueMessage
Dim value As Nullable(Of DateTime)

value = instance.TimeNextVisible
## Syntax

**Visual Basic**

Public Property TimeNextVisible As Nullable(Of DateTime)

**C#**

```csharp
public Nullable<DateTime> TimeNextVisible { get; }
```

**C++**

```cpp
public:
property Nullable<DateTime> TimeNextVisible { 
    Nullable<DateTime> get ();
}
```

**J#**

```j#
```

**JScript**

```javascript
```

### Property Value

Type: [System.Nullable](https://docs.microsoft.com/en-us/dotnet/api/systemnullable)

The time the message is next visible.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueMessage Class
QueueMessage Members

Other Resources
Queue Service REST API
Operations on Messages
QueueRequest Class

See Also Members

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Provides a set of methods for constructing requests for queue operations.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
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### Syntax

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<td><strong>Visual Basic</strong></td>
<td>Public NotInheritable Class QueueRequest</td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public static class QueueRequest</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public ref class QueueRequest abstract sealed</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
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<td><strong>JScript</strong></td>
<td></td>
</tr>
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</table>
Inheritance Hierarchy

System.Object
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.
  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

QueueRequest Members
Provides a set of methods for constructing requests for queue operations.

The following tables list the members exposed by the `QueueRequest` type.
### Public Methods

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<th>Description</th>
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<td>Overloaded.</td>
</tr>
<tr>
<td>ClearMessages</td>
<td>Constructs a web request to clear all messages in the queue.</td>
</tr>
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<td>Create</td>
<td>Constructs a web request to create a queue.</td>
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<td>Delete</td>
<td>Constructs a web request to delete a queue.</td>
</tr>
<tr>
<td>DeleteMessage</td>
<td>Constructs a web request to delete the specified message.</td>
</tr>
<tr>
<td>GenerateMessageRequestBody</td>
<td>Generates the message request body from a string containing the message.</td>
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<td>Constructs a web request to return the user-defined metadata for the queue.</td>
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<td>Gets the properties of an account’s Queue service.</td>
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<tr>
<td>List</td>
<td>Constructs a web request to return a listing of all queues in the storage account.</td>
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<td>Constructs a web request to set user-defined metadata for the queue.</td>
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<td>Sets the properties of an account’s Queue service.</td>
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</tr>
<tr>
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<td>Updates a queue message.</td>
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<td>Writes the Queue service properties to an output stream.</td>
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See Also

Reference
QueueRequest Class
QueueRequest Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods

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<tr>
<th>Name</th>
<th>Description</th>
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<tbody>
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<td>Overloaded.</td>
</tr>
<tr>
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<td><img src="image" alt="Create" /></td>
<td>Constructs a web request to create a queue.</td>
</tr>
<tr>
<td><img src="image" alt="Delete" /></td>
<td>Constructs a web request to delete a queue.</td>
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<tr>
<td><img src="image" alt="DeleteMessage" /></td>
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<td>Constructs a web request to retrieve a specified number of messages without changing their visibility.</td>
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<tr>
<td><img src="image" alt="PutMessage" /></td>
<td>Overloaded.</td>
</tr>
<tr>
<td><img src="image" alt="SetMetadata" /></td>
<td>Constructs a web request to set user-defined metadata for the queue.</td>
</tr>
<tr>
<td><img src="image" alt="SetServiceProperties" /></td>
<td>Sets the properties of an account’s Queue service.</td>
</tr>
<tr>
<td><img src="image" alt="SignRequest" /></td>
<td>Signs the request for Shared Key authentication.</td>
</tr>
<tr>
<td><img src="image" alt="SignRequestForSharedKeyLite" /></td>
<td>Signs the request for Shared Key Lite authentication.</td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
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<td>-----------------------------------------------------</td>
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<tr>
<td><code>UpdateMessage</code></td>
<td>Updates a queue message.</td>
</tr>
<tr>
<td><code>WriteServiceProperties</code></td>
<td>Writes the Queue service properties to an output stream.</td>
</tr>
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</table>
See Also

Reference
QueueRequest Class
**QueueRequest.AddMetadata Method**

**See Also**

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Overload List

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<tr>
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<td>Adds user-defined metadata to the request as one or more name-value pairs.</td>
</tr>
<tr>
<td><code>QueueRequest.AddMetadata(HttpWebRequest, String, String)</code></td>
<td>Adds user-defined metadata to the request as a single name-value pair.</td>
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QueueRequest Class
QueueRequest Members

Other Resources

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Set Queue Metadata
Queue Service Error Codes
QueueRequest.AddMetadata Method (HttpRequest, NameValueCollection)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Adds user-defined metadata to the request as one or more name-value pairs.

**Usage**

**Visual Basic**

Dim request As **HttpRequest**
Dim metadata As **NameValueCollection**

**QueueRequest**.AddMetadata(request, metadata)
## Syntax

### Visual Basic

```vbnet
Public Shared Sub AddMetadata (_
    request As HttpWebRequest, _
    metadata As NameValueCollection _
)
```

### C#

```csharp
public static void AddMetadata (
    HttpWebRequest request,
    NameValueCollection metadata
)
```

### C++

```cpp
public:
static void AddMetadata (
    HttpWebRequest^ request,
    NameValueCollection^ metadata
)
```

### J#

```
```

### JScript

```
```

## Parameters

- **request**
  - Type: `System.Net.HttpWebRequest`
    
    The web request.
metadata

Type: `System.Collections.Specialized.NameValueCollection`

The user-defined metadata.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueRequest Class
QueueRequest Members

Other Resources
Get Queue Metadata
Set Queue Metadata
Queue Service Error Codes
QueueRequest.AddMetadata Method (HttpWebRequest, String, String)

See Also

This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.

Adds user-defined metadata to the request as a single name-value pair.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim request As HttpWebRequest
Dim name As String
Dim value As String

QueueRequest.AddMetadata(request, name, value)
```
## Syntax

### Visual Basic

Public Shared Sub AddMetadata (  
    request As HttpWebRequest,  
    name As String,  
    value As String  
)

### C#

public static void AddMetadata (  
    HttpWebRequest request,  
    string name,  
    string value  
)

### C++

public:

static void AddMetadata (  
    HttpRequest^ request,  
    String^ name,  
    String^ value  
)

### J#


### JScript


## Parameters

*request*
Type: `System.Net.HttpWebRequest`

The web request.

`name`
Type: `System.String`

The metadata name.

`value`
Type: `System.String`

The metadata value.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueRequest Class
QueueRequest Members

Other Resources
Get Queue Metadata
Set Queue Metadata
Queue Service Error Codes
QueueRequest.ClearMessages Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a web request to clear all messages in the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim uri As Uri
Dim timeout As Integer
Dim returnValue As HttpWebRequest

returnValue = QueueRequest.ClearMessages(uri, timeout)
## Syntax

### Visual Basic

```vbnet
Public Shared Function ClearMessages ( _
    uri As Uri, _
    timeout As Integer _
) As HttpWebRequest
```

### C#

```csharp
public static HttpWebRequest ClearMessages ( 
    Uri uri,
    int timeout
)
```

### C++

```cpp
public:
static HttpWebRequest^ ClearMessages ( 
    Uri^ uri,
    int timeout
)
```

### J#

```
```

### JScript

```
```

## Parameters

### uri

Type: `System.Uri`

The absolute URI to the queue.
timeout
Type: System.Int32
The server timeout interval.

Return Value
Type: System.Net.HttpWebRequest
A web request for the specified operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueRequest Class
QueueRequest Members

Other Resources
Operations on Messages
Clear Messages
Delete Message
Get Messages
Peek Messages
Put Message
Update Message
QueueRequest.Create Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a web request to create a queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim uri As Uri
Dim timeout As Integer
Dim returnValue As HttpWebRequest

returnValue = QueueRequest.Create(uri, timeout)
```
## Syntax

### Visual Basic

```vbnet
Public Shared Function Create ( _
    uri As Uri, _
    timeout As Integer _
) As HttpWebRequest
```

### C#

```csharp
public static HttpWebRequest Create ( 
    Uri uri,
    int timeout
)
```

### C++

```cpp
public:
static HttpWebRequest^ Create ( 
    Uri^ uri,
    int timeout
)
```

### J#

```jscript
```

### JScript

```
```

## Parameters

**uri**

Type: `System.Uri`

The absolute URI to the queue.
timeout
Type: System.Int32

The server timeout interval.

Return Value
Type: System.Net.HttpWebRequest

A web request for performing the operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueRequest Class
QueueRequest Members

Other Resources
Queue Service REST API
Create Queue
Delete Queue
Naming Queues and Metadata
Queue Service Error Codes
Constructs a web request to delete a queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim uri As Uri
Dim timeout As Integer
Dim returnValue As HttpWebRequest

returnValue = QueueRequest.Delete(uri, timeout)
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Shared Function Delete ( _</td>
</tr>
<tr>
<td>uri As Uri, _</td>
</tr>
<tr>
<td>timeout As Integer _</td>
</tr>
<tr>
<td>) As HttpWebRequest</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public static HttpWebRequest Delete (</td>
</tr>
<tr>
<td>Uri uri,</td>
</tr>
<tr>
<td>int timeout</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public:</td>
</tr>
<tr>
<td>static HttpWebRequest^ Delete (</td>
</tr>
<tr>
<td>Uri^ uri,</td>
</tr>
<tr>
<td>int timeout</td>
</tr>
<tr>
<td>)</td>
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</tbody>
</table>

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<th>J#</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>

**Parameters**

*uri*

Type: System.Uri

The absolute URI to the queue.
timeout
Type: **System.Int32**

The server timeout interval.

**Return Value**

Type: **System.Net.HttpWebRequest**

A web request for performing the operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueRequest Class
QueueRequest Members

Other Resources
Queue Service REST API
Create Queue
Delete Queue
Naming Queues and Metadata
Queue Service Error Codes
QueueRequest.DeleteMessage Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a web request to delete the specified message.

**Usage**

**Visual Basic**

```vbnet
Dim uri As Uri
Dim timeout As Integer
Dim popReceipt As String
Dim returnValue As HttpWebRequest

returnValue = QueueRequest.DeleteMessage(uri, timeout)
```
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Shared Function DeleteMessage ( _</td>
</tr>
<tr>
<td>uri As Uri, _</td>
</tr>
<tr>
<td>timeout As Integer, _</td>
</tr>
<tr>
<td>popReceipt As String _</td>
</tr>
<tr>
<td>) As HttpWebRequest</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public static HttpWebRequest DeleteMessage (</td>
</tr>
<tr>
<td>Uri uri,</td>
</tr>
<tr>
<td>int timeout,</td>
</tr>
<tr>
<td>string popReceipt</td>
</tr>
<tr>
<td>)</td>
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<table>
<thead>
<tr>
<th>C++</th>
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<tbody>
<tr>
<td>public:</td>
</tr>
<tr>
<td>static HttpWebRequest^ DeleteMessage (</td>
</tr>
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<td>Uri^ uri,</td>
</tr>
<tr>
<td>int timeout,</td>
</tr>
<tr>
<td>String^ popReceipt</td>
</tr>
<tr>
<td>)</td>
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<th>J#</th>
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<tr>
<td></td>
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<tr>
<th>JScript</th>
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<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

### Parameters

- **uri**
Type: `System.Uri`

The absolute URI to the queue.

`timeout`

Type: `System.Int32`

The server timeout interval.

`popReceipt`

Type: `System.String`

The pop receipt value for the message.

**Return Value**

Type: `System.Net.HttpWebRequest`

A web request for the specified operation.
**Remarks**

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueRequest Class
QueueRequest Members

Other Resources
Operations on Messages
Clear Messages
Delete Message
Get Messages
Peek Messages
Put Message
Update Message
Generates the message request body from a string containing the message.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim message As String
Dim returnValue As Byte()

returnValue = QueueRequest.GenerateMessageRequestBody
```
## Syntax

### Visual Basic

```vbnet
Public Shared Function GenerateMessageRequestBody (message As String) As Byte()```

### C#

```csharp
public static byte[] GenerateMessageRequestBody (string message)
```

### C++

```cpp
public:
static array<unsigned char>^ GenerateMessageRequestBody (String^ message)
```

### J#

```
```

### JScript

```
```

## Parameters

**message**

Type: `System.String`

The content of the message.

## Return Value
The message request body as an array of bytes.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
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Update Message
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<tr>
<th><strong>QueueRequest.GetMessages Method</strong></th>
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<tr>
<td><strong>See Also</strong></td>
</tr>
</tbody>
</table>

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.]

Constructs a web request to retrieve a specified number of messages.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim uri As Uri
Dim timeout As Integer
Dim numberOfMessages As Nullable(Of Integer)
Dim visibilityTimeout As Nullable(Of Integer)
Dim returnValue As HttpWebRequest

returnValue = QueueRequest.GetMessages(uri, timeout,
```
### Syntax

#### Visual Basic

```vbnet
Public Shared Function GetMessages ( _
    uri As Uri, _
    timeout As Integer, _
    numberOfMessages As Nullable(Of Integer), _
    visibilityTimeout As Nullable(Of Integer) _
) As HttpWebRequest
```

#### C#

```csharp
public static HttpWebRequest GetMessages ( 
    Uri uri, 
    int timeout, 
    Nullable<int> numberOfMessages, 
    Nullable<int> visibilityTimeout 
)
```

#### C++

```cpp
public:
static HttpWebRequest^ GetMessages ( 
    Uri^ uri, 
    int timeout, 
    Nullable<int> numberOfMessages, 
    Nullable<int> visibilityTimeout 
)
```

#### J#

#### JScript
**Parameters**

*uri*
  
  Type: `System.Uri`

  The absolute URI to the queue.

*timeout*
  
  Type: `System.Int32`

  The server timeout interval.

*numberOfMessages*
  
  Type: `System.Nullable` `System.Int32`

  The number of messages to retrieve.

*visibilityTimeout*
  

  The visibility timeout for the message or messages.

**Return Value**

Type: `System.Net.HttpWebRequest`

A web request for the specified operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (**Shared** in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

QueueRequest Class
QueueRequest Members

Other Resources

Operations on Messages
Clear Messages
Delete Message
Get Messages
Peek Messages
Put Message
Update Message
QueueRequest.GetMetadata Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a web request to return the user-defined metadata for the queue.

**Usage**

**Visual Basic**

```vbnet
Dim uri As Uri
Dim timeout As Integer
Dim returnValue As HttpWebRequest

returnValue = QueueRequest.GetMetadata(uri, timeout)
```
### Syntax

#### Visual Basic

| Public Shared Function GetMetadata ( _
| | uri As Uri, _
| | timeout As Integer _
| ) As HttpWebRequest |

#### C#

```csharp
public static HttpWebRequest GetMetadata ( Uri uri,
                                          int timeout
)
```

#### C++

```c++
public:
static HttpWebRequest^ GetMetadata ( Uri^ uri,
                                      int timeout
)
```

#### J#

#### JScript

### Parameters

**uri**

Type: **System.Uri**

The absolute URI to the queue.
timeout
Type: System.Int32

The server timeout interval.

Return Value
Type: System.Net.HttpWebRequest

A web request for performing the operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueRequest Class
QueueRequest Members

Other Resources
Get Queue Metadata
Set Queue Metadata
Queue Service Error Codes
QueueRequest.GetServiceProperties Method

See Also

This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.

Gets the properties of an account’s Queue service.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

**Visual Basic**

```vbnet
Dim uri As Uri
Dim timeout As Integer
Dim returnValue As HttpWebRequest

returnValue = QueueRequest.GetServiceProperties(uri,
```

## Syntax

### Visual Basic

```vbnet
Public Shared Function GetServiceProperties ( _
    uri As Uri, _
    timeout As Integer _
) As HttpWebRequest
```

### C#

```csharp
public static HttpWebRequest GetServiceProperties ( 
    Uri uri, 
    int timeout
)
```

### C++

```cpp
public:
static HttpWebRequest^ GetServiceProperties ( 
    Uri^ uri, 
    int timeout
)
```

### J#

```csharp
```

### JScript

```javascript
```

## Parameters

**uri**
- The absolute URI to the queue.

**timeout**
- A timeout value, in seconds.
Return Value

Returns `HttpWebRequest`.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueRequest Class
QueueRequest Members

Other Resources
Get Queue Service Properties
Set Queue Service Properties
Get Queue Metadata
QueueRequest.List Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a web request to return a listing of all queues in the storage account.

### Usage

**Visual Basic**

```visualbasic
Dim uri As Uri
Dim timeout As Integer
Dim listingContext As ListingContext
Dim detailsIncluded As QueueListingDetails
Dim returnValue As HttpWebRequest

returnValue = QueueRequest.List(uri, timeout, listingContext)
```
**Syntax**

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **Visual Basic** | Public Shared Function List ( _
| |   uri As Uri, _
| |   timeout As Integer, _
| |   listingContext As ListingContext, _
| |   detailsIncluded As QueueListingDetails _
| | ) As HttpWebRequest |
| **C#** | public static HttpWebRequest List ( _
| |   Uri uri,
| |   int timeout,  
| |   ListingContext listingContext, 
| |   QueueListingDetails detailsIncluded |
| **C++** | public:
| | static HttpWebRequest^ List ( _
| |   Uri^ uri,
| |   int timeout,  
| |   ListingContext^ listingContext, 
| |   QueueListingDetails detailsIncluded |
| **J#** | |
| **JScript** | |
Parameters

uri
Type: System.Uri

The absolute URI to the queue.

timeout
Type: System.Int32

The server timeout interval.

listingContext

A set of parameters for the listing operation.

detailsIncluded
Type: Microsoft.WindowsAzure.StorageClient.QueueListingDetails

One of the enumeration values indicating which details to include in the listing.

Return Value

Type: System.Net.HttpWebRequest

A web request to use to perform the operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueRequest Class
QueueRequest Members

Other Resources
List Queues
Queue Service Error Codes
QueueRequest.PeekMessages Method

See Also

This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.

Constructs a web request to retrieve a specified number of messages without changing their visibility.

Usage

Visual Basic

Dim uri As Uri
Dim timeout As Integer
Dim numberOfMessages As Nullable(Of Integer)
Dim returnValue As HttpWebRequest

returnValue = QueueRequest.PeekMessages(uri, timeout,
## Syntax

### Visual Basic

```vbnet
Public Shared Function PeekMessages ( _
    uri As Uri, _
    timeout As Integer, _
    numberOfMessages As Nullable(Of Integer) _
) As HttpWebRequest
```

### C#

```csharp
public static HttpWebRequest PeekMessages (  
    Uri uri,  
    int timeout,  
    Nullable<int> numberOfMessages
)
```

### C++

```cpp
public:  
static HttpWebRequest^ PeekMessages (  
    Uri^ uri,  
    int timeout,  
    Nullable<int> numberOfMessages
)
```

### J#

```jsharp
```

### JScript

```jscript
```

### Parameters

- `uri`
Type: `System.Uri`

The absolute URI to the queue.

`timeout`
Type: `System.Int32`

The server timeout interval.

`numberOfMessages`
Type: `System.Nullable`

The number of messages to retrieve.

**Return Value**

Type: `System.Net.HttpWebRequest`

A web request for performing the specified operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueRequest Class
QueueRequest Members

Other Resources
Operations on Messages
Clear Messages
Delete Message
Get Messages
Peek Messages
Put Message
Update Message
QueueRequest.PutMessage Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>QueueRequest.PutMessage (Uri, Int32, Nullable)</code></td>
<td>Constructs a web request to add a message to the queue.</td>
</tr>
<tr>
<td><code>QueueRequest.PutMessage (Uri, Int32, Nullable, Nullable)</code></td>
<td>Constructs a web request to add a message to the queue.</td>
</tr>
</tbody>
</table>
See Also

Reference
QueueRequest Class
QueueRequest Members

Other Resources
Operations on Messages
Clear Messages
Delete Message
Get Messages
Peek Messages
Put Message
Update Message
QueueRequest.PutMessage Method (Uri, Int32, Nullable)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a web request to add a message to the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim uri As *Uri*
Dim timeout As *Integer*
Dim messageTimeToLive As *Nullable(Of Integer)*
Dim returnValue As *HttpWebRequest*

returnValue = *QueueRequest*.PutMessage(uri, timeout, messageTimeToLive, ...)
## Syntax

### Visual Basic

```vbnet
Public Shared Function PutMessage ( _
    uri As Uri, _
    timeout As Integer, _
    messageTimeToLive As Nullable(Of Integer) _
) As HttpWebRequest
```

### C#

```csharp
public static HttpWebRequest PutMessage (  
    Uri uri,  
    int timeout,  
    Nullable<int> messageTimeToLive
)
```

### C++

```csharp
public:  
static HttpWebRequest^ PutMessage (  
    Uri^ uri,  
    int timeout,  
    Nullable<int> messageTimeToLive
)
```

### J#

```csharp```

### JScript

```csharp```

## Parameters

- `uri`
Type: `System.Uri`  
The absolute URI to the queue.

`timeout`  
Type: `System.Int32`  
The server timeout interval.

`messageTimeToLive`  
Type: `System.Nullable`  
The message time-to-live.

**Return Value**  
Type: `System.Net.HttpWebRequest`  
A web request for the specified operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueRequest Class
QueueRequest Members

Other Resources
Operations on Messages
Clear Messages
Delete Message
Get Messages
Peek Messages
Put Message
Update Message
QueueRequest.PutMessage Method (Uri, Int32, Nullable, Nullable)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a web request to add a message to the queue.

Usage

Visual Basic

```vbnet
Dim uri As Uri
Dim timeout As Integer
Dim messageTimeToLive As Nullable(Of Integer)
Dim visibilityTimeout As Nullable(Of Integer)
Dim returnValue As HttpWebRequest

returnValue = QueueRequest.PutMessage(uri, timeout, messageTimeToLive, visibilityTimeout)
```
## Syntax

### Visual Basic

```vbnet
Public Shared Function PutMessage (_
    uri As Uri, _
    timeout As Integer, _
    messageTimeToLive As Nullable(Of Integer), _
    visibilityTimeout As Nullable(Of Integer) _
) As HttpWebRequest
```

### C#

```csharp
public static HttpWebRequest PutMessage ( _
    Uri uri, _
    int timeout, _
    Nullable<int> messageTimeToLive, _
    Nullable<int> visibilityTimeout
)
```

### C++

```cpp
public:
    static HttpRequest^ PutMessage ( _
        Uri^ uri, _
        int timeout, _
        Nullable<int> messageTimeToLive, _
        Nullable<int> visibilityTimeout
    )
```

### J#

### JScript
Parameters

*uri*
Type: `System.Uri`

The absolute URI to the queue.

*timeout*
Type: `System.Int32`

The server timeout interval.

*messageTimeToLive*
Type: `System.Nullable` `System.Int32`

The message time-to-live.

*visibilityTimeout*
Type: `System.Nullable` `System.Int32`

The visibility timeout of the message.

Return Value

Type: `System.Net.HttpWebRequest`

A web request for the specified operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
- **Thread Safety**

  Any public static (Shared in Visual Basic) members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueRequest Class
QueueRequest Members

Other Resources
Operations on Messages
Clear Messages
Delete Message
Get Messages
Peek Messages
Put Message
Update Message
QueueRequest.SetMetadata Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Constructs a web request to set user-defined metadata for the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim uri As Uri
Dim timeout As Integer
Dim returnValue As HttpWebRequest

returnValue = QueueRequest.SetMetadata(uri, timeout)
## Syntax

### Visual Basic

```vbnet
Public Shared Function SetMetadata ( _
    uri As Uri, _
    timeout As Integer _
) As HttpWebRequest
```

### C#

```csharp
public static HttpWebRequest SetMetadata (  
    Uri uri,  
    int timeout
)
```

### C++

```cpp
public:  
static HttpWebRequest^ SetMetadata (  
    Uri^ uri,  
    int timeout
)
```

### J#

```
```

### JScript

```
```

## Parameters

- **uri**
  - Type: [System.Uri](https://docs.microsoft.com/en-us/dotnet/api/system.uri)
  - The absolute URI to the queue.
timeout
Type: System.Int32

The server timeout interval.

Return Value
Type: System.Net.HttpWebRequest

A web request for performing the operation.
 Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueRequest Class
QueueRequest Members

Other Resources
Get Queue Metadata
Set Queue Metadata
Queue Service Error Codes
QueueRequest.GetServiceProperties Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Sets the properties of an account’s Queue service.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
dim uri as Uri
Dim timeout as Integer
Dim returnValue as HttpWebRequest

returnValue = QueueRequest.SetServiceProperties(uri,
```

### Syntax

**Visual Basic**

```vbnet
Public Shared Function SetServiceProperties (_
    uri As Uri, _
    timeout As Integer _
) As HttpWebRequest
```

**C#**

```csharp
public static HttpWebRequest SetServiceProperties ( Uri uri,
    int timeout
)
```

**C++**

```cpp
public:
static HttpWebRequest^ SetServiceProperties ( Uri^ uri,
    int timeout
)
```

**J#**

```jsharp

```

**JScript**

```javascript

```

### Parameters

**uri**

The absolute URI to the queue.

**timeout**

A timeout value, in seconds.
Return Value

Returns `HttpWebRequest`. 
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueRequest Class
QueueRequest Members

Other Resources
Get Queue Service Properties
Set Queue Service Properties
Get Queue Metadata
QueueRequest.SignRequest Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Signs the request for Shared Key authentication.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```
Dim request As HttpWebRequest
Dim credentials As Credentials

QueueRequest.SignRequest(request, credentials)
```
## Syntax

### Visual Basic

```
Public Shared Sub SignRequest ( _
    request As HttpWebRequest, _
    credentials As Credentials _
)
```

### C#

```
public static void SignRequest ( 
    HttpWebRequest request, 
    Credentials credentials
)
```

### C++

```
public:
    static void SignRequest ( 
        HttpWebRequest^ request, 
        Credentials^ credentials
    )
```

### J#

```
```

### JScript

```
```

## Parameters

**request**

Type: `System.Net.HttpWebRequest`

The web request.
credentials

The account credentials.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueRequest Class
QueueRequest Members

Other Resources
Creating a Shared Access Signature
Table Service Extensions
QueueRequest.SignRequestForSharedKeyLite Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Signs the request for Shared Key Lite authentication.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim request As HttpRequest
Dim credentials As Credentials

QueueRequest.SignRequestForSharedKeyLite(request, cred...
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
</table>
| `Public Shared Sub SignRequestForSharedKeyLite (_
request As HttpWebRequest, _
credentials As Credentials _)` |

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>public static void SignRequestForSharedKeyLite ( HttpWebRequest request, Credentials credentials )</code></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| `public:
static void SignRequestForSharedKeyLite ( HttpWebRequest^ request,
Credentials^ credentials )` |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

| JScript |

### Parameters

- **request**
  - Type: `System.Net.HttpWebRequest`

  The web request.
credentials

The account credentials.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueRequest Class
QueueRequest Members

Other Resources
Creating a Shared Access Signature
Table Service Extensions
QueueRequest.UpdateMessage Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Updates a queue message.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim uri As Uri
Dim timeout As Integer
Dim popReceipt As String
Dim visibilityTimeout As Integer
Dim returnValue As HttpWebRequest

returnValue = QueueRequest.UpdateMessage(uri, timeout)
```
### Syntax

#### Visual Basic

```vbnet
Public Shared Function UpdateMessage (_
    uri As Uri, _
    timeout As Integer, _
    popReceipt As String, _
    visibilityTimeout As Integer _
) As HttpWebRequest
```

#### C#

```csharp
public static HttpWebRequest UpdateMessage ( _
    Uri uri, _
    int timeout, _
    string popReceipt, _
    int visibilityTimeout
)
```

#### C++

```cpp
public:
static HttpWebRequest^ UpdateMessage ( _
    Uri^ uri, _
    int timeout, _
    String^ popReceipt, _
    int visibilityTimeout
)
```

#### J#

```
```

#### JScript

```
```
**Parameters**

*uri*

The absolute URI to the queue.

*timeout*

A timeout value, in seconds.

*popReceipt*

The pop receipt value for the message.

*visibilityTimeout*

The visibility timeout, in seconds.

**Return Value**

Returns `HttpWebRequest`. 
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueRequest Class
QueueRequest Members

Other Resources
Operations on Messages
Clear Messages
Delete Message
Get Messages
Peek Messages
Put Message
Update Message
QueueRequest.WriteServiceProperties Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Writes the Queue service properties to an output stream.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim properties As ServiceProperties
Dim outputstream As Stream

QueueRequest.WriteServiceProperties(properties, outputstream)
## Syntax

### Visual Basic

```vbnet
Public Shared Sub WriteServiceProperties ( _
    properties As ServiceProperties, _
    outputStream As Stream _
)
```

### C#

```csharp
public static void WriteServiceProperties ( _
    ServiceProperties properties, _
    Stream outputStream
)
```

### C++

```cpp
public:
static void WriteServiceProperties ( _
    ServiceProperties^ properties, _
    Stream^ outputStream
)
```

### J#

```csharp
```

### JScript

```csharp
```

## Parameters

**properties**

The Queue service properties.

**outputStream**

The stream to be written.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueRequest Class
QueueRequest Members

Other Resources
Get Queue Service Properties
Set Queue Service Properties
Get Queue Metadata
Provides a set of methods for parsing responses from queue operations.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic
<table>
<thead>
<tr>
<th>Syntax</th>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public NotInheritable Class QueueResponse</td>
<td></td>
</tr>
<tr>
<td>C#</td>
<td>public static class QueueResponse</td>
</tr>
<tr>
<td>C++</td>
<td>public ref class QueueResponse abstract sealed</td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Inheritance Hierarchy

System.Object
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

QueueResponse Members
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Provides a set of methods for parsing responses from queue operations.

The following tables list the members exposed by the QueueResponse type.
## Public Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GetApproximateMessageCount</td>
<td>Gets the approximate message count for the queue.</td>
</tr>
<tr>
<td>GetError</td>
<td>Returns extended error information from the storage service, that is in addition to the HTTP status code returned with the response.</td>
</tr>
<tr>
<td>GetMessages</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>GetMetadata</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>GetNextVisibleTime</td>
<td>Gets the time when the message will be visible.</td>
</tr>
<tr>
<td>GetPopReceipt</td>
<td>Gets the pop receipt value from a web response.</td>
</tr>
<tr>
<td>GetRequestID</td>
<td>Gets the request ID from the response.</td>
</tr>
<tr>
<td>List</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>PeekMessages</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>ReadServiceProperties</td>
<td>Gets an account’s Queue service properties from an input stream.</td>
</tr>
</tbody>
</table>
See Also

Reference
QueueResponse Class
QueueResponse Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods

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<td>GetNextVisibleTime</td>
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<td>List</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>PeekMessages</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>ReadServiceProperties</td>
<td>Gets an account’s Queue service properties from an input stream.</td>
</tr>
</tbody>
</table>
See Also

Reference
QueueResponse Class
QueueResponse.GetApproximateMessageCount Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the approximate message count for the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim response As HttpWebResponse
Dim returnValue As String

returnValue = QueueResponse.GetApproximateMessageCount
```
## Syntax

### Visual Basic

```vbnet
Public Shared Function GetApproximateMessageCount (response As HttpWebResponse) As String
```

### C#

```csharp
public static string GetApproximateMessageCount (HttpWebResponse response)
```

### C++

```cpp
public: static String^ GetApproximateMessageCount (HttpWebResponse^ response)
```

### J#

```
```

### JScript

```
```

## Parameters

- **response**
  - Type: `System.Net.HttpWebResponse`
  - The web response.

## Return Value

- Type: `System.String`
The approximate count for the queue.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueResponse Class
QueueResponse Members

Other Resources
Queue Service REST API
Get Queue Metadata
Get Messages
QueueResponse.GetError Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Returns extended error information from the storage service, that is in addition to the HTTP status code returned with the response.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

#### Visual Basic

```vbnet
Dim response As HttpWebResponse
Dim returnValue As StorageExtendedErrorInformation

returnValue = QueueResponse.GetError(response)
```
## Syntax

### Visual Basic

```vbnet
Public Shared Function GetError ( _
    response As HttpWebResponse _
) As StorageExtendedErrorInformation
```

### C#

```csharp
public static StorageExtendedErrorInformation GetError (  
    HttpWebResponse response
)
```

### C++

```cpp
public:  
static StorageExtendedErrorInformation^ GetError (  
    HttpWebResponse^ response
)
```

### J#

```jsharp```

### JScript

```js```

## Parameters

- **response**  
  Type: `System.Net.HttpWebResponse`  
  The web response.

## Return Value
Type: Microsoft.WindowsAzure.StorageClient.StorageExtendedErrorInformation

An object containing extended error information returned with the response.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueResponse Class
QueueResponse Members

Other Resources
Queue Service REST API
Queue Service Error Codes
Status and Error Codes
Setting Timeouts for Queue Service Operations
QueueResponse.GetMessages Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
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</thead>
<tbody>
<tr>
<td><code>QueueResponse.GetMessages(Stream)</code></td>
<td>Parses the response from an operation to get messages from the queue.</td>
</tr>
<tr>
<td><code>QueueResponse.GetMessages(HttpWebResponse)</code></td>
<td>Parses the response from an operation to get messages from the queue.</td>
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</table>
See Also

Reference
QueueResponse Class
QueueResponse Members

Other Resources
Queue Service REST API
Operations on Messages
Get Messages
Peek Messages
Parses the response from an operation to get messages from the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```
Dim stream As Stream
Dim returnValue As GetMessagesResponse

returnValue = QueueResponse.GetMessages(stream)
```
Syntax

Visual Basic

Public Shared Function GetMessages ( _
    stream As Stream _
) As GetMessagesResponse

C#

public static GetMessagesResponse GetMessages ( 
    Stream stream
)

C++

public:
static GetMessagesResponse^ GetMessages ( 
    Stream^ stream
)

J#

JScript

Parameters

stream
    Type: System.IO.Stream

    The stream to parse.

Return Value

An object that may be used for parsing data from the results of a message retrieval operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueResponse Class
QueueResponse Members

Other Resources
Queue Service REST API
Operations on Messages
Get Messages
Peek Messages
QueueResponse.GetMessages Method (HttpWebResponse)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Parses the response from an operation to get messages from the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

#### Visual Basic

```vbnet
Dim response As HttpWebResponse
Dim returnValue As GetMessagesResponse

returnValue = QueueResponse.GetMessages(response)
```
### Syntax

#### Visual Basic

| Public Shared Function GetMessages (  
|  response As HttpWebResponse  )  
| As GetMessagesResponse |

#### C#

| public static GetMessagesResponse GetMessages (  
| HttpWebResponse response |

#### C++

| public:  
| static GetMessagesResponse^ GetMessages (  
| HttpWebResponse^ response |

#### J#

| JScript |

#### Parameters

- **response**  
  Type: System.Net.HttpWebResponse  
  The web response.

#### Return Value

An object that may be used for parsing data from the results of a message retrieval operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueResponse Class
QueueResponse Members

Other Resources
Queue Service REST API
Operations on Messages
Get Messages
Peek Messages
QueueResponse.GetMetadata Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td><code>QueueResponse.GetMetadata(HttpWebResponse)</code></td>
<td>Gets a collection of user-defined metadata from the response.</td>
</tr>
<tr>
<td><code>QueueResponse.GetMetadata(HttpWebResponse, String)</code></td>
<td>Gets an array of values for a specified name-value pair from a response that includes user-defined metadata.</td>
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</table>
See Also

Reference
QueueResponse Class
QueueResponse Members

Other Resources
Queue Service REST API
Naming Queues and Metadata
Get Queue Metadata
Set Queue Metadata
QueueResponse.GetMetadata Method (HttpWebResponse)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets a collection of user-defined metadata from the response.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

Dim response AsHttpWebResponse
Dim returnValue AsNameValueCollection

returnValue = QueueResponse.GetMetadata(response)
## Syntax

### Visual Basic

```
Public Shared Function GetMetadata ( _
    response As HttpWebResponse _
  ) As NameValueCollection
```

### C#

```
public static NameValueCollection GetMetadata (HttpWebResponse response)
```

### C++

```
public:
static NameValueCollection^ GetMetadata (HttpWebResponse^ response)
```

### J#

```
```

### JScript

```
```

## Parameters

- **response**
  - Type: `System.Net.HttpWebResponse`
  - The web response.

## Return Value

- Type: `System.Collections.Specialized.NameValueCollection`
A collection of user-defined metadata, as name-value pairs.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueResponse Class
QueueResponse Members

Other Resources
Queue Service REST API
Naming Queues and Metadata
Get Queue Metadata
Set Queue Metadata
QueueResponse.GetMetadata Method (HttpWebResponse, String)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets an array of values for a specified name-value pair from a response that includes user-defined metadata.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim response As HttpWebResponse
Dim name As String
Dim returnValue As String()

returnValue = QueueResponse.GetMetadata(response, name)
### Syntax

#### Visual Basic

```vbnet
Public Shared Function GetMetadata ( _
    response As HttpWebResponse, _
    name As String _
) As String()
```

#### C#

```csharp
public static string[] GetMetadata (  
    HttpWebResponse response,  
    string name
)
```

#### C++

```cpp
public:
static array<String^>^ GetMetadata (  
    HttpWebResponse^ response,  
    String^ name
)
```

#### J#

```jsharp```

#### JScript

```javascript```

### Parameters

- **response**
  - Type: `System.Net.HttpWebResponse`

  The web response.
**name**
Type: **System.String**

The name associated with the metadata values to return.

**Return Value**

An array of metadata values.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueResponse Class
QueueResponse Members

Other Resources
Queue Service REST API
Naming Queues and Metadata
Get Queue Metadata
Set Queue Metadata
QueueResponse.GetNextVisibleTime Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

 Gets the time when the message will be visible.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

#### Visual Basic

```vbnet
Dim response As HttpWebResponse
Dim returnValue As DateTime

returnValue = QueueResponse.GetNextVisibleTime(response)
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| Visual Basic | `Public Shared Function GetNextVisibleTime ( _
|             |    response As HttpWebResponse _
|             | ) As DateTime`                                                          |
| C#          | `public static DateTime GetNextVisibleTime ( HttpWebResponse response)` |
| C++         | `public:
|             | static DateTime GetNextVisibleTime ( HttpWebResponse^ response)`        |
| J#          | JScript                                                               |

### Parameters

- `response`
  - The web response to process.

### Return Value

Returns a `DateTime` object that indicates the time when the message will be visible.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueResponse Class
QueueResponse Members

Other Resources
Queue Service REST API
Get Messages
Put Message
Gets the pop receipt value from a web response.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

Dim response As **HttpResponse**
Dim returnValue As **String**

returnValue = **QueueResponse**.GetPopReceipt(response)
## Syntax

### Visual Basic

```vbnet
Public Shared Function GetPopReceipt ( _
    response As HttpSessionResponse _
) As String
```

### C#

```csharp
public static string GetPopReceipt (HttpWebResponse response)
```

### C++

```cpp
public:
    static String^ GetPopReceipt (HttpWebResponse^ response)
```

### J#

```
```

### JScript

```
```

## Parameters

- **response**
  - The web response to process.

## Return Value

Returns a **String** that indicates the pop receipt value.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueResponse Class
QueueResponse Members

Other Resources
Queue Service REST API
Delete Message
Get Messages
Peek Messages
Update Message
QueueResponse.GetRequestId Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the request ID from the response.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim response As HttpWebResponse
Dim returnValue As String

returnValue = QueueResponse.GetRequestId(response)
```
**Syntax**

**Visual Basic**

```vbnet
Public Shared Function GetRequestId ( _
    response As HttpWebResponse _
) As String
```

**C#**

```csharp
public static string GetRequestId (;
    HttpWebResponse response
)
```

**C++**

```cpp
public:
static String^ GetRequestId (;
    HttpWebResponse^ response
)
```

**J#**

**JScript**

**Parameters**

- `response`
  - Type: `System.Net.HttpWebResponse`
  - The web response.

**Return Value**

- Type: `System.String`
A unique value associated with the request.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueResponse Class
QueueResponse Members

Other Resources
Queue Service REST API
QueueResponse.List Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

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<thead>
<tr>
<th>Name</th>
<th>Description</th>
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<tbody>
<tr>
<td><code>QueueResponse.List (Stream)</code></td>
<td>Parses the response for a queue listing operation.</td>
</tr>
<tr>
<td><code>QueueResponse.List (HttpWebResponse)</code></td>
<td>Parses the response for a queue listing operation.</td>
</tr>
</tbody>
</table>
See Also

Reference
QueueResponse Class
QueueResponse Members

Other Resources
Queue Service REST API
List Queues
QueueResponse.List Method (Stream)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Parses the response for a queue listing operation.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```
Dim stream As Stream
Dim returnValue As ListQueuesResponse

returnValue = QueueResponse.List(stream)
```
### Syntax

#### Visual Basic

```vbnet
Public Shared Function List ( _
    stream As Stream _
) As ListQueuesResponse
```

#### C#

```csharp
public static ListQueuesResponse List (  
    Stream stream
)
```

#### C++

```cpp
public:
static ListQueuesResponse^ List (  
    Stream^ stream
)
```

#### J#

```jsharp
```

#### JScript

```jscript
```

### Parameters

- **stream**
  - Type: `System.IO.Stream`
  - The response stream.

### Return Value

An object that may be used for parsing data from the results of a queue listing operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueResponse Class
QueueResponse Members

Other Resources
Queue Service REST API
List Queues
QueueResponse.List Method (HttpWebResponse)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Parses the response for a queue listing operation.

Usage

Visual Basic

Dim response As HttpWebResponse
Dim returnValue As ListQueuesResponse

returnValue = QueueResponse.List(response)
## Syntax

### Visual Basic

```vbnet
Public Shared Function List ( _
    response As HttpWebResponse _
) As ListQueuesResponse
```

### C#

```csharp
public static ListQueuesResponse List (HttpWebResponse response)
```

### C++

```cpp
public:
static ListQueuesResponse^ List (HttpWebResponse^ response)
```

### J#

### JScript

### Parameters

- **response**
  - Type: `System.Net.HttpWebResponse`
  - The web response.

### Return Value

An object that may be used for parsing data from the results of a queue listing operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
- QueueResponse Class
- QueueResponse Members

Other Resources
- Queue Service REST API
- List Queues
QueueResponse.PeekMessages Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
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<tr>
<th>Name</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td><code>QueueResponse.PeekMessages(Stream)</code></td>
<td>Parses the response from an operation to peek messages from the queue.</td>
</tr>
<tr>
<td><code>QueueResponse.PeekMessages(HttpWebResponse)</code></td>
<td>Parses the response from an operation to peek messages from the queue.</td>
</tr>
</tbody>
</table>
See Also

Reference
QueueResponse Class
QueueResponse Members

Other Resources
Queue Service REST API
Operations on Messages
Get Messages
Peek Messages
QueueResponse.PeekMessages Method (Stream)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Parses the response from an operation to peek messages from the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

#### Visual Basic

```vbnet
Dim stream As Stream
Dim returnValue As PeekMessagesResponse

returnValue = QueueResponse.PeekMessages(stream)
```
## Syntax

### Visual Basic

Public Shared Function PeekMessages ( _
    stream As Stream _
) As PeekMessagesResponse

### C#

public static PeekMessagesResponse PeekMessages ( 
    Stream stream
)

### C++

public:
static PeekMessagesResponse^ PeekMessages ( 
    Stream^ stream
)

### J#

JScript

### Parameters

*stream*
Type: [System.IO.Stream](https://docs.microsoft.com/en-us/dotnet/api/system.io.stream)

The stream to parse.

### Return Value

An object that may be used for parsing data from the results of a message peeking operation.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueResponse Class
QueueResponse Members

Other Resources
Queue Service REST API
Operations on Messages
Get Messages
Peek Messages
QueueResponse.PeekMessages Method (HttpWebResponse)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Parses the response from an operation to peek messages from the queue.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbc
Dim response As HttpWebResponse
Dim returnValue As PeekMessagesResponse

returnValue = QueueResponse.PeekMessages(response)
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| **Visual Basic** | Public Shared Function PeekMessages ( _
response As [HttpWebResponse] _)
As [ PeekMessagesResponse] |
| **C#** | public static [PeekMessagesResponse] PeekMessages ( [HttpWebResponse] response |
| **C++** | public:
| **J#** | |
| **JScript** | |

### Parameters

*response*

Type: [System.Net.HttpWebResponse]

The web response.

### Return Value

An object that may be used for parsing data from the results of a message peeking operation.
For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueResponse Class
QueueResponse Members

Other Resources
Queue Service REST API
Operations on Messages
Get Messages
Peek Messages
QueueResponse.ReadServiceProperties Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets an account’s Queue service properties from an input stream.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim inputStream As Stream
Dim returnValue As ServiceProperties

returnValue = QueueResponse.ReadServiceProperties(inputStream)
```
## Syntax

### Visual Basic

```vbnet
Public Shared Function ReadServiceProperties ( _
    inputStream As Stream _
) As ServiceProperties
```

### C#

```csharp
public static ServiceProperties ReadServiceProperties(
    Stream inputStream
)
```

### C++

```cpp
public:
static ServiceProperties^ ReadServiceProperties ( 
    Stream^ inputStream
)
```

### J#

```csharp
JScript
```

### Parameters

- **(inputStream)**
  
  The input stream to retrieve the service properties from.

### Return Value

Returns an **ServiceProperties** object that contains the account’s Table service properties.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
>> **Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
QueueResponse Class
QueueResponse Members

Other Resources
Queue Service REST API
Get Queue Service Properties
Set Queue Service Properties
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

The exception that is thrown if the client attempts to parse the response a second time.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vb
Dim instance As ResourceConsumedException
```
## Syntax

### Visual Basic

```vbnet
<SerializableAttribute> _
Public Class ResourceConsumedException
    Inherits Exception
```

### C#

```csharp
[SerializableAttribute]
public class ResourceConsumedException : Exception
```

### C++

```cpp
[SerializableAttribute]
public ref class ResourceConsumedException : public I
```

### J#

```
```

### JScript

```
```
Inheritance Hierarchy

System.Object
  System.Exception
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
 Platforms

Development Platforms
See Also

Reference

ResourceConsumedException Members
The exception that is thrown if the client attempts to parse the response a second time.

The following tables list the members exposed by the `ResourceConsumedException` type.
- **Public Constructors (see also Protected Constructors)**

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<tr>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ResourceConsumedException</td>
<td>Overloaded.</td>
</tr>
</tbody>
</table>
## Protected Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>ResourceConsumedException</code></td>
<td>Overloaded.</td>
</tr>
</tbody>
</table>
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<th>Description</th>
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<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>HelpLink</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>InnerException</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>Message</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>Source</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>StackTrace</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>TargetSite</td>
<td>(Inherited from Exception)</td>
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## Protected Properties

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<th>Description</th>
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</thead>
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<tr>
<td>HRESULT</td>
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[Top]
## Public Methods (see also Protected Methods)

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</tr>
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<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetObjectData</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>ToString</td>
<td>Overridden. (Inherited from Object)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
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<td>(Inherited from <strong>Object</strong>)</td>
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<td>MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>)</td>
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## Protected Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>SerializeObjectState</td>
<td>(Inherited from Exception)</td>
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</tbody>
</table>
See Also

Reference
ResourceConsumedException Class
| ResourceConsumedException Constructor |
| See Also |

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
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<tbody>
<tr>
<td><code>ResourceConsumedException()</code></td>
<td>Initializes a new instance of the <code>ResourceConsumedException</code> class.</td>
</tr>
<tr>
<td><code>ResourceConsumedException(SerializationInfo, StreamingContext)</code></td>
<td>Initializes a new instance of the <code>ResourceConsumedException</code> class.</td>
</tr>
<tr>
<td><code>ResourceConsumedException(String)</code></td>
<td>Initializes a new instance of the <code>ResourceConsumedException</code> class.</td>
</tr>
<tr>
<td><code>ResourceConsumedException(String, Exception)</code></td>
<td>Initializes a new instance of the <code>ResourceConsumedException</code> class.</td>
</tr>
</tbody>
</table>
See Also

Reference
ResourceConsumedException Class
ResourceConsumedException Members
ResourceConsumedException Constructor ()

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the ResourceConsumedException class.

<table>
<thead>
<tr>
<th>Usage</th>
</tr>
</thead>
</table>
| Visual Basic

Dim instance As New ResourceException
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Sub New</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public ResourceConsumedException ()</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td>public: ResourceConsumedException ()</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>
Remarks

The default constructor initializes any fields to their default values.
Platforms

Development Platforms
See Also

Reference
ResourceConsumedException Class
ResourceConsumedException Members
ResourceConsumedException Constructor (SerializationInfo, StreamingContext)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the ResourceConsumedException class.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim info As SerializationInfo
Dim context As StreamingContext

Dim instance As New ResourceConsumedException(info, context)
```
### Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Protected Sub New</strong> ( _</td>
</tr>
<tr>
<td>_ info As <strong>SerializationInfo</strong>, _</td>
</tr>
<tr>
<td>_ context As <strong>StreamingContext</strong> _</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>protected</strong></td>
</tr>
<tr>
<td>ResourceConsumerException (</td>
</tr>
<tr>
<td><strong>SerializationInfo</strong> info,</td>
</tr>
<tr>
<td><strong>StreamingContext</strong> context</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>protected:</strong></td>
</tr>
<tr>
<td>ResourceConsumerException (</td>
</tr>
<tr>
<td><strong>SerializationInfo</strong>^ info,</td>
</tr>
<tr>
<td><strong>StreamingContext</strong> context</td>
</tr>
<tr>
<td>)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>JScript</strong></td>
</tr>
</tbody>
</table>

### Parameters

**info**  
Type: **System.Runtime.Serialization.SerializationInfo**

The **SerializationInfo** that holds the serialized object data about the exception being thrown.
context
Type: System.Runtime.Serialization.StreamingContext

The StreamingContext that contains contextual information about the source or destination.
Platforms

Development Platforms
See Also

Reference
ResourceConsumedException Class
ResourceConsumedException Members
ResourceConsumedException Constructor (String)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the ResourceConsumedException class.

<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim message As <strong>String</strong></td>
</tr>
<tr>
<td>Dim instance As New <strong>ResourceConsumedException</strong>(message)</td>
</tr>
</tbody>
</table>
### Syntax

#### Visual Basic

Public Sub New (_
    message As String _
)

#### C#

public ResourceConsumedException (_
    string message _
)

#### C++

public:
ResourceConsumedException (_
    String^ message _
)

#### J#

#### JScript

### Parameters

- **message**
  - Type: **System.String**
  - The message that describes the exception.
Platforms

Development Platforms
See Also

Reference
ResourceConsumedException Class
ResourceConsumedException Members
ResourceConsumedException Constructor (String, Exception)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the ResourceConsumedException class.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim message As String
Dim innerException As Exception

Dim instance As New ResourceConsumedException(message)
```
### Syntax

#### Visual Basic

```vbnet
Public Sub New ( _
    message As String, _
    innerException As Exception _
)
```

#### C#

```csharp
public ResourceConsumedException (   string message,
    Exception innerException
)
```

#### C++

```cpp
public:
ResourceConsumedException (   String^ message,
    Exception^ innerException
)
```

#### J#

#### JScript

---

**Parameters**

*message*

Type: `System.String`

The message for the exception.
innerException
Type: System.Exception

The exception that is the cause of the current exception.
Platforms

Development Platforms
See Also

Reference
ResourceConsumedException Class
ResourceConsumedException Members
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Public Methods (see also Protected Methods)

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<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Equals</code></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><code>GetBaseException</code></td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td><code>GetHashCode</code></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><code>GetObjectData</code></td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td><code>GetType</code></td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td><code>ToString</code></td>
<td>Overridden. (Inherited from Object)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
See Also

Reference

ResourceConsumedException Class
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties (see also Protected Properties)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>HelpLink</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>InnerException</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>Message</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>Source</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>StackTrace</td>
<td>(Inherited from Exception)</td>
</tr>
<tr>
<td>TargetSite</td>
<td>(Inherited from Exception)</td>
</tr>
</tbody>
</table>
## Protected Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRESULT</td>
<td>(Inherited from Exception)</td>
</tr>
</tbody>
</table>
See Also

Reference

ResourceConsumedException Class
<table>
<thead>
<tr>
<th>ResourceConsumedException Events</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>See Also</strong></td>
</tr>
</tbody>
</table>

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Protected Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SerializeObjectState</td>
<td>(Inherited from Exception)</td>
</tr>
</tbody>
</table>
See Also

Reference

ResourceConsumedException Class
ResponseParsingBase Generic Class

See Also  Members

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Provides a base class that is used internally to parse XML streams from storage service operations.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```
Dim instance As ResponseParsingBase(Of T)
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
</tr>
<tr>
<td>C#</td>
</tr>
<tr>
<td>C++</td>
</tr>
<tr>
<td>J#</td>
</tr>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>

#### GenericParameters

- **T**
  
  The type to be parsed.
Inheritance Hierarchy

System.Object
Derived Classes
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ResponseParsingBase Members
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Provides a base class that is used internally to parse XML streams from storage service operations.

The following tables list the members exposed by the ResponseParsingBase type.
## Protected Fields

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>allObjectsParsed</td>
<td>Indicates that all parsable objects have been consumed. This field is reserved and should not be used.</td>
</tr>
<tr>
<td>outstandingObjectsToParse</td>
<td>Stores any objects that have not yet been parsed. This field is reserved and should not be used.</td>
</tr>
<tr>
<td>reader</td>
<td></td>
</tr>
</tbody>
</table>
## Protected Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ObjectsToParse</td>
<td>Gets the parsable objects. This method is reserved and should not be used.</td>
</tr>
</tbody>
</table>

Top
### Public Methods (see also Protected Methods)

<table>
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<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispose</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
</table>

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## Protected Methods

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<thead>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispose</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>Finalize</td>
<td>(Inherited from <strong>Object</strong>).</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>).</td>
</tr>
<tr>
<td>ParseXml</td>
<td>Parses the XML response. This method is reserved and should not be used.</td>
</tr>
<tr>
<td>Variable</td>
<td>This method is reserved and should not be used.</td>
</tr>
</tbody>
</table>
See Also

Reference
ResponseParsingBase Class
ResponseParsingBase Fields

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Protected Fields

<table>
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<tbody>
<tr>
<td><code>allObjectsParsed</code></td>
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<tr>
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<td>Stores any objects that have not yet been parsed. This field is reserved and should not be used.</td>
</tr>
<tr>
<td><code>reader</code></td>
<td></td>
</tr>
</tbody>
</table>
See Also

Reference
ResponseParsingBase Class
ResponseParsingBase.allObjectsParsed Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Indicates that all parsable objects have been consumed. This field is reserved and should not be used.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim value As Boolean

value = Me.allObjectsParsed

Me.allObjectsParsed = value
```
## Syntax

### Visual Basic

```vbnet
Protected allObjectsParsed As Boolean
```

### C#

```csharp
protected bool allObjectsParsed
```

### C++

```cpp
protected:
bool allObjectsParsed
```

### J#

```jsharp```

### JScript

```js```
Platforms

Development Platforms
See Also

Reference
ResponseParsingBase Class
ResponseParsingBase Members
ResponseParsingBase.outstandingObjectsToParse Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Stores any objects that have not yet been parsed. This field is reserved and should not be used.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim value As IList(Of T)

value = Me.outstandingObjectsToParse

Me.outstandingObjectsToParse = value
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Protected outstandingObjectsToParse As IList(Of T)</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>protected IList&lt;T&gt; outstandingObjectsToParse</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>protected: IList&lt;T&gt;* outstandingObjectsToParse</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Platforms

Development Platforms
See Also

Reference
ResponseParsingBase Class
ResponseParsingBase Members
ResponseParsingBase.reader Field

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim value As XmlReader

value = Me.reader

Me.reader = value
```
## Syntax

### Visual Basic

```
Protected reader As XmlReader
```

### C#

```
protected XmlReader reader
```

### C++

```
protected: XmlReader^ reader
```

### J#

```

```

### JScript

```

```
Platforms

Development Platforms
See Also

Reference
ResponseParsingBase Class
ResponseParsingBase Members
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods (see also Protected Methods)

<table>
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<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispose</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>Equals</td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
</tbody>
</table>
## Protected Methods

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<th>Name</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Dispose</td>
<td>Overloaded.</td>
</tr>
<tr>
<td>Finalize</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>ParseXml</td>
<td>Parses the XML response. This method is reserved and should not be used.</td>
</tr>
<tr>
<td>Variable</td>
<td>This method is reserved and should not be used.</td>
</tr>
</tbody>
</table>
See Also

Reference
ResponseParsingBase Class
ResponseParsingBase.Dispose Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>ResponseParsingBase.Dispose()</code></td>
<td>Performs application-defined tasks associated with freeing, releasing, or resetting unmanaged resources.</td>
</tr>
<tr>
<td><code>ResponseParsingBase.Dispose(Boolean)</code></td>
<td>Performs application-defined tasks associated with freeing, releasing, or resetting unmanaged resources, and optional managed resources.</td>
</tr>
</tbody>
</table>
See Also

Reference
ResponseParsingBase Class
ResponseParsingBase Members

Other Resources
Windows Azure Storage Services REST API Reference
ResponseParsingBase.Dispose Method ()

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Performs application-defined tasks associated with freeing, releasing, or resetting unmanaged resources.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbscript
Dim instance As ResponseParsingBase(Of T)
instance.Dispose
```
### Syntax

<table>
<thead>
<tr>
<th><strong>Visual Basic</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Sub Dispose</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>C#</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>public void Dispose ()</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>C++</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>public: virtual void Dispose () sealed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>J#</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>JScript</td>
</tr>
</tbody>
</table>
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ResponseParsingBase Class
ResponseParsingBase Members

Other Resources
Windows Azure Storage Services REST API Reference
ResponseParsingBase.Dispose Method (Boolean)

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Performs application-defined tasks associated with freeing, releasing, or resetting unmanaged resources, and optional managed resources.

### Usage

#### Visual Basic

```visualbasic
Dim disposing As Boolean
Me.Dispose(disposing)
```
## Syntax

### Visual Basic

```vbnet
Protected Overridable Sub Dispose ( _
    disposing As Boolean _
)
```

### C#

```csharp
protected virtual void Dispose ( _
    bool disposing _
)
```

### C++

```cpp
protected: 
    virtual void Dispose ( _
    bool disposing _
)
```

### J#

```jsharp```

### JScript

```
```

## Parameters

**disposing**

Type: `System.Boolean`

- `True` to release both managed and unmanaged resources; otherwise, `false`. 
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ResponseParsingBase Class
ResponseParsingBase Members

Other Resources
Windows Azure Storage Services REST API Reference
ResponseParsingBase.ParseXml Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Parses the XML response. This method is reserved and should not be used.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim returnValue As `IEnumerable(Of T)`
returnValue = Me.ParseXml
```
## Syntax

### Visual Basic

```
Protected MustOverride Function ParseXml As IEnumerable
```

### C#

```
protected abstract IEnumerable<T> ParseXml ()
```

### C++

```
protected:
virtual IEnumerable<T>^ ParseXml () abstract
```

### J#

```

```

### JScript

```

```

## Return Value

Type: System.Collections.Generic.IEnumerable

A collection of enumerable objects.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.
  Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
See Also

Reference
ResponseParsingBase Class
ResponseParsingBase Members
ResponseParsingBase.Variable Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

This method is reserved and should not be used.


### Usage

**Visual Basic**

Dim consumable As **Boolean**

Me.Variable(consumable)
### Syntax

**Visual Basic**

```
Protected Sub Variable (_
    ByRef consumable As Boolean _
)
```

**C#**

```
protected void Variable (    
    ref bool consumable
)
```

**C++**

```
protected:
void Variable (    
    bool% consumable
)
```

**J#**

```
```

**JScript**

```
```

### Parameters

*consumable*

*True* when the object is consumable.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ResponseParsingBase Class
ResponseParsingBase Members
ResponseParsingBase Properties

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Protected Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ObjectsToParse</strong></td>
<td>Gets the parsable objects. This method is reserved and should not be used.</td>
</tr>
</tbody>
</table>
See Also

Reference
ResponseParsingBase Class
ResponseParsingBase.ObjectsToParse Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the parsable objects. This method is reserved and should not be used.

## Usage

**Visual Basic**

```vbnet
Dim value As IEnumerable(Of T)
value = Me.ObjectsToParse
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Protected Readonly Property ObjectsToParse As IEnumerable</td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td><code>protected IEnumerable&lt;T&gt; ObjectsToParse { get; }</code></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><code>protected: property IEnumerable&lt;T&gt;^ ObjectsToParse { IEnumerable&lt;T&gt;^ get (); }</code></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Property Value

Type: `System.Collections.Generic.IEnumerable`  
The objects to parse.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

ResponseParsingBase Class
ResponseParsingBase Members
ServiceProperties Class

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Specifies the logging, metrics, and default service version for a storage service.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

Dim instance As ServiceProperties
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public Class ServiceProperties</td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public class ServiceProperties</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public ref class ServiceProperties</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Inheritance Hierarchy

System.Object
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ServiceProperties Members
SetServiceProperties

Other Resources
Setting and Retrieving Properties and Metadata for Blob Resources (REST API)
Get Blob Service Properties
Set Blob Service Properties
Specifies the logging, metrics, and default service version for a storage service.

The following tables list the members exposed by the `ServiceProperties` type.

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See [Storage Client Library](#) for the latest version.]
## Public Constructors

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>ServiceProperties</td>
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## Public Properties

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<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DefaultServiceVersion</td>
<td>Specifies the default storage service version for all requests made to a storage service.</td>
</tr>
<tr>
<td>Logging</td>
<td>Gets the logging properties for a storage service.</td>
</tr>
<tr>
<td>Metrics</td>
<td>Gets the metrics properties for a storage service.</td>
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<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
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<tr>
<th>Name</th>
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</tr>
</thead>
<tbody>
<tr>
<td><code>Finalize</code></td>
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</tr>
<tr>
<td><code>MemberwiseClone</code></td>
<td>(Inherited from <code>Object</code>)</td>
</tr>
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</table>
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ServiceProperties Class
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Other Resources
Setting and Retrieving Properties and Metadata for Blob Resources (REST API)
Get Blob Service Properties
Set Blob Service Properties
ServiceProperties Constructor

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the ServiceProperties Class.

Usage

Visual Basic

Dim instance As New ServiceProperties
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td><code>Public Sub New</code></td>
</tr>
<tr>
<td>C#</td>
<td><code>public ServiceProperties()</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: ServiceProperties()</code></td>
</tr>
<tr>
<td>J#</td>
<td></td>
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<tr>
<td>JScript</td>
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</table>
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
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ServiceProperties Class
ServiceProperties Members

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<tr>
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See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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See Also

Reference
ServiceProperties Class
SetServiceProperties

Other Resources
Setting and Retrieving Properties and Metadata for Blob Resources (REST API)
Get Blob Service Properties
Set Blob Service Properties
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Properties

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</tr>
</thead>
<tbody>
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</tr>
<tr>
<td>Logging</td>
<td>Gets the logging properties for a storage service.</td>
</tr>
<tr>
<td>Metrics</td>
<td>Gets the metrics properties for a storage service.</td>
</tr>
</tbody>
</table>
See Also

Reference
ServiceProperties Class
SetServiceProperties

Other Resources
Setting and Retrieving Properties and Metadata for Blob Resources (REST API)
Get Blob Service Properties
Set Blob Service Properties
ServiceProperties.DefaultServiceVersion Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Specifies the default storage service version for all requests made to a storage service.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As ServiceProperties
Dim value As String

value = instance.DefaultServiceVersion

instance.DefaultServiceVersion = value
```
## Syntax

### Visual Basic

Public Property DefaultServiceVersion As String

### C#

public string DefaultServiceVersion { get; set; }

### C++

public:
property String^ DefaultServiceVersion {
    String^ get ();
    void set (String^ value);
}

### J#


### JScript


## Property Value

Returns String.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
See Also

Reference
ServiceProperties Class
ServiceProperties Members

Other Resources
Setting and Retrieving Properties and Metadata for Blob Resources (REST API)
Get Blob Service Properties
Set Blob Service Properties
ServiceProperties.Logging Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the logging properties for a storage service.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As ServiceProperties
Dim value As LoggingProperties

value = instance.Logging

instance.Logging = value
```
## Syntax

### Visual Basic

Public Property Logging As **LoggingProperties**

### C#

```csharp
public **LoggingProperties** Logging { get; set; }
```

### C++

```cpp
public:
property **LoggingProperties** Logging {
    **LoggingProperties** get ();
    void set (**LoggingProperties** value);
}
```

### J#

### JScript

### Property Value

Returns **LoggingProperties**.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
- **Thread Safety**

  Any public static *(Shared in Visual Basic)* members of this type are thread safe.

  Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ServiceProperties Class
ServiceProperties Members

Other Resources
Setting and Retrieving Properties and Metadata for Blob Resources (REST API)
Get Blob Service Properties
Set Blob Service Properties
ServiceProperties.Metrics Property

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the metrics properties for a storage service.

## Usage

### Visual Basic

```vbnet
Dim instance As ServiceProperties
Dim value As MetricsProperties

value = instance.Metrics

instance.Metrics = value
```
## Syntax

### Visual Basic

Public Property Metrics As MetricsProperties

### C#

```csharp
public MetricsProperties Metrics { get; set; }
```

### C++

```cpp
class MetricsProperties
{  
  MetricsProperties^ Metrics {  
    MetricsProperties^ get ();  
    void set (MetricsProperties^ value);  
  }
}
```

### J#

```

### JScript

```

## Property Value

Returns MetricsProperties.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
ServiceProperties Class
ServiceProperties Members

Other Resources
Setting and Retrieving Properties and Metadata for Blob Resources (REST API)
Get Blob Service Properties
Set Blob Service Properties
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Provides an implementation of the CanonicalizationStrategy class for requests against the Blob or Queue services under the Shared Key authentication scheme.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim instance As SharedKeyCanonicalizer
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public NotInheritable Class SharedKeyCanonicalizer</td>
</tr>
<tr>
<td>Inherits <strong>CanonicalizationStrategy</strong></td>
</tr>
</tbody>
</table>

### C#

```csharp
public sealed class SharedKeyCanonicalizer : CanonicalizationStrategy
```

### C++

```cpp
public ref class SharedKeyCanonicalizer sealed : public...
```

### J#

```jsharp```

### JScript

```javascript```


Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Inheritance Hierarchy

System.Object
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
SharedKeyCanonicalizer Members

Other Resources
Authentication Schemes
Provides an implementation of the `CanonicalizationStrategy` class for requests against the Blob or Queue services under the Shared Key authentication scheme.

The following tables list the members exposed by the `SharedKeyCanonicalizer` type.

---

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<th>SharedKeyCanonicalizer Members</th>
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<td><strong>Methods</strong></td>
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</table>
## Public Constructors

<table>
<thead>
<tr>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SharedKeyCanonicalizer</td>
<td></td>
</tr>
</tbody>
</table>
Public Methods (see also Protected Methods)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CanonicalizeHttpRequest</td>
<td>Overridden. Canonicalizes the HTTP request.</td>
</tr>
<tr>
<td>Equals</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetHashCode</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetType</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>ToString</td>
<td>(Inherited from Object)</td>
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## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from Object)</td>
</tr>
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</table>

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See Also

Reference

SharedKeyCanonicalizer Class

Other Resources

Authentication Schemes
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the SharedKeyCanonicalizer Class.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
<table>
<thead>
<tr>
<th><strong>Usage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Dim instance As New SharedKeyCanonicalizer</td>
</tr>
<tr>
<td>Syntax</td>
</tr>
<tr>
<td>----------</td>
</tr>
<tr>
<td><strong>Visual Basic</strong></td>
</tr>
<tr>
<td>Public Sub New</td>
</tr>
<tr>
<td><strong>C#</strong></td>
</tr>
<tr>
<td>public SharedKeyCanonicalizer ()</td>
</tr>
<tr>
<td><strong>C++</strong></td>
</tr>
<tr>
<td>public: SharedKeyCanonicalizer ()</td>
</tr>
<tr>
<td><strong>J#</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
</tr>
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</table>
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
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[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✤ CanonicalizeHttpRequest</td>
<td>Overridden. Canonicalizes the HTTP request.</td>
</tr>
<tr>
<td>✤ Equals</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>✤ GetHashCode</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>✤ GetType</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>✤ ToString</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
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</tr>
</thead>
<tbody>
<tr>
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<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
See Also

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SharedKeyCanonicalizer Class

Other Resources

Authentication Schemes
SharedKeyCanonicalizer.CanonicalizeHttpRequest Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Canonicalizes the HTTP request.

**Usage**

**Visual Basic**

Dim instance As SharedKeyCanonicalizer
Dim request As HttpWebRequest
Dim accountName As String
Dim returnValue As String

returnValue = instance.CanonicalizeHttpRequest(request)
## Syntax

### Visual Basic

```vbnet
Public Overrides Function CanonicalizeHttpRequest (request As HttpWebRequest, accountName As String) As String
```

### C#

```csharp
public override string CanonicalizeHttpRequest (HttpWebRequest request, string accountName)
```

### C++

```cpp
public:
virtual String^ CanonicalizeHttpRequest (HttpWebRequest^ request, String^ accountName)

override
```

### J#

```csharp```

### JScript

```jscript```

## Parameters

- **request**
  - Type: `System.Net.HttpWebRequest`
  - A web request.
accountName
   Type: System.String

   The name of the storage account.

Return Value

Type: System.String

The canonicalized string for the request.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
SharedKeyCanonicalizer Class
SharedKeyCanonicalizer Members

Other Resources
Authentication Schemes
Provides an implementation of the CanonicalizationStrategy class for the Blob and Queue services for use with the Shared Key Lite authentication scheme.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vba
Dim instance As SharedKeyLiteCanonicalizer
```
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
</table>
| Visual Basic | `Public NotInheritable Class SharedKeyLiteCanonicalizer
Inherits CanonicalizationStrategy` |
| C#          | `public sealed class SharedKeyLiteCanonicalizer : CanonicalizationStrategy` |
| C++         | `public ref class SharedKeyLiteCanonicalizer sealed : CanonicalizationStrategy` |
| J#          |                                                                   |
| JScript     |                                                                   |
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Inheritance Hierarchy

System.Object
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
SharedKeyLiteCanonicalizer Members

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Authentication Schemes
SharedKeyLiteCanonicalizer Members

See Also  Constructors  Methods

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Provides an implementation of the CanonicalizationStrategy class for the Blob and Queue services for use with the Shared Key Lite authentication scheme.

The following tables list the members exposed by the SharedKeyLiteCanonicalizer type.
## Public Constructors

<table>
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<th>Name</th>
<th>Description</th>
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<tr>
<td>SharedKeyLiteCanonicalizer</td>
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## Public Methods (see alsoProtected Methods)

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## Protected Methods

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SharedKeyLiteCanonicalizer Class

Other Resources
Authentication Schemes
SharedKeyLiteCanonicalizer Constructor

See Also

This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.

Initializes a new instance of the SharedKeyLiteCanonicalizer Class.

Usage

Visual Basic

Dim instance As New SharedKeyLiteCanonicalizer
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
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</thead>
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Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Platforms

Development Platforms
See Also

Reference
SharedKeyLiteCanonicalizer Class
SharedKeyLiteCanonicalizer Members

Other Resources
Authentication Schemes
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods (see also **Protected Methods**)

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CanonicalizeHttpRequest</code></td>
<td>Overridden. Canonicalizes the HTTP request.</td>
</tr>
<tr>
<td><code>Equals</code></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td><code>GetHashCode</code></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td><code>GetType</code></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td><code>ToString</code></td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
## Protected Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>Finalize</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
<tr>
<td>MemberwiseClone</td>
<td>(Inherited from <strong>Object</strong>)</td>
</tr>
</tbody>
</table>
See Also

Reference
SharedKeyLiteCanonicalizer Class

Other Resources
Authentication Schemes
Canonicalizes the HTTP request.

**Usage**

**Visual Basic**

Dim instance As SharedKeyLiteCanonicalizer
Dim request As HttpWebRequest
Dim accountName As String
Dim returnValue As String

returnValue = instance.CanonicalizeHttpRequest(request)
**Syntax**

<table>
<thead>
<tr>
<th>Visual Basic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Overrides Function CanonicalizeHttpRequest ( _ request As HttpWebRequest, _ accountName As String _ ) As String</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td>public override string CanonicalizeHttpRequest ( HttpWebRequest request, string accountName )</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
</table>
| public:  
| virtual String^ CanonicalizeHttpRequest ( HttpWebRequest^ request, String^ accountName ) override |

<table>
<thead>
<tr>
<th>J#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>JScript</th>
</tr>
</thead>
</table>

**Parameters**

- **request**
  - Type: **System.Net.HttpWebRequest**

  A web request.
accountName
Type: System.String
The name of the storage account.

Return Value
Type: System.String
The canonicalized string for the request.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

SharedKeyLiteCanonicalizer Class
SharedKeyLiteCanonicalizer Members

Other Resources

Authentication Schemes
Provides an implementation of the **CanonicalizationStrategy** class for the Table service for use with the Shared Key Lite authentication scheme.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As SharedKeyLiteTableCanonicalizer
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td>Public NotInheritable Class SharedKeyLiteTableCanonicalizer Inherits CanonicalizationStrategy</td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td>public sealed class SharedKeyLiteTableCanonicalizer</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public ref class SharedKeyLiteTableCanonicalizer sealed</td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Inheritance Hierarchy

System.Object
   Microsoft.WindowsAzure.StorageClient.Protocol.SharedKeyLiteTableCanonicalizer
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
SharedKeyLiteTableCanonicalizer Members

Other Resources
Authentication Schemes
Provides an implementation of the CanonicalizationStrategy class for the Table service for use with the Shared Key Lite authentication scheme.

The following tables list the members exposed by the SharedKeyLiteTableCanonicalizer type.
## Public Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SharedKeyLiteTableCanonicalizer</td>
<td></td>
</tr>
</tbody>
</table>

[Top](#)
### Public Methods (see also **Protected Methods**)

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<tr>
<td><code>MemberwiseClone</code></td>
<td>(Inherited from Object)</td>
</tr>
</tbody>
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See Also

Reference
SharedKeyLiteTableCanonicalizer Class

Other Resources
Authentication Schemes
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the SharedKeyLiteTableCanonicalizer Class.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
# Usage

**Visual Basic**

Dim instance As New SharedKeyLiteTableCanonicalizer
## Syntax

### Visual Basic

```
Public Sub New
```

### C#

```
public SharedKeyLiteTableCanonicalizer()
```

### C++

```
public:
SharedKeyLiteTableCanonicalizer()
```

### J#

```
```

### JScript

```
```
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Platforms

Development Platforms
See Also

Reference
- SharedKeyLiteTableCanonicalizer Class
- SharedKeyLiteTableCanonicalizer Members

Other Resources
- Authentication Schemes
SharedKeyLiteTableCanonicalizer Methods

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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</tbody>
</table>
See Also

Reference
  SharedKeyLiteTableCanonicalizer Class

Other Resources
  Authentication Schemes
Canonicalizes the HTTP request.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim instance As SharedKeyLiteTableCanonicalizer
Dim request As HttpWebRequest
Dim accountName As String
Dim returnValue As String

returnValue = instance.CanonicalizeHttpRequest(request)
```
# Syntax

## Visual Basic

```vbnet
Public Overrides Function CanonicalizeHttpRequest ( 
    request As HttpWebRequest, _
    accountName As String _
  ) As String
```

## C#

```csharp
public override string CanonicalizeHttpRequest ( 
    HttpWebRequest request,
    string accountName
)
```

## C++

```cpp
public:
virtual String^ CanonicalizeHttpRequest ( 
    HttpWebRequest^ request,
    String^ accountName
) override
```

## J#

```csharp```

## JScript

```csharp```

### Parameters

- **request**
  - Type: `System.Net.HttpWebRequest`
    
  A web request.
accountName

Type: System.String

The name of the storage account.

Return Value

Type: System.String

The canonicalized string for the request.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

SharedKeyLiteTableCanonicalizer Class
SharedKeyLiteTableCanonicalizer Members

Other Resources

Authentication Schemes
Provides an implementation of the CanonicalizationStrategy class for the Table service for use with the Shared Key authentication scheme.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim instance As SharedKeyTableCanonicalizer
```
## Syntax

<table>
<thead>
<tr>
<th>Visual Basic</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Public NotInheritable Class SharedKeyTableCanonicalizer</code></td>
<td>| Inherits <code>CanonicalizationStrategy</code></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><code>public sealed class SharedKeyTableCanonicalizer : CanonicalizationStrategy</code></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C++</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><code>public ref class SharedKeyTableCanonicalizer sealed</code></td>
<td></td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>J#</th>
<th></th>
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</table>

<table>
<thead>
<tr>
<th>JScript</th>
<th></th>
</tr>
</thead>
</table>
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Inheritance Hierarchy

System.Object
Microsoft.WindowsAzure.StorageClient.Protocol.SharedKeyTableCanonicalizer
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
SharedKeyTableCanonicalizer Members

Other Resources
Authentication Schemes
Provides an implementation of the CanonicalizationStrategy class for the Table service for use with the Shared Key authentication scheme.

The following tables list the members exposed by the SharedKeyTableCanonicalizer type.
## Public Constructors

<table>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>SharedKeyTableCanonicalizer</code></td>
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[Top](#)
## Public Methods (see also Protected Methods)

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<tr>
<td>GetHashCode</td>
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[Top]
See Also

Reference
SharedKeyTableCanonicalizer Class

Other Resources
Authentication Schemes
SharedKeyTableCanonicalizer Constructor

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Initializes a new instance of the SharedKeyTableCanonicalizer Class.

Usage

**Visual Basic**

```vbnet
Dim instance As New SharedKeyTableCanonicalizer
```
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Basic</td>
<td>Public Sub New</td>
</tr>
<tr>
<td>C#</td>
<td>public SharedKeyTableCanonicalizer ()</td>
</tr>
<tr>
<td>C++</td>
<td>public: SharedKeyTableCanonicalizer ()</td>
</tr>
<tr>
<td>J#</td>
<td></td>
</tr>
<tr>
<td>JScript</td>
<td></td>
</tr>
</tbody>
</table>
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Platforms

Development Platforms
See Also

Reference
- SharedKeyTableCanonicalizer Class
- SharedKeyTableCanonicalizer Members

Other Resources
- Authentication Schemes
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<tr>
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</tbody>
</table>
See Also

Reference

SharedKeyTableCanonicalizer Class

Other Resources

Authentication Schemes
Canonicalizes the HTTP request.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
### Usage

**Visual Basic**

```vbnet
Dim instance As SharedKeyTableCanonicalizer
Dim request As HttpWebRequest
Dim accountName As String
Dim returnValue As String

returnValue = instance.CanonicalizeHttpRequest(request)
```
## Syntax

### Visual Basic

```vbnet
Public Overrides Function CanonicalizeHttpRequest (request As HttpWebRequest, accountName As String) As String
```

### C#

```csharp
public override string CanonicalizeHttpRequest (HttpWebRequest request, string accountName)
```

### C++

```cpp
public:
virtual String^ CanonicalizeHttpRequest (HttpWebRequest^ request, String^ accountName)
```

### J#

```jsharp
```

### JScript

```jscript
```

## Parameters

- **request**
  - Type: `System.Net.HttpWebRequest`
    - A web request.
accountName
Type: System.String

The name of the storage account.

**Return Value**

Type: System.String

The canonicalized string for the request.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

SharedKeyTableCanonicalizer Class
SharedKeyTableCanonicalizer Members

Other Resources

Authentication Schemes
TableRequest Class

Provides a set of methods for constructing requests for table operations.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Basic</strong></td>
<td><code>Public NotInheritable Class TableRequest</code></td>
</tr>
<tr>
<td><strong>C#</strong></td>
<td><code>public static class TableRequest</code></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><code>public ref class TableRequest abstract sealed</code></td>
</tr>
<tr>
<td><strong>J#</strong></td>
<td></td>
</tr>
<tr>
<td><strong>JScript</strong></td>
<td></td>
</tr>
</tbody>
</table>
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Inheritance Hierarchy

System.Object

Microsoft.WindowsAzure.StorageClient.Protocol.TableRequest
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
TableRequest Members

Other Resources
Table Service REST API
Operations on the Account (Table Service)
Operations on Tables
TableRequest Members

See Also  Methods

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Provides a set of methods for constructing requests for table operations.

The following tables list the members exposed by the TableRequest type.
## Public Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GetServiceProperties</td>
<td>Gets the properties of an account’s Table service.</td>
</tr>
<tr>
<td>SetServiceProperties</td>
<td>Sets the properties of an account’s Table service.</td>
</tr>
<tr>
<td>SignRequest</td>
<td>Signs a request to the Table service by using the specified credentials.</td>
</tr>
<tr>
<td>SignRequestForSharedKeyLite</td>
<td>Signs a request to the Table service by using the specified credentials.</td>
</tr>
<tr>
<td>WriteServiceProperties</td>
<td>Writes the Table service properties to an output stream.</td>
</tr>
</tbody>
</table>
See Also

Reference
TableRequest Class

Other Resources
Table Service REST API
Operations on the Account (Table Service)
Operations on Tables
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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<td>WriteServiceProperties</td>
<td>Writes the Table service properties to an output stream.</td>
</tr>
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</table>
See Also

Reference
- TableRequest Class

Other Resources
- Table Service REST API
- Operations on the Account (Table Service)
- Operations on Tables
TableRequest.GetServiceProperties Method

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the properties of an account’s Table service.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
Usage

Visual Basic

Dim uri As Uri
Dim timeout As Integer
Dim returnValue As HttpResponse

returnValue = TableRequest.GetServiceProperties(uri,
### Syntax

#### Visual Basic

```vbnet
Public Shared Function GetServiceProperties ( _
    uri As Uri, _
    timeout As Integer _
) As HttpWebRequest
```

#### C#

```csharp
public static HttpWebRequest GetServiceProperties (  
    Uri uri,  
    int timeout
)
```

#### C++

```cpp
public:  
    static HttpWebRequest^ GetServiceProperties (  
        Uri^ uri,  
        int timeout
    )
```

#### J#

```
```

#### JScript

```
```

### Parameters

**uri**

The absolute URI to the Table service.

**timeout**

A timeout value, in seconds.
Return Value

Returns **HttpRequest**.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (*Shared* in Visual Basic) members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
TableRequest Class
TableRequest Members

Other Resources
Table Service REST API
Get Table Service Properties
Operations on the Account (Table Service)
Operations on Tables
TableRequest.SetServiceProperties Method

Sets the properties of an account’s Table service.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
Usage

Visual Basic

Dim uri As Uri
Dim timeout As Integer
Dim returnValue As HttpWebRequest

returnValue = TableRequest.SetServiceProperties(uri,
## Syntax

### Visual Basic

```vbnet
Public Shared Function SetServiceProperties ( _
    uri As Uri, _
    timeout As Integer _
) As HttpWebRequest
```

### C#

```csharp
public static HttpWebRequest SetServiceProperties (  
    Uri uri,
    int timeout
)
```

### C++

```cpp
public:
static HttpWebRequest^ SetServiceProperties (  
    Uri^ uri,
    int timeout
)
```

### J#

```
```

### JScript

```
```

## Parameters

- **uri**
  - The absolute URI to the Table service.

- **timeout**
  - A timeout value, in seconds.
Return Value

Returns `HttpWebRequest`. 
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
TableRequest Class
TableRequest Members

Other Resources
Table Service REST API
Set Table Service Properties
Operations on the Account (Table Service)
Operations on Tables
Signs a request to the Table service by using the specified credentials.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

**Visual Basic**

```vbnet
Dim request As HttpRequest
Dim credentials As Credentials

TableRequest.SignRequest(request, credentials)
```
## Syntax

### Visual Basic

```vbnet
Public Shared Sub SignRequest ( _
    request As HttpWebRequest, _
    credentials As Credentials _
)
```

### C#

```csharp
public static void SignRequest ( 
    HttpWebRequest request, 
    Credentials credentials
)
```

### C++

```cpp
public:
static void SignRequest ( 
    HttpWebRequest^ request, 
    Credentials^ credentials
)
```

### J#

```csharp

```

### JScript

```javascript

```

## Parameters

- **request**
  - The web request to sign.

- **credentials**
  - The credentials to use when signing the web request.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
 Platforms

 Development Platforms
See Also

Reference
TableRequest Class
TableRequest Members

Other Resources
Table Service REST API
Operations on the Account (Table Service)
Operations on Tables
TableRequest.SignRequestForSharedKeyLite Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Signs a request to the Table service by using the specified credentials.

**Usage**

Visual Basic

```
Dim request As HttpWebRequest
Dim credentials As Credentials

TableRequest.SignRequestForSharedKeyLite(request, credentials)
```
## Syntax

### Visual Basic

```vbnet
Public Shared Sub SignRequestForSharedKeyLite ( _
    request As HttpWebRequest, _
    credentials As Credentials _
)
```

### C#

```csharp
public static void SignRequestForSharedKeyLite (  
    HttpWebRequest request, 
    Credentials credentials
)
```

### C++

```cpp
public:
static void SignRequestForSharedKeyLite (  
    HttpWebRequest^ request, 
    Credentials^ credentials
)
```

### J#

```js
```

### JScript

```js
```

## Parameters

- **request**
  - The web request to sign.

- **credentials**
  - The credentials to use when signing the web request.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
TableRequest Class
TableRequest Members

Other Resources
Table Service REST API
Operations on the Account (Table Service)
Operations on Tables
TableRequest.WriteServiceProperties Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Writes the Table service properties to an output stream.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
## Usage

### Visual Basic

```vbnet
Dim properties As ServiceProperties
Dim outputStream As Stream

TableRequest.WriteServiceProperties(properties, outputStream)
```
## Syntax

### Visual Basic

```vbnet
Public Shared Sub WriteServiceProperties ( _
properties As ServiceProperties, _
outputStream As Stream _
)
```

### C#

```csharp
public static void WriteServiceProperties ( 
    ServiceProperties properties,
    Stream outputStream
)
```

### C++

```cpp
public:
static void WriteServiceProperties ( 
    ServiceProperties^ properties,
    Stream^ outputStream
)
```

### J#

```jsharp```

### JScript

```jscript```

## Parameters

- **properties**
  - The Table service properties.

- **outputStream**
  - The stream to be written.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
TableRequest Class
TableRequest Members

Other Resources
Table Service REST API
Operations on the Account (Table Service)
Operations on Tables
TableResponse Class

Provides a set of methods for parsing responses from Table operations.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
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### Syntax

<table>
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<tbody>
<tr>
<td><strong>Public NotInheritable Class TableResponse</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C#</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>public static class TableResponse</strong></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>C++</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>public ref class TableResponse abstract sealed</strong></td>
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</table>

<table>
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</table>
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Inheritance Hierarchy

System.Object
Thread Safety

Any public static (Shared in Visual Basic) members of this type are thread safe.
Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

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TableResponse Members

Other Resources
Operations on Tables
Create Table
Operations on Entities
TableResponse Members

See Also  Methods

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Provides a set of methods for parsing responses from Table operations.

The following tables list the members exposed by the TableResponse type.
# Public Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
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<td><code>WithError</code></td>
<td>Returns extended error information from the storage service in addition to the HTTP status code returned with the response.</td>
</tr>
<tr>
<td><code>GetRequestId</code></td>
<td>Gets the request ID from the response.</td>
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<tr>
<td><code>ReadServiceProperties</code></td>
<td>Gets an account’s Table service properties from an input stream.</td>
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TableResponse Class

Other Resources
Operations on Tables
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Operations on Entities
[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
## Public Methods

<table>
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<tr>
<th>Name</th>
<th>Description</th>
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<tbody>
<tr>
<td><code>GetError</code></td>
<td>Returns extended error information from the storage service in addition to the HTTP status code returned with the response.</td>
</tr>
<tr>
<td><code>GetRequestId</code></td>
<td>Gets the request ID from the response.</td>
</tr>
<tr>
<td><code>ReadServiceProperties</code></td>
<td>Gets an account’s Table service properties from an input stream.</td>
</tr>
</tbody>
</table>
See Also

Reference
TableResponse Class

Other Resources
Operations on Tables
Create Table
Operations on Entities
TableResponse.GetError Method

Returns extended error information from the storage service in addition to the HTTP status code returned with the response.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol

**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]
### Usage

**Visual Basic**

```vba
Dim response As HttpWebResponse
Dim returnValue As StorageExtendedErrorInformation

returnValue = TableResponse.GetError(response)
```
### Syntax

#### Visual Basic

```vbscript
Public Shared Function GetError ( _
    response As HttpWebResponse _
) As StorageExtendedErrorInformation
```

#### C#

```csharp
public static StorageExtendedErrorInformation GetError(
    HttpWebResponse response
)
```

#### C++

```cpp
public:
static StorageExtendedErrorInformation^ GetError (
    HttpWebResponse^ response
)
```

#### J#

```jsharp
```

#### JScript

```javascript
```

---

**Parameters**

`response`

Type: `System.Net.HttpWebResponse`

The web response.

---

**Return Value**
Type:
Microsoft.WindowsAzure.StorageClient.StorageExtendedErrorInformation

An object containing extended error information returned with the response.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static *(Shared in Visual Basic)* members of this type are thread safe.

Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference
TableResponse Class
TableResponse Members

Other Resources
Operations on Tables
Create Table
Operations on Entities
TableResponse.GetRequestId Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets the request ID from the response.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbscript
Dim response As HttpWebResponse
Dim returnValue As String

returnValue = TableResponse.GetRequestId(response)
```
## Syntax

### Visual Basic

```vbnet
Public Shared Function GetRequestId ( _
    response As HttpWebResponse _
) As String
```

### C#

```csharp
public static string GetRequestId (  
    HttpWebResponse response
)
```

### C++

```cpp
public:
static String^ GetRequestId (  
    HttpWebResponse^ response
)
```

### J#

```
```

### JScript

```
```

### Parameters

`response`
- Type: `System.Net.HttpWebResponse`
- The web response.

### Return Value

Type: `System.String`
A unique value associated with the request.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
**Thread Safety**

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

Reference

TableResponse Class
TableResponse Members

Other Resources

Operations on Tables
Create Table
Operations on Entities
TableResponse.ReadServiceProperties Method

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

Gets an account’s Table service properties from an input stream.

**Namespace:** Microsoft.WindowsAzure.StorageClient.Protocol  
**Assembly:** Microsoft.WindowsAzure.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)
**Usage**

**Visual Basic**

```vbnet
Dim inputStream As Stream
Dim returnValue As ServiceProperties

returnValue = TableResponse.ReadServiceProperties(inputStream)
```
## Syntax

**Visual Basic**

```vbnet
Public Shared Function ReadServiceProperties (_
    inputStream As Stream _) As ServiceProperties
```

**C#**

```csharp
public static ServiceProperties ReadServiceProperties (  
    Stream inputStream
)
```

**C++**

```cpp
public:  
static ServiceProperties^ ReadServiceProperties (  
    Stream^ inputStream
)
```

**J#**

```jsharp```

**JScript**

```javascript```

### Parameters

- **inputStream**
  
  The input stream to retrieve the service properties from.

### Return Value

Returns an `ServiceProperties` object that contains the account’s Table service properties.
Remarks

For more details about this API, see the topics on the equivalent REST APIs in See Also > Other Resources.
Thread Safety

Any public static (**Shared** in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
Platforms

Development Platforms
See Also

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TableResponse Class
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Other Resources
Operations on Tables
Create Table
Operations on Entities
ResponseParsingBase<T> Hierarchy

See Also

[This topic is part of the Microsoft Azure Storage Client Library 1.7, which has been deprecated. See Storage Client Library for the latest version.]

### Derived Classes

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ResponseParsingBase Class
ResponseParsingBase Members