

Class Library



[This 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

Namespace
Microsoft.WindowsAzure
Microsoft.WindowsAzure.StorageClient
Microsoft.WindowsAzure.StorageClient.Protocol

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.]

☐ **Classes**

Class	Description
<u>CloudStorageAccount</u>	Represents a Windows Azure storage account.
<u>StorageCredentials</u>	Represents a set of credentials used to authenticate access to a Windows Azure storage account.
<u>StorageCredentialsAccountAndKey</u>	Represents storage account credentials for accessing the Windows Azure storage services.
<u>StorageCredentialsSharedAccessSignature</u>	Represents storage credentials for delegated access to Blob service resources via a shared access signature.

CloudStorageAccount 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 storage account.

Namespace: Microsoft.WindowsAzure

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

Usage

Visual Basic

```
Dim instance As CloudStorageAccount
```

☐ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudStorageAccount Members](#)

[Microsoft.WindowsAzure Namespace](#)

Other Resources

[Authenticating Access to Your Storage Account](#)

CloudStorageAccount 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 Windows Azure storage account.

The following tables list the members exposed by the [CloudStorageAccount](#) type.

▣ **Public Constructors**

	Name	Description
	CloudStorageAccount	Overloaded.

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☐ Public Properties

	Name	Description
	BlobEndpoint	Gets the endpoint for the Blob service, as configured for the storage account.
	Credentials	Gets the credentials used to create this CloudStorageAccount object.
 	DevelopmentStorageAccount	Gets a CloudStorageAccount object that references the development storage account.
	QueueEndpoint	Gets the endpoint for the Queue service, as configured for the storage account.
	TableEndpoint	Gets the endpoint for the Table service, as configured for the storage account.

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☐ **Public Methods (see also [Protected Methods](#))**

	Name	Description
	Equals	(Inherited from Object)
 	FromConfigurationSetting	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.
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
 	Parse	Parses a connection string and returns a CloudStorageAccount created from the connection string.
 	SetConfigurationSettingPublisher	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.
	ToString	Overloaded. Overridden.
 	TryParse	Indicates whether a connection string can be parsed to return a CloudStorageAccount object.

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☐ **Protected Methods (see also [Extension Methods](#))**

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

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☐ Extension Methods

	Name	Description
	CreateCloudBlobClient	Creates a new Blob service client. (Defined by CloudStorageAccountStorageClientExtensions .)
	CreateCloudDrive	(Defined by CloudStorageAccountCloudDriveExtensions .)
	CreateCloudQueueClient	Creates a new Queue service client. (Defined by CloudStorageAccountStorageClientExtensions .)
	CreateCloudTableClient	Creates the Table service client. (Defined by CloudStorageAccountStorageClientExtensions .)

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▣ 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.]

☐ Overload List

Name	Description
CloudStorageAccount (StorageCredentials, Uri, Uri, Uri)	Initializes a new instance of the CloudStorageAccount class using the specified account credentials and service endpoints.
CloudStorageAccount (StorageCredentialsAccountAndKey, Boolean)	Initializes a new instance of the CloudStorageAccount class using the specified account credentials and the default service endpoints.

▣ 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

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

▣ Usage

Visual Basic

```
Dim storageCredentials As StorageCredentials  
Dim blobEndpoint As Uri  
Dim queueEndpoint As Uri  
Dim tableEndpoint As Uri  
  
Dim instance As New CloudStorageAccount(storageCreden
```

☐ Syntax

Visual Basic

```
Public Sub New ( _  
    storageCredentials As StorageCredentials, _  
    blobEndpoint As Uri, _  
    queueEndpoint As Uri, _  
    tableEndpoint As Uri _  
)
```

C#

```
public CloudStorageAccount (  
    StorageCredentials storageCredentials,  
    Uri blobEndpoint,  
    Uri queueEndpoint,  
    Uri tableEndpoint  
)
```

C++

```
public:  
CloudStorageAccount (  
    StorageCredentials^ storageCredentials,  
    Uri^ blobEndpoint,  
    Uri^ queueEndpoint,  
    Uri^ tableEndpoint  
)
```

J#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim storageCredentialsAccountAndKey As StorageCreden  
Dim useHttps As Boolean  
  
Dim instance As New CloudStorageAccount(storageCreden
```

▣ Syntax

Visual Basic

```
Public Sub New ( _  
    storageCredentialsAccountAndKey As StorageCred  
    useHttps As Boolean _  
)
```

C#

```
public CloudStorageAccount (  
    StorageCredentialsAccountAndKey storageCreden  
    bool useHttps  
)
```

C++

```
public:  
CloudStorageAccount (  
    StorageCredentialsAccountAndKey^ storageCreden  
    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](#)

True to use HTTPS to connect to storage service endpoints; otherwise, **false**.

▣ Remarks

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:

C#

```
StorageCredentialsAccountAndKey credentials = new StorageCredentialia
CloudStorageAccount storageAccount = new CloudStorageAccount(credentials
CloudBlobClient blobClient = storageAccount.CreateCloudBlobClient(
```

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudStorageAccount Class](#)

[CloudStorageAccount Members](#)

[Microsoft.WindowsAzure Namespace](#)

Other Resources

[Authenticating Access to Your Storage Account](#)

CloudStorageAccount 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](#))**

	Name	Description
	Equals	(Inherited from Object)
 	FromConfigurationSetting	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.
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
 	Parse	Parses a connection string and returns a CloudStorageAccount created from the connection string.
 	SetConfigurationSettingPublisher	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.
	ToString	Overloaded. Overridden.
 	TryParse	Indicates whether a connection string can be parsed to return a CloudStorageAccount object.

☐ **Protected Methods (see also [Extension Methods](#))**

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

☐ Extension Methods

	Name	Description
	CreateCloudBlobClient	Creates a new Blob service client. (Defined by CloudStorageAccountStorageClientExtensions .)
	CreateCloudDrive	(Defined by CloudStorageAccountCloudDriveExtensions .)
	CreateCloudQueueClient	Creates a new Queue service client. (Defined by CloudStorageAccountStorageClientExtensions .)
	CreateCloudTableClient	Creates the Table service client. (Defined by CloudStorageAccountStorageClientExtensions .)

▣ See Also

Reference

[CloudStorageAccount Class](#)

[Microsoft.WindowsAzure Namespace](#)

Other Resources

[Authenticating Access to Your Storage Account](#)

CloudStorageAccount.FromConfigurationSetting 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.]

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

```
Dim settingName As String  
Dim returnValue As CloudStorageAccount  
  
returnValue = CloudStorageAccount.FromConfigurationS
```

▣ 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

Exception type	Condition
InvalidOperationException	Thrown if the global configuration setting publisher has not been configured, or if the configuration setting cannot be found.

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim value As String  
Dim returnValue As CloudStorageAccount  
  
returnValue = CloudStorageAccount.Parse(value)
```


▣ Syntax

Visual Basic

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

C#

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

C++

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

J#

JScript

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.

C#

```
static void ParseCloudStorageAccountFromConnectionSt
{
    CloudStorageAccount storageAccount = CloudStorage

    Console.WriteLine("Connection string: {0}", stor
    Console.WriteLine("Account name: {0}", storageAc
    Console.WriteLine("Account key: {0}", ((StorageC
    Console.WriteLine("Blob endpoint: {0}", storageA
    Console.WriteLine("Queue endpoint: {0}", storage
    Console.WriteLine("Table endpoint: {0}", storage
}
```

▣ Exceptions

Exception type	Condition
ArgumentNullException	Thrown if <i>value</i> is null or empty.
FormatException	Thrown if <i>value</i> is not a valid connection string.
ArgumentException	Thrown if <i>value</i> cannot be parsed.

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudStorageAccount Class](#)

[CloudStorageAccount Members](#)

[Microsoft.WindowsAzure Namespace](#)

Other Resources

[Authenticating Access to Your Storage Account](#)

CloudStorageAccount.SetConfigurationSettingPublisher 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 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

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

▣ Syntax

Visual Basic

```
Public Shared Sub SetConfigurationSettingPublisher (
    configurationSettingPublisher As Action(Of S
)
```

C#

```
public static void SetConfigurationSettingPublisher
    Action<string, Func<string, bool>> configuration
)
```

C++

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

J#

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>
                ( 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 role
                    // should be recycled in order to use the latest settings (for example,
                    // 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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](#)

CloudStorageAccount.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.]

☐ Overload List

Name	Description
CloudStorageAccount.ToString()	Returns a connection string for this storage account, without sensitive data.
CloudStorageAccount.ToString(Boolean)	Returns a connection string for the storage account, optionally with sensitive data.

▣ See Also

Reference

[CloudStorageAccount Class](#)

[CloudStorageAccount Members](#)

[Microsoft.WindowsAzure Namespace](#)

Other Resources

[Authenticating Access to Your Storage Account](#)

CloudStorageAccount.ToString 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 connection string for this storage account, without sensitive data.

Namespace: Microsoft.WindowsAzure

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

▣ Usage

Visual Basic

```
Dim instance As CloudStorageAccount  
Dim returnValue As String  
  
returnValue = instance.ToString
```

▣ Syntax

Visual Basic

```
Public Overrides Function ToString As String
```

C#

```
public override string ToString ()
```

C++

```
public:  
virtual String^ ToString () override
```

J#

JScript

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.

C#

```
static void GetConnectionString()
{
    //Parse a connection string and return a reference
    CloudStorageAccount storageAccount = CloudStorageAccount.Parse(connectionString);

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


▣ **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;Accoun  
[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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudStorageAccount Class](#)

[CloudStorageAccount Members](#)

[Microsoft.WindowsAzure Namespace](#)

Other Resources

[Authenticating Access to Your Storage Account](#)

CloudStorageAccount.ToString Method (Boolean)

[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 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

```
Dim instance As CloudStorageAccount  
Dim exportSecrets As Boolean  
Dim returnValue As String  
  
returnValue = instance.ToString(exportSecrets)
```

▣ Syntax

Visual Basic

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

C#

```
public string ToString (  
    bool exportSecrets  
)
```

C++

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

J#

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.

C#

```
static void GetConnectionString()
{
    //Parse a connection string and return a reference
    CloudStorageAccount storageAccount = CloudStorageAccount.Parse(connectionString);

    //Output the connection string with sensitive data
    Console.WriteLine("Connection string with sensitive data: " + connectionString);
}
```

☐ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ Usage

Visual Basic

```
Dim value As String  
Dim account As CloudStorageAccount  
Dim returnValue As Boolean  
  
returnValue = CloudStorageAccount.TryParse(value, acc)
```


▣ Syntax

Visual Basic

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

C#

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

C++

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

J#

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.

Example

The following code example attempts to parse a connection string and return a [CloudStorageAccount](#) object, then lists account, credential, and endpoint information.

C#

```
static void TryParseCloudStorageAccountFromConnection
{
    CloudStorageAccount storageAccount;
    if (CloudStorageAccount.TryParse(ConfigurationMa
    {
        Console.WriteLine("Connection string: {0}", s
        Console.WriteLine("Account name: {0}", stora
        Console.WriteLine("Account key: {0}", ((Stora
        Console.WriteLine("Blob endpoint: {0}", stora
        Console.WriteLine("Queue endpoint: {0}", sto
        Console.WriteLine("Table endpoint: {0}", sto
    }
    else
    {
        Console.WriteLine("The connection string coul
    }
}
```

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

	Name	Description
	BlobEndpoint	Gets the endpoint for the Blob service, as configured for the storage account.
	Credentials	Gets the credentials used to create this CloudStorageAccount object.
 	DevelopmentStorageAccount	Gets a CloudStorageAccount object that references the development storage account.
	QueueEndpoint	Gets the endpoint for the Queue service, as configured for the storage account.
	TableEndpoint	Gets the endpoint for the Table service, as configured for the storage account.

▣ 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](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ **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

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

▣ Usage

Visual Basic

```
Dim instance As CloudStorageAccount  
Dim value As StorageCredentials  
  
value = instance.Credentials
```

☐ Syntax

Visual Basic

Public Property Credentials As **StorageCredentials**

C#

```
public StorageCredentials Credentials { get; }
```

C++

```
public:  
property StorageCredentials^ Credentials {  
    StorageCredentials^ get ();  
}
```

J#

JScript

Property Value

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

The credentials used to create the [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim value As CloudStorageAccount  
value = CloudStorageAccount.DevelopmentStorageAccount
```

▣ Syntax

Visual Basic

```
Public Shared ReadOnly Property DevelopmentStorageAccount As CloudStorageAccount
```

C#

```
public static CloudStorageAccount DevelopmentStorageAccount { get; }
```

C++

```
public:  
static property CloudStorageAccount^ DevelopmentStorageAccount  
{  
    CloudStorageAccount^ get ();  
}
```

J#

JScript

Property Value

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

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudStorageAccount Class](#)

[CloudStorageAccount Members](#)

[Microsoft.WindowsAzure Namespace](#)

Other Resources

[Authenticating 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

```
Public Property QueueEndpoint As Uri
```

C#

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

C++

```
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 with 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As CloudStorageAccount  
Dim value As Uri  
  
value = instance.TableEndpoint
```

▣ Syntax

Visual Basic

```
Public Property TableEndpoint As Uri
```

C#

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

C++

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

J#

JScript

Property Value

Type: [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudStorageAccount Class](#)

[CloudStorageAccount Members](#)

[Microsoft.WindowsAzure Namespace](#)

Other Resources

[Authenticating Access to Your Storage Account](#)

StorageCredentials 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 credentials used to authenticate access to a Windows Azure storage account.

Namespace: Microsoft.WindowsAzure

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

▣ Usage

Visual Basic

```
Dim instance As StorageCredentials
```

☐ Syntax

Visual Basic

```
Public MustInherit Class StorageCredentials
```

C#

```
public abstract class StorageCredentials
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageCredentials Members](#)

[Microsoft.WindowsAzure Namespace](#)



StorageCredentials 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 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

	Name	Description
	StorageCredentials	

[Top](#)

☐ Public Properties

	Name	Description
	AccountName	Gets the name of the storage account associated with the specified credentials.
	CanComputeHmac	Gets a value indicating whether the ComputeHmac method will return a valid HMAC-encoded signature string when called using the specified credentials.
	CanSignRequest	Gets a value indicating whether a request can be signed under the Shared Key authentication scheme using the specified credentials.
	CanSignRequestLite	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.
	NeedsTransformUri	Gets a value indicating whether the TransformUri method should be called to transform a resource URI to the required format.

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

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

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ 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

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

Usage

Visual Basic

```
Dim instance As New StorageCredentials
```

Syntax

Visual Basic

```
Protected Sub New
```

C#

```
protected StorageCredentials ()
```

C++

```
protected:  
StorageCredentials ()
```

J#

JScript

▣ **Remarks**

The default constructor initializes any fields to their default values.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageCredentials Class](#)

[StorageCredentials Members](#)

[Microsoft.WindowsAzure Namespace](#)

StorageCredentials 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](#))

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

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[StorageCredentials Class](#)

[Microsoft.WindowsAzure Namespace](#)



StorageCredentials.ComputeHmac 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.]

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

```
Dim instance As StorageCredentials  
Dim value As String  
Dim returnValue As String  
  
returnValue = instance.ComputeHmac(value)
```


▣ Syntax

Visual Basic

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

C#

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

C++

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

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageCredentials Class](#)

[StorageCredentials Members](#)

[Microsoft.WindowsAzure Namespace](#)

StorageCredentials.ComputeHmac512 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

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

▣ Usage

Visual Basic

```
Dim value As String  
Dim returnValue As String  
  
returnValue = Me.ComputeHmac512(value)
```

☐ Syntax

Visual Basic

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

C#

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

C++

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Visual Basic

```
Public MustOverride Sub SignRequest ( _  
    request As HttpRequest _  
)
```

C#

```
public abstract void SignRequest (  
    HttpRequest request  
)
```

C++

```
public:  
virtual void SignRequest (  
    HttpRequest^ request  
) abstract
```

J#

JScript

Parameters

request

Type: [System.Net.HttpRequest](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageCredentials Class](#)

[StorageCredentials Members](#)

[Microsoft.WindowsAzure Namespace](#)

StorageCredentials.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

```
Dim instance As StorageCredentials  
Dim request As HttpWebRequest  
  
instance.SignRequestLite(request)
```

▣ Syntax

Visual Basic

```
Public MustOverride Sub SignRequestLite ( _  
    request As HttpRequest _  
)
```

C#

```
public abstract void SignRequestLite (  
    HttpRequest request  
)
```

C++

```
public:  
virtual void SignRequestLite (  
    HttpRequest^ request  
) abstract
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageCredentials Class](#)

[StorageCredentials Members](#)

[Microsoft.WindowsAzure Namespace](#)

StorageCredentials.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 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

```
Dim instance As StorageCredentials  
Dim resourceUri As String  
Dim returnValue As String  
  
returnValue = instance.TransformUri(resourceUri)
```

▣ Syntax

Visual Basic

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

C#

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

C++

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

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageCredentials Class](#)

[StorageCredentials Members](#)

[Microsoft.WindowsAzure Namespace](#)

StorageCredentials 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

	Name	Description
	AccountName	Gets the name of the storage account associated with the specified credentials.
	CanComputeHmac	Gets a value indicating whether the ComputeHmac method will return a valid HMAC-encoded signature string when called using the specified credentials.
	CanSignRequest	Gets a value indicating whether a request can be signed under the Shared Key authentication scheme using the specified credentials.
	CanSignRequestLite	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.
	NeedsTransformUri	Gets a value indicating whether the TransformUri method should be called to transform a resource URI to the required format.

▣ 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

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

▣ Usage

Visual Basic

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As StorageCredentials  
Dim value As Boolean  
  
value = instance.CanComputeHmac
```

▣ Syntax

Visual Basic

```
Public MustOverride ReadOnly Property CanComputeHmac
```

C#

```
public abstract bool CanComputeHmac { get; }
```

C++

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

J#

JScript

Property Value

Type: [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageCredentials Class](#)

[StorageCredentials Members](#)

[Microsoft.WindowsAzure Namespace](#)

StorageCredentials.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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As StorageCredentials  
Dim value As Boolean  
  
value = instance.CanSignRequestLite
```

▣ Syntax

Visual Basic

```
Public MustOverride ReadOnly Property CanSignRequestLite
```

C#

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

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As StorageCredentials  
Dim value As Boolean  
  
value = instance.NeedsTransformUri
```

▣ Syntax

Visual Basic

```
Public MustOverride ReadOnly Property NeedsTransformUri
```

C#

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

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageCredentials Class](#)

[StorageCredentials Members](#)

[Microsoft.WindowsAzure Namespace](#)

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

Namespace: Microsoft.WindowsAzure

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

▣ Usage

Visual Basic

```
Dim instance As StorageCredentialsAccountAndKey
```

☐ Syntax

Visual Basic

```
Public Class StorageCredentialsAccountAndKey  
    Inherits StorageCredentialsAccountAndKey
```

C#

```
public class StorageCredentialsAccountAndKey : StorageCredentialsAccountAndKey
```

C++

```
public ref class StorageCredentialsAccountAndKey : public
```

J#

JScript

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageCredentialsAccountAndKey Members](#)

[Microsoft.WindowsAzure Namespace](#)



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

The following tables list the members exposed by the [StorageCredentialsAccountAndKey](#) type.

▣ Public Constructors

Name	Description
StorageCredentialsAccountAndKey	Overloaded.

[Top](#)

☐ **Public Properties (see also [Protected Properties](#))**

	Name	Description
	AccountName	Overridden. Gets the name of the storage account associated with the specified credentials.
	CanComputeHmac	Overridden. Gets a value indicating whether the ComputeHmac method will return a valid HMAC-encoded signature string when called using the specified credentials.
	CanSignRequest	Overridden. Gets a value indicating whether a request can be signed under the Shared Key authentication scheme using the specified credentials.
	CanSignRequestLite	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.
	Credentials	Gets a Credentials object that references the storage account name and access key.
	NeedsTransformUri	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.

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Protected Properties

	Name	Description
	SigningAccountName	

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	ComputeHmac	Overridden. Encodes a Shared Key or Shared Key Lite signature string by using the HMAC-SHA256 algorithm over a canonicalized string-to-sign.
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	SignRequest	Overridden. Signs a request using the specified credentials under the Shared Key authentication scheme.
	SignRequestLite	Overridden. Signs a request against the Table service using the specified credentials under the Shared Key Lite authentication scheme.
	ToString	(Inherited from Object)
	TransformUri	Overridden. 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.

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☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ See Also

Reference

[StorageCredentialsAccountAndKey Class](#)

[Microsoft.WindowsAzure Namespace](#)

StorageCredentialsAccountAndKey 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

Name	Description
<u>StorageCredentialsAccountAndKey (String, Byte[])</u>	Initializes a new instance of the <u>StorageCredentialsAccountAndKey</u> class, using the storage account name and access key.
<u>StorageCredentialsAccountAndKey (String, String)</u>	Initializes a new instance of the <u>StorageCredentialsAccountAndKey</u> class, using the storage account name and access key.

▣ See Also

Reference

[StorageCredentialsAccountAndKey Class](#)

[StorageCredentialsAccountAndKey Members](#)

[Microsoft.WindowsAzure Namespace](#)

StorageCredentialsAccountAndKey Constructor (String, 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.]

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

```
Dim accountName As String  
Dim key As Byte()  
  
Dim instance As New StorageCredentialsAccountAndKey(accountName, key)
```


▣ Syntax

Visual Basic

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

C#

```
public StorageCredentialsAccountAndKey (  
    string accountName,  
    byte[] key  
)
```

C++

```
public:  
StorageCredentialsAccountAndKey (  
    String^ accountName,  
    array<unsigned char>^ key  
)
```

J#

JScript

Parameters

accountName

Type: [System.String](#)

The name of the storage account.

key

The account access key, as an array of bytes.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageCredentialsAccountAndKey Class](#)

[StorageCredentialsAccountAndKey Members](#)

[Microsoft.WindowsAzure Namespace](#)

StorageCredentialsAccountAndKey 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 [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

```
Dim accountName As String  
Dim key As String  
  
Dim instance As New StorageCredentialsAccountAndKey(:
```

▣ Syntax

Visual Basic

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

C#

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

C++

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

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageCredentialsAccountAndKey Class](#)

[StorageCredentialsAccountAndKey Members](#)

[Microsoft.WindowsAzure Namespace](#)

StorageCredentialsAccountAndKey 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](#))**

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

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[StorageCredentialsAccountAndKey Class](#)

[Microsoft.WindowsAzure Namespace](#)

StorageCredentialsAccountAndKey.ComputeHmac 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.]

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

```
Dim instance As StorageCredentialsAccountAndKey  
Dim value As String  
Dim returnValue As String  
  
returnValue = instance.ComputeHmac(value)
```


▣ Syntax

Visual Basic

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

C#

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

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageCredentialsAccountAndKey Class](#)

[StorageCredentialsAccountAndKey Members](#)

[Microsoft.WindowsAzure Namespace](#)

StorageCredentialsAccountAndKey.ComputeHmac512 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

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

▣ Usage

Visual Basic

```
Dim value As String  
Dim returnValue As String  
  
returnValue = Me.ComputeHmac512(value)
```

▣ Syntax

Visual Basic

```
Protected Friend Overrides Function ComputeHmac512 (  
    _  
        value As String _  
) As String
```

C#

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

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageCredentialsAccountAndKey Class](#)

[StorageCredentialsAccountAndKey Members](#)

[Microsoft.WindowsAzure Namespace](#)

StorageCredentialsAccountAndKey.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 StorageCredentialsAccountAndKey  
Dim request As HttpWebRequest  
  
instance.SignRequest(request)
```

▣ Syntax

Visual Basic

```
Public Overrides Sub SignRequest ( _  
    request As HttpRequest _  
)
```

C#

```
public override void SignRequest (  
    HttpRequest request  
)
```

C++

```
public:  
virtual void SignRequest (  
    HttpRequest^ request  
) override
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As StorageCredentialsAccountAndKey  
Dim request As HttpWebRequest  
  
instance.SignRequestLite(request)
```

▣ Syntax

Visual Basic

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

C#

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

C++

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

J#

JScript

Parameters

request

Type: [System.Net.HttpRequest](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageCredentialsAccountAndKey Class](#)

[StorageCredentialsAccountAndKey Members](#)

[Microsoft.WindowsAzure Namespace](#)

StorageCredentialsAccountAndKey.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

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

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

C#

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

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageCredentialsAccountAndKey Class](#)

[StorageCredentialsAccountAndKey Members](#)

[Microsoft.WindowsAzure Namespace](#)

StorageCredentialsAccountAndKey.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. 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

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageCredentialsAccountAndKey Class](#)

[StorageCredentialsAccountAndKey Members](#)

[Microsoft.WindowsAzure Namespace](#)

StorageCredentialsAccountAndKey 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](#))**

	Name	Description
	AccountName	Overridden. Gets the name of the storage account associated with the specified credentials.
	CanComputeHmac	Overridden. Gets a value indicating whether the ComputeHmac method will return a valid HMAC-encoded signature string when called using the specified credentials.
	CanSignRequest	Overridden. Gets a value indicating whether a request can be signed under the Shared Key authentication scheme using the specified credentials.
	CanSignRequestLite	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.
	Credentials	Gets a Credentials object that references the storage account name and access key.
	NeedsTransformUri	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.

[-] **Protected Properties**

	Name	Description
	<u>SigningAccountName</u>	

▣ 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

```
Dim instance As StorageCredentialsAccountAndKey  
Dim value As String  
  
value = instance.AccountName
```

▣ Syntax

Visual Basic

```
Public Overrides ReadOnly Property AccountName As String
```

C#

```
public override string AccountName { get; }
```

C++

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

J#

JScript

Property Value

Type: [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageCredentialsAccountAndKey Class](#)

[StorageCredentialsAccountAndKey Members](#)

[Microsoft.WindowsAzure Namespace](#)

StorageCredentialsAccountAndKey.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

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

▣ Usage

Visual Basic

```
Dim instance As StorageCredentialsAccountAndKey  
Dim value As Boolean  
  
value = instance.CanComputeHmac
```


▣ Syntax

Visual Basic

Public Overrides ReadOnly Property CanComputeHmac As

C#

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

C++

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

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As StorageCredentialsAccountAndKey  
Dim value As Boolean  
  
value = instance.CanSignRequest
```

▣ Syntax

Visual Basic

Public Overrides ReadOnly Property CanSignRequest As

C#

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

C++

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

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As StorageCredentialsAccountAndKey  
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](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageCredentialsAccountAndKey Class](#)

[StorageCredentialsAccountAndKey Members](#)

[Microsoft.WindowsAzure Namespace](#)

StorageCredentialsAccountAndKey.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 a **Credentials** object that references the storage account name and access key.

Namespace: Microsoft.WindowsAzure

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

▣ Usage

Visual Basic

```
Dim instance As StorageCredentialsAccountAndKey  
Dim value As Credentials  
  
value = instance.Credentials
```

▣ Syntax

Visual Basic

Public Property Credentials As **Credentials**

C#

```
public Credentials Credentials { get; }
```

C++

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

J#

JScript

Property Value

Type: [Microsoft.WindowsAzure.StorageClient.Protocol.Credentials](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As StorageCredentialsAccountAndKey  
Dim value As Boolean  
  
value = instance.NeedsTransformUri
```


▣ Syntax

Visual Basic

Public Overrides ReadOnly Property NeedsTransformUri

C#

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

C++

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

J#

JScript

Property Value

Type: [System.Boolean](#)

False 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageCredentialsAccountAndKey Class](#)

[StorageCredentialsAccountAndKey Members](#)

[Microsoft.WindowsAzure Namespace](#)

StorageCredentialsAccountAndKey.SigningAccountName 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

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

▣ Usage

Visual Basic

```
Dim value As String  
Me.SigningAccountName = value
```

▣ Syntax

Visual Basic

```
Protected WriteOnly Property SigningAccountName As S
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageCredentialsAccountAndKey Class](#)

[StorageCredentialsAccountAndKey Members](#)

[Microsoft.WindowsAzure Namespace](#)

StorageCredentialsSharedAccessSignature 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 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)

▣ Usage

Visual Basic

```
Dim instance As StorageCredentialsSharedAccessSignature
```

▣ Syntax

Visual Basic

```
Public Class StorageCredentialsSharedAccessSignature  
    Inherits StorageCredentials
```

C#

```
public class StorageCredentialsSharedAccessSignature
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageCredentialsSharedAccessSignature Members](#)

[Microsoft.WindowsAzure Namespace](#)

StorageCredentialsSharedAccessSignature 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 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

Name	Description
StorageCredentialsSharedAccessSignature	Initializes a new instance of the StorageCredentialsSharedAccess class with the specified shared a token.

[Top](#)

Public Properties

	Name	Description
	AccountName	Overridden. Gets the name of the storage account associated with the specified credentials.
	CanComputeHmac	Overridden. Gets a value indicating whether the ComputeHmac method will return a valid HMAC-encoded signature string when called using the specified credentials.
	CanSignRequest	Overridden. Gets a value indicating whether a request can be signed under the Shared Key authentication scheme using the specified credentials.
	CanSignRequestLite	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.
	NeedsTransformUri	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.

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☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	ComputeHmac	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 .
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	SignRequest	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 .
	SignRequestLite	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 .
	ToString	(Inherited from Object)
	TransformUri	Overridden. Transforms a resource URI into a shared access signature URI, by appending a shared access token.

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[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

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

▣ Usage

Visual Basic

```
Dim token As String
```

```
Dim instance As New StorageCredentialsSharedAccessSignature
```

▣ Syntax

Visual Basic

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

C#

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

C++

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

J#

JScript

Parameters

token

Type: [System.String](#)

A string token representing a shared access signature.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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](#))**

	Name	Description
	<u>ComputeHmac</u>	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 <u>StorageCredentialsSharedAccessSignature</u> .
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	<u>SignRequest</u>	Overridden. Signs a request using the specified credentials under the Shared Key authentication scheme. This is not a valid operation for objects of type <u>StorageCredentialsSharedAccessSignature</u> .
	<u>SignRequestLite</u>	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 <u>StorageCredentialsSharedAccessSignature</u> .
	ToString	(Inherited from Object)
	<u>TransformUri</u>	Overridden. Transforms a resource URI into a shared access signature URI, by appending a shared access token.

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[StorageCredentialsSharedAccessSignature Class](#)

[Microsoft.WindowsAzure Namespace](#)

StorageCredentialsSharedAccessSignature.ComputeHmac 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.]

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

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

C#

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

C++

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

J#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageCredentialsSharedAccessSignature Class](#)

[StorageCredentialsSharedAccessSignature Members](#)

[Microsoft.WindowsAzure Namespace](#)

StorageCredentialsSharedAccessSignature.ComputeHmac512 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

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

▣ Usage

Visual Basic

```
Dim value As String  
Dim returnValue As String  
  
returnValue = Me.ComputeHmac512(value)
```

▣ Syntax

Visual Basic

```
Protected Friend Overrides Function ComputeHmac512 (  
    _  
        value As String _  
    ) As String
```

C#

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

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As StorageCredentialsSharedAccessSignature  
Dim request As HttpWebRequest  
  
instance.SignRequest(request)
```

▣ Syntax

Visual Basic

```
Public Overrides Sub SignRequest ( _  
    request As HttpRequest _  
)
```

C#

```
public override void SignRequest (  
    HttpRequest request  
)
```

C++

```
public:  
virtual void SignRequest (  
    HttpRequest^ request  
) override
```

J#

JScript

Parameters

request

Type: [System.Net.HttpRequest](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageCredentialsSharedAccessSignature Class](#)

[StorageCredentialsSharedAccessSignature Members](#)

[Microsoft.WindowsAzure Namespace](#)

StorageCredentialsSharedAccessSignature.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. 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 request As HttpWebRequest  
  
instance.SignRequestLite(request)
```

▣ Syntax

Visual Basic

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

C#

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

C++

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

J#

JScript

Parameters

request

Type: [System.Net.HttpRequest](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageCredentialsSharedAccessSignature Class](#)

[StorageCredentialsSharedAccessSignature Members](#)

[Microsoft.WindowsAzure Namespace](#)

StorageCredentialsSharedAccessSignature.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

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

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

C#

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

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As StorageCredentialsSharedAccessSignature  
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageCredentialsSharedAccessSignature Class](#)

[StorageCredentialsSharedAccessSignature Members](#)

[Microsoft.WindowsAzure Namespace](#)

StorageCredentialsSharedAccessSignature 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

	Name	Description
	<u>AccountName</u>	Overridden. Gets the name of the storage account associated with the specified credentials.
	<u>CanComputeHmac</u>	Overridden. Gets a value indicating whether the <u>ComputeHmac</u> method will return a valid HMAC-encoded signature string when called using the specified credentials.
	<u>CanSignRequest</u>	Overridden. Gets a value indicating whether a request can be signed under the Shared Key authentication scheme using the specified credentials.
	<u>CanSignRequestLite</u>	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.
	<u>NeedsTransformUri</u>	Overridden. Gets a value indicating whether the <u>TransformUri</u> method should be called to transform a resource URI to a URI that includes a token for a shared access signature.

▣ 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)

▣ Usage

Visual Basic

```
Dim instance As StorageCredentialsSharedAccessSignature  
Dim value As String  
  
value = instance.AccountName
```

▣ Syntax

Visual Basic

```
Public Overrides ReadOnly Property AccountName As String
```

C#

```
public override string AccountName { get; }
```

C++

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

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As StorageCredentialsSharedAccessSignature  
Dim value As Boolean  
  
value = instance.CanComputeHmac
```

▣ Syntax

Visual Basic

Public Overrides ReadOnly Property CanComputeHmac As

C#

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

C++

```
public:  
virtual property bool CanComputeHmac {  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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#

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

C++

```
public:  
virtual property bool CanSignRequest {  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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)

▣ Usage

Visual Basic

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageCredentialsSharedAccessSignature Class](#)

[StorageCredentialsSharedAccessSignature Members](#)

[Microsoft.WindowsAzure Namespace](#)

StorageCredentialsSharedAccessSignature.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

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

▣ Usage

Visual Basic

```
Dim instance As StorageCredentialsSharedAccessSignature  
Dim value As Boolean  
  
value = instance.NeedsTransformUri
```

▣ Syntax

Visual Basic

Public Overrides ReadOnly Property NeedsTransformUri

C#

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

C++

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

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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.]

▣ Classes

Class	Description
BlobAttributes	Represents a blob's attributes, including its properties and metadata.
BlobContainerAttributes	Represents a container's attributes, including its properties and metadata.
BlobContainerPermissions	Represents the permissions for a container.
BlobContainerProperties	Represents the system properties for a container.
BlobErrorCodeStrings	Provides error code strings that are specific to the Blob service.
BlobProperties	Represents the system properties for a blob.
BlobRequestOptions	Represents a set of options that may be specified on a request.
BlobStream	Represents a stream for reading and writing to a blob.
CloudBlob	Represents a Windows Azure blob.
CloudBlobClient	Provides a client for accessing the Windows Azure Blob service.
CloudBlobContainer	Represents a container in the Windows Azure Blob service.
CloudBlobDirectory	Represents a blob directory of blobs, designated by a delimiter character.
CloudBlockBlob	Represents a blob that is uploaded as a set of blocks.

CloudDrive	
CloudDriveException	
CloudPageBlob	Represents a blob made up of a collection of pages.
CloudQueue	Represents a Windows Azure queue.
CloudQueueClient	Provides a client for accessing the Windows Azure Queue service.
CloudQueueMessage	Represents a message in a queue.
CloudStorageAccountCloudDriveExtensions	
CloudStorageAccountStorageClientExtensions	Provides a set of extensions to the CloudStorageAccount class that may be used to generate client objects for the Windows Azure storage services.
CloudTableClient	Provides a client for accessing the Windows Azure Table service.
CloudTableQuery	Represents a query against the Windows Azure Table service
ListBlockItem	Represents a block retrieved from the blob's block list.
PageRange	Represents a range of pages in a page blob.
QueueAttributes	Represents a queue's attributes.
QueueErrorCodeStrings	Provides error code strings that are specific to the Queue service.
ResponseReceivedEventArgs	Provides the arguments for the ResponseReceived event
	Manage continuation

ResultContinuation	information for various listing operation. Can be serialized using XML serialization.
ResultSegment	Represents a result segment that was retrieved from the total set of possible results.
RetryPolicies	Defines some standard retry policies.
SharedAccessPolicies	Represents the collection of shared access policies defined for a container.
SharedAccessPolicy	Represents a shared access policy, which specifies the start time, expiry time, and permissions for a shared access signature.
StorageClientException	Represents an exception thrown by the Windows Azure storage client library.
StorageErrorCodeStrings	Provides error code strings that are common to all storage services.
StorageException	The base class for Windows Azure storage service exceptions.
StorageExceptionExtensions	Contains methods used to translate data access exceptions for Windows Azure tables, blobs, and queues into Windows Azure-specific exceptions.
StorageExtendedErrorInformation	Represents extended error information returned by the Windows Azure storage services.
	Represents an exception

<u>StorageServerException</u>	thrown due to a server-side error.
<u>TableErrorCodeStrings</u>	Provides error code strings that are specific to the Azure Table service.
<u>TableServiceContext</u>	Represents a DataServiceContext object for use with the Windows Azure Table service.
<u>TableServiceEntity</u>	Represents an entity in a Windows Azure table.
<u>TableServiceExtensionMethods</u>	Provides a set of extensions for the Table service.

▣ Interfaces

Interface	Description
IListBlobItem	Represents an item that may be returned by a blob listing operation.

▣ Structures

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

▣ Delegates

Delegate	Description
RetryPolicy	Returns a ShouldRetry delegate that determines if the request should be retried.
ShouldRetry	A delegate that determines whether a request should be retried.

■ Enumerations

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

AccessCondition Structure

[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 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

```
Dim instance As AccessCondition
```

☐ Syntax

Visual Basic

```
Public Structure AccessCondition
```

C#

```
public struct AccessCondition
```

C++

```
public value class AccessCondition
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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](#)

AccessCondition Members

[See Also](#) [Fields](#) [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.]

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

	Name	Description
	None	Indicates that no access condition is set.

[Top](#)

☐ **Public Methods (see also [Protected Methods](#))**

	Name	Description
	Equals	Overridden. (Inherited from Object)
	GetHashCode	Overridden. (Inherited from Object)
	GetType	(Inherited from Object)
	IfMatch	Returns an access condition such that an operation will be performed only if the resource's ETag value matches the ETag value provided.
	IfModifiedSince	Returns an access condition such that an operation will be performed only if the resource has been modified since the specified time.
	IfNoneMatch	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.
	IfNotModifiedSince	Returns an access condition such that an operation will be performed only if the resource has not been modified since the specified time.
	ToString	Overridden. (Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ 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](#)

AccessCondition 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

	Name	Description
 	None	Indicates that no access condition is set.

▣ 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](#)

AccessCondition.None 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 no access condition is set.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim value As AccessCondition  
value = AccessCondition.None
```


☐ Syntax

Visual Basic

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

C#

```
public static readonly AccessCondition None
```

C++

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

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[AccessCondition Structure](#)

[AccessCondition Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Specifying Conditional Headers for Blob Service Operations](#)

AccessCondition 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](#))**

	Name	Description
	Equals	Overridden. (Inherited from Object)
	GetHashCode	Overridden. (Inherited from Object)
	GetType	(Inherited from Object)
	<u>IfMatch</u>	Returns an access condition such that an operation will be performed only if the resource's ETag value matches the ETag value provided.
	<u>IfModifiedSince</u>	Returns an access condition such that an operation will be performed only if the resource has been modified since the specified time.
	<u>IfNoneMatch</u>	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.
	<u>IfNotModifiedSince</u>	Returns an access condition such that an operation will be performed only if the resource has not been modified since the specified time.
	ToString	Overridden. (Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ 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](#)

AccessCondition.IfMatch 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's ETag value matches the ETag value provided.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
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.

▣ Example

The following example deletes a blob if its ETag matches a specified value.

```
static void DeleteIfMatch(Uri blobEndpoint, string etag)
{
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint.ToString());

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

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

    //Specify the if-match condition. The blob will only be deleted if the ETag matches.
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ Usage

Visual Basic

```
Dim lastModifiedUtc As DateTime  
Dim returnValue As AccessCondition  
  
returnValue = AccessCondition.IfModifiedSince(lastMod
```

▣ Syntax

Visual Basic

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

C#

```
public static AccessCondition IfModifiedSince (  
    DateTime lastModifiedUtc  
)
```

C++

```
public:  
static 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#

```
static void CopyIfModifiedSince(Uri blobEndpoint, st
{
    //Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient

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

    //Get a reference to the destination blob.
    CloudBlob destBlob = blobClient.GetBlobReference
    BlobRequestOptions options = new BlobRequestOpti
    DateTime dt = new DateTime(2010, 9, 1, 0, 0, 0, 1

    try
    {
        //Copy the source blob to the destination bl
        options.CopySourceAccessCondition = AccessCon
        destBlob.CopyFromBlob(sourceBlob, options);
    }
    catch (StorageClientException e)
    {
        if (e.StatusCode == HttpStatusCode.Preconditi
        {
            Console.WriteLine("Access condition not m
        }
        else
        {
            Console.WriteLine("Error code: " + e.Error
        }
    }
}
```

```
}  
}
```

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

[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's ETag value does not match the ETag value provided.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim etag As String  
Dim returnValue As AccessCondition  
  
returnValue = AccessCondition.IfNoneMatch(etag)
```

▣ Syntax

Visual Basic

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

C#

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

C++

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

J#

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.

```
static void UploadIfNotExist(Uri blobEndpoint, string blobName)
{
    //Create service client for credentialed access.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint);

    //Get a reference to the blob.
    CloudBlob blob = blobClient.GetBlobReference(blobName);

    //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.");
    }
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[AccessCondition Structure](#)

[AccessCondition Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Specifying Conditional Headers for Blob Service Operations](#)

AccessCondition.IfNotModifiedSince 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 not been modified since the specified time.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim lastModifiedUtc As DateTime  
Dim returnValue As AccessCondition  
  
returnValue = AccessCondition.IfNotModifiedSince(las
```

▣ Syntax

Visual Basic

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

C#

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

C++

```
public:  
static AccessCondition IfNotModifiedSince (  
    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-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.

```
static void CopyIfNotModifiedSince(Uri blobEndpoint,
{
    //Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient

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

    //Get a reference to the destination blob.
    CloudBlob destBlob = blobClient.GetBlobReference
    BlobRequestOptions options = new BlobRequestOpti
    DateTime dt = new DateTime(2010, 9, 1, 0, 0, 0, 1

    try
    {
        //Copy the source blob to the destination blob
        options.CopySourceAccessCondition = AccessCon
        destBlob.CopyFromBlob(sourceBlob, options);
    }
    catch (StorageClientException e)
    {
        if (e.StatusCode == HttpStatusCode.Preconditi
        {
            Console.WriteLine("Access condition not m
        }
        else
        {
            Console.WriteLine("Error code: " + e.Error
        }
    }
}
```



```
}  
}
```

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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
```


☐ Syntax

Visual Basic

```
Public Class BlobAttributes
```

C#

```
public class BlobAttributes
```

C++

```
public ref class BlobAttributes
```

J#

JScript

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobAttributes Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



BlobAttributes 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's attributes, including its properties and metadata.

The following tables list the members exposed by the [BlobAttributes](#) type.

▣ **Public Constructors**

	Name	Description
	BlobAttributes	Overloaded.

[Top](#)

▣ Public Properties

	Name	Description
	Metadata	Gets the user-defined metadata for the blob.
	Properties	Gets the blob's system properties.
	Snapshot	Gets the date and time that the blob snapshot was taken, if this blob is a snapshot.
	Uri	Gets the blob's URI.

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ 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.]

[-] Overload List

Name	Description
BlobAttributes ()	Initializes a new instance of the BlobAttributes class.
BlobAttributes (BlobAttributes)	Initializes a new instance of the BlobAttributes class from an existing BlobAttributes object.

▣ 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

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

Usage

Visual Basic

```
Dim instance As New BlobAttributes
```


☐ Syntax

Visual Basic

```
Public Sub New
```

C#

```
public BlobAttributes ()
```

C++

```
public:  
BlobAttributes ()
```

J#

JScript

▣ **Remarks**

The default constructor initializes any fields to their default values.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ 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

	Name	Description
	Metadata	Gets the user-defined metadata for the blob.
	Properties	Gets the blob's system properties.
	Snapshot	Gets the date and time that the blob snapshot was taken, if this blob is a snapshot.
	Uri	Gets the blob's URI.

▣ 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

```
Dim instance As BlobAttributes  
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

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

■ Example

The following code example lists blob properties and metadata.

```
static void ListBlobPropertiesAndMetadata(Uri blobEndpoint, string containerName)
{
    //Create service client for credentialed access.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, credential);

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

    //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.BlobType);
    Console.WriteLine("\tLastModifiedUTC: " + blob.Attributes.LastModifiedUTC);
    Console.WriteLine("\tETag: " + blob.Attributes.ETag);
    Console.WriteLine();

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

▣ **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**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

[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 blob's system properties.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As BlobAttributes  
Dim value As BlobProperties  
  
value = instance.Properties
```

▣ Syntax

Visual Basic

```
Public Property Properties As BlobProperties
```

C#

```
public BlobProperties Properties { get; }
```

C++

```
public:  
property BlobProperties^ Properties {  
    BlobProperties^ get ();  
}
```

J#

JScript

Property Value

The blob's properties.

■ Example

The following code example lists blob properties and metadata.

```
static void ListBlobPropertiesAndMetadata(Uri blobEndpoint, string containerName)
{
    //Create service client for credentialed access.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, credential);

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

    //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.BlobType);
    Console.WriteLine("\tLastModifiedUTC: " + blob.Attributes.LastModifiedUTC);
    Console.WriteLine("\tETag: " + blob.Attributes.ETag);
    Console.WriteLine();

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

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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.Snapshot 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 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

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobAttributes Class](#)

[BlobAttributes Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

BlobContainerAttributes 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 container'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 BlobContainerAttributes
```


☐ Syntax

Visual Basic

```
Public Class BlobContainerAttributes
```

C#

```
public class BlobContainerAttributes
```

C++

```
public ref class BlobContainerAttributes
```

J#

JScript

▣ Inheritance Hierarchy

System.Object

Microsoft.WindowsAzure.StorageClient.BlobContainerAttributes

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobContainerAttributes Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



BlobContainerAttributes 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 container's attributes, including its properties and metadata.

The following tables list the members exposed by the [BlobContainerAttributes](#) type.

▣ Public Constructors

Name	Description
BlobContainerAttributes	Initializes a new instance of the BlobContainerAttributes class.

[Top](#)

▣ Public Properties

	Name	Description
	Metadata	Gets the user-defined metadata for the container.
	Name	Gets the name of the container.
	Properties	Gets the container's system properties.
	Uri	Gets the container's URI.

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ 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

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

Usage

Visual Basic

```
Dim instance As New BlobContainerAttributes
```

☐ Syntax

Visual Basic

```
Public Sub New
```

C#

```
public BlobContainerAttributes ()
```

C++

```
public:  
BlobContainerAttributes ()
```

J#

JScript

▣ **Remarks**

The default constructor initializes any fields to their default values.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[BlobContainerAttributes Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

BlobContainerAttributes 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**

	Name	Description
	<u>Metadata</u>	Gets the user-defined metadata for the container.
	<u>Name</u>	Gets the name of the container.
	<u>Properties</u>	Gets the container's system properties.
	<u>Uri</u>	Gets the container's URI.

▣ 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

Visual Basic

```
Public Property Metadata As NameValueCollection
```

C#

```
public NameValueCollection Metadata { get; }
```

C++

```
public:  
property NameValueCollection^ Metadata {  
    NameValueCollection^ get ();  
}
```

J#

JScript

Property Value

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

■ Example

The following code example lists container properties and metadata.

```
static void ListContainerPropertiesAndMetadata(Uri blobUri)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient(blobUri)

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

    //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.LastModifiedUTC);
    Console.WriteLine("\tETag: " + container.Attributes.ETag);
    Console.WriteLine();

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

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ Usage

Visual Basic

```
Dim instance As BlobContainerAttributes  
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

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobContainerAttributes Class](#)

[BlobContainerAttributes Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

BlobContainerAttributes.Properties 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 container's system properties.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
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 blobUri)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient(blobUri)

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

    //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.LastModifiedUTC);
    Console.WriteLine("\tETag: " + container.ETag);
    Console.WriteLine();

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

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

```
Dim instance As BlobContainerAttributes  
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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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)

Usage

Visual Basic

```
Dim instance As BlobContainerPermissions
```


☐ Syntax

Visual Basic

```
Public Class BlobContainerPermissions
```

C#

```
public class BlobContainerPermissions
```

C++

```
public ref class BlobContainerPermissions
```

J#

JScript

▣ 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

Microsoft.WindowsAzure.StorageClient.BlobContainerPermissions

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobContainerPermissions Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Managing Access to Containers and Blobs](#)

BlobContainerPermissions 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 permissions for a container.

The following tables list the members exposed by the [BlobContainerPermissions](#) type.

▣ Public Constructors

Name	Description
BlobContainerPermissions	Initializes a new instance of the BlobContainerPermissions class.

[Top](#)

☐ **Public Properties**

	Name	Description
	<u>PublicAccess</u>	Gets or sets the public access setting for the container.
	<u>SharedAccessPolicies</u>	Gets the set of shared access policies for the container.

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ 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

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

Usage

Visual Basic

```
Dim instance As New BlobContainerPermissions
```

Syntax

Visual Basic

```
Public Sub New
```

C#

```
public BlobContainerPermissions ()
```

C++

```
public:  
BlobContainerPermissions ()
```

J#

JScript

▣ **Remarks**

The default constructor initializes any fields to their default values.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[BlobContainerPermissions Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Managing Access to Containers and Blobs](#)

BlobContainerPermissions 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**

	Name	Description
	<u>PublicAccess</u>	Gets or sets the public access setting for the container.
	<u>SharedAccessPolicies</u>	Gets the set of shared access policies for the container.

▣ 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

```
Dim instance As BlobContainerPermissions  
Dim value As BlobContainerPublicAccessType  
  
value = instance.PublicAccess  
  
instance.PublicAccess = value
```

▣ Syntax

Visual Basic

```
Public Property PublicAccess As BlobContainerPublicAccess
```

C#

```
public BlobContainerPublicAccessType PublicAccess {
```

C++

```
public:  
property BlobContainerPublicAccessType PublicAccess  
    BlobContainerPublicAccessType get ();  
    void set (BlobContainerPublicAccessType value)  
}
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobContainerPermissions Class](#)

[BlobContainerPermissions Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Managing Access to Containers and Blobs](#)

BlobContainerPermissions.SharedAccessPolicies 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 set of shared access policies for the container.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobContainerPermissions Class](#)

[BlobContainerPermissions Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Restricting Access to Containers and Blobs](#)

BlobContainerProperties 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 container.

Namespace: Microsoft.WindowsAzure.StorageClient

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

Usage

Visual Basic

```
Dim instance As BlobContainerProperties
```

☐ Syntax

Visual Basic

```
Public Class BlobContainerProperties
```

C#

```
public class BlobContainerProperties
```

C++

```
public ref class BlobContainerProperties
```

J#

JScript

▣ Inheritance Hierarchy

System.Object

Microsoft.WindowsAzure.StorageClient.BlobContainerProperties

☐ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobContainerProperties Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



BlobContainerProperties 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 container.

The following tables list the members exposed by the [BlobContainerProperties](#) type.

▣ **Public Constructors**

	Name	Description
	BlobContainerProperties	

[Top](#)

▣ Public Properties

	Name	Description
	ETag	Gets the ETag value for the container.
	LastModifiedUtc	Gets the container's last-modified time, expressed as a UTC value.

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ See Also

Reference

[BlobContainerProperties Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



BlobContainerProperties 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 [BlobContainerProperties](#) Class.

Namespace: Microsoft.WindowsAzure.StorageClient

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

Usage

Visual Basic

```
Dim instance As New BlobContainerProperties
```

☐ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ 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

	Name	Description
	ETag	Gets the ETag value for the container.
	LastModifiedUtc	Gets the container's last-modified time, expressed as a UTC value.

▣ See Also

Reference

[BlobContainerProperties Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



BlobContainerProperties.ETag 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 ETag value for the container.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobContainerProperties Class](#)

[BlobContainerProperties Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

BlobContainerProperties.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 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

```
Public Property LastModifiedUtc As DateTime
```

C#

```
public DateTime LastModifiedUtc { get; }
```

C++

```
public:  
property DateTime LastModifiedUtc {  
    DateTime get ();  
}
```

J#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As BlobContainerPublicAccessType
```


Syntax

Visual Basic

```
Public Enumeration BlobContainerPublicAccessType
```

C#

```
public enum BlobContainerPublicAccessType
```

C++

```
public enum class BlobContainerPublicAccessType
```

J#

JScript

☐ **Members**

Member name	Description
Blob	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.
Container	Container-level public access. Anonymous clients can read blob content and metadata and container metadata, and can list the blobs within the container.
Off	No anonymous access. Only the account owner can access resources in this container.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[Microsoft.WindowsAzure.StorageClient Namespace](#)

BlobErrorCodeStrings 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 Blob service.

Namespace: Microsoft.WindowsAzure.StorageClient

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

Usage

Visual Basic

☐ Syntax

Visual Basic

```
Public NotInheritable Class BlobErrorCodesStrings
```

C#

```
public static class BlobErrorCodesStrings
```

C++

```
public ref class BlobErrorCodesStrings abstract sealed
```

J#

JScript

▣ **Inheritance Hierarchy**

System.Object

Microsoft.WindowsAzure.StorageClient.BlobErrorCodeStrings

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



BlobErrorCodeStrings Members

[See Also](#) [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 error code strings that are specific to the Blob service.

The following tables list the members exposed by the [BlobErrorCodeStrings](#) type.

☐ Public Fields

	Name	Description
 	BlobAlreadyExists	Error code that may be returned when a client attempts to create a blob that already exists.
 	BlobNotFound	Error code that may be returned when a blob with the specified address cannot be found.
 	InvalidBlobOrBlock	Error code that may be returned when the specified block or blob is invalid.
 	InvalidBlockId	Error code that may be returned when a block ID is invalid.
 	InvalidBlockList	Error code that may be returned when a block list is invalid.

[Top](#)

▣ 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

	Name	Description
 	<u>BlobAlreadyExists</u>	Error code that may be returned when a client attempts to create a blob that already exists.
 	<u>BlobNotFound</u>	Error code that may be returned when a blob with the specified address cannot be found.
 	<u>InvalidBlobOrBlock</u>	Error code that may be returned when the specified block or blob is invalid.
 	<u>InvalidBlockId</u>	Error code that may be returned when a block ID is invalid.
 	<u>InvalidBlockList</u>	Error code that may be returned when a block list is invalid.

▣ 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

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

▣ Usage

Visual Basic

```
Dim value As String  
  
value = BlobErrorCodesStrings.BlobAlreadyExists
```

☐ Syntax

Visual Basic

```
Public Const BlobAlreadyExists As String
```

C#

```
public const string BlobAlreadyExists
```

C++

```
public:  
literal String^ BlobAlreadyExists
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim value As String  
value = BlobErrorCodeStrings.BlobNotFound
```


☐ Syntax

Visual Basic

```
Public Const BlobNotFound As String
```

C#

```
public const string BlobNotFound
```

C++

```
public:  
literal String^ BlobNotFound
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobErrorCodeStrings Class](#)

[BlobErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

BlobErrorCodeStrings.InvalidBlobOrBlock 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 block or blob is invalid.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim value As String  
value = BlobErrorCodeStrings.InvalidBlobOrBlock
```

☐ Syntax

Visual Basic

```
Public Const InvalidBlobOrBlock As String
```

C#

```
public const string InvalidBlobOrBlock
```

C++

```
public:  
literal String^ InvalidBlobOrBlock
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim value As String  
value = BlobErrorCodeStrings.InvalidBlockId
```

☐ Syntax

Visual Basic

```
Public Const InvalidBlockId As String
```

C#

```
public const string InvalidBlockId
```

C++

```
public:  
literal String^ InvalidBlockId
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As BlobListingDetails
```

▣ Syntax

Visual Basic

```
<FlagsAttribute> _  
Public Enumeration BlobListingDetails
```

C#

```
[FlagsAttribute]  
public enum BlobListingDetails
```

C++

```
[FlagsAttribute]  
public enum class BlobListingDetails
```

J#

JScript

▣ Members

Member name	Description
All	List all available committed blobs, uncommitted blobs, and snapshots, and return all metadata for those blobs.
Metadata	Retrieve blob metadata for each blob returned in the listing.
None	List only committed blobs, and do not return blob metadata.
Snapshots	List committed blobs and blob snapshots.
UncommittedBlobs	List committed and uncommitted blobs.

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Visual Basic

```
Dim instance As BlobProperties
```

☐ Syntax

Visual Basic

```
Public Class BlobProperties
```

C#

```
public class BlobProperties
```

C++

```
public ref class BlobProperties
```

J#

JScript

▣ **Inheritance Hierarchy**

System.Object

Microsoft.WindowsAzure.StorageClient.BlobProperties

☐ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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**

	Name	Description
	BlobProperties	Overloaded.

[Top](#)

Public Properties

	Name	Description
	BlobType	Gets the type of the blob.
	CacheControl	Gets or sets the cache-control value stored for the blob.
	ContentEncoding	Gets or sets the content-encoding value stored for the blob.
	ContentLanguage	Gets or sets the content-language value stored for the blob.
	ContentMD5	Gets or sets the content-MD5 value stored for the blob.
	ContentType	Gets or sets the content-type value stored for the blob.
	ETag	Gets the blob's ETag value.
	LastModifiedUtc	Gets the last-modified time for the blob, expressed as a UTC value.
	LeaseStatus	Gets the blob's lease status.
	Length	Gets the size of the blob, in bytes.

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☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[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

Name	Description
BlobProperties ()	Initializes a new instance of the BlobProperties class.
BlobProperties (BlobProperties)	Initializes a new instance of the BlobProperties class based on an existing instance.

▣ See Also

Reference

[BlobProperties Class](#)

[BlobProperties Members](#)

[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.]

Initializes a new instance of the [BlobProperties](#) class.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim other As BlobProperties
```

```
Dim instance As New BlobProperties(other)
```

▣ Syntax

Visual Basic

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

C#

```
public BlobProperties (  
    BlobProperties other  
)
```

C++

```
public:  
BlobProperties (  
    BlobProperties^ other  
)
```

J#

JScript

Parameters

other

The set of properties to clone.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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.]

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[BlobProperties Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



BlobProperties 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

	Name	Description
	BlobType	Gets the type of the blob.
	CacheControl	Gets or sets the cache-control value stored for the blob.
	ContentEncoding	Gets or sets the content-encoding value stored for the blob.
	ContentLanguage	Gets or sets the content-language value stored for the blob.
	ContentMD5	Gets or sets the content-MD5 value stored for the blob.
	ContentType	Gets or sets the content-type value stored for the blob.
	ETag	Gets the blob's ETag value.
	LastModifiedUtc	Gets the last-modified time for the blob, expressed as a UTC value.
	LeaseStatus	Gets the blob's lease status.
	Length	Gets the size of the blob, in bytes.

▣ 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

```
Dim instance As BlobProperties  
Dim value As BlobType  
  
value = instance.BlobType
```

▣ Syntax

Visual Basic

```
Public Property BlobType As BlobType
```

C#

```
public BlobType BlobType { get; }
```

C++

```
public:  
property BlobType BlobType {  
    BlobType get ();  
}
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As BlobProperties  
Dim value As String  
  
value = instance.CacheControl  
  
instance.CacheControl = value
```

▣ Syntax

Visual Basic

```
Public Property CacheControl As String
```

C#

```
public string CacheControl { get; set; }
```

C++

```
public:  
property String^ CacheControl {  
    String^ get ();  
    void set (String^ value);  
}
```

J#

JScript

Property Value

The blob's cache-control 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobProperties Class](#)

[BlobProperties Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

BlobProperties.ContentEncoding 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-encoding 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.ContentEncoding  
instance.ContentEncoding = value
```

▣ Syntax

Visual Basic

```
Public Property ContentEncoding As String
```

C#

```
public string ContentEncoding { get; set; }
```

C++

```
public:  
property String^ ContentEncoding {  
    String^ get ();  
    void set (String^ value);  
}
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As BlobProperties  
Dim value As String  
  
value = instance.ContentLanguage  
instance.ContentLanguage = value
```


▣ Syntax

Visual Basic

```
Public Property ContentLanguage As String
```

C#

```
public string ContentLanguage { get; set; }
```

C++

```
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 **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobProperties Class](#)

[BlobProperties Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

BlobProperties.ContentType 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-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

```
Public Property ContentType As String
```

C#

```
public string ContentType { get; set; }
```

C++

```
public:  
property String^ ContentType {  
    String^ get ();  
    void set (String^ value);  
}
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobProperties Class](#)

[BlobProperties Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

BlobProperties.ETag 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 ETag value.

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.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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobProperties Class](#)

[BlobProperties Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

BlobProperties.LeaseStatus 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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As BlobRequestOptions
```

☐ Syntax

Visual Basic

```
Public Class BlobRequestOptions
```

C#

```
public class BlobRequestOptions
```

C++

```
public ref class BlobRequestOptions
```

J#

JScript

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequestOptions Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



BlobRequestOptions 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 set of options that may be specified on a request.

The following tables list the members exposed by the [BlobRequestOptions](#) type.

▣ **Public Constructors**

	Name	Description
	BlobRequestOptions	Overloaded.

[Top](#)

☐ Public Properties

	Name	Description
	AccessCondition	Gets or sets the access condition for the request.
	BlobListingDetails	Gets or sets options for listing blobs.
	CopySourceAccessCondition	Gets or sets the access condition on the source blob, when the request is to copy a blob.
	DeleteSnapshotsOption	Gets or sets options for deleting snapshots when a blob is to be deleted.
	RetryPolicy	Gets or sets the retry policy for the request.
	Timeout	Gets or sets the service timeout for the request.
	UseFlatBlobListing	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.

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ See Also

Reference

[BlobRequestOptions Class](#)

[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.]

[-] Overload List

Name	Description
BlobRequestOptions ()	Initializes a new instance of the BlobRequestOptions class.
BlobRequestOptions (BlobRequestOptions)	Initializes a new instance of the BlobRequestOptions class based on an existing instance.

▣ 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

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

Usage

Visual Basic

```
Dim instance As New BlobRequestOptions
```

☐ Syntax

Visual Basic

```
Public Sub New
```

C#

```
public BlobRequestOptions ()
```

C++

```
public:  
BlobRequestOptions ()
```

J#

JScript

▣ **Remarks**

The default constructor initializes any fields to their default values.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim other As BlobRequestOptions
```

```
Dim instance As New BlobRequestOptions(other)
```

▣ Syntax

Visual Basic

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

C#

```
public BlobRequestOptions (  
    BlobRequestOptions other  
)
```

C++

```
public:  
BlobRequestOptions (  
    BlobRequestOptions^ other  
)
```

J#

JScript

Parameters

other

Type: [Microsoft.WindowsAzure.StorageClient.BlobRequestOptions](#)

The set of request options to clone.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequestOptions Class](#)

[BlobRequestOptions Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

BlobRequestOptions 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](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ 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

	Name	Description
	AccessCondition	Gets or sets the access condition for the request.
	BlobListingDetails	Gets or sets options for listing blobs.
	CopySourceAccessCondition	Gets or sets the access condition on the source blob, when the request is to copy a blob.
	DeleteSnapshotsOption	Gets or sets options for deleting snapshots when a blob is to be deleted.
	RetryPolicy	Gets or sets the retry policy for the request.
	Timeout	Gets or sets the service timeout for the request.
	UseFlatBlobListing	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.

▣ 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

```
Dim instance As BlobRequestOptions  
Dim value As AccessCondition  
  
value = instance.AccessCondition  
  
instance.AccessCondition = value
```

▣ Syntax

Visual Basic

```
Public Property AccessCondition As AccessCondition
```

C#

```
public AccessCondition AccessCondition { get; set; }
```

C++

```
public:  
property AccessCondition AccessCondition {  
    AccessCondition get ();  
    void set (AccessCondition value);  
}
```

J#

JScript

Property Value

Type: [Microsoft.WindowsAzure.StorageClient.AccessCondition](#)

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#

```
static void DeleteIfMatch(Uri blobEndpoint, string etag)
{
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAnonymous());

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

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

    //Specify the if-match condition. The blob will only be deleted if the ETag matches.
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

Visual Basic

```
Public Property BlobListingDetails As BlobListingDetails
```

C#

```
public BlobListingDetails BlobListingDetails { get; set; }
```

C++

```
public:  
property BlobListingDetails BlobListingDetails {  
    BlobListingDetails get ();  
    void set (BlobListingDetails value);  
}
```

J#

JScript

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 containerName)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

    //Get a reference to the container.
    CloudBlobContainer container = blobClient.GetContainerReference(containerName);

    //List blobs in this container using a flat list.
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ Usage

Visual Basic

```
Dim instance As BlobRequestOptions  
Dim value As AccessCondition  
  
value = instance.CopySourceAccessCondition  
instance.CopySourceAccessCondition = value
```

▣ Syntax

Visual Basic

```
Public Property CopySourceAccessCondition As AccessCondition
```

C#

```
public AccessCondition CopySourceAccessCondition { get
```

C++

```
public:  
property AccessCondition CopySourceAccessCondition {  
    AccessCondition get ();  
    void set (AccessCondition value);  
}
```

J#

JScript

Property Value

Type: [Microsoft.WindowsAzure.StorageClient.AccessCondition](#)

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.

C#

```
static void CopyOnLastModifiedCondition(Uri blobEndpoint,
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

    //Get a reference to the source blob.
    CloudBlob sourceBlob = blobClient.GetBlobReference(blobEndpoint, "sourceBlob");
    sourceBlob.FetchAttributes();

    //Get a reference to the destination blob.
    CloudBlob destBlob = blobClient.GetBlobReference(blobEndpoint, "destBlob");

    BlobRequestOptions options = new BlobRequestOptions();
    DateTime dt = new DateTime(2010, 9, 1, 0, 0, 0, DateTimeKind.Utc);
    options.LastModifiedCondition = LastModifiedConditionType.GreaterThan(dt);

    //Copy the source blob to the destination blob if condition is met
    try
    {
        //Copy the source blob to the destination blob
        options.CopySourceAccessCondition = AccessConditionType.LastModified;
        destBlob.CopyFromBlob(sourceBlob, options);
    }
    catch (StorageClientException e)
    {
        if (e.StatusCode == HttpStatusCode.PreconditionFailed)
        {
            Console.WriteLine("Access condition not met. Source blob: " +
                sourceBlob.Uri + " LastModified: " + sourceBlob.LastModified + " Destination blob: " +
                destBlob.Uri + " LastModified: " + destBlob.LastModified);
        }
    }
}
```

```

        " has not been modified since " + dt
    }
    else
    {
        Console.WriteLine("Error code: " + e.ErrorCode);
    }
}

//Get a reference to the destination blob.
destBlob = blobClient.GetBlobReference("mycontainer");
try
{
    //Copy source blob to destination blob if the
    options.CopySourceAccessCondition = AccessCondition.IfNoneMatch;
    destBlob.CopyFromBlob(sourceBlob, options);
}
catch (StorageClientException e)
{
    if (e.StatusCode == HttpStatusCode.PreconditionFailed)
    {
        Console.WriteLine("Access condition not met. " +
            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 [None](#).

An access condition may specify a condition that must be met for the copy 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:

- 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[BlobRequestOptions Class](#)

[BlobRequestOptions Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

BlobRequestOptions.DeleteSnapshotsOption 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 deleting snapshots when a blob is to be deleted.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As BlobRequestOptions  
Dim value As DeleteSnapshotsOption  
  
value = instance.DeleteSnapshotsOption  
instance.DeleteSnapshotsOption = value
```

▣ Syntax

Visual Basic

```
Public Property DeleteSnapshotsOption As DeleteSnapshotsOption
```

C#

```
public DeleteSnapshotsOption DeleteSnapshotsOption {
```

C++

```
public:  
property DeleteSnapshotsOption DeleteSnapshotsOption  
{  
    DeleteSnapshotsOption get ();  
    void set (DeleteSnapshotsOption value);  
}
```

J#

JScript

Property Value

Type: [Microsoft.WindowsAzure.StorageClient.DeleteSnapshotsOption](#)

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#

```
static void DeleteBlobsAndSnapshots(Uri blobEndpoint,
{
    CloudBlobClient blobClient = new CloudBlobClient

    //Get a reference to the container.
    CloudBlobContainer container = blobClient.GetCon

    //Indicate that any snapshots should be deleted.
    BlobRequestOptions options = new BlobRequestOpti
    options.DeleteSnapshotsOption = DeleteSnapshotsO

    //Specify a flat blob listing, so that only Cloud
    //The Delete method exists only on CloudBlob, no
    options.UseFlatBlobListing = true;

    //Enumerate through the blobs in the container,
    foreach (CloudBlob blob in container.ListBlobs(o
    {
        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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[BlobRequestOptions Class](#)

[BlobRequestOptions Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

BlobRequestOptions.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 request.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
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

Type: [System.Nullable](#)

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=https;BlobEndpoint=https://myaccount.blob.core.windows.net/");
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[BlobRequestOptions Class](#)

[BlobRequestOptions Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Setting Timeouts for Blob Service Operations](#)

BlobRequestOptions.UseFlatBlobListing 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 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#

```
public bool UseFlatBlobListing { get; set; }
```

C++

```
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**.

Example

The following code example lists blobs in both a virtual hierarchy and a flat listing, and shows some possible results.

C#

```
static void ListBlobsInVirtualDirectory(Uri blobEndpoint)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

    //List blobs in container 'mycontainer' beginning with 'a'
    //The results list only blobs directly beneath 'mycontainer'
    foreach (var blobItem in blobClient.ListBlobsWithPrefix("a"))
    {
        Console.WriteLine(blobItem.Uri);
    }

    //Hierarchical listing results:
    //http://storagesample.blob.core.windows.net/mycontainer/a
    //http://storagesample.blob.core.windows.net/mycontainer/a/

    Console.WriteLine();

    //List blobs in container 'mycontainer' beginning with 'a'
    //The results list all blobs beneath 'mycontainer'
    BlobRequestOptions options = new BlobRequestOptions();
    options.UseFlatBlobListing = true;
    foreach (var blobItem in blobClient.ListBlobsWithPrefix("a", options))
    {
        Console.WriteLine(blobItem.Uri);
    }

    //Flat listing results:
    //http://storagesample.blob.core.windows.net/mycontainer/a
```

```
//http://storagesample.blob.core.windows.net/myc  
//http://storagesample.blob.core.windows.net/myc  
//http://storagesample.blob.core.windows.net/myc  
//http://storagesample.blob.core.windows.net/myc  
//http://storagesample.blob.core.windows.net/myc  
}
```

☐ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[BlobRequestOptions Class](#)

[BlobRequestOptions Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

BlobStream 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 stream for reading and writing to a blob.

Namespace: Microsoft.WindowsAzure.StorageClient

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

Usage

Visual Basic

```
Dim instance As BlobStream
```

☐ Syntax

Visual Basic

```
Public MustInherit Class BlobStream  
    Inherits Stream
```

C#

```
public abstract class BlobStream : Stream
```

C++

```
public ref class BlobStream abstract : public Stream
```

J#

JScript

▣ **Inheritance Hierarchy**

System.Object

System.MarshalByRefObject

System.IO.Stream

Microsoft.WindowsAzure.StorageClient.BlobStream

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobStream Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



BlobStream 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 a stream for reading and writing to a blob.

The following tables list the members exposed by the [BlobStream](#) type.

▣ Protected Constructors

	Name	Description
	BlobStream	

[Top](#)

Public Properties

	Name	Description
	Blob	Gets a reference to the blob on which the stream is opened.
	BlockSize	This property is not currently supported.
	CanRead	(Inherited from Stream)
	CanSeek	(Inherited from Stream)
	CanTimeout	(Inherited from Stream)
	CanWrite	(Inherited from Stream)
	IntegrityControlVerificationEnabled	Gets a value indicating whether the signature of each block should be verified.
	Length	(Inherited from Stream)
	Position	(Inherited from Stream)
	ReadAheadSize	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 .
	ReadTimeout	(Inherited from Stream)
	WriteTimeout	(Inherited from Stream)

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Abort	Aborts the operation to write to the blob.
	BeginCommit	This operation is not currently supported.
	BeginRead	(Inherited from Stream)
	BeginWrite	(Inherited from Stream)
	Close	(Inherited from Stream)
	Commit	This operation is not currently supported.
	CopyTo	(Inherited from Stream)
	CopyTo	(Inherited from Stream)
	CreateObjRef	(Inherited from MarshalByRefObject)
	Dispose	(Inherited from Stream)
	EndCommit	This operation is not currently supported.
	EndRead	(Inherited from Stream)
	EndWrite	(Inherited from Stream)
	Equals	(Inherited from Object)
	Flush	(Inherited from Stream)
	GetHashCode	(Inherited from Object)
	GetLifetimeService	(Inherited from MarshalByRefObject)
	GetType	(Inherited from Object)
	InitializeLifetimeService	(Inherited from MarshalByRefObject)
	Read	(Inherited from Stream)
	ReadByte	(Inherited from Stream)
	Seek	(Inherited from Stream)
	SetLength	(Inherited from Stream)
	ToString	(Inherited from Object)
	Write	(Inherited from Stream)
	WriteByte	(Inherited from Stream)

[Top](#)

☐ Protected Methods

	Name	Description
	CreateWaitHandle	Obsolete. (Inherited from Stream)
	Dispose	(Inherited from Stream)
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from MarshalByRefObject)
	MemberwiseClone	(Inherited from Object)
	ObjectInvariant	(Inherited from Stream)

[Top](#)

▣ See Also

Reference

[BlobStream Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



BlobStream 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 [BlobStream](#) Class.

Namespace: Microsoft.WindowsAzure.StorageClient

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

Usage

Visual Basic

```
Dim instance As New BlobStream
```

Syntax

Visual Basic

```
Protected Sub New
```

C#

```
protected BlobStream ()
```

C++

```
protected:  
BlobStream ()
```

J#

JScript

▣ **Remarks**

The default constructor initializes any fields to their default values.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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.]

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Abort	Aborts the operation to write to the blob.
	BeginCommit	This operation is not currently supported.
	BeginRead	(Inherited from Stream)
	BeginWrite	(Inherited from Stream)
	Close	(Inherited from Stream)
	Commit	This operation is not currently supported.
	CopyTo	(Inherited from Stream)
	CopyTo	(Inherited from Stream)
	CreateObjRef	(Inherited from MarshalByRefObject)
	Dispose	(Inherited from Stream)
	EndCommit	This operation is not currently supported.
	EndRead	(Inherited from Stream)
	EndWrite	(Inherited from Stream)
	Equals	(Inherited from Object)
	Flush	(Inherited from Stream)
	GetHashCode	(Inherited from Object)
	GetLifetimeService	(Inherited from MarshalByRefObject)
	GetType	(Inherited from Object)
	InitializeLifetimeService	(Inherited from MarshalByRefObject)
	Read	(Inherited from Stream)
	ReadByte	(Inherited from Stream)
	Seek	(Inherited from Stream)
	SetLength	(Inherited from Stream)
	ToString	(Inherited from Object)
	Write	(Inherited from Stream)
	WriteByte	(Inherited from Stream)

☐ Protected Methods

	Name	Description
	CreateWaitHandle	Obsolete. (Inherited from Stream)
	Dispose	(Inherited from Stream)
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from MarshalByRefObject)
	MemberwiseClone	(Inherited from Object)
	ObjectInvariant	(Inherited from Stream)

▣ See Also

Reference

[BlobStream Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



BlobStream.Abort 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.]

Aborts the operation to write to the blob.

Namespace: Microsoft.WindowsAzure.StorageClient

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

Usage

Visual Basic

```
Dim instance As BlobStream  
  
instance.Abort
```

☐ Syntax

Visual Basic

```
Public Overridable Sub Abort
```

C#

```
public virtual void Abort ()
```

C++

```
public:  
virtual void Abort ()
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As BlobStream  
Dim callback As AsyncCallback  
Dim state As Object  
Dim returnValue As IAsyncResult  
  
returnValue = instance.BeginCommit(callback, state)
```

▣ Syntax

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  
)
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobStream Class](#)

[BlobStream Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

BlobStream.Commit 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)

Usage

Visual Basic

```
Dim instance As BlobStream  
  
instance.Commit
```

☐ Syntax

Visual Basic

```
Public Overridable Sub Commit
```

C#

```
public virtual void Commit ()
```

C++

```
public:  
virtual void Commit ()
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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)

▣ Usage

Visual Basic

```
Dim instance As BlobStream  
Dim asyncResult As IAsyncResult  
  
instance.EndCommit(asyncResult)
```

▣ Syntax

Visual Basic

```
Public Overridable Sub EndCommit ( _  
    asyncResult As IAsyncResult _  
)
```

C#

```
public virtual void EndCommit (  
    IAsyncResult asyncResult  
)
```

C++

```
public:  
virtual void EndCommit (  
    IAsyncResult^ asyncResult  
)
```

J#

JScript

Parameters

asyncResult

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobStream Class](#)

[BlobStream Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

BlobStream 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

	Name	Description
	Blob	Gets a reference to the blob on which the stream is opened.
	BlockSize	This property is not currently supported.
	CanRead	(Inherited from Stream)
	CanSeek	(Inherited from Stream)
	CanTimeout	(Inherited from Stream)
	CanWrite	(Inherited from Stream)
	IntegrityControlVerificationEnabled	Gets a value indicating whether the signature of each block should be verified.
	Length	(Inherited from Stream)
	Position	(Inherited from Stream)
	ReadAheadSize	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 .
	ReadTimeout	(Inherited from Stream)
	WriteTimeout	(Inherited from Stream)

▣ See Also

Reference

[BlobStream Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



BlobStream.Blob 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 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 CloudBlob
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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  
  
instance.BlockSize = value
```

▣ Syntax

Visual Basic

```
Public Overridable Property BlockSize As Long
```

C#

```
public virtual long BlockSize { get; set; }
```

C++

```
public:  
virtual property long long BlockSize {  
    long long get ();  
    void set (long long value);  
}
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Visual Basic

```
Dim instance As BlobStream  
Dim value As Boolean  
  
value = instance.IntegrityControlVerificationEnabled
```

▣ Syntax

Visual Basic

```
Public Overridable Property IntegrityControlVerificationEnabled As Boolean
```

C#

```
public virtual bool IntegrityControlVerificationEnabled { get; }
```

C++

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

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobStream Class](#)

[BlobStream Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

BlobType 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 type of a blob.

Namespace: Microsoft.WindowsAzure.StorageClient

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

Usage

Visual Basic

```
Dim instance As BlobType
```


☐ Syntax

Visual Basic

```
Public Enumeration BlobType
```

C#

```
public enum BlobType
```

C++

```
public enum class BlobType
```

J#

JScript

▣ Members

Member name	Description
BlockBlob	A block blob.
PageBlob	A page blob.
Unspecified	Not specified.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[Microsoft.WindowsAzure.StorageClient Namespace](#)

BlockListingFilter 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 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)

Usage

Visual Basic

```
Dim instance As BlockListingFilter
```

☐ Syntax

Visual Basic

```
Public Enumeration BlockListingFilter
```

C#

```
public enum BlockListingFilter
```

C++

```
public enum class BlockListingFilter
```

J#

JScript

▣ Members

Member name	Description
All	Both committed and uncommitted blocks.
Committed	Committed blocks.
Uncommitted	Uncommitted blocks.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Visual Basic

```
Public Class CloudBlob  
    Implements IListBlobItem
```

C#

```
public class CloudBlob : IListBlobItem
```

C++

```
public ref class CloudBlob : IListBlobItem
```

J#

JScript

▣ Inheritance Hierarchy

System.Object

Microsoft.WindowsAzure.StorageClient.CloudBlob

[Microsoft.WindowsAzure.StorageClient.CloudBlockBlob](#)

[Microsoft.WindowsAzure.StorageClient.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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



CloudBlob 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 Windows Azure blob.

The following tables list the members exposed by the [CloudBlob](#) type.

▣ **Public Constructors**

	Name	Description
	CloudBlob	Overloaded.

[Top](#)

☐ Public Properties

	Name	Description
	Attributes	Gets the BlobAttributes object that represents the blob's attributes.
	Container	Gets a CloudBlobContainer object representing the blob's container.
	Metadata	Gets the blob's user-defined metadata.
	Name	Gets the name of the blob.
	Parent	Gets the CloudBlobDirectory object representing the virtual parent directory for the blob.
	Properties	Gets the blob's system properties.
	ServiceClient	Gets the CloudBlobClient object that represents the Blob service.
	SnapshotTime	Gets the DateTime value that uniquely identifies the snapshot, if this blob is a snapshot.
	ToBlockBlob	Gets a CloudBlockBlob object based on this blob.
	ToPageBlob	Gets a CloudPageBlob object based on this blob.
	Uri	Gets the URI that identifies the blob.

[Top](#)

☐ **Public Methods (see also [Protected Methods](#))**

	Name	Description
	BeginCopyFromBlob	Overloaded. Begins an asynchronous operation to copy another blob's contents, properties, and metadata to the blob referenced by this CloudBlob object.
	BeginCreateSnapshot	Overloaded. Begins an asynchronous operation to create a snapshot of the blob.
	BeginDelete	Overloaded. Begins an asynchronous operation to delete the blob.
	BeginDeleteIfExists	Overloaded.
	BeginDownloadToStream	Overloaded. Begins an asynchronous operation to download the contents of a blob to a stream.
	BeginFetchAttributes	Overloaded. Begins an asynchronous operation to populate the blob's properties and metadata.
	BeginSetMetadata	Overloaded. Begins an asynchronous operation to update the blob's metadata.
	BeginSetProperties	Overloaded.
	BeginUploadFromStream	Overloaded.
	CopyFromBlob	Overloaded.
	CreateSnapshot	Overloaded.
	Delete	Overloaded.
	DeleteIfExists	Overloaded.
	DownloadByteArray	Overloaded. Downloads the blob's contents as an array of bytes.
	DownloadText	Overloaded.
	DownloadToFile	Overloaded.
	DownloadToStream	Overloaded.
	EndCopyFromBlob	Ends an asynchronous operation to copy a blob's contents, properties, and metadata to a new blob.

 EndCreateSnapshot	Ends an asynchronous operation to create a snapshot of the blob.
 EndDelete	Ends an asynchronous operation to delete the blob.
 EndDeleteIfExists	Ends an asynchronous operation to delete the blob if it exists.
 EndDownloadToStream	Ends an asynchronous operation to download the contents of a blob to a stream.
 EndFetchAttributes	Ends an asynchronous operation to populate the blob's properties and metadata.
 EndSetMetadata	Ends an asynchronous operation to update the blob's metadata.
 EndSetProperties	Ends an asynchronous operation to update the blob's properties.
 EndUploadFromStream	Ends an asynchronous operation to upload a blob from a stream.
 Equals	(Inherited from Object)
 FetchAttributes	Overloaded.
 GetHashCode	(Inherited from Object)
 GetSharedAccessSignature	Overloaded.
 GetType	(Inherited from Object)
 OpenRead	Overloaded.
 OpenWrite	Overloaded.
 SetMetadata	Overloaded.
 SetProperties	Overloaded.
 ToString	(Inherited from Object)
 UploadByteArray	Overloaded.
 UploadFile	Overloaded.
 UploadFromStream	Overloaded.
 UploadText	Overloaded.

[Top](#)

▣ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)
	<u>ParseSizeAndLastModified</u>	Parses values from a Blob service response. This method is protected.

[Top](#)

▣ 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

Name	Description
CloudBlob (CloudBlob)	Initializes a new instance of the CloudBlob class based on an existing instance.
CloudBlob (String)	Initializes a new instance of the CloudBlob class using an absolute URI to the blob.
CloudBlob (String, CloudBlobClient)	Initializes a new instance of the CloudBlob class using a relative URI to the blob.
CloudBlob (String, StorageCredentials)	Initializes a new instance of the CloudBlob class using an absolute URI to the blob and a set of credentials.
CloudBlob (String, Nullable, CloudBlobClient)	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.
CloudBlob (String, Nullable, StorageCredentials)	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.

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlob Constructor (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.]

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

```
Dim cloudBlob As CloudBlob  
  
Dim instance As New CloudBlob(cloudBlob)
```

▣ Syntax

Visual Basic

```
Public Sub New ( _  
    cloudBlob As CloudBlob _  
)
```

C#

```
public CloudBlob (  
    CloudBlob cloudBlob  
)
```

C++

```
public:  
CloudBlob (  
    CloudBlob^ cloudBlob  
)
```

J#

JScript

Parameters

cloudBlob

Type: [Microsoft.WindowsAzure.StorageClient.CloudBlob](#)

An existing reference to a blob.

▣ Example

The following code example creates a reference to an anonymously-accessible blob from another reference to the same blob.

C#

```
static void AccessPublicBlob2(String blobEndpoint)
{
    // Create a reference to the blob with the specific
    // For example:
    // "http://storagesample.blob.core.windows.net/myC
    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 tl
    try
    {
        Console.WriteLine(publicBlob2.DownloadText());
    }
    catch (StorageClientException e)
    {
        Console.WriteLine("Error code: ", e.ErrorCode)
        Console.WriteLine("Error message: ", e.Message
    }
}
```

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ Usage

Visual Basic

```
Dim blobAbsoluteUri As String
```

```
Dim instance As New CloudBlob(blobAbsoluteUri)
```

▣ Syntax

Visual Basic

```
Public Sub New ( _  
    blobAbsoluteUri As String _  
)
```

C#

```
public CloudBlob (  
    string blobAbsoluteUri  
)
```

C++

```
public:  
CloudBlob (  
    String^ blobAbsoluteUri  
)
```

J#

JScript

Parameters

blobAbsoluteUri

Type: [System.String](#)

The absolute URI to the blob.

▣ Example

The following code example creates a reference to an anonymously-accessible blob using its absolute URI.

C#

```
static void AccessPublicBlob(String blobEndpoint)
{
    // For example:
    // "http://storagesample.blob.core.windows.net/myC
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ Usage

Visual Basic

```
Dim blobUri As String  
Dim serviceClient As CloudBlobClient  
  
Dim instance As New CloudBlob(blobUri, serviceClient)
```

▣ Syntax

Visual Basic

```
Public Sub New ( _  
    blobUri As String, _  
    serviceClient As CloudBlobClient _  
)
```

C#

```
public CloudBlob (  
    string blobUri,  
    CloudBlobClient serviceClient  
)
```

C++

```
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

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 using a relative URI to the blob and an existing blob client.

C#

```
static void WriteBlobMetadata3(Uri blobEndpoint, string str)
{
    // Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint)

    // Create a CloudBlob reference.
    CloudBlob blob = new CloudBlob("mycontainer/myblob", 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
    BlobRequestOptions options = new BlobRequestOptions()

    options.Timeout = TimeSpan.FromSeconds(20.0);

    // Write the metadata to the blob.
    blob.SetMetadata(options);
}
```

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ Usage

Visual Basic

```
Dim blobAbsoluteUri As String  
Dim credentials As StorageCredentials  
  
Dim instance As New CloudBlob(blobAbsoluteUri, creden
```

▣ 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 text)
{
    // Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint)

    CloudBlob blob = blobClient.GetBlobReference("myblob");

    // Upload text to the blob, which will create it if it doesn't exist
    blob.UploadText("a text blob");

    // Create a shared access signature to use for downloading the blob
    // Specify an access policy that indicates the permissions granted by the signature
    string signature = blob.GetSharedAccessSignature(
    {
        // If valid immediately, don't set SharedAccessStart time
        // SharedAccessStartTime = DateTime.Now,
        // Specify the expiration time for the signature
        SharedAccessExpiryTime = DateTime.Now.AddMinutes(10),

        // Specify the permissions granted by the signature
        Permissions = SharedAccessPermissions.Write
    });

    // Get a reference to the blob using the shared access signature
    CloudBlob blobSAS = new CloudBlob("http://storageaccount.blob.core.windows.net/container/myblob?sig=" + signature);

    // Update the contents of the blob, then read the contents back
    blobSAS.UploadText("a text blob updated using a shared access signature");

    Console.WriteLine(blobSAS.DownloadText());
}
```

}

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ 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

```
Public Sub New ( _  
    blobUri As String, _  
    snapshotTime As Nullable(Of DateTime), _  
    serviceClient As CloudBlobClient _  
)
```

C#

```
public CloudBlob (  
    string blobUri,  
    Nullable<DateTime> snapshotTime,  
    CloudBlobClient serviceClient  
)
```

C++

```
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, timestamp of an existing snapshot, and a reference to an existing blob client.

C#

```
static void CreateBlobSnapshot(Uri blobEndpoint, string containerName, string blobName)
{
    // Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint);

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

    // Take a snapshot of the blob.
    CloudBlob snapshot = blob.CreateSnapshot();

    // Get the snapshot timestamp.
    DateTime timestamp = (DateTime)snapshot.Attributes["x-ms-blob-timestamp"];

    // Use the timestamp to get a second reference to the snapshot.
    CloudBlob snapshot2 = new CloudBlob("mycontainer", blobName + snapshot.Timestamp.ToString());

    // Write out the snapshot URI.
    Console.WriteLine(snapshot2.Uri);
}
```


▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ Usage

Visual Basic

```
Dim blobAbsoluteUri As String  
Dim snapshotTime As Nullable(Of DateTime)  
Dim credentials As StorageCredentials  
  
Dim instance As New CloudBlob(blobAbsoluteUri, snapsl
```

▣ Syntax

Visual Basic

```
Public Sub New ( _  
    blobAbsoluteUri As String, _  
    snapshotTime As Nullable(Of DateTime), _  
    credentials As StorageCredentials _  
)
```

C#

```
public CloudBlob (  
    string blobAbsoluteUri,  
    Nullable<DateTime> snapshotTime,  
    StorageCredentials credentials  
)
```

C++

```
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.

▣ Example

The following code example creates a new blob snapshot using a relative URI, timestamp of an existing snapshot, and storage credentials.

C#

```
static void CreateBlobSnapshot2(Uri blobEndpoint, st
{
    // Use the account name and key to create storage
    StorageCredentialsAccountAndKey storageCredential

    // Create a service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient

    // Get a reference to a blob.
    CloudBlob blob = blobClient.GetBlobReference("myc

    // Create a snapshot of the blob.
    CloudBlob snapshot = blob.CreateSnapshot();

    // Get the snapshot timestamp.
    DateTime timestamp = (DateTime)snapshot.Attribut

    // Use the timestamp to get a second reference to
    CloudBlob snapshot2 = new CloudBlob("mycontainer,

    // Write out the snapshot URI.
    Console.WriteLine(snapshot2.Uri);
}
```


▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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](#))**

	Name	Description
	BeginCopyFromBlob	Overloaded. Begins an asynchronous operation to copy another blob's contents, properties, and metadata to the blob referenced by this CloudBlob object.
	BeginCreateSnapshot	Overloaded. Begins an asynchronous operation to create a snapshot of the blob.
	BeginDelete	Overloaded. Begins an asynchronous operation to delete the blob.
	BeginDeleteIfExists	Overloaded.
	BeginDownloadToStream	Overloaded. Begins an asynchronous operation to download the contents of a blob to a stream.
	BeginFetchAttributes	Overloaded. Begins an asynchronous operation to populate the blob's properties and metadata.
	BeginSetMetadata	Overloaded. Begins an asynchronous operation to update the blob's metadata.
	BeginSetProperties	Overloaded.
	BeginUploadFromStream	Overloaded.
	CopyFromBlob	Overloaded.
	CreateSnapshot	Overloaded.
	Delete	Overloaded.
	DeleteIfExists	Overloaded.
	DownloadByteArray	Overloaded. Downloads the blob's contents as an array of bytes.
	DownloadText	Overloaded.
	DownloadToFile	Overloaded.

 DownloadToStream	Overloaded.
 EndCopyFromBlob	Ends an asynchronous operation to copy a blob's contents, properties, and metadata to a new blob.
 EndCreateSnapshot	Ends an asynchronous operation to create a snapshot of the blob.
 EndDelete	Ends an asynchronous operation to delete the blob.
 EndDeleteIfExists	Ends an asynchronous operation to delete the blob if it exists.
 EndDownloadToStream	Ends an asynchronous operation to download the contents of a blob to a stream.
 EndFetchAttributes	Ends an asynchronous operation to populate the blob's properties and metadata.
 EndSetMetadata	Ends an asynchronous operation to update the blob's metadata.
 EndSetProperties	Ends an asynchronous operation to update the blob's properties.
 EndUploadFromStream	Ends an asynchronous operation to upload a blob from a stream.
 Equals	(Inherited from Object)
 FetchAttributes	Overloaded.
 GetHashCode	(Inherited from Object)
 GetSharedAccessSignature	Overloaded.
 GetType	(Inherited from Object)
 OpenRead	Overloaded.
 OpenWrite	Overloaded.
 SetMetadata	Overloaded.
 SetProperties	Overloaded.
 ToString	(Inherited from Object)
 UploadByteArray	Overloaded.
 UploadFile	Overloaded.
 UploadFromStream	Overloaded.
 UploadText	Overloaded.

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)
	<u>ParseSizeAndLastModified</u>	Parses values from a Blob service response. This method is protected.

▣ 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

Name	Description
CloudBlob.BeginCopyFromBlob (CloudBlob, BlobRequestOptions, AsyncCallback, Object)	Begins an asynchronous operation to copy another blob's contents, properties, and metadata to the blob referenced by this CloudBlob object.
CloudBlob.BeginCopyFromBlob (CloudBlob, AsyncCallback, Object)	Begins an asynchronous operation to copy a blob's contents, properties, and metadata to a new blob.

▣ 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

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

▣ Usage

Visual Basic

```
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:
```

▣ Syntax

Visual Basic

```
Public Function BeginCopyFromBlob ( _  
    source As CloudBlob, _  
    options As BlobRequestOptions, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginCopyFromBlob (  
    CloudBlob source,  
    BlobRequestOptions options,  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
public:  
IAsyncResult^ BeginCopyFromBlob (  
    CloudBlob^ source,  
    BlobRequestOptions^ options,  
    AsyncCallback^ callback,  
    Object^ state  
)
```

J#

JScript

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.

▣ Example

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 a
{
    // Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient

    // Create a new blob by uploading a file.
    CloudBlob sourceBlob = blobClient.GetBlobReference
    sourceBlob.UploadFile("C:\\somefile.txt");

    // Get a reference to the destination blob.
    CloudBlob destBlob = blobClient.GetBlobReference

    // Set options for the request.
    // E.g., Copy only if the source blob has changed
    System.TimeSpan interval = new TimeSpan(7, 0, 0,
    BlobRequestOptions options = new BlobRequestOpti
    options.CopySourceAccessCondition = AccessCondit

    destBlob.BeginCopyFromBlob(sourceBlob, options, (

}

static void CopyBlobCallback(IAsyncResult result)
{
    CloudBlob blobDest = (CloudBlob)result.AsyncStat

    // 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Working with Snapshots](#)

CloudBlob.BeginCopyFromBlob Method (CloudBlob, 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 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

```
Dim instance As CloudBlob  
Dim source As CloudBlob  
Dim callback As AsyncCallback  
Dim state As Object  
Dim returnValue As IAsyncResult  
  
returnValue = instance.BeginCopyFromBlob(source, cal.
```

▣ 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

Type: [Microsoft.WindowsAzure.StorageClient.CloudBlob](#)

The source blob.

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 copies a blob only if an access condition on the source blob is met.

C#

```
static void CopyBlobAsync(Uri blobEndpoint, string accessCondition)
{
    // Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

    // Create a new blob by uploading a file.
    CloudBlob sourceBlob = blobClient.GetBlobReference(blobEndpoint.ToString());
    sourceBlob.UploadFile("C:\\somefile.txt");

    // Get a reference to the destination blob.
    CloudBlob destBlob = blobClient.GetBlobReference(blobEndpoint.ToString());
    destBlob.BeginCopyFromBlob(sourceBlob, CopyBlobCallback, null);
}

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

Name	Description
CloudBlob.BeginCreateSnapshot(BlobRequestOptions, AsyncCallback, Object)	Begins an asynchronous operation to create a snapshot of the blob, using a conditional request based on the BlobRequestOptions that you specify.
CloudBlob.BeginCreateSnapshot(AsyncCallback, Object)	Begins an asynchronous operation to create a snapshot of the blob.
CloudBlob.BeginCreateSnapshot(NameValueCollection, BlobRequestOptions, AsyncCallback, Object)	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.

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Working with Snapshots](#)

[Working with Snapshots](#)

CloudBlob.BeginCreateSnapshot 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 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

```
Dim instance As CloudBlob  
Dim options As BlobRequestOptions  
Dim callback As AsyncCallback  
Dim state As Object  
Dim returnValue As IAsyncResult  
  
returnValue = instance.BeginCreateSnapshot(options, (
```

▣ Syntax

Visual Basic

```
Public Function BeginCreateSnapshot ( _  
    options As BlobRequestOptions, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAAsyncResult
```

C#

```
public IAAsyncResult BeginCreateSnapshot (   
    BlobRequestOptions options,   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
public:   
IAAsyncResult^ 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#

```
private void Eg_BeginCreateSnapshot2(Uri blobEndpoint)
{
    // Create a service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
            new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Create a blob reference.
    CloudBlob myBlob = blobClient.GetBlobReference("myblob");

    // Use the blob reference to create and initialize the blob.
    myBlob.UploadFile("C:\\somefile.txt");

    // Create another blob reference; this one to hold the snapshot.
    CloudBlob snapShotBlob = new CloudBlob(myBlob);

    // Set options for the request.
    // E.g., Create a snapshot only if the blob has not been modified in the
    System.TimeSpan interval = new TimeSpan(7, 0, 0);
    BlobRequestOptions options = new BlobRequestOptions(interval);
    options.CopySourceAccessCondition = AccessCondition.IfNotModified;

    snapShotBlob.BeginCreateSnapshot(options, Eg_CreateSnapshotCallback);
}

private void Eg_CreateSnapshotCallback(IAsyncResult result)
{
    CloudBlob blobSnapShot = (CloudBlob)result.AsyncResult;
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Working with Snapshots](#)

[Working with Snapshots](#)

CloudBlob.BeginCreateSnapshot 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 create a snapshot of the blob.

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.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.

```
C#

static void Eg_BeginCreateSnapshot1(Uri blobEndpoint,
{
    // Create a service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
            new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Create a blob reference.
    CloudBlob myBlob = blobClient.GetBlobReference("myblob");

    // Use the blob reference to create and initialize the blob.
    myBlob.UploadFile("C:\\somefile.txt");

    // Create another blob reference; this one for the snapshot.
    CloudBlob snapShotBlob = new CloudBlob(myBlob);

    // Create the snapshot—asynchronously.
    snapShotBlob.BeginCreateSnapshot(Eg_CreateSnapshotCallback, null);
}

private void Eg_CreateSnapshotCallback(IAsyncResult asyncResult)
{
    CloudBlob blobSnapShot = (CloudBlob)result.AsyncResult;
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ 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

```
Public Function BeginCreateSnapshot ( _  
    metadata As NameValueCollection, _  
    options As BlobRequestOptions, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginCreateSnapshot (   
    NameValueCollection metadata,   
    BlobRequestOptions options,   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
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.

C#

```
private void Eg_BeginCreateSnapshot3(Uri blobEndpoint)
{
    // Create a service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
            new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Create a blob reference.
    CloudBlob myBlob = blobClient.GetBlobReference("myblob");

    // Use the blob reference to create and initialize the blob.
    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();

    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 a certain
    System.TimeSpan interval = new TimeSpan(7, 0, 0);
    BlobRequestOptions options = new BlobRequestOptions(interval);
}
```

```
options.CopySourceAccessCondition = AccessCondit  
snapShotBlob.BeginCreateSnapshot(ssMData, option  
}  
private void Eg_CreateSnapshotCallback(IAsyncResult  
{  
    CloudBlob blobSnapShot = (CloudBlob)result.Async  
    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](#).

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

Name	Description
CloudBlob.BeginDelete(BlobRequestOptions, AsyncCallback, Object)	Begins an asynchronous operation to delete a blob, using a conditional request based on the BlobRequestOptions that you specify.
CloudBlob.BeginDelete(AsyncCallback, Object)	Begins an asynchronous operation to delete the blob.

▣ See Also

Reference

[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

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.BeginDelete(options, callback,
```

▣ Syntax

Visual Basic

```
Public Function BeginDelete ( _  
    options As BlobRequestOptions, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAAsyncResult
```

C#

```
public IAAsyncResult 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.

▣ 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 deletes it — using a conditional, asynchronous request.

C#

```
static void Eg_BeginDeleteBlob2(Uri blobEndpoint, string blobName)
{
    // Create a service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
            new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Create a blob reference.
    CloudBlob myBlob = blobClient.GetBlobReference(blobName);

    // Use the blob reference to create and initialize the blob.
    myBlob.UploadFile("C:\\somefile.txt");

    // Set options for the request.
    BlobRequestOptions options = new BlobRequestOptions();

    // If the blob is a snapshot, then Delete would fail.
    options.DeleteSnapshotsOption = DeleteSnapshotsOption.DeleteSnapshotsOnly;

    // Delete the blob only if it's contents have changed.
    System.TimeSpan interval = new TimeSpan(7, 0, 0);
    options.CopySourceAccessCondition = AccessCondition.IfChanged(interval);

    // Delete the blob using an asynchronous call.
    myBlob.BeginDelete(options, Eg_DeleteCallback, myBlob);
}

private void Eg_DeleteCallback(IAsyncResult result)
{
}
```



```
CloudBlob blobToDelete = (CloudBlob)result.Async!  
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlob.BeginDelete 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.

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.BeginDelete(callback, state)
```


▣ Syntax

Visual Basic

```
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.

▣ 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 deletes it — using an asynchronous request.

C#

```
static void Eg_BeginDeleteBlob1(Uri blobEndpoint, string blobName)
{
    // Create a service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
            new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Create a blob reference.
    CloudBlob myBlob = blobClient.GetBlobReference(blobName);

    // Use the blob reference to create and initialize the blob.
    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**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ 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.]

☐ Overload List

Name	Description
CloudBlob.BeginDeleteIfExists(BlobRequestOptions, AsyncCallback, Object)	Begins an asynchronous operation to delete the blob if it exists, using a conditional request based on the BlobRequestOptions that you specify.
CloudBlob.BeginDeleteIfExists(AsyncCallback, Object)	Begins an asynchronous operation to delete the blob if it exists.

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlob.BeginDeleteIfExists 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 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, (
```

▣ Syntax

Visual Basic

```
Public Function BeginDeleteIfExists ( _  
    options As BlobRequestOptions, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginDeleteIfExists (   
    BlobRequestOptions options,   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
public:   
IAsyncResult^ BeginDeleteIfExists (   
    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 deletes a blob if it exists—and it does it specifying a request option, and using an asynchronous call.

C#

```
private void Eg_BeginDeleteBlobIfExists2(Uri blobEndpoint,
{
    // Create a service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
            new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Create a blob reference.
    CloudBlob myBlob = blobClient.GetBlobReference("myblob");

    // Use the blob reference to create and initialize the blob.
    myBlob.UploadFile("C:\\somefile.txt");

    // Set options for the request.
    BlobRequestOptions options = new BlobRequestOptions();

    // If the blob is a snapshot, then Delete would fail.
    options.DeleteSnapshotsOption = DeleteSnapshotsOption.Delete;

    // Delete the blob if it exists, using an asynchronous call.
    myBlob.BeginDeleteIfExists(options, Eg_DeleteIfExistsCallback, null);
}

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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.BeginDeleteIfExists(callback,
```

▣ Syntax

Visual Basic

```
Public Function BeginDeleteIfExists ( _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginDeleteIfExists (   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
public:   
IAsyncResult^ BeginDeleteIfExists (   
    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 deletes a blob if it exists, and it does it using an asynchronous call.

C#

```
private void Eg_BeginDeleteBlobIfExists2(Uri blobEndpoint,
{
    // Create a service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
            new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Create a blob reference.
    CloudBlob myBlob = blobClient.GetBlobReference("myblob");

    // Use the blob reference to create and initialize the blob.
    myBlob.UploadFile("C:\\\\somefile.txt");

    // Delete the blob if it exists, using an asynchronous call.
    myBlob.BeginDeleteIfExists(Eg_DeleteIfExistsCallback, null);
}

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

Name	Description
CloudBlob.BeginDownloadToStream (Stream, BlobRequestOptions, AsyncCallback, Object)	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.
CloudBlob.BeginDownloadToStream (Stream, AsyncCallback, Object)	Begins an asynchronous operation to download the contents of a blob to a stream.

▣ 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

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

▣ 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  
  
returnValue = instance.BeginDownloadToStream(target,
```

▣ Syntax

Visual Basic

```
Public Function BeginDownloadToStream ( _  
    target As Stream, _  
    options As BlobRequestOptions, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginDownloadToStream (  
    Stream target,  
    BlobRequestOptions options,  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
public:  
IAsyncResult^ BeginDownloadToStream (  
    Stream^ target,  
    BlobRequestOptions^ options,  
    AsyncCallback^ callback,  
    Object^ state  
)
```

J#

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#

```
static void DownloadBlobToStreamAsync(Uri blobEndpoint)
{
    // Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

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

    // 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:\\\\appendto.txt", FileMode.Append);
    blob.BeginDownloadToStream(stream, options, DownloadCallback);
}

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();
}
```

```
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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)

[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.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

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

```
Public Function BeginDownloadToStream ( _  
    target As Stream, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginDownloadToStream (  
    Stream target,  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
public:  
IAsyncResult^ 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.

C#

```
static void DownloadBlobToStreamAsync(Uri blobEndpoint,
{
    // Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

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

    // Download the blob to a file stream.
    FileStream stream = new FileStream("C:\\\\appendto.txt", FileMode.Append);
    blob.BeginDownloadToStream(stream, DownloadBlobToStreamCallback);
}

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

Name	Description
CloudBlob.BeginFetchAttributes(BlobRequestOptions, AsyncCallback, Object)	Begins an asynchronous operation to populate the blob's properties and metadata, using a conditional request based on the BlobRequestOptions that you specify.
CloudBlob.BeginFetchAttributes(AsyncCallback, Object)	Begins an asynchronous operation to populate the blob's properties and metadata.

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlob.BeginFetchAttributes 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 populate the 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

```
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

Visual Basic

```
Public Function BeginFetchAttributes ( _  
    options As BlobRequestOptions, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAAsyncResult
```

C#

```
public IAAsyncResult BeginFetchAttributes (   
    BlobRequestOptions options,   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
public:   
IAAsyncResult^ BeginFetchAttributes (   
    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 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 its properties and metadata using an asynchronous call—specifying request options.

C#

```
private void Eg_AsyncListBlobPropertiesAndMetadata2(I
{
    // Create a service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
            new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Create a blob reference.
    CloudBlob myBlob = blobClient.GetBlobReference("myBlob");

    // Write text to the blob.
    myBlob.UploadText("One man that has a mind and knowledge is better than two who have hands but no brains.");

    // 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("myBlob2");

    // Set options for the request. E.g., Specify an asynchronous request.
    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.
IAsyncResult aResult = myBlob2.BeginFetchAttributes(0, null, null, null);
```

```
// The properties and metadata won't appear on the console
// until the asynchronous call has completed.
while (!aResult.IsCompleted)
{
    // The calling thread can perform other work.
    Thread.Sleep(100);
}
```

```
// Verify that myBlob2's properties and metadata are available.
Console.WriteLine("Blob:\t" + myBlob2.Attributes);
Console.WriteLine();
```

```
Console.WriteLine("Blob properties:");
Console.WriteLine("BlobType:\t\t" + myBlob2.Attributes[BlobType]);
Console.WriteLine("LastModifiedUTC:\t" + myBlob2.Attributes[BlobLastModified]);
Console.WriteLine("ETag:\t" + myBlob2.Attributes[BlobETag]);
Console.WriteLine();
```

```
//Enumerate the blob's metadata.
foreach (var metadataKey in myBlob2.Metadata.Keys)
{
    Console.WriteLine("Metadata name:\t" + metadataKey);
    Console.WriteLine("Metadata value:\t" + myBlob2.Metadata[metadataKey]);
}
```

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlob.BeginFetchAttributes 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 populate the blob's properties and 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.BeginFetchAttributes(callback,
```

▣ Syntax

Visual Basic

```
Public Function BeginFetchAttributes ( _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginFetchAttributes (   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
public:   
IAsyncResult^ BeginFetchAttributes (   
    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 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 its properties and metadata using an asynchronous call.

C#

```
private void Eg_AsyncListBlobPropertiesAndMetadata2(I
{
    // Create a service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
            new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Create a blob reference.
    CloudBlob myBlob = blobClient.GetBlobReference("myBlob");

    // Write text to the blob.
    myBlob.UploadText("One man that has a mind and knows his own mind.");

    // 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("myBlob2");

    // At this point, myBlob2 has neither system properties nor user-defined metadata.
    // Populate the blob's attributes.
    // Use a Result to determine when this asynchronous operation completes.
    IAsyncResult aResult = myBlob2.BeginFetchAttributes(null, null, null, null);
}
```



```

// The properties and metadata won't appear on
// until the asynchronous call has completed.
while (!aResult.IsCompleted)
{
    // The calling thread can perform other work
    Thread.Sleep(100);
}

// Verify that myBlob2's properties and metadata
Console.WriteLine("Blob:\t" + myBlob2.Attributes);
Console.WriteLine();

Console.WriteLine("Blob properties:");
Console.WriteLine("BlobType:\t\t" + myBlob2.Attributes.BlobType);
Console.WriteLine("LastModifiedUTC:\t" + myBlob2.Attributes.LastModifiedUTC);
Console.WriteLine("ETag:\t" + myBlob2.Attributes.ETag);
Console.WriteLine();

//Enumerate the blob's metadata.
foreach (var metadataKey in myBlob2.Metadata.Keys)
{
    Console.WriteLine("Metadata name:\t" + metadataKey);
    Console.WriteLine("Metadata value:\t" + myBlob2.Metadata[metadataKey]);
}

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

Name	Description
CloudBlob.BeginSetMetadata(BlobRequestOptions, AsyncCallback, Object)	Begins an asynchronous operation to update the blob's metadata, using a conditional request based on the BlobRequestOptions that you specify.
CloudBlob.BeginSetMetadata(AsyncCallback, Object)	Begins an asynchronous operation to update the blob's metadata.

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Implementing the CLR Asynchronous Programming Model](#)

CloudBlob.BeginSetMetadata 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 update the blob's 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

```
Dim instance As CloudBlob  
Dim options As BlobRequestOptions  
Dim callback As AsyncCallback  
Dim state As Object  
Dim returnValue As IAsyncResult  
  
returnValue = instance.BeginSetMetadata(options, cal.
```

▣ Syntax

Visual Basic

```
Public Function BeginSetMetadata ( _  
    options As BlobRequestOptions, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAAsyncResult
```

C#

```
public IAAsyncResult 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.

■ Example

The following code example creates an instance of a blob in the cloud, and then populates its metadata using an asynchronous call—specifying request options:

C#

```
private void Eg_BeginSetMetadata2(Uri blobEndpoint, string blobName)
{
    // Create a service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
            new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Create a blob reference.
    CloudBlob myBlob = blobClient.GetBlobReference(blobName);

    // Write text to the blob.
    myBlob.UploadText("One man that has a mind and knows his own mind.");

    // Define metadata for the blob.
    myBlob.Metadata["category"] = "quotes";
    myBlob.Metadata["owner"] = "George Bernard Shaw";

    // Set options for the request. E.g., Specify an
    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
    IAsyncResult aResult = myBlob.BeginSetMetadata(options, null, null);

    // The metadata won't appear on the blob until the operation is complete.
    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);
        Console.WriteLine("Metadata value:\t" + myBlob.Metadata[metadataKey]);
    }
}

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Implementing the CLR Asynchronous Programming Model](#)

CloudBlob.BeginSetMetadata 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 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

```
Public Function BeginSetMetadata ( _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginSetMetadata (   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
public:   
IAsyncResult^ BeginSetMetadata (   
    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 an instance of a blob in the cloud, and then populates its metadata using an asynchronous call.

C#

```
private void Eg_BeginSetMetadata1(Uri blobEndpoint, string blobName)
{
    // Create a service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
            new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Create a blob reference.
    CloudBlob myBlob = blobClient.GetBlobReference(blobName);

    // Write text to the blob.
    myBlob.UploadText("One man that has a mind and knows his own mind.");

    // 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 completes.
    IAsyncResult aResult = myBlob.BeginSetMetadata(Eg_BeginSetMetadata1, null);

    // The metadata won't appear on the blob until the 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);
            Console.WriteLine("Metadata value:\t" + myBlob.Metadata[metadataKey]);
        }
    }

    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

Name	Description
CloudBlob.BeginSetProperties(BlobRequestOptions, AsyncCallback, Object)	Begins an asynchronous operation to update the blob's properties, using a conditional request based on the BlobRequestOptions that you specify.
CloudBlob.BeginSetProperties(AsyncCallback, Object)	Begins an asynchronous operation to update the blob's properties.

▣ 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

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.BeginSetProperties(options, c
```

▣ 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**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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.BeginSetProperties(callback, :
```

▣ Syntax

Visual Basic

```
Public Function BeginSetProperties ( _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginSetProperties (  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
public:  
IAsyncResult^ BeginSetProperties (  
    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 **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlob.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.]

☐ Overload List

Name	Description
CloudBlob.BeginUploadFromStream (Stream, BlobRequestOptions, AsyncCallback, Object)	Begins an asynchronous operation to upload a blob from a stream, using a conditional request based on the BlobRequestOptions that you specify.
CloudBlob.BeginUploadFromStream (Stream, AsyncCallback, Object)	Begins an asynchronous operation to upload a blob from a stream.

▣ 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

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

▣ 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

```
Public Overridable Function BeginUploadFromStream ( _  
    source As Stream, _  
    options As BlobRequestOptions, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAAsyncResult
```

C#

```
public virtual IAAsyncResult BeginUploadFromStream (   
    Stream source,   
    BlobRequestOptions options,   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
public:   
virtual IAAsyncResult^ BeginUploadFromStream (   
    Stream^ source,   
    BlobRequestOptions^ options,   
    AsyncCallback^ callback,   
    Object^ state   
)
```

J#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlob.BeginUploadFromStream Method (Stream, 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.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
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

```
Public Overridable Function BeginUploadFromStream ( _  
    source As Stream, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public virtual IAsyncResult BeginUploadFromStream (   
    Stream source,   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
public:   
virtual IAsyncResult^ BeginUploadFromStream (   
    Stream^ source,   
    AsyncCallback^ callback,   
    Object^ state   
)
```

J#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlob.CopyFromBlob 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

Name	Description
CloudBlob.CopyFromBlob (CloudBlob)	Copies an existing blob's contents, properties, and metadata to a new blob.
CloudBlob.CopyFromBlob (CloudBlob, BlobRequestOptions)	Copies an existing blob's contents, properties, and metadata to a new blob, with options.

▣ 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

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

▣ Usage

Visual Basic

```
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.

▣ Example

The following code example copies a source blob to a destination blob.

C#

```
static void CopyBlob(Uri blobEndpoint, string accountKey)
{
    // Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint, accountKey);

    // Get a reference to the source blob.
    CloudBlob sourceBlob = blobClient.GetBlobReference(blobEndpoint.AbsolutePath);
    sourceBlob.FetchAttributes();

    // Get a reference to the destination blob.
    CloudBlob destBlob = blobClient.GetBlobReference(blobEndpoint.AbsolutePath + "destBlob");

    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](#)

- [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, 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Working with Snapshots](#)

CloudBlob.CopyFromBlob Method (CloudBlob, 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.]

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

Visual Basic

```
Dim instance As CloudBlob  
Dim source As CloudBlob  
Dim options As BlobRequestOptions  
  
instance.CopyFromBlob(source, options)
```

▣ Syntax

Visual Basic

```
Public Sub CopyFromBlob ( _  
    source As CloudBlob, _  
    options As BlobRequestOptions _  
)
```

C#

```
public void CopyFromBlob (  
    CloudBlob source,  
    BlobRequestOptions options  
)
```

C++

```
public:  
void CopyFromBlob (  
    CloudBlob^ source,  
    BlobRequestOptions^ options  
)
```

J#

JScript

Parameters

source

The source blob.

options

Type: [Microsoft.WindowsAzure.StorageClient.BlobRequestOptions](#)

An object that specifies any additional options for the request.

■ Example

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

C#

```
static void CopyIfModifiedSince(Uri blobEndpoint, st
{
    // Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new Storage

    // Get a reference to the source blob.
    CloudBlob sourceBlob = blobClient.GetBlobReferenc
    sourceBlob.FetchAttributes();

    // Get a reference to the destination blob.
    CloudBlob destBlob = blobClient.GetBlobReference
    BlobRequestOptions options = new BlobRequestOpti
    DateTime dt = new DateTime(2012, 9, 1, 0, 0, 0, 1

    try
    {
        // Copy the source blob to the destination b
        // IF the source blob has been modified since
        options.CopySourceAccessCondition = AccessCon
        destBlob.CopyFromBlob(sourceBlob, options);
    }
    catch (StorageClientException e)
    {
        if (e.StatusCode == HttpStatusCode.Preconditi
        {
            Console.WriteLine("Access condition not m
                + " has not been modified since " + (
        }
        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](#)

- [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, 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Working with Snapshots](#)

CloudBlob.CreateSnapshot 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

Name	Description
CloudBlob.CreateSnapshot()	Creates a snapshot of the blob.
CloudBlob.CreateSnapshot(BlobRequestOptions)	Creates a snapshot of the blob, using a conditional request based on the BlobRequestOptions that you specify.
CloudBlob.CreateSnapshot(NameValueCollection, BlobRequestOptions)	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.

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Working with Snapshots](#)

CloudBlob.CreateSnapshot 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 snapshot of the blob.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlob  
Dim returnValue As CloudBlob  
  
returnValue = instance.CreateSnapshot
```

▣ Syntax

Visual Basic

```
Public Function CreateSnapshot As CloudBlob
```

C#

```
public CloudBlob CreateSnapshot ()
```

C++

```
public:  
CloudBlob^ CreateSnapshot ()
```

J#

JScript

Return Value

Type: [Microsoft.WindowsAzure.StorageClient.CloudBlob](#)

A blob snapshot.

▣ Example

C#

```
static void CreateBlobSnapshot(Uri blobEndpoint, string containerName, string blobName)
{
    // Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

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

    // Take a snapshot of the blob.
    CloudBlob snapshot = blob.CreateSnapshot();

    // Get the snapshot timestamp.
    DateTime timestamp = (DateTime)snapshot.Attributes["x-ms-blob-timestamp"];

    // Use the timestamp to get a second reference to the snapshot.
    CloudBlob snapshot2 = new CloudBlob("mycontainer", blobName + snapshot.Timestamp.ToString("yyyyMMddTHHmmssZ"));

    // 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](#)

- [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.

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ Usage

Visual Basic

```
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.

Example

C#

```
static void CreateBlobSnapshot2(Uri blobEndpoint, string containerName, string blobName)
{
    // Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint.ToString());

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

    // Set options for the request. E.g., Specify an 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["x-ms-blob-timestamp"];

    // Use the timestamp to get a second reference to the blob.
    CloudBlob snapshot2 = new CloudBlob("mycontainer", blobName, timestamp.ToString());

    // 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](#)

- [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.

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlob  
Dim metadata As NameValueCollection  
Dim options As BlobRequestOptions  
Dim returnValue As CloudBlob  
  
returnValue = instance.CreateSnapshot(metadata, opti
```


▣ Syntax

Visual Basic

```
Public Function CreateSnapshot ( _  
    metadata As NameValueCollection, _  
    options As BlobRequestOptions _  
) As CloudBlob
```

C#

```
public CloudBlob CreateSnapshot (  
    NameValueCollection metadata,  
    BlobRequestOptions options  
)
```

C++

```
public:  
CloudBlob^ CreateSnapshot (  
    NameValueCollection^ metadata,  
    BlobRequestOptions^ options  
)
```

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.

Return Value

Type: [Microsoft.WindowsAzure.StorageClient.CloudBlob](#)

A blob snapshot.

Example

C#

```
static void CreateBlobSnapshot3(Uri blobEndpoint, string containerName, string blobName)
{
    // Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient(
        new StorageCredentialsAccountAndKey(accountName, accountKey));

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

    // Set metadata values for the snapshot.
    NameValueCollection ssMData = new NameValueCollection();
    ssMData.Add("Member", "No");
    ssMData.Add("System", "Abstract");
    ssMData.Add("Status", "Published");

    // Set options for the request. E.g., Specify an
    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["x-ms-snapshot-time"];

    // Use the timestamp to get a second reference to the blob.
    CloudBlob snapshot2 = new CloudBlob("mycontainer", blobName, timestamp.ToString());

    // 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 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](#)
- [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.

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ 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

Name	Description
CloudBlob.Delete ()	Deletes the blob.
CloudBlob.Delete (BlobRequestOptions)	Deletes the blob, using a conditional request based on the BlobRequestOptions that you specify.

▣ 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

```
Dim instance As CloudBlob  
  
instance.Delete
```

☐ Syntax

Visual Basic

```
Public Sub Delete
```

C#

```
public void Delete ()
```

C++

```
public:  
void Delete ()
```

J#

JScript

Example

The following code example enumerates through the blobs in a container and deletes each blob.

C#

```
static void DeleteBlobsAndSnapshots1(Uri blobEndpoint)
{
    CloudBlobClient blobClient = new CloudBlobClient(
        new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Get a reference to the container object.
    CloudBlobContainer container = blobClient.GetContainerReference(containerName);

    // Since the Delete method exists only on CloudBlob,
    // specify the Flat Blob Listing option, to ensure that we get all blobs.
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlob.Delete 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.]

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

```
Dim instance As CloudBlob  
Dim options As BlobRequestOptions  
  
instance.Delete(options)
```

▣ Syntax

Visual Basic

```
Public Sub Delete ( _  
    options As BlobRequestOptions _  
)
```

C#

```
public void Delete (  
    BlobRequestOptions options  
)
```

C++

```
public:  
void Delete (  
    BlobRequestOptions^ options  
)
```

J#

JScript

Parameters

options

Type: [Microsoft.WindowsAzure.StorageClient.BlobRequestOptions](#)

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.

C#

```
static void DeleteBlobsAndSnapshots2(Uri blobEndpoint)
{
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAnonymous());

    // Get a reference to the container.
    CloudBlobContainer container = blobClient.GetContainerReference(containerName);

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

    // Specify a flat blob listing, so that only CloudBlobs are returned.
    // The Delete method exists only on CloudBlob, not on CloudBlobContainer.
    options.UseFlatBlobListing = true;

    // Enumerate through the blobs in the container,
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Working with Snapshots](#)

CloudBlob.DeleteIfExists 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

Name	Description
CloudBlob.DeleteIfExists()	Deletes the blob if it exists.
CloudBlob.DeleteIfExists(BlobRequestOptions)	Deletes the blob if it exists, using a conditional request based on the BlobRequestOptions that you specify.

▣ 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

```
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.

C#

```
static void UploadTextToBlob1(Uri blobEndpoint, string text)
{
    // Create a service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

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

    // 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Working with Snapshots](#)

CloudBlob.DeleteIfExists 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.]

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)

▣ Usage

Visual Basic

```
Dim instance As CloudBlob  
Dim options As BlobRequestOptions  
Dim returnValue As Boolean  
  
returnValue = instance.DeleteIfExists(options)
```

▣ Syntax

Visual Basic

```
Public Function DeleteIfExists ( _  
    options As BlobRequestOptions _  
) As Boolean
```

C#

```
public bool DeleteIfExists (  
    BlobRequestOptions options  
)
```

C++

```
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`.

▣ Example

The following code example deletes a blob if it already exists.

C#

```
static void UploadTextToBlob2(Uri blobEndpoint, string text)
{
    // Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

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

    // Delete the blob if it already exists, also delete snapshots.
    BlobRequestOptions options = new BlobRequestOptions();
    options.DeleteSnapshotsOption = DeleteSnapshotsOption.Delete;

    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

Name	Description
CloudBlob.DownloadByteArray()	Downloads the blob's contents as an array of bytes.
CloudBlob.DownloadByteArray(BlobRequestOptions)	Downloads the blob's contents as an array of bytes, using a conditional request based on the BlobRequestOptions that you specify.

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlob  
Dim returnValue As Byte()  
  
returnValue = instance.DownloadByteArray
```

▣ Syntax

Visual Basic

```
Public Function DownloadByteArray As Byte()
```

C#

```
public byte[] DownloadByteArray ()
```

C++

```
public:  
array<unsigned char>^ DownloadByteArray ()
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Setting Timeouts for Blob Service Operations](#)

CloudBlob.DownloadByteArray 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.]

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

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Setting Timeouts for Blob Service Operations](#)

CloudBlob.DownloadText 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

Name	Description
CloudBlob.DownloadText()	Downloads the blob's contents.
CloudBlob.DownloadText(BlobRequestOptions)	Downloads the blob's contents, using a conditional request based on the BlobRequestOptions that you specify.

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Setting Timeouts for Blob Service Operations](#)

CloudBlob.DownloadText 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.]

Downloads the blob's contents.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
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.

C#

```
static void CreateAnonymousClient(String blobEndpoint)
{
    // Create service client for anonymous access to
    CloudBlobClient publicClient = new CloudBlobClient(blobEndpoint);

    // Get a reference to a blob in a public container
    CloudBlob publicBlob = publicClient.GetBlobReference(blobName);

    // 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**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Setting Timeouts for Blob Service Operations](#)

CloudBlob.DownloadText 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.]

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)

▣ Usage

Visual Basic

```
Dim instance As CloudBlob  
Dim options As BlobRequestOptions  
Dim returnValue As String  
  
returnValue = instance.DownloadText(options)
```


▣ Syntax

Visual Basic

```
Public Function DownloadText ( _  
    options As BlobRequestOptions _  
) As String
```

C#

```
public string DownloadText (  
    BlobRequestOptions options  
)
```

C++

```
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.

Example

The following code example downloads the contents of a publicly available blob using an anonymous client.

C#

```
static void CreateAnonymousClient2(String blobEndpoint)
{
    // Create a service client for anonymous access.
    CloudBlobClient publicClient = new CloudBlobClient(blobEndpoint);

    // Get a reference to a blob in a public container.
    CloudBlob publicBlob = publicClient.GetBlobReference(blobName);

    // Set options for the request. E.g., Specify an
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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.]

☐ Overload List

Name	Description
CloudBlob.DownloadToFile(String)	Downloads the blob's contents to a file.
CloudBlob.DownloadToFile(String, BlobRequestOptions)	Downloads the blob's contents to a file, using a conditional request based on the BlobRequestOptions that you specify.

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Setting Timeouts for Blob Service Operations](#)

CloudBlob.DownloadToFile 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.]

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.

C#

```
static void DownloadBlobToFile(Uri blobEndpoint, str:
{
    // Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new Storage

    // Return a reference to the blob.
    CloudBlob blob = blobClient.GetBlobReference("my

    // 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Setting Timeouts for Blob Service Operations](#)

CloudBlob.DownloadToFile Method (String, 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.]

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

```
Dim instance As CloudBlob  
Dim fileName As String  
Dim options As BlobRequestOptions  
  
instance.DownloadToFile(fileName, options)
```

▣ Syntax

Visual Basic

```
Public Sub DownloadToFile ( _  
    fileName As String, _  
    options As BlobRequestOptions _  
)
```

C#

```
public void DownloadToFile (  
    string fileName,  
    BlobRequestOptions options  
)
```

C++

```
public:  
void DownloadToFile (  
    String^ fileName,  
    BlobRequestOptions^ options  
)
```

J#

JScript

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.

▣ Example

The following code example downloads a blob to a local file only if the blob has been modified since January 1, 2012.

C#

```
static void DownloadBlobToFile(Uri blobEndpoint, string fileName)
{
    // Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

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

    // Download the blob to a local file only if it has been modified since
    DateTime dt = new DateTime(2012, 1, 1, 0, 0, 0, DateTimeKind.Utc);

    try
    {
        blob.DownloadToFile("c:\\temp\\mylocalblob.txt",
            BlobDownloadOptions.FromCache,
            AccessCondition.FromDateTime(dt));
    }
    catch (StorageClientException e)
    {
        if (e.StatusCode == System.Net.HttpStatusCode.NotFound)
            Console.WriteLine("The blob was not modified since 1/1/2012.");
        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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Setting Timeouts for Blob Service Operations](#)

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.]

☐ Overload List

Name	Description
CloudBlob.DownloadToStream(Stream)	Downloads the contents of a blob to a stream
CloudBlob.DownloadToStream(Stream, BlobRequestOptions)	Downloads the contents of a blob to a stream using a conditional request based on the BlobRequestOptions that you specify.

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Setting Timeouts for Blob Service Operations](#)

CloudBlob.DownloadToStream Method (Stream)

[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.]

Downloads the contents of a blob to a stream.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
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.

C#

```
static void AppendTextBlobToFile(Uri blobEndpoint, string filename)
{
    // Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

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

    // Download the blob to a file stream.
    FileStream stream = new FileStream("C:\\\\appendto.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**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Setting Timeouts for Blob Service Operations](#)

CloudBlob.DownloadToStream Method (Stream, 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.]

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

```
Dim instance As CloudBlob  
Dim target As Stream  
Dim options As BlobRequestOptions  
  
instance.DownloadToStream(target, options)
```

▣ Syntax

Visual Basic

```
Public Sub DownloadToStream ( _  
    target As Stream, _  
    options As BlobRequestOptions _  
)
```

C#

```
public void DownloadToStream (  
    Stream target,  
    BlobRequestOptions options  
)
```

C++

```
public:  
void DownloadToStream (  
    Stream^ target,  
    BlobRequestOptions^ options  
)
```

J#

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.

▣ Example

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.

C#

```
static void AppendTextBlobToFile2(Uri blobEndpoint, string fileName)
{
    // Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint.ToString());

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

    // Set options for the request. E.g., Specify an timeout.
    BlobRequestOptions options = new BlobRequestOptions();
    options.Timeout = TimeSpan.FromSeconds(20.0);

    // Download the blob to a file stream.
    FileStream stream = new FileStream(fileName, FileMode.Append, FileAccess.Write);

    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**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ 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

```
Dim instance As CloudBlob  
Dim asyncResult As IAsyncResult  
  
instance.EndCopyFromBlob(asyncResult)
```

▣ Syntax

Visual Basic

```
Public Sub EndCopyFromBlob ( _  
    asyncResult As IAsyncResult _  
)
```

C#

```
public void EndCopyFromBlob (  
    IAsyncResult asyncResult  
)
```

C++

```
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.

C#

```
static void CopyBlobConditionallyAsync(Uri blobEndpoint, string sourceBlobName, string destBlobName)
{
    // Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint);

    // Create a new blob by uploading a file.
    CloudBlob sourceBlob = blobClient.GetBlobReference(sourceBlobName);
    sourceBlob.UploadFile("C:\\somefile.txt");

    // Get a reference to the destination blob.
    CloudBlob destBlob = blobClient.GetBlobReference(destBlobName);

    // Establish an access condition, so that the blob
    // has not been changed in the past hour.
    BlobRequestOptions options = new BlobRequestOptions();
    options.CopySourceAccessCondition = AccessCondition.IfNotModifiedSince("2012-01-01T00:00:00Z");

    destBlob.BeginCopyFromBlob(sourceBlob, options, CopyBlobCallback);
}

static void CopyBlobCallback(IAsyncResult result)
{
    CloudBlob blobDest = (CloudBlob)result.AsyncState;

    // End the operation, checking for the exception
    try
    {
        blobDest.EndCopyFromBlob(result);
    }
    catch (StorageClientException e)
    {
        // Handle exception
    }
}
```

```
{
    if (e.StatusCode == HttpStatusCode.PreconditionFailed)
    {
        Console.WriteLine("Access condition on server not met")
    }
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ 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

```
Dim instance As CloudBlob  
Dim asyncResult As IAsyncResult  
Dim returnValue As CloudBlob  
  
returnValue = instance.EndCreateSnapshot(asyncResult
```

▣ Syntax

Visual Basic

```
Public Function EndCreateSnapshot ( _  
    asyncResult As IAsyncResult _  
) As CloudBlob
```

C#

```
public CloudBlob EndCreateSnapshot (  
    IAsyncResult asyncResult  
)
```

C++

```
public:  
CloudBlob^ EndCreateSnapshot (  
    IAsyncResult^ asyncResult  
)
```

J#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlob  
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlob.EndDeleteIfExists 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 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

```
Public Function EndDeleteIfExists ( _  
    asyncResult As IAsyncResult _  
) As Boolean
```

C#

```
public bool EndDeleteIfExists (  
    IAsyncResult asyncResult  
)
```

C++

```
public:  
bool EndDeleteIfExists (  
    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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlob  
Dim asyncResult As IAsyncResult  
  
instance.EndDownloadToStream(asyncResult)
```


▣ Syntax

Visual Basic

```
Public Sub EndDownloadToStream ( _  
    asyncResult As IAsyncResult _  
)
```

C#

```
public void EndDownloadToStream (  
    IAsyncResult asyncResult  
)
```

C++

```
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.

C#

```
static void DownloadBlobToStreamAsync(Uri blobEndpoint)
{
    // Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

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

    // Download the blob to a file stream.
    FileStream stream = new FileStream("C:\\\\appendto.txt", FileMode.Append);
    blob.BeginDownloadToStream(stream, DownloadBlobToStreamCallback);
}

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**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlob  
Dim asyncResult As IAsyncResult  
  
instance.EndFetchAttributes(asyncResult)
```


▣ Syntax

Visual Basic

```
Public Sub EndFetchAttributes ( _  
    asyncResult As IAsyncResult _  
)
```

C#

```
public void EndFetchAttributes (  
    IAsyncResult asyncResult  
)
```

C++

```
public:  
void EndFetchAttributes (  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlob.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 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](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As CloudBlob  
Dim asyncResult As IAsyncResult  
  
instance.EndSetProperties(asyncResult)
```

▣ Syntax

Visual Basic

```
Public Sub EndSetProperties ( _  
    asyncResult As IAsyncResult _  
)
```

C#

```
public void EndSetProperties (  
    IAsyncResult asyncResult  
)
```

C++

```
public:  
void EndSetProperties (  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlob.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

```
Dim instance As CloudBlob  
Dim asyncResult As IAsyncResult  
  
instance.EndUploadFromStream(asyncResult)
```

▣ Syntax

Visual Basic

```
Public Overridable Sub EndUploadFromStream ( _  
    asyncResult As IAsyncResult _  
)
```

C#

```
public virtual void EndUploadFromStream (  
    IAsyncResult asyncResult  
)
```

C++

```
public:  
virtual void EndUploadFromStream (  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Name	Description
CloudBlob.FetchAttributes()	Populates a blob's properties and metadata.
CloudBlob.FetchAttributes(BlobRequestOptions)	Populates a blob's properties and metadata, using a conditional request based on the BlobRequestOptions that you specify.

▣ 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

```
Dim instance As CloudBlob  
instance.FetchAttributes
```

☐ Syntax

Visual Basic

```
Public Sub FetchAttributes
```

C#

```
public void FetchAttributes ()
```

C++

```
public:  
void FetchAttributes ()
```

J#

JScript

▣ Example

The following code example lists blob properties and metadata.

C#

```
static void ListBlobPropertiesAndMetadata(Uri blobEndpoint)
{
    // Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentials());

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

    // 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.BlobType);
    Console.WriteLine("\tLastModifiedUTC: " + blob.Attributes.LastModifiedUTC);
    Console.WriteLine("\tETag: " + blob.Attributes.ETag);
    Console.WriteLine();

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

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ **See Also**

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Setting and Retrieving Properties and Metadata](#)

CloudBlob.FetchAttributes 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.]

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

```
Dim instance As CloudBlob  
Dim options As BlobRequestOptions  
  
instance.FetchAttributes(options)
```

▣ Syntax

Visual Basic

```
Public Sub FetchAttributes ( _  
    options As BlobRequestOptions _  
)
```

C#

```
public void FetchAttributes (  
    BlobRequestOptions options  
)
```

C++

```
public:  
void FetchAttributes (  
    BlobRequestOptions^ options  
)
```

J#

JScript

Parameters

options

Type: [Microsoft.WindowsAzure.StorageClient.BlobRequestOptions](#)

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#

```
static void ListBlobPropertiesAndMetadata2(Uri blobUri)
{
    // Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient(blobUri)

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

    // Set options for the request. E.g., Specify an
    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.BlobType);
    Console.WriteLine("\tLastModifiedUTC: " + blob.Attributes.LastModifiedUTC);
    Console.WriteLine("\tETag: " + blob.Attributes.ETag);
    Console.WriteLine();

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

```
        Console.WriteLine("Metadata value: " + blob.Metadata["name"]);  
    }  
}
```

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Setting and Retrieving Properties and Metadata](#)

CloudBlob.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

Name	Description
CloudBlob.GetSharedAccessSignature(SharedAccessPolicy)	Returns a shared access signature for the blob.
CloudBlob.GetSharedAccessSignature(SharedAccessPolicy, String)	Returns a shared access signature for the blob, with the specified container-level access policy.

▣ 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)

▣ Usage

Visual Basic

```
Dim instance As CloudBlob  
Dim policy As SharedAccessPolicy  
Dim returnValue As String  
  
returnValue = instance.GetSharedAccessSignature(policy)
```

▣ Syntax

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 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.

C#

```
static void WriteToBlobViaSAS(Uri blobEndpoint, string text)
{
    // Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

    CloudBlob blob = blobClient.GetBlobReference("myblob");

    // Upload text to the blob, which will create it if it doesn't exist.
    blob.UploadText("a text blob");

    // Create a shared access signature to use for direct access.
    // Specify an access policy which indicates the permissions
    // granted for the signature.
    string signature = blob.GetSharedAccessSignature(
    {
        // If valid immediately, don't set SharedAccessStart time.
        // 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(1),
        // Specify the permissions granted by the signature.
        Permissions = SharedAccessPermissions.Write
    });

    // Get a reference to the blob using the shared access signature.
    CloudBlob blobSAS = new CloudBlob("http://storageaccount.blob.core.windows.net/container/myblob?sig=" + signature);
}
```

```
        new StorageCredentialsSharedAccessSignature(
// Update the contents of the blob, then read the
blobSAS.UploadText("a text blob updated using a :
Console.WriteLine(blobSAS.DownloadText());
}
```

▣ Exceptions

Exception type	Condition
InvalidOperationException	Thrown if the current credentials don't support creating a shared access signature.
NotSupportedException	Thrown if blob is a snapshot.

▣ 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.

([HTTPStatusCode.BadRequest](#)).

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlob  
Dim policy As SharedAccessPolicy  
Dim groupPolicyIdentifier As String  
Dim returnValue As String  
  
returnValue = instance.GetSharedAccessSignature(policy, groupPolicyIdentifier)
```

▣ Syntax

Visual Basic

```
Public Function GetSharedAccessSignature ( _  
    policy As SharedAccessPolicy, _  
    groupPolicyIdentifier As String _  
) As String
```

C#

```
public string GetSharedAccessSignature (  
    SharedAccessPolicy policy,  
    string groupPolicyIdentifier  
)
```

C++

```
public:  
String^ GetSharedAccessSignature (  
    SharedAccessPolicy^ policy,  
    String^ groupPolicyIdentifier  
)
```

J#

JScript

Parameters

policy

Type: [Microsoft.WindowsAzure.StorageClient.SharedAccessPolicy](#)

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.

C#

```
static void WriteToBlobViaSAS2(Uri blobEndpoint, string blobName)
{
    // Create a service client for credentialed access.
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint.ToString());

    // Create a CloudBlobContainer reference object.
    CloudBlobContainer container = blobClient.GetContainerReference(blobName);

    // Create a new blob container in the cloud if the container
    // doesn't reference an existing container.
    container.CreateIfNotExist();

    // Create a BlobContainerPermissions dictionary object.
    // This holds a collection of individual SharedAccessPolicies.
    BlobContainerPermissions containerPermissions = new BlobContainerPermissions();

    // Create a SharedAccessPolicy object.
    SharedAccessPolicy myCAPolicy = new SharedAccessPolicy(containerPermissions);

    // 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;
    myCAPolicy.SharedAccessExpiryTime = DateTime.UtcNow.AddHours(10);
    myCAPolicy.Permissions = SharedAccessPermissions.ReadWrite;

    // Add this SharedAccessPolicy object to the BlobContainerPermissions dictionary.
```

```

        containerPermissions.SharedAccessPolicies.Add("myContainerPolicy",
            new SharedAccessPolicy()
            {
                // Restrict anonymous access to the container containerPermissions.PublicAccess = BlobContainerPermissions.PublicAccess;

                // Apply the collection of shared access policies to the container.
                container.SetPermissions(containerPermissions);

                // Create a blob reference object.
                CloudBlob blob = blobClient.GetBlobReference("myContainer/myBlob");

                // Upload text to the blob.
                // This creates a new blob if the CloudBlob reference doesn't exist.
                blob.UploadText("a text blob");

                // Create a shared access signature to use for downloading the blob.
                // Note that this call passes in an empty access policy collection.
                // This call will use the 'myContainerPolicy' shared access policy.
                string signature = blob.GetSharedAccessSignature(
                    new SharedAccessPolicyCollection(),
                    new SharedAccessPermissions());

                // Use the shared access signature to get another reference to the blob.
                CloudBlob blobSAS = new CloudBlob("http://storageaccountname.blob.core.windows.net/myContainer/myBlob?sig=" + 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

Exception type	Condition
InvalidOperationException	Thrown if the current credentials don't support creating a shared access signature.
NotSupportedException	Thrown if blob is a snapshot.

▣ 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.

([HTTPStatusCode.BadRequest](#)).

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

Name	Description
CloudBlob.OpenRead()	Opens a stream for reading the blob's contents.
CloudBlob.OpenRead(BlobRequestOptions)	Opens a stream for reading the blob's contents, using a conditional request based on the BlobRequestOptions that you specify.

▣ 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

```
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

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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.]

☐ Overload List

Name	Description
CloudBlob.OpenWrite()	Opens a stream for writing to the blob.
CloudBlob.OpenWrite(BlobRequestOptions)	Opens a stream for writing to the blob, using a conditional request based on the BlobRequestOptions that you specify.

▣ 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)

▣ Usage

Visual Basic

```
Dim instance As CloudBlob  
Dim returnValue As BlobStream  
  
returnValue = instance.OpenWrite
```

▣ Syntax

Visual Basic

```
Public Overridable Function OpenWrite As BlobStream
```

C#

```
public virtual BlobStream OpenWrite ()
```

C++

```
public:  
virtual BlobStream^ OpenWrite ()
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlob  
Dim options As BlobRequestOptions  
Dim returnValue As BlobStream  
  
returnValue = instance.OpenWrite(options)
```

▣ Syntax

Visual Basic

```
Public Overridable Function OpenWrite ( _  
    options As BlobRequestOptions _  
) As BlobStream
```

C#

```
public virtual BlobStream OpenWrite (  
    BlobRequestOptions options  
)
```

C++

```
public:  
virtual BlobStream^ OpenWrite (  
    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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

Usage

Visual Basic

```
Dim response As HttpWebResponse  
Me.ParseSizeAndLastModified(response)
```

▣ Syntax

Visual Basic

```
Protected Sub ParseSizeAndLastModified ( _  
    response As HttpWebResponse _  
)
```

C#

```
protected void ParseSizeAndLastModified (  
    HttpWebResponse response  
)
```

C++

```
protected:  
void ParseSizeAndLastModified (  
    HttpWebResponse^ response  
)
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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.]

Overload List

Name	Description
CloudBlob.SetMetadata()	Updates the blob's metadata.
CloudBlob.SetMetadata(BlobRequestOptions)	Updates the blob's metadata, using a conditional request based on the BlobRequestOptions that you specify.

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Setting and Retrieving Properties and Metadata](#)

CloudBlob.SetMetadata 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.]

Updates the blob's metadata.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlob  
instance.SetMetadata
```

▣ Syntax

Visual Basic

```
Public Sub SetMetadata
```

C#

```
public void SetMetadata ()
```

C++

```
public:  
void SetMetadata ()
```

J#

JScript

▣ Example

The following code example writes metadata to a blob.

C#

```
static void WriteBlobMetadata(Uri blobEndpoint, string blobName)
{
    // Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

    // Return a blob reference.
    CloudBlob blob = new CloudBlob("mycontainer/myblob", 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlob  
Dim options As BlobRequestOptions  
  
instance.SetMetadata(options)
```

▣ Syntax

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.

▣ Example

The following code example writes metadata to a blob.

C#

```
static void WriteBlobMetadata2(Uri blobEndpoint, string blobName)
{
    // Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient(
        new StorageCredentialsAccountAndKey(accountName, accountKey));

    // Create a CloudBlob reference.
    CloudBlob blob = new CloudBlob("mycontainer/myblob");

    // 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
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ **See Also**

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Setting and Retrieving Properties and Metadata](#)

CloudBlob.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.]

☐ Overload List

Name	Description
CloudBlob.SetProperties()	Updates the blob's properties.
CloudBlob.SetProperties(BlobRequestOptions)	Updates the blob's properties, using a conditional request based on the BlobRequestOptions that you specify.

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Setting and Retrieving Properties and Metadata](#)

CloudBlob.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.]

Updates the blob's properties.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlob  
instance.SetProperties
```

☐ Syntax

Visual Basic

```
Public Sub SetPropertyies
```

C#

```
public void SetPropertyies ()
```

C++

```
public:  
void SetPropertyies ()
```

J#

JScript

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlob  
Dim options As BlobRequestOptions  
  
instance.SetProperties(options)
```

▣ Syntax

Visual Basic

```
Public Sub SetPropertyes ( _  
    options As BlobRequestOptions _  
)
```

C#

```
public void SetPropertyes (  
    BlobRequestOptions options  
)
```

C++

```
public:  
void SetPropertyes (  
    BlobRequestOptions^ options  
)
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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.]

☐ Overload List

Name	Description
CloudBlob.UploadByteArray(Byte[])	Uploads an array of bytes to a block blob.
CloudBlob.UploadByteArray(Byte[], BlobRequestOptions)	Uploads an array of bytes to a block blob, using a conditional request based on the BlobRequestOptions that you specify.

▣ 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)

▣ Usage

Visual Basic

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Public Overridable Sub UploadByteArray ( _  
    content As Byte(), _  
    options As BlobRequestOptions _  
)
```

C#

```
public virtual void UploadByteArray (  
    byte[] content,  
    BlobRequestOptions options  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlob.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

Name	Description
CloudBlob.UploadFile(String)	Uploads a file from the file system to a block blob.
CloudBlob.UploadFile(String, BlobRequestOptions)	Uploads a file from the file system to a block blob, using a conditional request based on the BlobRequestOptions that you specify.

▣ 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

```
Dim instance As CloudBlob  
Dim fileName As String  
  
instance.UploadFile(fileName)
```

▣ Syntax

Visual Basic

```
Public Overridable Sub UploadFile ( _  
    fileName As String _  
)
```

C#

```
public virtual void UploadFile (  
    string fileName  
)
```

C++

```
public:  
virtual void UploadFile (  
    String^ fileName  
)
```

J#

JScript

Parameters

fileName

Type: [System.String](#)

The path and file name of the file to upload.

▣ Example

The following code example uploads a file from the local computer to a blob.

C#

```
static void UploadBlobFromFile(Uri blobEndpoint, string containerName, string blobName)
{
    // 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(containerName);

    // 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(blobName);

    // Upload content to the blob, which will create the blob if it does not 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlob.UploadFile Method (String, 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 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

```
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.

▣ Example

The following code example uploads a file from the local computer to a blob, using the specified blob request options.

C#

```
static void UploadBlobFromFile(Uri blobEndpoint, string fileName)
{
    // 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 exist.
    CloudBlobContainer container = blobClient.GetContainerReference(containerName);

    // Create a new container in the cloud if one with the specified name does not 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.
    // E.g., Specify a retry policy of 10 retries.
    options.RetryPolicy =
        RetryPolicies.RetryExponential(10, RetryPolicies.DefaultRetryInterval);

    // Upload content to the blob, which will create the blob if it does not exist.
    // If the operation fails, try it again - up to 10 times.
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

Name	Description
CloudBlob.UploadFromStream(Stream)	Uploads a block blob from a stream.
CloudBlob.UploadFromStream(Stream, BlobRequestOptions)	Uploads a block blob from a stream, using a conditional request based on the BlobRequestOptions that you specify.

▣ 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)

▣ Usage

Visual Basic

```
Dim instance As CloudBlob  
Dim source As Stream  
  
instance.UploadFromStream(source)
```

▣ Syntax

Visual Basic

```
Public Overridable Sub UploadFromStream ( _  
    source As Stream _  
)
```

C#

```
public virtual void UploadFromStream (  
    Stream source  
)
```

C++

```
public:  
virtual void UploadFromStream (  
    Stream^ source  
)
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlob  
Dim source As Stream  
Dim options As BlobRequestOptions  
  
instance.UploadFromStream(source, options)
```

▣ Syntax

Visual Basic

```
Public Overridable Sub UploadFromStream ( _  
    source As Stream, _  
    options As BlobRequestOptions _  
)
```

C#

```
public virtual void UploadFromStream (  
    Stream source,  
    BlobRequestOptions options  
)
```

C++

```
public:  
virtual void UploadFromStream (  
    Stream^ source,  
    BlobRequestOptions^ options  
)
```

J#

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.

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



CloudBlob.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

Name	Description
CloudBlob.UploadText(String)	Uploads a string of text to a block blob.
CloudBlob.UploadText(String, Encoding, BlobRequestOptions)	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.

▣ 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

```
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.

C#

```
static void UploadBlobFromText(Uri blobEndpoint, string text)
{
    // 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("myblob");

    // 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ 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

```
Public Overridable Sub UploadText ( _  
    content As String, _  
    encoding As Encoding, _  
    options As BlobRequestOptions _  
)
```

C#

```
public virtual void UploadText (  
    string content,  
    Encoding encoding,  
    BlobRequestOptions options  
)
```

C++

```
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

C#

```
static void UploadIfNotExist(Uri blobEndpoint, string blobName)
{
    // 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("myblob");

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

    options.AccessCondition = AccessCondition.IfNoneMatch(blobName);

    try
    {
        // Upload the blob only if it does not already exist.
        blob.UploadText("Upload this blob if it does not exist.");
    }
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

	Name	Description
	Attributes	Gets the BlobAttributes object that represents the blob's attributes.
	Container	Gets a CloudBlobContainer object representing the blob's container.
	Metadata	Gets the blob's user-defined metadata.
	Name	Gets the name of the blob.
	Parent	Gets the CloudBlobDirectory object representing the virtual parent directory for the blob.
	Properties	Gets the blob's system properties.
	ServiceClient	Gets the CloudBlobClient object that represents the Blob service.
	SnapshotTime	Gets the DateTime value that uniquely identifies the snapshot, if this blob is a snapshot.
	ToBlockBlob	Gets a CloudBlockBlob object based on this blob.
	ToPageBlob	Gets a CloudPageBlob object based on this blob.
	Uri	Gets the URI that identifies the blob.

▣ 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

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As CloudBlob  
Dim value As CloudBlobContainer  
  
value = instance.Container
```

▣ Syntax

Visual Basic

```
Public ReadOnly Property Container As CloudBlobConta:
```

C#

```
public CloudBlobContainer Container { get; }
```

C++

```
public:  
virtual property CloudBlobContainer^ Container {  
    CloudBlobContainer^ get () sealed;  
}
```

J#

JScript

Property Value

Type: [Microsoft.WindowsAzure.StorageClient.CloudBlobContainer](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlob.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 blob's user-defined metadata.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlob  
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](#)

The metadata of the blob.

▣ Example

The following code example writes metadata to a blob.

C#

```
static void WriteBlobMetadata(Uri blobEndpoint, string blobName)
{
    // Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

    // Return a blob reference.
    CloudBlob blob = new CloudBlob("mycontainer/myblob", 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlob  
Dim value As String  
  
value = instance.Name
```

▣ Syntax

Visual Basic

```
Public ReadOnly Property Name As String
```

C#

```
public string Name { get; }
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlob  
Dim value As CloudBlobDirectory  
  
value = instance.Parent
```

▣ Syntax

Visual Basic

```
Public ReadOnly Property Parent As CloudBlobDirectory
```

C#

```
public CloudBlobDirectory Parent { get; }
```

C++

```
public:  
virtual property CloudBlobDirectory^ Parent {  
    CloudBlobDirectory^ get () sealed;  
}
```

J#

JScript

Property Value

Type: [Microsoft.WindowsAzure.StorageClient.CloudBlobDirectory](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlob.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 blob's system properties.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlob  
Dim value As BlobProperties  
  
value = instance.Properties
```

▣ Syntax

Visual Basic

Public Property Properties As **BlobProperties**

C#

```
public BlobProperties Properties { get; }
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Setting and Retrieving Properties and Metadata](#)

CloudBlob.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 [CloudBlobClient](#) object that represents the Blob service.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlob  
Dim value As CloudBlobClient  
  
value = instance.ServiceClient
```

▣ Syntax

Visual Basic

```
Public Property ServiceClient As CloudBlobClient
```

C#

```
public CloudBlobClient ServiceClient { get; }
```

C++

```
public:  
property CloudBlobClient^ ServiceClient {  
    CloudBlobClient^ get ();  
}
```

J#

JScript

Property Value

Type: [Microsoft.WindowsAzure.StorageClient.CloudBlobClient](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As CloudBlob  
Dim value As Nullable(Of DateTime)  
  
value = instance.SnapshotTime
```

▣ Syntax

Visual Basic

```
Public Property SnapshotTime As Nullable(Of DateTime
```

C#

```
public Nullable<DateTime> SnapshotTime { get; }
```

C++

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

J#

JScript

Property Value

Type: [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlob  
Dim value As CloudBlockBlob  
  
value = instance.ToBlockBlob
```

▣ Syntax

Visual Basic

```
Public ReadOnly Property ToBlockBlob As CloudBlockBlob
```

C#

```
public CloudBlockBlob ToBlockBlob { get; }
```

C++

```
public:  
property CloudBlockBlob^ ToBlockBlob {  
    CloudBlockBlob^ get ();  
}
```

J#

JScript

Property Value

Type: [Microsoft.WindowsAzure.StorageClient.CloudBlockBlob](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlob  
Dim value As CloudPageBlob  
  
value = instance.ToPageBlob
```

▣ 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

Type: [Microsoft.WindowsAzure.StorageClient.CloudPageBlob](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlob.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.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlob  
Dim value As Uri  
  
value = instance.Uri
```

▣ Syntax

Visual Basic

```
Public ReadOnly Property Uri As Uri
```

C#

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

C++

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

J#

JScript

Property Value

Type: [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlob Class](#)

[CloudBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobClient 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 client for accessing the Windows Azure Blob service.

Namespace: Microsoft.WindowsAzure.StorageClient

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

Usage

Visual Basic

```
Dim instance As CloudBlobClient
```

☐ Syntax

Visual Basic

```
Public Class CloudBlobClient
```

C#

```
public class CloudBlobClient
```

C++

```
public ref class CloudBlobClient
```

J#

JScript

▣ **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

Microsoft.WindowsAzure.StorageClient.CloudBlobClient

☐ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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.

▣ **Public Constructors**

	Name	Description
	CloudBlobClient	Overloaded.

[Top](#)

Public Properties

	Name	Description
	BaseUrl	Gets the base URI for the Blob service client.
	Credentials	Gets the account credentials used to create the Blob service client.
	DefaultDelimiter	Gets or sets the default delimiter that may be used to create a blob directory structure of blobs.
	ParallelOperationThreadCount	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.
	ReadAheadInBytes	Gets or sets the number of bytes to pre-fetch when reading from a stream.
	RetryPolicy	Gets or sets the default retry policy for requests made via the Blob service client.
	SingleBlobUploadThresholdInBytes	Gets or sets the maximum size of a blob in bytes that may be uploaded in a single operation, without using blocks.
	Timeout	Gets or sets the default timeout for requests made by the Blob service client.
	UseIntegrityControlForStreamReading	Gets or sets a value indicating whether the integrity of each block should be verified when reading from a stream.
	WriteBlockSizeInBytes	Gets or sets the block size for writing to a block blob.

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☐ **Public Methods (see also [Protected Methods](#))**

	Name	Description
	BeginGetServiceProperties	Begins an asynchronous operation to get an account's Blob service properties.
	BeginListBlobsWithPrefixSegmented	Overloaded. Begins an asynchronous operation to return a result segment containing a collection of blob items whose names begin with the specified prefix.
	BeginListContainersSegmented	Overloaded. Begins an asynchronous request to return a result segment containing a collection of containers.
	BeginSetServiceProperties	Begins an asynchronous operation to set an account's Blob service properties, including Windows Azure Storage Analytics.
	EndGetServiceProperties	Ends an asynchronous operation to get an account's Blob service properties.
	EndListBlobsWithPrefixSegmented	Ends an asynchronous operation to return a result segment containing a collection of blob items whose names begin with the specified prefix.
	EndListContainersSegmented	Ends an asynchronous operation to return a result segment containing a collection of containers.
	EndSetServiceProperties	Ends an asynchronous operation to set an account's Blob service properties.
	Equals	(Inherited from Object)
		Returns a reference to a

 GetBlobDirectoryReference	CloudBlobDirectory object with the specified address.
 GetBlobReference	Overloaded.
 GetBlockBlob	This method is obsolete; use GetBlockBlobReference instead. Obsolete.
 GetBlockBlobReference	Overloaded.
 GetContainerReference	Returns a reference to a CloudBlobContainer object with the specified address.
 GetHashCode	(Inherited from Object)
 GetPageBlob	This method is obsolete; use GetPageBlobReference . Obsolete.
 GetPageBlobReference	Overloaded.
 GetServiceProperties	Gets the properties of a storage account's Blob service, including Windows Azure Storage Analytics.
 GetType	(Inherited from Object)
 ListBlobsWithPrefix	Overloaded. Returns an enumerable collection of blob items whose names begin with the specified prefix.
 ListBlobsWithPrefixSegmented	Overloaded. Returns a result segment containing a collection of blob items whose names begin with the specified prefix.
 ListContainers	Overloaded. Returns an enumerable collection of containers.
 ListContainersSegmented	Overloaded. Returns a result segment containing a collection of containers whose names begin with the specified prefix.
 SetServiceProperties	Sets the properties of a storage account's Blob service, including Windows Azure Storage Analytics and default service version.



ToString

(Inherited from **Object**)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

☐ Public Events

	Name	Description
	ResponseReceived	Occurs when a response is received from the server.

[Top](#)

▣ 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

Name	Description
CloudBlobClient (String)	Initializes a new instance of the CloudBlobClient class to be used for anonymous access.
CloudBlobClient (String, StorageCredentials)	Initializes a new instance of the CloudBlobClient class using the specified Blob service endpoint and account credentials.
CloudBlobClient (Uri, StorageCredentials)	Initializes a new instance of the CloudBlobClient class using the specified Blob service endpoint and account credentials.

▣ 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

Visual Basic

```
Public Sub New ( _  
    baseAddress As String _  
)
```

C#

```
public CloudBlobClient (  
    string baseAddress  
)
```

C++

```
public:  
CloudBlobClient (  
    String^ baseAddress  
)
```

J#

JScript

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
            CloudBlobClient publicClient = new CloudBlobClient(
                "https://storage.azure.com/");

            //Get a reference to a blob in a public container
            CloudBlob publicBlob = publicClient.GetBlob(
                "publiccontainer", "publicblob.txt");

            //Attempt to download the blob's content
            try
            {
                Console.WriteLine(publicBlob.DownloadText());
            }
            catch (StorageClientException e)
            {
                Console.WriteLine("Error code: ", e.ErrorCode);
                Console.WriteLine("Error message: ", e.Message);
            }
        }
    }
}
```



▣ **Remarks**

This constructor creates a service client that may be used for anonymous access against publically accessible containers.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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, cred
```

▣ Syntax

Visual Basic

```
Public Sub New ( _  
    baseAddress As String, _  
    credentials As StorageCredentials _  
)
```

C#

```
public CloudBlobClient (  
    string baseAddress,  
    StorageCredentials credentials  
)
```

C++

```
public:  
CloudBlobClient (  
    String^ baseAddress,  
    StorageCredentials^ credentials  
)
```

J#

JScript

Parameters

baseAddress

Type: [System.String](#)

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.

C#

```
static void UploadBlobFromFile(string blobEndpoint, string containerName, string blobName)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

    //Get a reference to a container, which may or may not exist
    CloudBlobContainer container = blobClient.GetContainerReference(containerName);

    //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(blobName);

    //Upload content to the blob, which will create the blob if it does not exist
    blob.UploadFile("c:\\myfile.txt");
}
```


▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[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

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

▣ Usage

Visual Basic

```
Dim baseUri As Uri  
Dim credentials As StorageCredentials  
  
Dim instance As New CloudBlobClient(baseUri, credent:
```

▣ 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.

C#

```
static void UploadBlobFromFile(Uri blobEndpoint, string fileName)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

    //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 exist
    blob.UploadFile("c:\\myfile.txt");
}
```


▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ 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](#))**

	Name	Description
	BeginGetServiceProperties	Begins an asynchronous operation to get an account's Blob service properties.
	BeginListBlobsWithPrefixSegmented	Overloaded. Begins an asynchronous operation to return a result segment containing a collection of blob items whose names begin with the specified prefix.
	BeginListContainersSegmented	Overloaded. Begins an asynchronous request to return a result segment containing a collection of containers.
	BeginSetServiceProperties	Begins an asynchronous operation to set an account's Blob service properties, including Windows Azure Storage Analytics.
	EndGetServiceProperties	Ends an asynchronous operation to get an account's Blob service properties.
	EndListBlobsWithPrefixSegmented	Ends an asynchronous operation to return a result segment containing a collection of blob items whose names begin with the specified prefix.
	EndListContainersSegmented	Ends an asynchronous operation to return a result segment containing a collection of containers.
	EndSetServiceProperties	Ends an asynchronous operation to set an account's Blob service properties.
	Equals	(Inherited from Object)
		Returns a reference to a

 GetBlobDirectoryReference	CloudBlobDirectory object with the specified address.
 GetBlobReference	Overloaded.
 GetBlockBlob	This method is obsolete; use GetBlockBlobReference instead. Obsolete.
 GetBlockBlobReference	Overloaded.
 GetContainerReference	Returns a reference to a CloudBlobContainer object with the specified address.
 GetHashCode	(Inherited from Object)
 GetPageBlob	This method is obsolete; use GetPageBlobReference . Obsolete.
 GetPageBlobReference	Overloaded.
 GetServiceProperties	Gets the properties of a storage account's Blob service, including Windows Azure Storage Analytics.
 GetType	(Inherited from Object)
 ListBlobsWithPrefix	Overloaded. Returns an enumerable collection of blob items whose names begin with the specified prefix.
 ListBlobsWithPrefixSegmented	Overloaded. Returns a result segment containing a collection of blob items whose names begin with the specified prefix.
 ListContainers	Overloaded. Returns an enumerable collection of containers.
 ListContainersSegmented	Overloaded. Returns a result segment containing a collection of containers whose names begin with the specified prefix.
	Sets the properties of a storage

	<u>SetServiceProperties</u>	account's Blob service, including Windows Azure Storage Analytics and default service version.
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlobClient  
Dim callback As AsyncCallback  
Dim state As Object  
Dim returnValue As IAsyncResult  
  
returnValue = instance.BeginGetServiceProperties(cal.
```

▣ Syntax

Visual Basic

```
Public Function BeginGetServiceProperties ( _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginGetServiceProperties (  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Name	Description
CloudBlobClient.BeginListBlobsWithPrefixSegmented(String, AsyncCallback, Object)	Begins an asynchronous operation to return a result segment containing a collection of blob items whose names begin with the specified prefix.
CloudBlobClient.BeginListBlobsWithPrefixSegmented(String, Int32, ResultContinuation, AsyncCallback, Object)	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.

▣ See Also

Reference

[CloudBlobClient Class](#)

[CloudBlobClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobClient.BeginListBlobsWithPrefixSegmented Method (String, 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.

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.BeginListBlobsWithPrefixSegment
```

▣ Syntax

Visual Basic

```
Public Function BeginListBlobsWithPrefixSegmented ( _  
    prefix As String, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginListBlobsWithPrefixSegmented(  
    (  
        string prefix,  
        AsyncCallback callback,  
        Object state  
    )  
)
```

C++

```
public:  
IAsyncResult^ BeginListBlobsWithPrefixSegmented (   
    String^ prefix,  
    AsyncCallback^ callback,  
    Object^ state  
)
```

J#

JScript

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.

▣ 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.

C#

```
static void ListBlobsInSegmentsAsynchronously(Uri blobEndpoint, string containerName, string blobPrefix)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

    //Begin the operation to return a page of up to 100 blobs
    blobClient.BeginListBlobsWithPrefixSegmented("lo", 100, null, null, null, null);
}

static void ListBlobsInSegmentsCallback(IAsyncResult asyncResult)
{
    CloudBlobClient blobClient = (CloudBlobClient)asyncResult.AsyncState;

    //End the operation.
    ResultSegment<IListBlobItem> resultSegment = blobClient.EndListBlobsWithPrefixSegmented(
        "lo", 100, null, null, null, null, asyncResult);

    //Enumerate the blob items.
    foreach (var blobItem in resultSegment.Results)
    {
        Console.WriteLine(blobItem.Uri);
    }

    //Check the continuation token to determine whether to get the next segment.
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ 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.BeginListBlobsWithPrefixSegment
```

▣ Syntax

Visual Basic

```
Public Function BeginListBlobsWithPrefixSegmented ( _  
    prefix As String, _  
    maxResults As Integer, _  
    continuationToken As ResultContinuation, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginListBlobsWithPrefixSegmenter  
(  
    string prefix,  
    int maxResults,  
    ResultContinuation continuationToken,  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
public:  
IAsyncResult^ BeginListBlobsWithPrefixSegmented (  
    String^ prefix,  
    int maxResults,  
    ResultContinuation^ continuationToken,  
    AsyncCallback^ callback,  
    Object^ state  
)
```

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. 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.

C#

```
static void ListBlobsInSegmentsAsynchronously(Uri blobEndpoint, string containerName, string blobPrefix)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

    //Begin the operation to return the first segment
    blobClient.BeginListBlobsWithPrefixSegmented(containerName, blobPrefix, null, null, null, null, null, null, null, null);
}

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 to get the next segment.
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

Name	Description
CloudBlobClient.BeginListContainersSegmented (AsyncCallback, Object)	Begins an asynchronous request to return a result segment containing a collection of containers.
CloudBlobClient.BeginListContainersSegmented (String, ContainerListingDetails, AsyncCallback, Object)	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.
CloudBlobClient.BeginListContainersSegmented (String, ContainerListingDetails, Int32, ResultContinuation, AsyncCallback, Object)	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.
	Begins an asynchronous

[CloudBlobClient.BeginListContainersSegmented
\(String, AsyncCallback, Object\)](#)

request to return a result segment containing a collection of containers whose names begin with the specified prefix.

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlobClient  
Dim callback As AsyncCallback  
Dim state As Object  
Dim returnValue As IAsyncResult  
  
returnValue = instance.BeginListContainersSegmented(
```


▣ Syntax

Visual Basic

```
Public Function BeginListContainersSegmented ( _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginListContainersSegmented (  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
public:  
IAsyncResult^ BeginListContainersSegmented (  
    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 sample lists containers in the storage account asynchronously, in result segments of ten containers at a time.

C#

```
static void ListContainersInSegmentsAsynchronously(Uri uri, string endpoint)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey(endpoint));

    //Begin the operation to return the first segment
    blobClient.BeginListContainersSegmented(
        "", ContainerListingDetails.None, 10, null, null, null, null, null, null);
}

static void ListContainersInSegmentsCallback(IAsyncResult asyncResult)
{
    CloudBlobClient blobClient = (CloudBlobClient)asyncResult.AsyncState;
    ResultSegment<CloudBlobContainer> resultSegment = blobClient.EndListContainersSegmented(
        asyncResult, null);

    //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);
        }
    }
}
```

```
        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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ 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(|
```

▣ Syntax

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.

C#

```
static void ListContainersInSegmentsAsynchronously(Uri uri)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey(accountName, accountKey));

    //Begin the operation to return the first segment
    blobClient.BeginListContainersSegmented(
        "", ContainerListingDetails.None, 10, null, null,
        ListContainersInSegmentsCallback, null);
}

static void ListContainersInSegmentsCallback(IAsyncResult asyncResult)
{
    CloudBlobClient blobClient = (CloudBlobClient)resultSegment.AsyncState;
    ResultSegment<CloudBlobContainer> resultSegment = blobClient.EndListContainersSegmented(
        asyncResult, null);

    //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);
        }
    }
}
```

```
        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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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)

▣ Usage

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

```
Public Function BeginListContainersSegmented ( _  
    prefix As String, _  
    detailsIncluded As ContainerListingDetails, _  
    maxResults As Integer, _  
    continuationToken As ResultContinuation, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginListContainersSegmented (   
    string prefix,   
    ContainerListingDetails detailsIncluded,   
    int maxResults,   
    ResultContinuation continuationToken,   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
public:   
IAsyncResult^ BeginListContainersSegmented (   
    String^ prefix,   
    ContainerListingDetails detailsIncluded,   
    int maxResults,   
    ResultContinuation^ continuationToken,   
    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.

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.

C#

```
static void ListContainersInSegmentsAsynchronously(Uri uri, string endpoint)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey(accountName, accountKey));

    //Begin the operation to return the first segment
    blobClient.BeginListContainersSegmented(
        "", ContainerListingDetails.None, 10, null, null, null, null, null, null, null);
}

static void ListContainersInSegmentsCallback(IAsyncResult asyncResult)
{
    CloudBlobClient blobClient = (CloudBlobClient)resultSegment.AsyncState;
    ResultSegment<CloudBlobContainer> resultSegment = blobClient.EndListContainersSegmented(
        asyncResult, null);

    //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);
        }
    }
}
```

```
        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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlobClient Class](#)

[CloudBlobClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobClient.BeginListContainersSegmented Method (String, 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 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.BeginListContainersSegmented(|
```

▣ Syntax

Visual Basic

```
Public Function BeginListContainersSegmented ( _  
    prefix As String, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginListContainersSegmented (   
    string prefix,   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
public:   
IAsyncResult^ BeginListContainersSegmented (   
    String^ prefix,   
    AsyncCallback^ callback,   
    Object^ state   
)
```

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.

■ Example

The following code sample lists containers in the storage account asynchronously, in result segments of ten containers at a time.

C#

```
static void ListContainersInSegmentsAsynchronously(Uri uri)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Begin the operation to return the first segment
    blobClient.BeginListContainersSegmented(
        "", ContainerListingDetails.None, 10, null, null, null, null, null, null, null);
}

static void ListContainersInSegmentsCallback(IAsyncResult asyncResult)
{
    CloudBlobClient blobClient = (CloudBlobClient)resultSegment.AsyncState;
    ResultSegment<CloudBlobContainer> resultSegment = blobClient.EndListContainersSegmented(
        asyncResult, null);

    //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);
        }
    }
}
```

```
        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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlobClient Class](#)

[CloudBlobClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobClient.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 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(prop
```

▣ Syntax

Visual Basic

```
Public Function BeginSetServiceProperties ( _  
    properties As ServiceProperties, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginSetServiceProperties (   
    ServiceProperties properties,   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
public:   
IAsyncResult^ BeginSetServiceProperties (   
    ServiceProperties^ properties,   
    AsyncCallback^ callback,   
    Object^ state   
)
```

J#

JScript

Parameters

properties

The Blob 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, 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlobClient  
Dim asyncResult As IAsyncResult  
Dim returnValue As ServiceProperties  
  
returnValue = instance.EndGetServiceProperties(asyncI
```

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlobClient Class](#)

[CloudBlobClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

[ServiceProperties](#)

CloudBlobClient.EndListBlobsWithPrefixSegmented 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 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.EndListBlobsWithPrefixSegment()
```

▣ Syntax

Visual Basic

```
Public Function EndListBlobsWithPrefixSegmented ( _  
    asyncResult As IAsyncResult _  
) As ResultSegment(Of IListBlobItem)
```

C#

```
public ResultSegment<IListBlobItem> EndListBlobsWith  
(  
    IAsyncResult asyncResult  
)
```

C++

```
public:  
ResultSegment<IListBlobItem^>^ EndListBlobsWithPrefix  
(  
    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 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.

C#

```
static void ListBlobsInSegmentsAsynchronously(Uri blobEndpoint, string containerName, string blobPrefix)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

    //Begin the operation to return a page of up to 100 blobs
    blobClient.BeginListBlobsWithPrefixSegmented("lo", 100, null, null, null, null);
}

static void ListBlobsInSegmentsCallback(IAsyncResult asyncResult)
{
    CloudBlobClient blobClient = (CloudBlobClient)asyncResult.AsyncState;

    //End the operation.
    ResultSegment<IListBlobItem> resultSegment = blobClient.EndListBlobsWithPrefixSegmented(
        "lo", 100, null, null, null, null, asyncResult);

    //Enumerate the blob items.
    foreach (var blobItem in resultSegment.Results)
    {
        Console.WriteLine(blobItem.Uri);
    }

    //Check the continuation token to determine whether to continue
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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 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.

C#

```
static void ListContainersInSegmentsAsynchronously(Uri uri)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Begin the operation to return the first segment
    blobClient.BeginListContainersSegmented(
        "", ContainerListingDetails.None, 10, null, null,
        ListContainersInSegmentsCallback, null);
}

static void ListContainersInSegmentsCallback(IAsyncResult asyncResult)
{
    CloudBlobClient blobClient = (CloudBlobClient)resultSegment.AsyncState;
    ResultSegment<CloudBlobContainer> resultSegment = blobClient.EndListContainersSegmented(
        asyncResult, null);

    //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);
        }
    }
}
```

```
        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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlobClient Class](#)

[CloudBlobClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

[ServiceProperties](#)

CloudBlobClient.GetBlobDirectoryReference 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 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

```
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#

```
public CloudBlobDirectory GetBlobDirectoryReference  
    string blobDirectoryAddress  
)
```

C++

```
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

Type: [Microsoft.WindowsAzure.StorageClient.CloudBlobDirectory](#)

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.

C#

```
static void ListBlobsInDirectory(Uri blobEndpoint, string containerName)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

    //Get a reference to a blob directory in a container
    CloudBlobDirectory blobDir = blobClient.GetBlobDirectory(containerName);

    //List blobs and directories in this blob directory
    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);
    }
}
```

```
        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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

[See Also](#)



[This 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

Name	Description
CloudBlobClient.GetBlobReference(String)	Returns a reference to a CloudBlob with the specified address.
CloudBlobClient.GetBlobReference(String, Nullable)	Returns a reference to a blob with the specified address, and with the specified snapshot timestamp, if the blob is a snapshot.

▣ See Also

Reference

[CloudBlobClient Class](#)

[CloudBlobClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Naming and Referencing Containers, Blobs, and Metadata](#)

CloudBlobClient.GetBlobReference 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 reference to a [CloudBlob](#) 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 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

C#

```
//Get a reference to a blob using a relative address
CloudBlob publicBlob = publicClient.GetBlobReference

//Get a reference to a blob using an absolute address
CloudBlob publicBlob = publicClient.GetBlobReference
```

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

```
Dim instance As CloudBlobClient  
Dim blobAddress As String  
Dim snapshotTime As Nullable(Of DateTime)  
Dim returnValue As CloudBlob  
  
returnValue = instance.GetBlobReference(blobAddress,
```

▣ Syntax

Visual Basic

```
Public Function GetBlobReference ( _  
    blobAddress As String, _  
    snapshotTime As Nullable(Of DateTime) _  
) As CloudBlob
```

C#

```
public CloudBlob GetBlobReference (  
    string blobAddress,  
    Nullable<DateTime> snapshotTime  
)
```

C++

```
public:  
CloudBlob^ GetBlobReference (  
    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 container 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.

C#

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

    //Get a reference to a blob and populate it with data
    CloudBlob myBlob = blobClient.GetBlobReference("myBlob");
    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 to the blob
    myBlob.CopyFromBlob(blobClient.GetBlobReference(blobSnapshot1.Uri));
}
```

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

```
Dim instance As CloudBlobClient  
Dim blobAddress As String  
Dim returnValue As CloudBlockBlob  
  
returnValue = instance.GetBlockBlob(blobAddress)
```

▣ Syntax

Visual Basic

```
<ObsoleteAttribute> _  
<EditorBrowsableAttribute(EditorBrowsableState.Never  
Public Function GetBlockBlob ( _  
    blobAddress As String _  
) As CloudBlockBlob
```

C#

```
[ObsoleteAttribute]  
[EditorBrowsableAttribute(EditorBrowsableState.Never  
public CloudBlockBlob GetBlockBlob (   
    string blobAddress  
)
```

C++

```
[ObsoleteAttribute]  
[EditorBrowsableAttribute(EditorBrowsableState::Never  
public:  
CloudBlockBlob^ GetBlockBlob (   
    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.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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Name	Description
CloudBlobClient.GetBlockBlobReference(String)	Returns a reference to a CloudBlockBlob with the specified address.
CloudBlobClient.GetBlockBlobReference(String, Nullable)	Returns a reference to a CloudBlockBlob with the specified address, and with the specified snapshot timestamp, if the blob is a snapshot.

▣ See Also

Reference

[CloudBlobClient Class](#)

[CloudBlobClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobClient.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 [CloudBlockBlob](#) 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 CloudBlockBlob  
  
returnValue = instance.GetBlockBlobReference(blobAdd
```

▣ Syntax

Visual Basic

```
Public Function GetBlockBlobReference ( _  
    blobAddress As String _  
) As CloudBlockBlob
```

C#

```
public CloudBlockBlob GetBlockBlobReference (   
    string blobAddress  
)
```

C++

```
public:  
CloudBlockBlob^ GetBlockBlobReference (   
    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.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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlobClient  
Dim blobAddress As String  
Dim snapshotTime As Nullable(Of DateTime)  
Dim returnValue As CloudBlockBlob  
  
returnValue = instance.GetBlockBlobReference(blobAdd
```

▣ Syntax

Visual Basic

```
Public Function GetBlockBlobReference ( _  
    blobAddress As String, _  
    snapshotTime As Nullable(Of DateTime) _  
) As CloudBlockBlob
```

C#

```
public CloudBlockBlob GetBlockBlobReference (   
    string blobAddress,   
    Nullable<DateTime> snapshotTime   
)
```

C++

```
public:   
CloudBlockBlob^ GetBlockBlobReference (   
    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 container name.

snapshotTime

Type: [System.Nullable](#)

The snapshot timestamp, if the blob is a snapshot.

Return Value

Type: [Microsoft.WindowsAzure.StorageClient.CloudBlockBlob](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlobClient  
Dim containerAddress As String  
Dim returnValue As CloudBlobContainer  
  
returnValue = instance.GetContainerReference(containerAddress)
```

▣ Syntax

Visual Basic

```
Public Function GetContainerReference ( _  
    containerAddress As String _  
) As CloudBlobContainer
```

C#

```
public CloudBlobContainer GetContainerReference (   
    string containerAddress  
)
```

C++

```
public:  
CloudBlobContainer^ GetContainerReference (   
    String^ containerAddress  
)
```

J#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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.GetPageBlob(blobAddress)
```

▣ Syntax

Visual Basic

```
<EditorBrowsableAttribute(EditorBrowsableState.Never  
<ObsoleteAttribute> _  
Public Function GetPageBlob ( _  
    blobAddress As String _  
) As CloudPageBlob
```

C#

```
[EditorBrowsableAttribute(EditorBrowsableState.Never  
[ObsoleteAttribute]  
public CloudPageBlob GetPageBlob (  
    string blobAddress  
)
```

C++

```
[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 container 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Name	Description
CloudBlobClient.GetPageBlobReference(String)	Returns a reference to a CloudPageBlob object with the specified address.
CloudBlobClient.GetPageBlobReference(String, Nullable)	Returns a reference to a CloudPageBlob object with the specified address, and with the specified snapshot timestamp, if the blob is a snapshot.

▣ 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 container 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlobClient  
Dim blobAddress As String  
Dim snapshotTime As Nullable(Of DateTime)  
Dim returnValue As CloudPageBlob  
  
returnValue = instance.GetPageBlobReference(blobAddress).GetSnapshot(snapshotTime)
```


▣ Syntax

Visual Basic

```
Public Function GetPageBlobReference ( _  
    blobAddress As String, _  
    snapshotTime As Nullable(Of DateTime) _  
) As CloudPageBlob
```

C#

```
public CloudPageBlob GetPageBlobReference (  
    string blobAddress,  
    Nullable<DateTime> snapshotTime  
)
```

C++

```
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 container 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlobClient Class](#)

[CloudBlobClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobClient.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 Blob service, 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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Name	Description
CloudBlobClient.ListBlobsWithPrefix (String)	Returns an enumerable collection of blob items whose names begin with the specified prefix and that are retrieved lazily.
CloudBlobClient.ListBlobsWithPrefix (String, BlobRequestOptions)	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.

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlobClient  
Dim prefix As String  
Dim returnValue As IEnumerable(Of IListBlobItem)  
  
returnValue = instance.ListBlobsWithPrefix(prefix)
```

▣ Syntax

Visual Basic

```
Public Function ListBlobsWithPrefix ( _  
    prefix As String _  
) As IEnumerable(Of IListBlobItem)
```

C#

```
public IEnumerable<IListBlobItem> ListBlobsWithPrefix  
(  
    string prefix  
)
```

C++

```
public:  
IEnumerable<IListBlobItem^>^ ListBlobsWithPrefix (  
    String^ prefix  
)
```

J#

JScript

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)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

    //List blobs in container 'mycontainer' beginning with 'mycontainer/'
    //The results list only blobs directly beneath 'mycontainer/'
    foreach (var blobItem in blobClient.ListBlobsWithPrefix("mycontainer/"))
    {
        Console.WriteLine(blobItem.Uri);
    }

    //Results similar to:
    //http://storagesample.blob.core.windows.net/mycontainer/mycontainer/
    //http://storagesample.blob.core.windows.net/mycontainer/

    Console.WriteLine();

    //List blobs in container 'mycontainer' beginning with 'mycontainer/'
    //The results list all blobs beneath 'mycontainer/'
    BlobRequestOptions options = new BlobRequestOptions();
    options.UseFlatBlobListing = true;
    foreach (var blobItem in blobClient.ListBlobsWithPrefix("mycontainer/", options))
    {
        Console.WriteLine(blobItem.Uri);
    }

    //Results similar to:
    //http://storagesample.blob.core.windows.net/mycontainer/
```

```
//http://storagesample.blob.core.windows.net/myc  
//http://storagesample.blob.core.windows.net/myc  
//http://storagesample.blob.core.windows.net/myc  
//http://storagesample.blob.core.windows.net/myc  
//http://storagesample.blob.core.windows.net/myc  
}
```

☐ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlobClient Class](#)

[CloudBlobClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobClient.ListBlobsWithPrefix Method (String, 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 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, o
```

▣ Syntax

Visual Basic

```
Public Function ListBlobsWithPrefix ( _  
    prefix As String, _  
    options As BlobRequestOptions _  
) As IEnumerable(Of IListBlobItem)
```

C#

```
public IEnumerable<IListBlobItem> ListBlobsWithPrefix  
(  
    string prefix,  
    BlobRequestOptions options  
)
```

C++

```
public:  
IEnumerable<IListBlobItem^>^ ListBlobsWithPrefix (  
    String^ prefix,  
    BlobRequestOptions^ options  
)
```

J#

JScript

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)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

    //List blobs in container 'mycontainer' beginning with 'mycontainer/'
    //The results list only blobs directly beneath 'mycontainer/'
    foreach (var blobItem in blobClient.ListBlobsWithPrefix("mycontainer/"))
    {
        Console.WriteLine(blobItem.Uri);
    }

    //Results similar to:
    //http://storagesample.blob.core.windows.net/mycontainer/mycontainer/
    //http://storagesample.blob.core.windows.net/mycontainer/

    Console.WriteLine();

    //List blobs in container 'mycontainer' beginning with 'mycontainer/'
    //The results list all blobs beneath 'mycontainer/'
    BlobRequestOptions options = new BlobRequestOptions();
    options.UseFlatBlobListing = true;
    foreach (var blobItem in blobClient.ListBlobsWithPrefix("mycontainer/", options))
    {
        Console.WriteLine(blobItem.Uri);
    }

    //Results similar to:
    //http://storagesample.blob.core.windows.net/mycontainer/
```



```
//http://storagesample.blob.core.windows.net/myc  
//http://storagesample.blob.core.windows.net/myc  
//http://storagesample.blob.core.windows.net/myc  
//http://storagesample.blob.core.windows.net/myc  
//http://storagesample.blob.core.windows.net/myc  
}
```

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

Name	Description
CloudBlobClient.ListBlobsWithPrefixSegmented(String)	Returns a result segment containing a collection of blob items whose names begin with the specified prefix.
CloudBlobClient.ListBlobsWithPrefixSegmented(String, BlobRequestOptions)	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.
CloudBlobClient.ListBlobsWithPrefixSegmented(String, Int32, ResultContinuation)	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.
	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

[CloudBlobClient.ListBlobsWithPrefixSegmented
\(String, Int32, ResultContinuation,
BlobRequestOptions\)](#)

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.

▣ 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

```
Public Function ListBlobsWithPrefixSegmented ( _  
    prefix As String _  
) As ResultSegment(Of IListBlobItem)
```

C#

```
public ResultSegment<IListBlobItem> ListBlobsWithPre  
(  
    string prefix  
)
```

C++

```
public:  
ResultSegment<IListBlobItem^>^ ListBlobsWithPrefixSe  
(  
    String^ prefix  
)
```

J#

JScript

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.

C#

```
static void ListBlobsInSegments(Uri blobEndpoint, string containerName)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

    //Return blobs using a flat listing.
    BlobRequestOptions options = new BlobRequestOptions();
    options.UseFlatBlobListing = true;

    //List blobs in container 'lotsofblobs' beginning with 'a'
    //This first operation will return up to 5000 blobs
    ResultSegment<IListBlobItem> resultSegment = blobClient.ListBlobs(
        containerName, options, "a");
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlobClient Class](#)

[CloudBlobClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobClient.ListBlobsWithPrefixSegmented Method (String, 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.

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 ResultSegment(Of IListBlobItem)  
  
returnValue = instance.ListBlobsWithPrefixSegmented(|
```

▣ Syntax

Visual Basic

```
Public Function ListBlobsWithPrefixSegmented ( _  
    prefix As String, _  
    options As BlobRequestOptions _  
) As ResultSegment(Of IListBlobItem)
```

C#

```
public ResultSegment<IListBlobItem> ListBlobsWithPre  
(  
    string prefix,  
    BlobRequestOptions options  
)
```

C++

```
public:  
ResultSegment<IListBlobItem^>^ ListBlobsWithPrefixSe  
(  
    String^ prefix,  
    BlobRequestOptions^ options  
)
```

J#

JScript

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.

C#

```
static void ListBlobsInSegments(Uri blobEndpoint, string containerName)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

    //Return blobs using a flat listing.
    BlobRequestOptions options = new BlobRequestOptions();
    options.UseFlatBlobListing = true;

    //List blobs in container 'lotsofblobs' beginning with 'a'
    //This first operation will return up to 5000 blobs
    ResultSegment<IListBlobItem> resultSegment = blobClient.ListBlobsFlat(
        containerName, "a", 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ Usage

Visual Basic

```
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

```
Public Function ListBlobsWithPrefixSegmented ( _  
    prefix As String, _  
    maxResults As Integer, _  
    continuationToken As ResultContinuation _  
) As ResultSegment(Of IListBlobItem)
```

C#

```
public ResultSegment<IListBlobItem> ListBlobsWithPre  
(  
    string prefix,  
    int maxResults,  
    ResultContinuation continuationToken  
)
```

C++

```
public:  
ResultSegment<IListBlobItem^>^ ListBlobsWithPrefixSe  
(  
    String^ prefix,  
    int maxResults,  
    ResultContinuation^ continuationToken  
)
```

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.

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.

C#

```
static void ListBlobsInSegments(Uri blobEndpoint, string containerName)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsAnonymous());

    //Return blobs using a flat listing.
    BlobRequestOptions options = new BlobRequestOptions();
    options.UseFlatBlobListing = true;

    //List blobs in container 'lotsofblobs' beginning with 'a'
    //This first operation will return up to 5000 blobs
    ResultSegment<IListBlobItem> resultSegment = blobClient.ListBlobs(containerName, 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ 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)  
  
returnValue = instance.ListBlobsWithPrefixSegmented(|
```

▣ Syntax

Visual Basic

```
Public Function ListBlobsWithPrefixSegmented ( _  
    prefix As String, _  
    maxResults As Integer, _  
    continuationToken As ResultContinuation, _  
    options As BlobRequestOptions _  
) As ResultSegment(Of IListBlobItem)
```

C#

```
public ResultSegment<IListBlobItem> ListBlobsWithPre  
(  
    string prefix,  
    int maxResults,  
    ResultContinuation continuationToken,  
    BlobRequestOptions options  
)
```

C++

```
public:  
ResultSegment<IListBlobItem^>^ ListBlobsWithPrefixSe  
(  
    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.

C#

```
static void ListBlobsInSegments(Uri blobEndpoint, string containerName)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

    //Return blobs using a flat listing.
    BlobRequestOptions options = new BlobRequestOptions();
    options.UseFlatBlobListing = true;

    //List blobs in container 'lotsofblobs' beginning with 'a'
    //This first operation will return up to 5000 blobs
    ResultSegment<IListBlobItem> resultSegment = blobClient.ListBlobs(
        containerName, options, "a");
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

Name	Description
CloudBlobClient.ListContainers()	Returns an enumerable collection of containers.
CloudBlobClient.ListContainers(String)	Returns an enumerable collection of containers whose names begin with the specified prefix.
CloudBlobClient.ListContainers(String, ContainerListingDetails)	Returns an enumerable, lazily retrieved collection of containers whose names begin with the specified prefix, and optionally returns container metadata.

▣ 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

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

▣ Usage

Visual Basic

```
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.

▣ Example

The following code example demonstrates a few different options for listing containers in a storage account.

C#

```
static void ListContainersInAccount(Uri blobEndpoint,
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

    //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 name starts with 'c'
    foreach (var container in blobClient.ListContainers("c"))
    {
        Console.WriteLine("Container:" + container.Name);
    }
    Console.WriteLine();

    //List containers in this storage account whose name starts with 'c'
    //and return container metadata.
    //Note that requesting the container's metadata also
    //populates the metadata, so it's not necessary to request it separately.
    foreach (var container in blobClient.ListContainers("c", true))
    {
        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(metadataKey + ": " + container.Metadata[metadataKey]);
        }
    }
}
```

```
        {  
            Console.WriteLine("\tMetadata key: " + m);  
            Console.WriteLine("\tMetadata value: " + v);  
        }  
    }  
}
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlobClient Class](#)

[CloudBlobClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobClient.ListContainers 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 containers 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 IEnumerable(Of CloudBlobContainer  
  
returnValue = instance.ListContainers(prefix)
```

▣ Syntax

Visual Basic

```
Public Function ListContainers ( _  
    prefix As String _  
) As IEnumerable(Of CloudBlobContainer)
```

C#

```
public IEnumerable<CloudBlobContainer> ListContainers(  
    (  
        string prefix  
    )  
)
```

C++

```
public:  
IEnumerable<CloudBlobContainer^> ListContainers (  
    String^ prefix  
)
```

J#

JScript

Parameters

prefix

Type: [System.String](#)

The container name prefix.

Return Value

Type: System.Collections.Generic.IEnumerable

An enumerable collection of containers.

▣ Example

The following code example demonstrates a few different options for listing containers in a storage account.

C#

```
static void ListContainersInAccount(Uri blobEndpoint,
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

    //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 name starts with 'c'
    foreach (var container in blobClient.ListContainers("c"))
    {
        Console.WriteLine("Container:" + container.Name);
    }
    Console.WriteLine();

    //List containers in this storage account whose name starts with 'c'
    //and return container metadata.
    //Note that requesting the container's metadata also
    //populates the metadata, so it's not necessary to request it separately.
    foreach (var container in blobClient.ListContainers("c", true))
    {
        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(metadataKey + ": " + container.Metadata[metadataKey]);
        }
    }
}
```



```
        {  
            Console.WriteLine("\tMetadata key: " + m);  
            Console.WriteLine("\tMetadata value: " + v);  
        }  
    }  
}
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

```
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

```
Public Function ListContainers ( _  
    prefix As String, _  
    detailsIncluded As ContainerListingDetails _  
) As IEnumerable(Of CloudBlobContainer)
```

C#

```
public IEnumerable<CloudBlobContainer> ListContainers(  
    (  
        string prefix,  
        ContainerListingDetails detailsIncluded  
    )  
)
```

C++

```
public:  
IEnumerable<CloudBlobContainer^>^ ListContainers (  
    String^ prefix,  
    ContainerListingDetails detailsIncluded  
)
```

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.

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#

```
static void ListContainersInAccount(Uri blobEndpoint,
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

    //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 name starts with 'c'
    foreach (var container in blobClient.ListContainers("c"))
    {
        Console.WriteLine("Container:" + container.Name);
    }
    Console.WriteLine();

    //List containers in this storage account whose name starts with 'c'
    //and return container metadata.
    //Note that requesting the container's metadata also
    //populates the metadata, so it's not necessary to request it separately.
    foreach (var container in blobClient.ListContainers("c", true))
    {
        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(metadataKey + ": " + container.Metadata[metadataKey]);
        }
    }
}
```

```
        {  
            Console.WriteLine("\tMetadata key: " + m);  
            Console.WriteLine("\tMetadata value: " + v);  
        }  
    }  
}
```

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

Name	Description
CloudBlobClient.ListContainersSegmented()	Returns a result segment containing a collection of containers.
CloudBlobClient.ListContainersSegmented(String)	Returns a result segment containing a collection of containers whose names begin with the specified prefix.
CloudBlobClient.ListContainersSegmented(String, ContainerListingDetails, Int32, ResultContinuation)	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

▣ See Also

Reference

[CloudBlobClient Class](#)

[CloudBlobClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobClient.ListContainersSegmented 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 containers.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlobClient  
Dim returnValue As ResultSegment(Of CloudBlobContainer)  
  
returnValue = instance.ListContainersSegmented
```

▣ Syntax

Visual Basic

```
Public Function ListContainersSegmented As ResultSegm
```

C#

```
public ResultSegment<CloudBlobContainer> ListContain
```

C++

```
public:  
ResultSegment<CloudBlobContainer^>^ ListContainersSe
```

J#

JScript

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#

```
static void ListContainersInSegments(Uri blobEndpoint)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentials());

    //Return the first segment of 10 containers in the page.
    ResultSegment<CloudBlobContainer> resultSegment =
        blobClient.ListContainersSegmented("my", ContainerTypes.Any);

    //Print container names to the console.
    WriteContainersInResultSegment(resultSegment);

    //Check HasMoreResults to determine whether the page has more results.
    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 for more
    //results on the server.
    while (resultSegment.ContinuationToken != null)
    {
        resultSegment = resultSegment.GetNext();

        //Print container names to the console.
    }
}
```



```
        WriteContainersInResultSegment(resultSegment)
    }
}

static void WriteContainersInResultSegment(ResultSegment 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlobClient Class](#)

[CloudBlobClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobClient.ListContainersSegmented 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 containers 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 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.

Example

The following code example lists containers beginning with the specified prefix in pages of 10.

C#

```
static void ListContainersInSegments(Uri blobEndpoint)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsCommon());

    //Return the first segment of 10 containers in the page.
    ResultSegment<CloudBlobContainer> resultSegment =
        blobClient.ListContainersSegmented("my", ContainerQueryOptions.Default);

    //Print container names to the console.
    WriteContainersInResultSegment(resultSegment);

    //Check HasMoreResults to determine whether the page has more results.
    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 for more
    //results on the server.
    while (resultSegment.ContinuationToken != null)
    {
        resultSegment = resultSegment.GetNext();

        //Print container names to the console.
    }
}
```

```
        WriteContainersInResultSegment(resultSegment)
    }
}

static void WriteContainersInResultSegment(ResultSegment 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ Usage

Visual Basic

```
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.

C#

```
static void ListContainersInSegments(Uri blobEndpoint)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentials());

    //Return the first segment of 10 containers in the page.
    ResultSegment<CloudBlobContainer> resultSegment =
        blobClient.ListContainersSegmented("my", ContainerTypes.All);

    //Print container names to the console.
    WriteContainersInResultSegment(resultSegment);

    //Check HasMoreResults to determine whether the page has more results.
    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 for more
    //results on the server.
    while (resultSegment.ContinuationToken != null)
    {
        resultSegment = resultSegment.GetNext();

        //Print container names to the console.
    }
}
```

```
        WriteContainersInResultSegment(resultSegment)
    }
}

static void WriteContainersInResultSegment(ResultSegment 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlobClient  
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 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.

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

	Name	Description
	BaseUrl	Gets the base URI for the Blob service client.
	Credentials	Gets the account credentials used to create the Blob service client.
	DefaultDelimiter	Gets or sets the default delimiter that may be used to create a blob directory structure of blobs.
	ParallelOperationThreadCount	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.
	ReadAheadInBytes	Gets or sets the number of bytes to pre-fetch when reading from a stream.
	RetryPolicy	Gets or sets the default retry policy for requests made via the Blob service client.
	SingleBlobUploadThresholdInBytes	Gets or sets the maximum size of a blob in bytes that may be uploaded in a single operation, without using blocks.
	Timeout	Gets or sets the default timeout for requests made by the Blob service client.
	UseIntegrityControlForStreamReading	Gets or sets a value indicating whether the integrity of each block should be verified when reading from a stream.
	WriteBlockSizeInBytes	Gets or sets the block size for writing to a block blob.

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlobClient  
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](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlobClient Class](#)

[CloudBlobClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobClient.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 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

Visual Basic

Public Property Credentials As **StorageCredentials**

C#

```
public StorageCredentials Credentials { get; }
```

C++

```
public:  
property StorageCredentials^ Credentials {  
    StorageCredentials^ get ();  
}
```

J#

JScript

Property Value

Type: [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As CloudBlobClient  
Dim value As String  
  
value = instance.DefaultDelimiter  
instance.DefaultDelimiter = value
```

▣ Syntax

Visual Basic

```
Public Property DefaultDelimiter As String
```

C#

```
public string DefaultDelimiter { get; set; }
```

C++

```
public:  
property String^ DefaultDelimiter {  
    String^ get ();  
    void set (String^ value);  
}
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As CloudBlobClient  
Dim value As Integer  
  
value = instance.ParallelOperationThreadCount  
instance.ParallelOperationThreadCount = value
```

▣ Syntax

Visual Basic

```
Public Property ParallelOperationThreadCount As Integer
```

C#

```
public int ParallelOperationThreadCount { get; set; }
```

C++

```
public:  
property int ParallelOperationThreadCount {  
    int get ();  
    void set (int value);  
}
```

J#

JScript

Property Value

Type: [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlobClient Class](#)

[CloudBlobClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobClient.ReadAheadInBytes 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 bytes to pre-fetch 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 Long  
  
value = instance.ReadAheadInBytes  
instance.ReadAheadInBytes = value
```

▣ Syntax

Visual Basic

```
Public Property ReadAheadInBytes As Long
```

C#

```
public long ReadAheadInBytes { get; set; }
```

C++

```
public:  
property long long ReadAheadInBytes {  
    long long get ();  
    void set (long long value);  
}
```

J#

JScript

Property Value

Type: [System.Int64](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
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

Type: [Microsoft.WindowsAzure.StorageClient.RetryPolicy](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlobClient Class](#)

[CloudBlobClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobClient.SingleBlobUploadThresholdInBytes 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 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

```
Dim instance As CloudBlobClient  
Dim value As Long  
  
value = instance.SingleBlobUploadThresholdInBytes  
instance.SingleBlobUploadThresholdInBytes = value
```

▣ Syntax

Visual Basic

```
Public Property SingleBlobUploadThresholdInBytes As Long
```

C#

```
public long SingleBlobUploadThresholdInBytes { get; set; }
```

C++

```
public:  
property long long SingleBlobUploadThresholdInBytes  
    long long get ();  
    void set (long long value);  
}
```

J#

JScript

Property Value

Type: [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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)

▣ Usage

Visual Basic

```
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](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlobClient Class](#)

[CloudBlobClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Setting Timeouts for Blob Service Operations](#)

CloudBlobClient.UseIntegrityControlForStreamReading 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 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

Visual Basic

```
Public Property UseIntegrityControlForStreamReading ,
```

C#

```
public bool UseIntegrityControlForStreamReading { ge
```

C++

```
public:  
property bool UseIntegrityControlForStreamReading {  
    bool get ();  
    void set (bool value);  
}
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlobClient Class](#)

[CloudBlobClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobClient.WriteBlockSizeInBytes 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlobClient  
Dim value As Long  
  
value = instance.WriteBlockSizeInBytes  
instance.WriteBlockSizeInBytes = value
```

▣ Syntax

Visual Basic

```
Public Property WriteBlockSizeInBytes As Long
```

C#

```
public long WriteBlockSizeInBytes { get; set; }
```

C++

```
public:  
property long long WriteBlockSizeInBytes {  
    long long get ();  
    void set (long long value);  
}
```

J#

JScript

Property Value

Type: [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

	Name	Description
	ResponseReceived	Occurs when a response is received from the server.

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlobClient  
Dim handler As EventHandler(Of ResponseReceivedEvent,  
  
AddHandler instance.ResponseReceived, handler
```


▣ Syntax

Visual Basic

```
Public Event ResponseReceived As EventHandler(Of Res
```

C#

```
public event EventHandler<ResponseReceivedEventArgs>
```

C++

```
public:  
event EventHandler<ResponseReceivedEventArgs>^ Respo  
    void add (EventHandler<ResponseReceivedEvent  
    void remove (EventHandler<ResponseReceivedE  
}
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlobClient Class](#)

[CloudBlobClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobContainer 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 container in the Windows Azure Blob service.

Namespace: Microsoft.WindowsAzure.StorageClient

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

Usage

Visual Basic

```
Dim instance As CloudBlobContainer
```

☐ Syntax

Visual Basic

```
Public Class CloudBlobContainer
```

C#

```
public class CloudBlobContainer
```

C++

```
public ref class CloudBlobContainer
```

J#

JScript

▣ Inheritance Hierarchy

System.Object

Microsoft.WindowsAzure.StorageClient.CloudBlobContainer

☐ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlobContainer Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



CloudBlobContainer 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 container in the Windows Azure Blob service.

The following tables list the members exposed by the [CloudBlobContainer](#) type.

▣ **Public Constructors**

	Name	Description
	CloudBlobContainer	Overloaded.

[Top](#)

☐ **Public Properties**

	Name	Description
	<u>Attributes</u>	Gets the container's attributes.
	<u>Metadata</u>	Gets the container's metadata.
	<u>Name</u>	Gets the name of the container.
	<u>Properties</u>	Gets the container's system properties.
	<u>ServiceClient</u>	Gets the service client for the container.
	<u>Uri</u>	Gets the container's URI.

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	BeginCreate	Overloaded.
	BeginCreateIfNotExist	Overloaded.
	BeginDelete	Overloaded.
	BeginFetchAttributes	Overloaded.
	BeginGetPermissions	Overloaded.
	BeginListBlobsSegmented	Overloaded.
	BeginSetMetadata	Overloaded.
	BeginSetPermissions	Overloaded.
	Create	Overloaded.
	CreateIfNotExist	Overloaded.
	Delete	Overloaded.
	EndCreate	Ends an asynchronous operation to create a container.
	EndCreateIfNotExist	Returns the result of an asynchronous request to create the container if it does not already exist.
	EndDelete	Ends an asynchronous operation to delete a container.
	EndFetchAttributes	Ends an asynchronous operation to retrieve the container's attributes.
	EndGetPermissions	Returns the asynchronous result of the request to get the permissions settings for the container.
	EndListBlobsSegmented	Ends an asynchronous operation to return a result segment containing a collection of blob items in the container.
	EndSetMetadata	Ends an asynchronous request operation to set user-defined metadata on the container.
	EndSetPermissions	Returns the result of an asynchronous request to set permissions for the container.
	Equals	(Inherited from Object)

	FetchAttributes	Overloaded.
	GetBlobReference	Gets a reference to a blob in this container.
	GetBlockBlobReference	Gets a reference to a block blob in this container.
	GetDirectoryReference	Gets a reference to a virtual blob directory beneath this container.
	GetHashCode	(Inherited from Object)
	GetPageBlobReference	Gets a reference to a page blob in this container.
	GetPermissions	Overloaded.
	GetSharedAccessSignature	Overloaded.
	GetType	(Inherited from Object)
	ListBlobs	Overloaded.
	ListBlobsSegmented	Overloaded.
	SetMetadata	Overloaded.
	SetPermissions	Overloaded.
	ToString	(Inherited from Object)

[Top](#)

▣ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)
	<u>ParseETagAndLastModified</u>	

[Top](#)

▣ 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

Name	Description
CloudBlobContainer (String)	Initializes a new instance of the CloudBlobContainer class.
CloudBlobContainer (String, CloudBlobClient)	Initializes a new instance of the CloudBlobContainer class with a CloudBlobClient object that specifies the endpoint for the Blob service.
CloudBlobContainer (String, StorageCredentials)	Initializes a new instance of the CloudBlobContainer class using the storage account's authentication credentials.

▣ 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

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

▣ Usage

Visual Basic

```
Dim containerAddress As String
```

```
Dim instance As New CloudBlobContainer(containerAddress)
```

▣ Syntax

Visual Basic

```
Public Sub New ( _  
    containerAddress As String _  
)
```

C#

```
public CloudBlobContainer (  
    string containerAddress  
)
```

C++

```
public:  
CloudBlobContainer (  
    String^ containerAddress  
)
```

J#

JScript

Parameters

containerAddress

Type: [System.String](#)

The absolute URI to the container.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim containerAddress As String  
Dim service As CloudBlobClient  
  
Dim instance As New CloudBlobContainer(containerAddress)
```

▣ Syntax

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim containerAddress As String  
Dim credentials As StorageCredentials  
  
Dim instance As New CloudBlobContainer(containerAddress, credentials)
```

▣ Syntax

Visual Basic

```
Public Sub New ( _  
    containerAddress As String, _  
    credentials As StorageCredentials _  
)
```

C#

```
public CloudBlobContainer (  
    string containerAddress,  
    StorageCredentials credentials  
)
```

C++

```
public:  
CloudBlobContainer (  
    String^ containerAddress,  
    StorageCredentials^ credentials  
)
```

J#

JScript

Parameters

containerAddress

Type: [System.String](#)

The absolute URI to the container.

credentials

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

The account credentials.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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](#))**

	Name	Description
	BeginCreate	Overloaded.
	BeginCreateIfNotExist	Overloaded.
	BeginDelete	Overloaded.
	BeginFetchAttributes	Overloaded.
	BeginGetPermissions	Overloaded.
	BeginListBlobsSegmented	Overloaded.
	BeginSetMetadata	Overloaded.
	BeginSetPermissions	Overloaded.
	Create	Overloaded.
	CreateIfNotExist	Overloaded.
	Delete	Overloaded.
	EndCreate	Ends an asynchronous operation to create a container.
	EndCreateIfNotExist	Returns the result of an asynchronous request to create the container if it does not already exist.
	EndDelete	Ends an asynchronous operation to delete a container.
	EndFetchAttributes	Ends an asynchronous operation to retrieve the container's attributes.
	EndGetPermissions	Returns the asynchronous result of the request to get the permissions settings for the container.
	EndListBlobsSegmented	Ends an asynchronous operation to return a result segment containing a collection of blob items in the container.
	EndSetMetadata	Ends an asynchronous request operation to set user-defined metadata on the container.
	EndSetPermissions	Returns the result of an asynchronous request to set permissions for the container.
	Equals	(Inherited from Object)

 FetchAttributes	Overloaded.
 GetBlobReference	Gets a reference to a blob in this container.
 GetBlockBlobReference	Gets a reference to a block blob in this container.
 GetDirectoryReference	Gets a reference to a virtual blob directory beneath this container.
 GetHashCode	(Inherited from Object)
 GetPageBlobReference	Gets a reference to a page blob in this container.
 GetPermissions	Overloaded.
 GetSharedAccessSignature	Overloaded.
 GetType	(Inherited from Object)
 ListBlobs	Overloaded.
 ListBlobsSegmented	Overloaded.
 SetMetadata	Overloaded.
 SetPermissions	Overloaded.
 ToString	(Inherited from Object)

▣ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)
	<u>ParseETagAndLastModified</u>	

▣ 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.]

☐ Overload List

Name	Description
CloudBlobContainer.BeginCreate(BlobRequestOptions, AsyncCallback, Object)	Begins an asynchronous operation to create a container, using a conditional request based on the BlobRequestOptions that you specify.
CloudBlobContainer.BeginCreate(AsyncCallback, Object)	Begins an asynchronous operation to create a container.

▣ See Also

Reference

[CloudBlobContainer Class](#)

[CloudBlobContainer Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

[BlobRequestOptions](#)

Other Resources

[Naming and Referencing Containers, Blobs, and Metadata](#)

CloudBlobContainer.BeginCreate 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 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

```
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 IAAsyncResult
```

C#

```
public IAAsyncResult BeginCreate (  
    BlobRequestOptions options,  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
public:  
IAAsyncResult^ BeginCreate (  
    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 new container and defines metadata for it and handles the error in case a container with the same name already exists.

C#

```
static void CreateContainerAsync(Uri blobEndpoint, string containerName)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

    //Get a reference for the new container.
    CloudBlobContainer container = blobClient.GetContainerReference(containerName);

    //Define metadata for the container.
    container.Metadata["media"] = "video";

    //Begin the operation to create the container.
    container.BeginCreate(CreateContainerCallback, containerName);
}

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("Container " + container.Name + " already exists.");
        }
    }
}
```

```
        Console.WriteLine("Cannot create the con  
    }  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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)

[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 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.BeginCreate(callback, state)
```

▣ Syntax

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 creates a new container and defines metadata for it and handles the error in case a container with the same name already exists.

C#

```
static void CreateContainerAsync(Uri blobEndpoint, string containerName)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

    //Get a reference for the new container.
    CloudBlobContainer container = blobClient.GetContainerReference(containerName);

    //Define metadata for the container.
    container.Metadata["media"] = "video";

    //Begin the operation to create the container.
    container.BeginCreate(CreateContainerCallback, containerName);
}

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("Container " + container.Name + " already exists.");
        }
    }
}
```

```
        Console.WriteLine("Cannot create the con  
    }  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlobContainer Class](#)

[CloudBlobContainer Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobContainer.BeginCreateIfNotExist 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

Name	Description
CloudBlobContainer.BeginCreateIfNotExist(BlobRequestOptions, AsyncCallback, Object)	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.
CloudBlobContainer.BeginCreateIfNotExist(AsyncCallback, Object)	Begins an asynchronous request to create the container if it does not already exist.

▣ See Also

Reference

[CloudBlobContainer Class](#)

[CloudBlobContainer Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

[BlobRequestOptions](#)

Other Resources

[Naming and Referencing Containers, Blobs, and Metadata](#)

CloudBlobContainer.BeginCreateIfNotExist 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 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

```
Public Function BeginCreateIfNotExist ( _  
    options As BlobRequestOptions, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAAsyncResult
```

C#

```
public IAAsyncResult BeginCreateIfNotExist (   
    BlobRequestOptions options,   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
public:   
IAAsyncResult^ 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.

C#

```
static void CreateContainerIfNotExistsAsync(Uri blobEndpoint, string containerName)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

    //Get a reference for the new container.
    CloudBlobContainer container = blobClient.GetContainerReference(containerName);

    //Define metadata for the container.
    container.Metadata["media"] = "images";

    //Begin the operation to create the container.
    container.BeginCreateIfNotExist(CreateContainerIfNotExistsCallback, containerName);
}

static void CreateContainerIfNotExistsCallback(IAsyncResult result)
{
    CloudBlobContainer container = (CloudBlobContainer)result.AsyncState;
    //End the operation and indicate whether the container was created or not
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlobContainer Class](#)

[CloudBlobContainer Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

[BlobRequestOptions](#)

Other Resources

[Naming and Referencing Containers, Blobs, and Metadata](#)

CloudBlobContainer.BeginCreateIfNotExist 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 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 IAsyncResult  
  
returnValue = instance.BeginCreateIfNotExist(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.

C#

```
static void CreateContainerIfNotExistsAsync(Uri blobEndpoint, string containerName)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

    //Get a reference for the new container.
    CloudBlobContainer container = blobClient.GetContainerReference(containerName);

    //Define metadata for the container.
    container.Metadata["media"] = "images";

    //Begin the operation to create the container.
    container.BeginCreateIfNotExist(CreateContainerIfNotExistsCallback, containerName);
}

static void CreateContainerIfNotExistsCallback(IAsyncResult result)
{
    CloudBlobContainer container = (CloudBlobContainer)result.AsyncState;
    //End the operation and indicate whether the container was created or not
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlobContainer Class](#)

[CloudBlobContainer Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Naming and Referencing Containers, Blobs, and Metadata](#)

CloudBlobContainer.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.]

☐ Overload List

Name	Description
CloudBlobContainer.BeginDelete(BlobRequestOptions, AsyncCallback, Object)	Begins an asynchronous operation to delete a container, using a conditional request based on the BlobRequestOptions that you specify.
CloudBlobContainer.BeginDelete(AsyncCallback, Object)	Begins an asynchronous operation to delete a container.

▣ 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

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.BeginDelete(options, callback,
```

▣ Syntax

Visual Basic

```
Public Function BeginDelete ( _  
    options As BlobRequestOptions, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAAsyncResult
```

C#

```
public IAAsyncResult 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlobContainer Class](#)

[CloudBlobContainer Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

[BlobRequestOptions](#)

CloudBlobContainer.BeginDelete 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 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

Visual Basic

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlobContainer Class](#)

[CloudBlobContainer Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobContainer.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.]

☐ Overload List

Name	Description
CloudBlobContainer.BeginFetchAttributes(BlobRequestOptions, AsyncCallback, Object)	Begins an asynchronous operation to retrieve the container's attributes, using a conditional request based on the BlobRequestOptions that you specify.
CloudBlobContainer.BeginFetchAttributes(AsyncCallback, Object)	Begins an asynchronous operation to retrieve the container's attributes.

▣ See Also

Reference

[CloudBlobContainer Class](#)

[CloudBlobContainer Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

[BlobRequestOptions](#)

CloudBlobContainer.BeginFetchAttributes 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 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

Visual Basic

```
Public Function BeginFetchAttributes ( _  
    options As BlobRequestOptions, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAAsyncResult
```

C#

```
public IAAsyncResult BeginFetchAttributes (   
    BlobRequestOptions options,   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
public:   
IAAsyncResult^ BeginFetchAttributes (   
    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 retrieves a container's attributes and writes out its properties and metadata.

C#

```
static void FetchContainerAttributesAsync(Uri blobEndpoint, string containerName)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

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

    //Populate the container's properties and metadata.
    container.BeginFetchAttributes(FetchContainerAttributesAsyncCallback, null);
}

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.Properties.LastModifiedUtc);
        Console.WriteLine("\tETag: " + container.Attributes.ETag);
    }
    catch { }
}
```

```
        Console.WriteLine();

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlobContainer Class](#)

[CloudBlobContainer Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

[BlobRequestOptions](#)

CloudBlobContainer.BeginFetchAttributes 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 retrieve the container's attributes.

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.BeginFetchAttributes(callback,
```

▣ Syntax

Visual Basic

```
Public Function BeginFetchAttributes ( _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginFetchAttributes (  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
public:  
IAsyncResult^ BeginFetchAttributes (  
    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 retrieves a container's attributes and writes out its properties and metadata.

C#

```
static void FetchContainerAttributesAsync(Uri blobEndpoint, string containerName)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

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

    //Populate the container's properties and metadata.
    container.BeginFetchAttributes(FetchContainerAttributesAsyncCallback);
}

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.Properties.LastModifiedUtc);
        Console.WriteLine("\tETag: " + container.Attributes.ETag);
    }
    catch (Exception ex)
    {
        Console.WriteLine("Exception: {0}", ex.Message);
    }
}
```

```

        Console.WriteLine();

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

Name	Description
CloudBlobContainer.BeginGetPermissions(BlobRequestOptions, AsyncCallback, Object)	Begins an asynchronous request to get the permissions settings for the container, using a conditional request based on the BlobRequestOptions that you specify.
CloudBlobContainer.BeginGetPermissions(AsyncCallback, Object)	Begins an asynchronous request to get the permissions settings for the container.

▣ 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

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.BeginGetPermissions(options, (
```

▣ Syntax

Visual Basic

```
Public Function BeginGetPermissions ( _  
    options As BlobRequestOptions, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAAsyncResult
```

C#

```
public IAAsyncResult BeginGetPermissions (   
    BlobRequestOptions options,   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
public:   
IAAsyncResult^ BeginGetPermissions (   
    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 **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlobContainer Class](#)

[CloudBlobContainer Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

[BlobRequestOptions](#)

[BlobContainerPermissions](#)

Other Resources

[Managing Access to Blobs and Containers](#)

CloudBlobContainer.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

```
Public Function BeginGetPermissions ( _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginGetPermissions (   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
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](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Name	Description
CloudBlobContainer.BeginListBlobsSegmented(BlobRequestOptions, AsyncCallback, Object)	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.
CloudBlobContainer.BeginListBlobsSegmented(AsyncCallback, Object)	Begins an asynchronous operation to return a result segment containing a collection of blob items in the container.
CloudBlobContainer.BeginListBlobsSegmented(Int32, ResultContinuation, BlobRequestOptions, AsyncCallback, Object)	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.

▣ 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

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.BeginListBlobsSegmented(option
```


▣ 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

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlobContainer Class](#)

[CloudBlobContainer Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

[BlobRequestOptions](#)

CloudBlobContainer.BeginListBlobsSegmented 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 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

```
Dim instance As CloudBlobContainer  
Dim callback As AsyncCallback  
Dim state As Object  
Dim returnValue As IAsyncResult  
  
returnValue = instance.BeginListBlobsSegmented(callback,
```


▣ Syntax

Visual Basic

```
Public Function BeginListBlobsSegmented ( _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginListBlobsSegmented (  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
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](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ 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(maxRe:
```


▣ Syntax

Visual Basic

```
Public Function BeginListBlobsSegmented ( _  
    maxResults As Integer, _  
    continuationToken As ResultContinuation, _  
    options As BlobRequestOptions, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginListBlobsSegmented (  
    int maxResults,  
    ResultContinuation continuationToken,  
    BlobRequestOptions options,  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
public:  
IAsyncResult^ BeginListBlobsSegmented (  
    int maxResults,  
    ResultContinuation^ continuationToken,  
    BlobRequestOptions^ options,  
    AsyncCallback^ callback,  
    Object^ state  
)
```

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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Name	Description
CloudBlobContainer.BeginSetMetadata (BlobRequestOptions, AsyncCallback, Object)	Begins an asynchronous operation to set user-defined metadata on the container using a conditional request based on the BlobRequestOptions that you specify.
CloudBlobContainer.BeginSetMetadata (AsyncCallback, Object)	Begins an asynchronous operation to set user-defined metadata on the container.

▣ See Also

Reference

[CloudBlobContainer Class](#)

[CloudBlobContainer Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

[BlobRequestOptions](#)

CloudBlobContainer.BeginSetMetadata 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 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

```
Dim instance As CloudBlobContainer  
Dim options As BlobRequestOptions  
Dim callback As AsyncCallback  
Dim state As Object  
Dim returnValue As IAsyncResult  
  
returnValue = instance.BeginSetMetadata(options, cal.
```

▣ 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:   
IAsyncResult^ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Public Function BeginSetMetadata ( _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginSetMetadata (   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
public:   
IAsyncResult^ BeginSetMetadata (   
    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 **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Name	Description
CloudBlobContainer.BeginSetPermissions(BlobContainerPermissions, BlobRequestOptions, AsyncCallback, Object)	Begins an asynchronous request to set permissions for the container, using a conditional request based on the BlobRequestOptions that you specify.
CloudBlobContainer.BeginSetPermissions(BlobContainerPermissions, AsyncCallback, Object)	Begins an asynchronous request to set permissions for the container.

▣ 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, 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 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(permission
```

▣ Syntax

Visual Basic

```
Public Function BeginSetPermissions ( _  
    permissions As BlobContainerPermissions, _  
    options As BlobRequestOptions, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginSetPermissions (  
    BlobContainerPermissions permissions,  
    BlobRequestOptions options,  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As CloudBlobContainer  
Dim permissions As BlobContainerPermissions  
Dim callback As AsyncCallback  
Dim state As Object  
Dim returnValue As IAsyncResult  
  
returnValue = instance.BeginSetPermissions(permission
```

▣ Syntax

Visual Basic

```
Public Function BeginSetPermissions ( _  
    permissions As BlobContainerPermissions, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAAsyncResult
```

C#

```
public IAAsyncResult BeginSetPermissions (   
    BlobContainerPermissions permissions,   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
public:   
IAAsyncResult^ BeginSetPermissions (   
    BlobContainerPermissions^ permissions,   
    AsyncCallback^ callback,   
    Object^ state   
)
```

J#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Name	Description
CloudBlobContainer.Create()	Creates the container.
CloudBlobContainer.Create(BlobRequestOptions)	Creates the container using a conditional request based on the BlobRequestOptions that you specify.

▣ 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)

▣ Usage

Visual Basic

```
Dim instance As CloudBlobContainer  
instance.Create
```

☐ Syntax

Visual Basic

```
Public Sub Create
```

C#

```
public void Create ()
```

C++

```
public:  
void Create ()
```

J#

JScript

Example

The following code example creates a container named **\$root**. If the container might already exist, use [CreateIfNotExist](#).

C#

```
var account = CloudStorageAccount.Parse(
    "AccountName=myAccount;AccountKey=myAccountKey;DefaultEndpointsProtocol=https;BlobEndpoint=https://myaccount.blob.core.windows.net/;QueueEndpoint=https://myaccount.queue.core.windows.net/;TableEndpoint=https://myaccount.table.core.windows.net/");
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

```
Dim instance As CloudBlobContainer  
Dim options As BlobRequestOptions  
  
instance.Create(options)
```

▣ Syntax

Visual Basic

```
Public Sub Create ( _  
    options As BlobRequestOptions _  
)
```

C#

```
public void Create (  
    BlobRequestOptions options  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlobContainer Class](#)

[CloudBlobContainer Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

[BlobRequestOptions](#)

Other Resources

[Naming and Referencing Containers, Blobs, and Metadata](#)

CloudBlobContainer.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.]

☐ Overload List

Name	Description
CloudBlobContainer.CreateIfNotExist()	Creates the container if it does not already exist.
CloudBlobContainer.CreateIfNotExist(BlobRequestOptions)	Creates the container if it does not already exist, using a conditional request based on the BlobRequestOptions that you specify.

▣ 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](#)



[This 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](#)

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 fileName)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint);

    //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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlobContainer  
Dim options As BlobRequestOptions  
Dim returnValue As Boolean  
  
returnValue = instance.CreateIfNotExist(options)
```

▣ Syntax

Visual Basic

```
Public Function CreateIfNotExist ( _  
    options As BlobRequestOptions _  
) As Boolean
```

C#

```
public bool CreateIfNotExist (  
    BlobRequestOptions options  
)
```

C++

```
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 fileName)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint);

    //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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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.]

☐ Overload List

Name	Description
CloudBlobContainer.Delete()	Deletes the container.
CloudBlobContainer.Delete(BlobRequestOptions)	Deletes the container using a conditional request based on the BlobRequestOptions that you specify.

▣ See Also

Reference

[CloudBlobContainer Class](#)

[CloudBlobContainer Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

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.]

Deletes the container.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlobContainer  
instance.Delete
```

☐ Syntax

Visual Basic

```
Public Sub Delete
```

C#

```
public void Delete ()
```

C++

```
public:  
void Delete ()
```

J#

JScript

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlobContainer Class](#)

[CloudBlobContainer Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobContainer.Delete 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.]

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)

▣ Usage

Visual Basic

```
Dim instance As CloudBlobContainer  
Dim options As BlobRequestOptions  
  
instance.Delete(options)
```

▣ Syntax

Visual Basic

```
Public Sub Delete ( _  
    options As BlobRequestOptions _  
)
```

C#

```
public void Delete (  
    BlobRequestOptions options  
)
```

C++

```
public:  
void Delete (  
    BlobRequestOptions^ options  
)
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As CloudBlobContainer  
Dim asyncResult As IAsyncResult  
  
instance.EndCreate(asyncResult)
```


▣ Syntax

Visual Basic

```
Public Sub EndCreate ( _  
    asyncResult As IAsyncResult _  
)
```

C#

```
public void EndCreate (  
    IAsyncResult asyncResult  
)
```

C++

```
public:  
void EndCreate (  
    IAsyncResult^ asyncResult  
)
```

J#

JScript

Parameters

asyncResult

Type: [System.IAsyncResult](#)

An **IAsyncResult** that references the pending 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.

C#

```
static void CreateContainerAsync(Uri blobEndpoint, string containerName)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint);

    //Get a reference for the new container.
    CloudBlobContainer container = blobClient.GetContainerReference(containerName);

    //Define metadata for the container.
    container.Metadata["media"] = "video";

    //Begin the operation to create the container.
    container.BeginCreate(CreateContainerCallback, containerName, null);
}

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlobContainer Class](#)

[CloudBlobContainer Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobContainer.EndCreateIfNotExist 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 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(asyncResu.
```

▣ 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](#)

`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.

C#

```
static void CreateContainerIfNotExistsAsync(Uri blobUri, string containerName)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient(blobUri);

    //Get a reference for the new container.
    CloudBlobContainer container = blobClient.GetContainerReference(containerName);

    //Define metadata for the container.
    container.Metadata["media"] = "images";

    //Begin the operation to create the container.
    container.BeginCreateIfNotExist(CreateContainerIfNotExistsCallback, containerName);
}

static void CreateContainerIfNotExistsCallback(IAsyncResult result)
{
    CloudBlobContainer container = (CloudBlobContainer)result.AsyncState;
    //End the operation and indicate whether the container was created or not
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

```
Dim instance As CloudBlobContainer  
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As CloudBlobContainer  
Dim asyncResult As IAsyncResult  
  
instance.EndFetchAttributes(asyncResult)
```


▣ Syntax

Visual Basic

```
Public Sub EndFetchAttributes ( _  
    asyncResult As IAsyncResult _  
)
```

C#

```
public void EndFetchAttributes (  
    IAsyncResult asyncResult  
)
```

C++

```
public:  
void EndFetchAttributes (  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlobContainer  
Dim asyncResult As IAsyncResult  
Dim returnValue As BlobContainerPermissions  
  
returnValue = instance.EndGetPermissions(asyncResult
```

▣ Syntax

Visual Basic

```
Public Function EndGetPermissions ( _  
    asyncResult As IAsyncResult _  
) As BlobContainerPermissions
```

C#

```
public BlobContainerPermissions EndGetPermissions (   
    IAsyncResult asyncResult  
)
```

C++

```
public:  
BlobContainerPermissions^ EndGetPermissions (   
    IAsyncResult^ asyncResult  
)
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlobContainer  
Dim asyncResult As IAsyncResult  
Dim returnValue As ResultSegment(Of IListBlobItem)  
  
returnValue = instance.EndListBlobsSegmented(asyncRe:
```

▣ Syntax

Visual Basic

```
Public Function EndListBlobsSegmented ( _  
    asyncResult As IAsyncResult _  
) As ResultSegment(Of IListBlobItem)
```

C#

```
public ResultSegment<IListBlobItem> EndListBlobsSegmented  
(  
    IAsyncResult asyncResult  
)
```

C++

```
public:  
ResultSegment<IListBlobItem^>^ EndListBlobsSegmented  
(  
    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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlobContainer  
Dim asyncResult As IAsyncResult  
  
instance.EndSetPermissions(asyncResult)
```

▣ Syntax

Visual Basic

```
Public Sub EndSetPermissions ( _  
    asyncResult As IAsyncResult _  
)
```

C#

```
public void EndSetPermissions (  
    IAsyncResult asyncResult  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Name	Description
CloudBlobContainer.FetchAttributes()	Retrieves the container's attributes, including its system properties and user-defined metadata.
CloudBlobContainer.FetchAttributes(BlobRequestOptions)	Retrieves the container's attributes, including its system properties and user-defined metadata, using a conditional request based on the BlobRequestOptions that you specify.

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlobContainer  
instance.FetchAttributes
```

☐ Syntax

Visual Basic

```
Public Sub FetchAttributes
```

C#

```
public void FetchAttributes ()
```

C++

```
public:  
void FetchAttributes ()
```

J#

JScript

▣ Example

The following code example fetches the container's attributes and writes out its properties and metadata.

C#

```
static void ListContainerPropertiesAndMetadata(Uri blobUri)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient(blobUri)

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

    //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.LastModifiedUTC);
    Console.WriteLine("\tETag: " + container.ETag);
    Console.WriteLine();

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

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlobContainer Class](#)

[CloudBlobContainer Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Setting and Retrieving Properties and Metadata](#)

CloudBlobContainer.FetchAttributes 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.]

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

```
Dim instance As CloudBlobContainer  
Dim options As BlobRequestOptions  
  
instance.FetchAttributes(options)
```

▣ Syntax

Visual Basic

```
Public Sub FetchAttributes ( _  
    options As BlobRequestOptions _  
)
```

C#

```
public void FetchAttributes (  
    BlobRequestOptions options  
)
```

C++

```
public:  
void FetchAttributes (  
    BlobRequestOptions^ options  
)
```

J#

JScript

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.

C#

```
static void ListContainerPropertiesAndMetadata(Uri blobUri)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient(blobUri)

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

    //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.LastModifiedUTC);
    Console.WriteLine("\tETag: " + container.ETag);
    Console.WriteLine();

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

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlobContainer Class](#)

[CloudBlobContainer Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

[BlobRequestOptions](#)

Other Resources

[Setting and Retrieving Properties and Metadata](#)

CloudBlobContainer.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.]

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

```
Dim instance As CloudBlobContainer  
Dim blobAddressUri As String  
Dim returnValue As CloudBlob  
  
returnValue = instance.GetBlobReference(blobAddressU
```

▣ 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:

C#

```
public CloudBlob GetCloudBlob(string storageAccountName, string ke
{
    // Create a reference to the storage account.
    StorageCredentialsAccountAndKey storageCredentials = new Stora
    CloudStorageAccount storageAccount = new CloudStorageAccount(s

    // Create a reference to a blob container and a blob within th
    CloudBlobClient blobClient = storageAccount.CreateCloudBlobCli
    CloudBlobContainer container = blobClient.GetContainerReferenc
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlobContainer Class](#)

[CloudBlobContainer Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobContainer.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.]

Gets a reference to a block blob in this container.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlobContainer  
Dim blobAddressUri As String  
Dim returnValue As CloudBlockBlob  
  
returnValue = instance.GetBlockBlobReference(blobAdd
```

▣ 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:

C#

```
public CloudBlockBlob GetCloudBlockBlob(string storageAccountName,
{
    // Create a reference to the storage account.
    StorageCredentialsAccountAndKey storageCredentials = new StorageCredentialsAccountAndKey(storageAccountName, storageAccountKey);
    CloudStorageAccount storageAccount = new CloudStorageAccount(storageCredentials);

    // Create a reference to a blob container and a block blob within the container.
    CloudBlobClient blobClient = storageAccount.CreateCloudBlobClient();
    CloudBlobContainer container = blobClient.GetContainerReference(containerName);
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlobContainer Class](#)

[CloudBlobContainer Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobContainer.GetDirectoryReference 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 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

```
Dim instance As CloudBlobContainer  
Dim relativeAddress As String  
Dim returnValue As CloudBlobDirectory  
  
returnValue = instance.GetDirectoryReference(relativeAddress)
```

▣ Syntax

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

Type: [Microsoft.WindowsAzure.StorageClient.CloudBlobDirectory](#)

A reference to a virtual 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlobContainer Class](#)

[CloudBlobContainer Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobContainer.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.]

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

```
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:

C#

```
public CloudPageBlob GetCloudPageBlob(string storageAccountName, s
{
    // Create a reference to the storage account.
    StorageCredentialsAccountAndKey storageCredentials = new Stora
    CloudStorageAccount storageAccount = new CloudStorageAccount(s

    // Create a reference to a blob container and a page blob with
    CloudBlobClient blobClient = storageAccount.CreateCloudBlobCli
    CloudBlobContainer container = blobClient.GetContainerReferenc
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

Name	Description
CloudBlobContainer.GetPermissions()	Gets the permissions settings for the container.
CloudBlobContainer.GetPermissions(BlobRequestOptions)	Gets the permissions settings for the container, using a conditional request based on the BlobRequestOptions that you specify.

▣ 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.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.]

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

Visual Basic

```
Public Function GetPermissions As BlobContainerPermissions
```

C#

```
public BlobContainerPermissions GetPermissions ()
```

C++

```
public:  
BlobContainerPermissions^ GetPermissions ()
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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.GetPermissions 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.]

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

```
Dim instance As CloudBlobContainer  
Dim options As BlobRequestOptions  
Dim returnValue As BlobContainerPermissions  
  
returnValue = instance.GetPermissions(options)
```

▣ Syntax

Visual Basic

```
Public Function GetPermissions ( _  
    options As BlobRequestOptions _  
) As BlobContainerPermissions
```

C#

```
public BlobContainerPermissions GetPermissions (   
    BlobRequestOptions options  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Name	Description
CloudBlobContainer.GetSharedAccessSignature(SharedAccessPolicy)	Returns a shared access signature for a blob which grants access to the content and metadata of that blob.
CloudBlobContainer.GetSharedAccessSignature(SharedAccessPolicy, String)	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.

▣ 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

```
Dim instance As CloudBlobContainer  
Dim policy As SharedAccessPolicy  
Dim returnValue As String  
  
returnValue = instance.GetSharedAccessSignature(policy)
```

▣ Syntax

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.

C#

```
static void CreateSASUsingContainerAccessPolicy()
{
    //Retrieve storage account information from an app
    //This is one way to store and retrieve a connection string
    //that will run locally, rather than in Windows
    CloudStorageAccount storageAccount = CloudStorageAccount.Parse(
        "Use the Storage Account Name and Key to create the account object."
    );

    //Create the blob client object.
    CloudBlobClient blobClient = storageAccount.CreateCloudBlobClient();

    //Get a reference to the container for which shared access signature is to be created.
    CloudBlobContainer container = blobClient.GetContainerReference("mycontainer");
    container.CreateIfNotExist();

    //Create a permission policy, consisting of a container-level permission,
    //a public access setting, and store it on the container.
    BlobContainerPermissions containerPermissions = new BlobContainerPermissions();

    //The container-level access policy provides read access to the container.
    containerPermissions.SharedAccessPolicies.Add("myPolicy",
    {
        //If valid immediately, don't set SharedAccessStart time.
        //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(1);
        Permissions = SharedAccessPermissions.Write;
    });
}
```

```

//The public access setting explicitly specifies
//so that it can't be accessed anonymously.
containerPermissions.PublicAccess = BlobContainerPermissions.PublicAccess;

//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(0);

// Clients can use the signature to create a service client.
StorageCredentialsSharedAccessSignature sasCreds =
    new StorageCredentialsSharedAccessSignature(sas);
CloudBlobClient sasBlobClient = new CloudBlobClient(
    sasCreds, container.Uri.ToString());

//Return a reference to a blob.
CloudBlob blob = sasBlobClient.GetBlobReference("sasblob");

//Upload text to the blob. If the blob does not exist, it is 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 [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlobContainer Class](#)

[CloudBlobContainer Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Managing Access to Blobs and Containers](#)

CloudBlobContainer.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 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(policyIdentifier, groupPolicyIdentifier, expiresOn, permissions)
```


▣ Syntax

Visual Basic

```
Public Function GetSharedAccessSignature ( _  
    policy As SharedAccessPolicy, _  
    groupPolicyIdentifier As String _  
) As String
```

C#

```
public string GetSharedAccessSignature (  
    SharedAccessPolicy policy,  
    string groupPolicyIdentifier  
)
```

C++

```
public:  
String^ GetSharedAccessSignature (  
    SharedAccessPolicy^ policy,  
    String^ groupPolicyIdentifier  
)
```

J#

JScript

Parameters

policy

Type: [Microsoft.WindowsAzure.StorageClient.SharedAccessPolicy](#)

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
    //This is one way to store and retrieve a connection string
    //that will run locally, rather than in Windows
    CloudStorageAccount storageAccount =
        CloudStorageAccount.Parse(
            ConfigurationManager.AppSettings["StorageAccountName"]);

    //Create the blob client object.
    CloudBlobClient blobClient = storageAccount.CreateCloudBlobClient();

    //Get a reference to the container for which shared access policy is to be created
    CloudBlobContainer container = blobClient.GetContainerReference("mycontainer");
    container.CreateIfNotExist();

    //Create a permission policy, consisting of a container-level access policy,
    //a public access setting, and store it on the container
    BlobContainerPermissions containerPermissions = new BlobContainerPermissions();

    //The container-level access policy provides read access to the container
    containerPermissions.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(2)
    });
}
```

```

        Permissions = SharedAccessPermissions.Write
    });

    //The public access setting explicitly specifies
    //so that it can't be accessed anonymously.
    containerPermissions.PublicAccess = BlobContainerPermissions.PublicAccess;

    //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(0);

    // Clients can use the signature to create a service client.
    StorageCredentialsSharedAccessSignature sasCreds =
        new StorageCredentialsSharedAccessSignature(sas);
    CloudBlobClient sasBlobClient = new CloudBlobClient(sasCreds);
    new StorageCredentialsSharedAccessSignature(sas);

    //Return a reference to a blob.
    CloudBlob blob = sasBlobClient.GetBlobReference("sasblob");

    //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 [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

Name	Description
CloudBlobContainer.ListBlobs()	Returns an enumerable collection of the blobs in the container.
CloudBlobContainer.ListBlobs(BlobRequestOptions)	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.

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlobContainer  
Dim returnValue As IEnumerable(Of IListBlobItem)  
  
returnValue = instance.ListBlobs
```

▣ Syntax

Visual Basic

```
Public Function ListBlobs As IEnumerable(Of IListBlob)
```

C#

```
public IEnumerable<IListBlobItem> ListBlobs ()
```

C++

```
public:  
IEnumerable<IListBlobItem^>^ ListBlobs ()
```

J#

JScript

Return Value

Type: System.Collections.Generic.IEnumerable

An enumerable collection of objects that implement [IListBlobItem](#).

▣ Example

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#

```
static void ListBlobsInContainer(Uri blobEndpoint, string containerName)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
                             new StorageCredentialsAccountAndKey());

    //Get a reference to the container.
    CloudBlobContainer container = blobClient.GetContainerReference(containerName);

    //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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlobContainer Class](#)

[CloudBlobContainer Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobContainer.ListBlobs 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 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

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

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 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#

```
static void ListBlobsInContainer(Uri blobEndpoint, string containerName)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
            new StorageCredentialsAccountAndKey());

    //Get a reference to the container.
    CloudBlobContainer container = blobClient.GetContainerReference(containerName);

    //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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

Name	Description
CloudBlobContainer.ListBlobsSegmented(BlobRequestOptions)	Returns a result segment containing a collection of blob items in the container.
CloudBlobContainer.ListBlobsSegmented(Int32, ResultContinuation, BlobRequestOptions)	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.

▣ See Also

Reference

[CloudBlobContainer Class](#)

[CloudBlobContainer Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

[BlobRequestOptions](#)

CloudBlobContainer.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 in the container.

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 ResultSegment(Of IListBlobItem)  
  
returnValue = instance.ListBlobsSegmented(options)
```

▣ Syntax

Visual Basic

```
Public Function ListBlobsSegmented ( _  
    options As BlobRequestOptions _  
) As ResultSegment(Of IListBlobItem)
```

C#

```
public ResultSegment<IListBlobItem> ListBlobsSegmented(  
    (  
        BlobRequestOptions options  
    )  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
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

```
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#

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.

C#

```
static void ListBlobsInContainerInSegments(Uri blobEndpoint,
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
                            new StorageCredentialsAccountAndKey());

    //Get a reference to a container that contains blobs
    CloudBlobContainer container = blobClient.GetContainerReference(containerName);

    //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.ListBlobsFlat(
    foreach (var blobItem in resultSegment.Results)
    {
        Console.WriteLine(blobItem.Uri);
    }

    ResultContinuation continuationToken = resultSegment.ContinuationToken;

    //Check whether there are more results and list them
    while (continuationToken != null)
    {
        resultSegment = container.ListBlobsSegmented(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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlobContainer Class](#)

[CloudBlobContainer Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

[BlobRequestOptions](#)

CloudBlobContainer.ParseETagAndLastModified 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.StorageClient (in Microsoft.WindowsAzure.StorageClient.dll)

▣ Usage

Visual Basic

```
Dim response As HttpWebResponse  
Me.ParseETagAndLastModified(response)
```

▣ Syntax

Visual Basic

```
Protected Sub ParseETagAndLastModified ( _  
    response As HttpWebResponse _  
)
```

C#

```
protected void ParseETagAndLastModified (  
    HttpWebResponse response  
)
```

C++

```
protected:  
void ParseETagAndLastModified (  
    HttpWebResponse^ response  
)
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Name	Description
CloudBlobContainer.SetMetadata()	Sets the container's user-defined metadata.
CloudBlobContainer.SetMetadata(BlobRequestOptions)	Sets the container's user-defined metadata, using a conditional request based on the BlobRequestOptions that you specify.

▣ 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 ()

[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.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlobContainer  
instance.SetMetadata
```

▣ Syntax

Visual Basic

```
Public Sub SetMetadata
```

C#

```
public void SetMetadata ()
```

C++

```
public:  
void SetMetadata ()
```

J#

JScript

▣ Example

The following code example defines some metadata for a container and writes it to the container.

C#

```
static void WriteContainerMetadata(Uri blobEndpoint,
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
                            new StorageCredentialsAccountAndKey());

    //Return a container reference.
    CloudBlobContainer container = new CloudBlobContainer(blobEndpoint.ToString());

    //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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

```
Dim instance As CloudBlobContainer  
Dim options As BlobRequestOptions  
  
instance.SetMetadata(options)
```

▣ Syntax

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.

▣ Example

The following code example defines some metadata for a container and writes it to the container.

C#

```
static void WriteContainerMetadata(Uri blobEndpoint,
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint,
                            new StorageCredentialsAccountAndKey());

    //Return a container reference.
    CloudBlobContainer container = new CloudBlobContainer(blobEndpoint.ToString());

    //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
    container.SetMetadata(
        new BlobRequestOptions()
        { RetryPolicy = RetryPolicies.RetryExponential() },
        null);
}
```

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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](#)

❏ Overload List

Name	Description
CloudBlobContainer.SetPermissions(BlobContainerPermissions)	Sets permissions for the container.
CloudBlobContainer.SetPermissions(BlobContainerPermissions, BlobRequestOptions)	Sets permissions for the container, using a conditional request based on the BlobRequestOptions that you specify.

▣ 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)

[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.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlobContainer  
Dim permissions As BlobContainerPermissions  
  
instance.SetPermissions(permissions)
```


▣ Syntax

Visual Basic

```
Public Sub SetPermissions ( _  
    permissions As BlobContainerPermissions _  
)
```

C#

```
public void SetPermissions (  
    BlobContainerPermissions permissions  
)
```

C++

```
public:  
void SetPermissions (  
    BlobContainerPermissions^ permissions  
)
```

J#

JScript

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.

C#

```
static void CreateSAS()
{
    // Retrieve storage account information from an app configuration.
    // This is one way to store and retrieve a connection string.
    // an application that will run locally, rather than in the cloud.
    CloudStorageAccount storageAccount = CloudStorageAccount.FromConfigurationManager.AppSettings["StorageAccount"];

    // Create the blob client object.
    CloudBlobClient blobClient = storageAccount.CreateCloudBlobClient();

    // Get a reference to the container for which the shared access signature is generated.
    CloudBlobContainer container = blobClient.GetContainerReference("mycontainer");
    container.CreateIfNotExist();

    // Create a permission policy to set the public access level.
    BlobContainerPermissions containerPermissions = new BlobContainerPermissions();

    // The public access setting explicitly specifies the access level
    // so that it can't be accessed anonymously.
    containerPermissions.PublicAccess = BlobContainerPermissions.PublicAccessType.None;

    //Set the permission policy on the container.
    container.SetPermissions(containerPermissions);

    // Get the shared access signature to share with other applications.
    // specifying a signature-level access policy.
    string sas = container.GetSharedAccessSignature(
    {
```

```

        // A shared access signature not tied to a container
        // cannot be valid for more than 60 minutes.
        //If valid immediately, don't set SharedAccessStart
        //and specify a duration less than 60 minutes
        //to avoid clock skew risk.
        // SharedAccessStartTime = DateTime.UtcNow,

        SharedAccessExpiryTime = DateTime.UtcNow.AddMinutes(60),
        Permissions = SharedAccessPermissions.Write
    });

    //The shared access signature then can be used to create a blob client.
    //This code would likely be run from a different context, e.g. a web
    //demonstrate how to consume the shared access signature.

    //Create the blob client directly, using the shared access signature.
    CloudBlobClient sasBlobClient = new CloudBlobClient(
        new StorageCredentialsSharedAccessSignature(storageAccountName, sasToken));

    //Return a reference to a blob.
    CloudBlob blob = sasBlobClient.GetBlobReference("myblob");

    //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 signature");
}

```

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlobContainer  
Dim permissions As BlobContainerPermissions  
Dim options As BlobRequestOptions  
  
instance.SetPermissions(permissions, options)
```

▣ Syntax

Visual Basic

```
Public Sub SetPermissions ( _  
    permissions As BlobContainerPermissions, _  
    options As BlobRequestOptions _  
)
```

C#

```
public void SetPermissions (  
    BlobContainerPermissions permissions,  
    BlobRequestOptions options  
)
```

C++

```
public:  
void SetPermissions (  
    BlobContainerPermissions^ permissions,  
    BlobRequestOptions^ options  
)
```

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.

■ 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#

```
static void CreateSAS()
{
    // Retrieve storage account information from an app configuration.
    // This is one way to store and retrieve a connection string.
    // an application that will run locally, rather than in the cloud.
    CloudStorageAccount storageAccount = CloudStorageAccount.FromConfigurationManager.AppSettings["StorageAccount"];

    // Create the blob client object.
    CloudBlobClient blobClient = storageAccount.CreateCloudBlobClient();

    // Get a reference to the container for which the shared access signature is generated.
    CloudBlobContainer container = blobClient.GetContainerReference("mycontainer");
    container.CreateIfNotExists();

    // Create a permission policy to set the public access level.
    BlobContainerPermissions containerPermissions = new BlobContainerPermissions();

    // The public access setting explicitly specifies the access level.
    // so that it can't be accessed anonymously.
    containerPermissions.PublicAccess = BlobContainerPermissions.PublicAccessType.None;

    //Set the permission policy on the container.
    container.SetPermissions(containerPermissions);

    // Get the shared access signature to share with other applications.
    // specifying a signature-level access policy.
    string sas = container.GetSharedAccessSignature(
    {
```

```

        // A shared access signature not tied to a container
        // cannot be valid for more than 60 minutes.
        //If valid immediately, don't set SharedAccessSignature
        //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
        // cannot be valid for more than 60 minutes.

        //If valid immediately, don't set SharedAccessSignature
        //to avoid clock skew risk.
        // SharedAccessStartTime = DateTime.UtcNow,

        SharedAccessExpiryTime = DateTime.UtcNow.AddMinutes(60),
        Permissions = SharedAccessPermissions.Write
    });

    //The shared access signature then can be used to create a blob client.
    //This code would likely be run from a different context, e.g. a web API
    //to demonstrate how to consume the shared access signature.

    //Create the blob client directly, using the shared access signature.
    CloudBlobClient sasBlobClient = new CloudBlobClient(
        new StorageCredentialsSharedAccessSignature(sharedAccessSignature));

    //Return a reference to a blob.
    CloudBlob blob = sasBlobClient.GetBlobReference(containerName, blobName);

    //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 signature");
}

```

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlobContainer Class](#)

[CloudBlobContainer Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

[BlobRequestOptions](#)

[BlobContainerPermissions](#)

Other Resources

[Managing Access to Blobs and Containers](#)

CloudBlobContainer 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**

	Name	Description
	<u>Attributes</u>	Gets the container's attributes.
	<u>Metadata</u>	Gets the container's metadata.
	<u>Name</u>	Gets the name of the container.
	<u>Properties</u>	Gets the container's system properties.
	<u>ServiceClient</u>	Gets the service client for the container.
	<u>Uri</u>	Gets the container's URI.

▣ 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

```
Dim instance As CloudBlobContainer  
Dim value As BlobContainerAttributes  
  
value = instance.Attributes
```


▣ Syntax

Visual Basic

```
Public Property Attributes As BlobContainerAttributes
```

C#

```
public BlobContainerAttributes Attributes { get; }
```

C++

```
public:  
property BlobContainerAttributes^ Attributes {  
    BlobContainerAttributes^ get ();  
}
```

J#

JScript

Property Value

Type: [Microsoft.WindowsAzure.StorageClient.BlobContainerAttributes](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlobContainer Class](#)

[CloudBlobContainer Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobContainer.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 container's metadata.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlobContainer  
Dim value As NameValueCollection  
  
value = instance.Metadata
```

▣ 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](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As CloudBlobContainer  
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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As CloudBlobContainer  
Dim value As BlobContainerProperties  
  
value = instance.Properties
```

▣ Syntax

Visual Basic

```
Public ReadOnly Property Properties As BlobContainerProperties
```

C#

```
public BlobContainerProperties Properties { get; }
```

C++

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

J#

JScript

Property Value

Type: [Microsoft.WindowsAzure.StorageClient.BlobContainerProperties](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Visual Basic

```
Dim instance As CloudBlobContainer  
Dim value As CloudBlobClient  
  
value = instance.ServiceClient
```


▣ Syntax

Visual Basic

```
Public Property ServiceClient As CloudBlobClient
```

C#

```
public CloudBlobClient ServiceClient { get; }
```

C++

```
public:  
property CloudBlobClient^ ServiceClient {  
    CloudBlobClient^ get ();  
}
```

J#

JScript

Property Value

Type: [Microsoft.WindowsAzure.StorageClient.CloudBlobClient](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

Usage

Visual Basic

```
Dim instance As CloudBlobDirectory
```

▣ Syntax

Visual Basic

```
Public Class CloudBlobDirectory  
    Implements IListBlobItem
```

C#

```
public class CloudBlobDirectory : IListBlobItem
```

C++

```
public ref class CloudBlobDirectory : IListBlobItem
```

J#

JScript

▣ **Inheritance Hierarchy**

System.Object

Microsoft.WindowsAzure.StorageClient.CloudBlobDirectory

☐ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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**

	Name	Description
	Container	Gets the container for the blob directory.
	Parent	Gets the parent directory for the blob directory.
	ServiceClient	Gets the service client for the blob directory.
	Uri	Gets the URI that identifies the blob directory.

[Top](#)

☐ **Public Methods (see also [Protected Methods](#))**

	Name	Description
	BeginListBlobsSegmented	Overloaded.
	EndListBlobsSegmented	Ends an asynchronous request to return a result segment containing a collection of blob items.
	Equals	(Inherited from Object)
	GetBlobReference	Overloaded.
	GetBlockBlobReference	Overloaded.
	GetHashCode	(Inherited from Object)
	GetPageBlobReference	Overloaded.
	GetSubdirectory	Returns a blob subdirectory within this blob directory.
	GetType	(Inherited from Object)
	ListBlobs	Overloaded.
	ListBlobsSegmented	Overloaded.
	ToString	(Inherited from Object)

[Top](#)

▣ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ 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](#))**

	Name	Description
	BeginListBlobsSegmented	Overloaded.
	EndListBlobsSegmented	Ends an asynchronous request to return a result segment containing a collection of blob items.
	Equals	(Inherited from Object)
	GetBlobReference	Overloaded.
	GetBlockBlobReference	Overloaded.
	GetHashCode	(Inherited from Object)
	GetPageBlobReference	Overloaded.
	GetSubdirectory	Returns a blob subdirectory within this blob directory.
	GetType	(Inherited from Object)
	ListBlobs	Overloaded.
	ListBlobsSegmented	Overloaded.
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[CloudBlobDirectory Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



CloudBlobDirectory.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

Name	Description
CloudBlobDirectory.BeginListBlobsSegmented(BlobRequestOptions, AsyncCallback, Object)	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.
CloudBlobDirectory.BeginListBlobsSegmented(AsyncCallback, Object)	Begins an asynchronous request to return a result segment containing a collection of blob items.
CloudBlobDirectory.BeginListBlobsSegmented(Int32, ResultContinuation, BlobRequestOptions, AsyncCallback, Object)	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.

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlobDirectory  
Dim options As BlobRequestOptions  
Dim callback As AsyncCallback  
Dim state As Object  
Dim returnValue As IAsyncResult  
  
returnValue = instance.BeginListBlobsSegmented(option
```

▣ 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.

```
static void ListBlobsInDirectoryAsynchronously(Uri blobUri)
{
    //Create service client for credentialed access.
    CloudBlobClient blobClient = new CloudBlobClient(blobUri);

    //Get a reference to a blob directory.
    CloudBlobDirectory blobDir = blobClient.GetBlobDirectory();

    //Begin the operation to return the first segment.
    blobDir.BeginListBlobsSegmented(ListBlobsInDirectoryCallback);
}

static void ListBlobsInDirectoryCallback(IAsyncResult asyncResult)
{
    CloudBlobDirectory blobDir = (CloudBlobDirectory)asyncResult.AsyncState;
    //End the operation.
    ResultSegment<IListBlobItem> resultSegment = blobDir.EndListBlobsSegmented(asyncResult);

    //Enumerate the blob items.
    foreach (var blobItem in resultSegment.Results)
    {
        Console.WriteLine(blobItem.Uri);
    }

    //Check the continuation token to determine whether to continue.
    if (resultSegment.ContinuationToken != null)
    {
        //Get the next result segment, returning up to 1000 blobs.
        blobDir.BeginListBlobsSegmented(1000, resultSegment.ContinuationToken);
    }
}
```

}

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlobDirectory Class](#)

[CloudBlobDirectory Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobDirectory.BeginListBlobsSegmented 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 blob items.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlobDirectory  
Dim callback As AsyncCallback  
Dim state As Object  
Dim returnValue As IAsyncResult  
  
returnValue = instance.BeginListBlobsSegmented(callback,
```

▣ Syntax

Visual Basic

```
Public Function BeginListBlobsSegmented ( _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginListBlobsSegmented (  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
public:  
IAsyncResult^ BeginListBlobsSegmented (  
    AsyncCallback^ callback,  
    Object^ state  
)
```

J#

JScript

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 blobUri)
{
    //Create service client for credentialed access.
    CloudBlobClient blobClient = new CloudBlobClient(blobUri);

    //Get a reference to a blob directory.
    CloudBlobDirectory blobDir = blobClient.GetBlobDirectory();

    //Begin the operation to return the first segment.
    blobDir.BeginListBlobsSegmented(ListBlobsInDirectoryCallback);
}

static void ListBlobsInDirectoryCallback(IAsyncResult asyncResult)
{
    CloudBlobDirectory blobDir = (CloudBlobDirectory)asyncResult.AsyncState;
    //End the operation.
    ResultSegment<IListBlobItem> resultSegment = blobDir.EndListBlobsSegmented(asyncResult);

    //Enumerate the blob items.
    foreach (var blobItem in resultSegment.Results)
    {
        Console.WriteLine(blobItem.Uri);
    }

    //Check the continuation token to determine whether to continue.
    if (resultSegment.ContinuationToken != null)
    {
        //Get the next result segment, returning up to 1000 blobs.
        blobDir.BeginListBlobsSegmented(1000, resultSegment.ContinuationToken);
    }
}
```

}

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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 callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginListBlobsSegmented(maxRe:
```

▣ Syntax

Visual Basic

```
Public Function BeginListBlobsSegmented ( _  
    maxResults As Integer, _  
    continuationToken As ResultContinuation, _  
    options As BlobRequestOptions, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginListBlobsSegmented (  
    int maxResults,  
    ResultContinuation continuationToken,  
    BlobRequestOptions options,  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
public:  
IAsyncResult^ BeginListBlobsSegmented (  
    int maxResults,  
    ResultContinuation^ continuationToken,  
    BlobRequestOptions^ options,  
    AsyncCallback^ callback,  
    Object^ state  
)
```

J#

JScript

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.

```
static void ListBlobsInDirectoryAsynchronously(Uri blobUri)
{
    //Create service client for credentialed access.
    CloudBlobClient blobClient = new CloudBlobClient(blobUri);

    //Get a reference to a blob directory.
    CloudBlobDirectory blobDir = blobClient.GetBlobDirectory();

    //Begin the operation to return the first segment.
    blobDir.BeginListBlobsSegmented(ListBlobsInDirectoryCallback);
}

static void ListBlobsInDirectoryCallback(IAsyncResult asyncResult)
{
    CloudBlobDirectory blobDir = (CloudBlobDirectory)asyncResult.AsyncState;
    //End the operation.
    ResultSegment<IListBlobItem> resultSegment = blobDir.EndListBlobsSegmented(asyncResult);

    //Enumerate the blob items.
    foreach (var blobItem in resultSegment.Results)
    {
        Console.WriteLine(blobItem.Uri);
    }

    //Check the continuation token to determine whether to continue.
    if (resultSegment.ContinuationToken != null)
    {
        //Get the next result segment, returning up to 1000 blobs.
        blobDir.BeginListBlobsSegmented(1000, resultSegment.ContinuationToken, ListBlobsInDirectoryCallback);
    }
}
```


}

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlobDirectory Class](#)

[CloudBlobDirectory Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobDirectory.EndListBlobsSegmented 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 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

```
Dim instance As CloudBlobDirectory  
Dim asyncResult As IAsyncResult  
Dim returnValue As ResultSegment(Of IListBlobItem)  
  
returnValue = instance.EndListBlobsSegmented(asyncRe:
```


▣ Syntax

Visual Basic

```
Public Function EndListBlobsSegmented ( _  
    asyncResult As IAsyncResult _  
) As ResultSegment(Of IListBlobItem)
```

C#

```
public ResultSegment<IListBlobItem> EndListBlobsSegmented  
(  
    IAsyncResult asyncResult  
)
```

C++

```
public:  
ResultSegment<IListBlobItem^>^ EndListBlobsSegmented  
(  
    IAsyncResult^ asyncResult  
)
```

J#

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.

```
static void ListBlobsInDirectoryAsynchronously(Uri blobUri)
{
    //Create service client for credentialed access.
    CloudBlobClient blobClient = new CloudBlobClient(blobUri);

    //Get a reference to a blob directory.
    CloudBlobDirectory blobDir = blobClient.GetBlobDirectory();

    //Begin the operation to return the first segment.
    blobDir.BeginListBlobsSegmented(ListBlobsInDirectoryCallback);
}

static void ListBlobsInDirectoryCallback(IAsyncResult asyncResult)
{
    CloudBlobDirectory blobDir = (CloudBlobDirectory)asyncResult.AsyncState;
    //End the operation.
    ResultSegment<IListBlobItem> resultSegment = blobDir.EndListBlobsSegmented(asyncResult);

    //Enumerate the blob items.
    foreach (var blobItem in resultSegment.Results)
    {
        Console.WriteLine(blobItem.Uri);
    }

    //Check the continuation token to determine whether to continue.
    if (resultSegment.ContinuationToken != null)
    {
        //Get the next result segment, returning up to 1000 blobs.
        blobDir.BeginListBlobsSegmented(1000, resultSegment.ContinuationToken);
    }
}
```

}

☐ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlobDirectory Class](#)

[CloudBlobDirectory Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobDirectory.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

Name	Description
CloudBlobDirectory.GetBlobReference(String)	Returns a reference to a blob in this blob directory.
CloudBlobDirectory.GetBlobReference(String, Nullable)	Returns a reference to a blob in this blob directory, or the snapshot if the blob is a snapshot.

▣ 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

```
Dim instance As CloudBlobDirectory  
Dim itemName As String  
Dim returnValue As CloudBlob  
  
returnValue = instance.GetBlobReference(itemName)
```

▣ Syntax

Visual Basic

```
Public Function GetBlobReference ( _  
    itemName As String _  
) As CloudBlob
```

C#

```
public CloudBlob GetBlobReference (  
    string itemName  
)
```

C++

```
public:  
CloudBlob^ GetBlobReference (  
    String^ itemName  
)
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlobDirectory  
Dim itemName As String  
Dim snapshotTime As Nullable(Of DateTime)  
Dim returnValue As CloudBlob  
  
returnValue = instance.GetBlobReference(itemName, sn
```

▣ Syntax

Visual Basic

```
Public Function GetBlobReference ( _  
    itemName As String, _  
    snapshotTime As Nullable(Of DateTime) _  
) As CloudBlob
```

C#

```
public CloudBlob GetBlobReference (  
    string itemName,  
    Nullable<DateTime> snapshotTime  
)
```

C++

```
public:  
CloudBlob^ GetBlobReference (  
    String^ itemName,  
    Nullable<DateTime> snapshotTime  
)
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlobDirectory Class](#)

[CloudBlobDirectory Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobDirectory.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

Name	Description
CloudBlobDirectory.GetBlockBlobReference(String)	Returns a reference to a block blob in this blob directory.
CloudBlobDirectory.GetBlockBlobReference(String, Nullable)	Returns a reference to a block blob in this blob directory, or to a snapshot if the blob is a snapshot.

▣ 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

```
Dim instance As CloudBlobDirectory  
Dim itemName As String  
Dim returnValue As CloudBlockBlob  
  
returnValue = instance.GetBlockBlobReference(itemName)
```

▣ Syntax

Visual Basic

```
Public Function GetBlockBlobReference ( _  
    itemName As String _  
) As CloudBlockBlob
```

C#

```
public CloudBlockBlob GetBlockBlobReference (  
    string itemName  
)
```

C++

```
public:  
CloudBlockBlob^ GetBlockBlobReference (  
    String^ itemName  
)
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlobDirectory Class](#)

[CloudBlobDirectory Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

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

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

▣ Usage

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

```
Public Function GetBlockBlobReference ( _  
    itemName As String, _  
    snapshotTime As Nullable(Of DateTime) _  
) As CloudBlockBlob
```

C#

```
public CloudBlockBlob GetBlockBlobReference (   
    string itemName,   
    Nullable<DateTime> snapshotTime   
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlobDirectory Class](#)

[CloudBlobDirectory Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobDirectory.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

Name	Description
CloudBlobDirectory.GetPageBlobReference(String)	Returns a reference to a page blob in this blob directory.
CloudBlobDirectory.GetPageBlobReference(String, Nullable)	Returns a reference to a page blob in this blob directory, or to snapshot if the blob is a snapshot.

▣ See Also

Reference

[CloudBlobDirectory Class](#)

[CloudBlobDirectory Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobDirectory.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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlobDirectory Class](#)

[CloudBlobDirectory Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobDirectory.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 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)

▣ Usage

Visual Basic

```
Dim instance As CloudBlobDirectory  
Dim itemName As String  
Dim snapshotTime As Nullable(Of DateTime)  
Dim returnValue As CloudPageBlob  
  
returnValue = instance.GetPageBlobReference(itemName,
```

▣ Syntax

Visual Basic

```
Public Function GetPageBlobReference ( _  
    itemName As String, _  
    snapshotTime As Nullable(Of DateTime) _  
) As CloudPageBlob
```

C#

```
public CloudPageBlob GetPageBlobReference (   
    string itemName,   
    Nullable<DateTime> snapshotTime   
)
```

C++

```
public:   
CloudPageBlob^ GetPageBlobReference (   
    String^ itemName,   
    Nullable<DateTime> snapshotTime   
)
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlobDirectory Class](#)

[CloudBlobDirectory Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobDirectory.GetSubdirectory 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 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.

```
static void GetVirtualSubdirectory(Uri blobEndpoint,
{
    //Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient

    //Get a reference to a blob directory.
    CloudBlobDirectory blobDir = blobClient.GetBlobDir

    //Get a reference to a subdirectory in this direc
    CloudBlobDirectory subDir = blobDir.GetSubdirecto

    //Enumerate the blobs in the subdirectory.
    foreach (var blobItem in subDir.ListBlobs())
    {
        Console.WriteLine("Blob: " + blobItem.Uri);
        Console.WriteLine("Blob parent: " + blobItem
        Console.WriteLine("Blob container: " + blobI
        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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlobDirectory Class](#)

[CloudBlobDirectory Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobDirectory.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

Name	Description
CloudBlobDirectory.ListBlobs()	Returns an enumerable collection of items in this blob directory in a hierarchical listing.
CloudBlobDirectory.ListBlobs(BlobRequestOptions)	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.

▣ See Also

Reference

[CloudBlobDirectory Class](#)

[CloudBlobDirectory Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobDirectory.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 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

```
Dim instance As CloudBlobDirectory  
Dim returnValue As IEnumerable(Of IListBlobItem)  
  
returnValue = instance.ListBlobs
```

▣ Syntax

Visual Basic

```
Public Function ListBlobs As IEnumerable(Of IListBlobItem)
```

C#

```
public IEnumerable<IListBlobItem> ListBlobs ()
```

C++

```
public:  
IEnumerable<IListBlobItem^>^ ListBlobs ()
```

J#

JScript

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 containerName)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint);

    //Get a reference to a blob directory in a container
    CloudBlobDirectory blobDir = blobClient.GetBlobDirectory(containerName);

    //List blobs and directories in this blob directory
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlobDirectory Class](#)

[CloudBlobDirectory Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobDirectory.ListBlobs 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 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

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

▣ Usage

Visual Basic

```
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 containerName)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient(blobEndpoint.ToString());

    //Get a reference to a blob directory in a container
    CloudBlobDirectory blobDir = blobClient.GetBlobDirectory(containerName);

    //List blobs and directories in this blob directory
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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.]

☐ Overload List

Name	Description
CloudBlobDirectory.ListBlobsSegmented(BlobRequestOptions)	Returns a result segment containing a collection of blob items.
CloudBlobDirectory.ListBlobsSegmented(Int32, ResultContinuation, BlobRequestOptions)	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.

▣ 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

```
Dim instance As CloudBlobDirectory  
Dim options As BlobRequestOptions  
Dim returnValue As ResultSegment(Of IListBlobItem)  
  
returnValue = instance.ListBlobsSegmented(options)
```

▣ Syntax

Visual Basic

```
Public Function ListBlobsSegmented ( _  
    options As BlobRequestOptions _  
) As ResultSegment(Of IListBlobItem)
```

C#

```
public ResultSegment<IListBlobItem> ListBlobsSegmented(  
    (  
        BlobRequestOptions options  
    )  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlobDirectory Class](#)

[CloudBlobDirectory Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobDirectory 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

	Name	Description
	<u>Container</u>	Gets the container for the blob directory.
	<u>Parent</u>	Gets the parent directory for the blob directory.
	<u>ServiceClient</u>	Gets the service client for the blob directory.
	<u>Uri</u>	Gets the URI that identifies the blob directory.

▣ See Also

Reference

[CloudBlobDirectory Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



CloudBlobDirectory.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 container for the blob directory.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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)

▣ Usage

Visual Basic

```
Dim instance As CloudBlobDirectory  
Dim value As CloudBlobDirectory  
  
value = instance.Parent
```

▣ Syntax

Visual Basic

```
Public ReadOnly Property Parent As CloudBlobDirectory
```

C#

```
public CloudBlobDirectory Parent { get; }
```

C++

```
public:  
virtual property CloudBlobDirectory^ Parent {  
    CloudBlobDirectory^ get () sealed;  
}
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlobDirectory Class](#)

[CloudBlobDirectory Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlobDirectory.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 blob directory.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlobDirectory  
Dim value As CloudBlobClient  
  
value = instance.ServiceClient
```

▣ Syntax

Visual Basic

```
Public Property ServiceClient As CloudBlobClient
```

C#

```
public CloudBlobClient ServiceClient { get; }
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlobDirectory Class](#)

[CloudBlobDirectory Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlockBlob 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 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
```

☐ Syntax

Visual Basic

```
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.CloudBlob](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlockBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Understanding Block Blobs and Page Blobs](#)

CloudBlockBlob 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 that is uploaded as a set of blocks.

The following tables list the members exposed by the [CloudBlockBlob](#) type.

▣ **Public Constructors**

	Name	Description
	CloudBlockBlob	Overloaded.

[Top](#)

☐ Public Properties

	Name	Description
	Attributes	Gets the BlobAttributes object that represents the blob's attributes. (Inherited from CloudBlob)
	Container	Gets a CloudBlobContainer object representing the blob's container. (Inherited from CloudBlob)
	Metadata	Gets the blob's user-defined metadata. (Inherited from CloudBlob)
	Name	Gets the name of the blob. (Inherited from CloudBlob)
	Parent	Gets the CloudBlobDirectory object representing the virtual parent directory for the blob. (Inherited from CloudBlob)
	Properties	Gets the blob's system properties. (Inherited from CloudBlob)
	ServiceClient	Gets the CloudBlobClient object that represents the Blob service. (Inherited from CloudBlob)
	SnapshotTime	Gets the Date Time value that uniquely identifies the snapshot, if this blob is a snapshot. (Inherited from CloudBlob)
	ToBlockBlob	Gets a CloudBlockBlob object based on this blob. (Inherited from CloudBlob)
	ToPageBlob	Gets a CloudPageBlob object based on this blob. (Inherited from CloudBlob)
	Uri	Gets the URI that identifies the blob. (Inherited from CloudBlob)

[Top](#)

☐ **Public Methods (see also [Protected Methods](#))**

	Name	Description
	BeginCopyFromBlob	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)
	BeginCreateSnapshot	Overloaded. Begins an asynchronous operation to create a snapshot of the blob. (Inherited from CloudBlob)
	BeginDelete	Overloaded. Begins an asynchronous operation to delete the blob. (Inherited from CloudBlob)
	BeginDeleteIfExists	Overloaded. (Inherited from CloudBlob)
	BeginDownloadBlockList	Overloaded.
	BeginDownloadToStream	Overloaded. Begins an asynchronous operation to download the contents of a blob to a stream. (Inherited from CloudBlob)
	BeginFetchAttributes	Overloaded. Begins an asynchronous operation to populate the blob's properties and metadata. (Inherited from CloudBlob)
	BeginPutBlock	Overloaded.
	BeginPutBlockList	Overloaded.
	BeginSetMetadata	Overloaded. Begins an asynchronous operation to update the blob's metadata. (Inherited from CloudBlob)
	BeginSetProperties	Overloaded. (Inherited from CloudBlob)
	BeginUploadFromStream	Overloaded. (Inherited from CloudBlob)
	CopyFromBlob	Overloaded. (Inherited from CloudBlob)
	CreateSnapshot	Overloaded. (Inherited from CloudBlob)
	Delete	Overloaded. (Inherited from CloudBlob)
	DeleteIfExists	Overloaded. (Inherited from CloudBlob)
	DownloadBlockList	Overloaded.

 DownloadByteArray	Overloaded. Downloads the blob's contents as an array of bytes. (Inherited from CloudBlob)
 DownloadText	Overloaded. (Inherited from CloudBlob)
 DownloadToFile	Overloaded. (Inherited from CloudBlob)
 DownloadToStream	Overloaded. (Inherited from CloudBlob)
 EndCopyFromBlob	Ends an asynchronous operation to copy a blob's contents, properties, and metadata to a new blob. (Inherited from CloudBlob)
 EndCreateSnapshot	Ends an asynchronous operation to create a snapshot of the blob. (Inherited from CloudBlob)
 EndDelete	Ends an asynchronous operation to delete the blob. (Inherited from CloudBlob)
 EndDeleteIfExists	Ends an asynchronous operation to delete the blob if it exists. (Inherited from CloudBlob)
 EndDownloadBlockList	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.
 EndDownloadToStream	Ends an asynchronous operation to download the contents of a blob to a stream. (Inherited from CloudBlob)
 EndFetchAttributes	Ends an asynchronous operation to populate the blob's properties and metadata. (Inherited from CloudBlob)
 EndPutBlock	Ends an asynchronous operation to upload a single block.
 EndPutBlockList	Ends an asynchronous operation to upload a list of blocks to a new or existing blob.
 EndSetMetadata	Ends an asynchronous operation to update the blob's metadata. (Inherited from CloudBlob)
 EndSetProperties	Ends an asynchronous operation to update the blob's properties. (Inherited from CloudBlob)
	Ends an asynchronous operation to upload a

 EndUploadFromStream	blob from a stream. (Inherited from CloudBlob)
 Equals	(Inherited from Object)
 FetchAttributes	Overloaded. (Inherited from CloudBlob)
 GetHashCode	(Inherited from Object)
 GetSharedAccessSignature	Overloaded. (Inherited from CloudBlob)
 GetType	(Inherited from Object)
 OpenRead	Overloaded. (Inherited from CloudBlob)
 OpenWrite	Overloaded. (Inherited from CloudBlob)
 PutBlock	Overloaded.
 PutBlockList	Overloaded.
 SetMetadata	Overloaded. (Inherited from CloudBlob)
 SetProperties	Overloaded. (Inherited from CloudBlob)
 ToString	(Inherited from Object)
 UploadByteArray	Overloaded. (Inherited from CloudBlob)
 UploadFile	Overloaded. (Inherited from CloudBlob)
 UploadFromStream	Overloaded. (Inherited from CloudBlob)
 UploadText	Overloaded. (Inherited from CloudBlob)

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▣ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)
	<u>ParseSizeAndLastModified</u>	Parses values from a Blob service response. This method is protected. (Inherited from <u>CloudBlob</u>)

[Top](#)

▣ 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

Name	Description
CloudBlockBlob (String)	Initializes a new instance of the CloudBlockBlob class using an absolute URI to the blob.
CloudBlockBlob (String, CloudBlobClient)	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.
CloudBlockBlob (String, StorageCredentials)	Initializes a new instance of the CloudBlockBlob class using an absolute URI to the blob, and the storage account credentials.
CloudBlockBlob (String, StorageCredentials, Boolean)	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.
CloudBlockBlob (String, Boolean)	Initializes a new instance of the CloudBlockBlob class using an absolute URI to the blob, specifying whether path-style URIs are used.
CloudBlockBlob (String, Nullable, CloudBlobClient)	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.

▣ 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

```
Dim blobAbsoluteUri As String  
  
Dim instance As New CloudBlockBlob(blobAbsoluteUri)
```

▣ Syntax

Visual Basic

```
Public Sub New ( _  
    blobAbsoluteUri As String _  
)
```

C#

```
public CloudBlockBlob (  
    string blobAbsoluteUri  
)
```

C++

```
public:  
CloudBlockBlob (  
    String^ blobAbsoluteUri  
)
```

J#

JScript

Parameters

blobAbsoluteUri

Type: [System.String](#)

The absolute URI to the blob.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim blobUri As String  
Dim client As CloudBlobClient  
  
Dim instance As New CloudBlockBlob(blobUri, client)
```

▣ Syntax

Visual Basic

```
Public Sub New ( _  
    blobUri As String, _  
    client As CloudBlobClient _  
)
```

C#

```
public CloudBlockBlob (  
    string blobUri,  
    CloudBlobClient client  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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, c
```


▣ Syntax

Visual Basic

```
Public Sub New ( _  
    blobAbsoluteUri As String, _  
    credentials As StorageCredentials _  
)
```

C#

```
public CloudBlockBlob (  
    string blobAbsoluteUri,  
    StorageCredentials credentials  
)
```

C++

```
public:  
CloudBlockBlob (  
    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.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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 usePathStyleUri As Boolean  
  
Dim instance As New CloudBlockBlob(blobAbsoluteUri, (
```

▣ Syntax

Visual Basic

```
Public Sub New ( _  
    blobAbsoluteUri As String, _  
    credentials As StorageCredentials, _  
    usePathStyleUri As Boolean _  
)
```

C#

```
public CloudBlockBlob (  
    string blobAbsoluteUri,  
    StorageCredentials credentials,  
    bool usePathStyleUri  
)
```

C++

```
public:  
CloudBlockBlob (  
    String^ blobAbsoluteUri,  
    StorageCredentials^ credentials,  
    bool usePathStyleUri  
)
```

J#

JScript

Parameters

blobAbsoluteUri

Type: [System.String](#)

The absolute URI to the blob.

credentials

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

The account credentials.

usePathStyleUri

Type: [System.Boolean](#)

True to use path-style URIs; otherwise, **false**.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim blobAbsoluteUri As String  
Dim usePathStyleUri As Boolean  
  
Dim instance As New CloudBlockBlob(blobAbsoluteUri, ...)
```

▣ Syntax

Visual Basic

```
Public Sub New ( _  
    blobAbsoluteUri As String, _  
    usePathStyleUri As Boolean _  
)
```

C#

```
public CloudBlockBlob (  
    string blobAbsoluteUri,  
    bool usePathStyleUri  
)
```

C++

```
public:  
CloudBlockBlob (  
    String^ blobAbsoluteUri,  
    bool usePathStyleUri  
)
```

J#

JScript

Parameters

blobAbsoluteUri

Type: [System.String](#)

The absolute URI to the blob.

usePathStyleUri

Type: [System.Boolean](#)

True to use path-style URIs; otherwise, **false**.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim blobUri As String  
Dim snapshotTime As Nullable(Of DateTime)  
Dim client As CloudBlobClient  
  
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlockBlob Class](#)

[CloudBlockBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlockBlob 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](#))**

	Name	Description
	BeginCopyFromBlob	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)
	BeginCreateSnapshot	Overloaded. Begins an asynchronous operation to create a snapshot of the blob. (Inherited from CloudBlob)
	BeginDelete	Overloaded. Begins an asynchronous operation to delete the blob. (Inherited from CloudBlob)
	BeginDeleteIfExists	Overloaded. (Inherited from CloudBlob)
	BeginDownloadBlockList	Overloaded.
	BeginDownloadToStream	Overloaded. Begins an asynchronous operation to download the contents of a blob to a stream. (Inherited from CloudBlob)
	BeginFetchAttributes	Overloaded. Begins an asynchronous operation to populate the blob's properties and metadata. (Inherited from CloudBlob)
	BeginPutBlock	Overloaded.
	BeginPutBlockList	Overloaded.
	BeginSetMetadata	Overloaded. Begins an asynchronous operation to update the blob's metadata. (Inherited from CloudBlob)
	BeginSetProperties	Overloaded. (Inherited from CloudBlob)
	BeginUploadFromStream	Overloaded. (Inherited from CloudBlob)

 CopyFromBlob	Overloaded. (Inherited from CloudBlob)
 CreateSnapshot	Overloaded. (Inherited from CloudBlob)
 Delete	Overloaded. (Inherited from CloudBlob)
 DeleteIfExists	Overloaded. (Inherited from CloudBlob)
 DownloadBlockList	Overloaded.
 DownloadByteArray	Overloaded. Downloads the blob's contents as an array of bytes. (Inherited from CloudBlob)
 DownloadText	Overloaded. (Inherited from CloudBlob)
 DownloadToFile	Overloaded. (Inherited from CloudBlob)
 DownloadToStream	Overloaded. (Inherited from CloudBlob)
 EndCopyFromBlob	Ends an asynchronous operation to copy a blob's contents, properties, and metadata to a new blob. (Inherited from CloudBlob)
 EndCreateSnapshot	Ends an asynchronous operation to create a snapshot of the blob. (Inherited from CloudBlob)
 EndDelete	Ends an asynchronous operation to delete the blob. (Inherited from CloudBlob)
 EndDeleteIfExists	Ends an asynchronous operation to delete the blob if it exists. (Inherited from CloudBlob)
 EndDownloadBlockList	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.
 EndDownloadToStream	Ends an asynchronous operation to download the contents of a blob to a stream. (Inherited from CloudBlob)
 EndFetchAttributes	Ends an asynchronous operation to populate the blob's properties and metadata.

	(Inherited from CloudBlob)
 EndPutBlock	Ends an asynchronous operation to upload a single block.
 EndPutBlockList	Ends an asynchronous operation to upload a list of blocks to a new or existing blob.
 EndSetMetadata	Ends an asynchronous operation to update the blob's metadata. (Inherited from CloudBlob)
 EndSetProperties	Ends an asynchronous operation to update the blob's properties. (Inherited from CloudBlob)
 EndUploadFromStream	Ends an asynchronous operation to upload a blob from a stream. (Inherited from CloudBlob)
 Equals	(Inherited from Object)
 FetchAttributes	Overloaded. (Inherited from CloudBlob)
 GetHashCode	(Inherited from Object)
 GetSharedAccessSignature	Overloaded. (Inherited from CloudBlob)
 GetType	(Inherited from Object)
 OpenRead	Overloaded. (Inherited from CloudBlob)
 OpenWrite	Overloaded. (Inherited from CloudBlob)
 PutBlock	Overloaded.
 PutBlockList	Overloaded.
 SetMetadata	Overloaded. (Inherited from CloudBlob)
 SetProperties	Overloaded. (Inherited from CloudBlob)
 ToString	(Inherited from Object)
 UploadByteArray	Overloaded. (Inherited from CloudBlob)
 UploadFile	Overloaded. (Inherited from CloudBlob)
 UploadFromStream	Overloaded. (Inherited from CloudBlob)
 UploadText	Overloaded. (Inherited from CloudBlob)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)
	<u>ParseSizeAndLastModified</u>	Parses values from a Blob service response. This method is protected. (Inherited from <u>CloudBlob</u>)

▣ 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

Name	Description
CloudBlockBlob.BeginDownloadBlockList(BlockListingFilter, BlobRequestOptions, AsyncCallback, Object)	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 BlobRequestOption specified.
CloudBlockBlob.BeginDownloadBlockList(BlockListingFilter, AsyncCallback, Object)	Begins an asynchronous operation to return an enumerable collection of the blob's blocks, using the specified block list filter.

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlockBlob  
Dim blockListingFilter As BlockListingFilter  
Dim options As BlobRequestOptions  
Dim callback As AsyncCallback  
Dim state As Object  
Dim returnValue As IAsyncResult  
  
returnValue = instance.BeginDownloadBlockList(blockL:
```

▣ Syntax

Visual Basic

```
Public Function BeginDownloadBlockList ( _  
    blockListingFilter As BlockListingFilter, _  
    options As BlobRequestOptions, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginDownloadBlockList (  
    BlockListingFilter blockListingFilter,  
    BlobRequestOptions options,  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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(blockL:
```

▣ Syntax

Visual Basic

```
Public Function BeginDownloadBlockList ( _  
    blockListingFilter As BlockListingFilter, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginDownloadBlockList (  
    BlockListingFilter blockListingFilter,  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
public:  
IAsyncResult^ BeginDownloadBlockList (  
    BlockListingFilter blockListingFilter,  
    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.

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Name	Description
CloudBlockBlob.BeginPutBlock(String, Stream, String, BlobRequestOptions, AsyncCallback, Object)	Begins an asynchronous operation to upload a single block, using a conditional request based on the BlobRequestOptions specified.
CloudBlockBlob.BeginPutBlock(String, Stream, String, AsyncCallback, Object)	Begins an asynchronous operation to upload a single block.

▣ 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

```
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, callback, state, options)
```

▣ Syntax

Visual Basic

```
Public Function BeginPutBlock ( _  
    blockId As String, _  
    blockData As Stream, _  
    contentMD5 As String, _  
    options As BlobRequestOptions, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAAsyncResult
```

C#

```
public IAAsyncResult BeginPutBlock (  
    string blockId,  
    Stream blockData,  
    string contentMD5,  
    BlobRequestOptions options,  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
public:  
IAAsyncResult^ BeginPutBlock (  
    String^ blockId,  
    Stream^ blockData,  
    String^ contentMD5,  
    BlobRequestOptions^ options,  
    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.

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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, callback, state, null)
```

▣ Syntax

Visual Basic

```
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 [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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.]

❏ Overload List

Name	Description
CloudBlockBlob.BeginPutBlockList(IEnumerable, BlobRequestOptions, AsyncCallback, Object)	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.
CloudBlockBlob.BeginPutBlockList(IEnumerable, AsyncCallback, Object)	Begins an asynchronous operation to upload a list of blocks to a new or existing blob.

▣ 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

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

▣ Usage

Visual Basic

```
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, (
```

▣ 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

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlockBlob Class](#)

[CloudBlockBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Understanding Block Blobs and Page Blobs](#)

CloudBlockBlob.BeginPutBlockList Method (IEnumerable, 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.

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, (
```

▣ Syntax

Visual Basic

```
Public Function BeginPutBlockList ( _  
    blockList As IEnumerable(Of String), _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginPutBlockList (  
    IEnumerable<string> blockList,  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
public:  
IAsyncResult^ BeginPutBlockList (  
    IEnumerable<String^>^ blockList,  
    AsyncCallback^ callback,  
    Object^ state  
)
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Name	Description
CloudBlockBlob.DownloadBlockList()	Returns an enumerable collection of the committed blocks comprising the blob.
CloudBlockBlob.DownloadBlockList(BlobRequestOptions)	Returns an enumerable collection of the committed blocks comprising the blob, using a conditional request based on the BlobRequestOptions specified.
CloudBlockBlob.DownloadBlockList(BlockListingFilter)	Returns an enumerable collection of the blob's blocks, using the specified block list filter.
CloudBlockBlob.DownloadBlockList(BlockListingFilter, BlobRequestOptions)	Returns an enumerable collection of the blob's blocks, using the specified block list filter.

▣ See Also

Reference

[CloudBlockBlob Class](#)

[CloudBlockBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Understanding Block Blobs and Page Blobs](#)

CloudBlockBlob.DownloadBlockList 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 committed blocks comprising the blob.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlockBlob  
Dim returnValue As IEnumerable(Of ListBlockItem)  
  
returnValue = instance.DownloadBlockList
```

▣ Syntax

Visual Basic

```
Public Function DownloadBlockList As IEnumerable(Of I
```

C#

```
public IEnumerable<ListBlockItem> DownloadBlockList
```

C++

```
public:  
IEnumerable<ListBlockItem^>^ DownloadBlockList ()
```

J#

JScript

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)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient(
        new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a block blob.
    CloudBlockBlob blockBlob = blobClient.GetBlockBlob(blobEndpoint);

    //Download the committed blocks in the block list.
    foreach (var blockListItem in blockBlob.DownloadBlockList())
    {
        Console.WriteLine("Block ID: " + blockListItem.Id);
        Console.WriteLine("Block size: " + blockListItem.Size);
        Console.WriteLine("Is block committed?: " + blockListItem.IsCommitted);
        Console.WriteLine();
    }

    //Download only uncommitted blocks.
    foreach (var blockListItem in blockBlob.DownloadBlockList(true))
    {
        Console.WriteLine("Block ID: " + blockListItem.Id);
        Console.WriteLine("Block size: " + blockListItem.Size);
        Console.WriteLine("Is block committed?: " + blockListItem.IsCommitted);
        Console.WriteLine();
    }

    //Download all blocks.
    foreach (var blockListItem in blockBlob.DownloadBlockList(true, true))
    {
        Console.WriteLine("Block ID: " + blockListItem.Id);
        Console.WriteLine("Block size: " + blockListItem.Size);
        Console.WriteLine("Is block committed?: " + blockListItem.IsCommitted);
        Console.WriteLine();
    }
}
```

```
{
    Console.WriteLine("Block ID: " + blockListItem.Id);
    Console.WriteLine("Block size: " + blockListItem.Size);
    Console.WriteLine("Is block committed?: " + blockListItem.IsCommitted);
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlockBlob  
Dim options As BlobRequestOptions  
Dim returnValue As IEnumerable(Of ListBlockItem)  
  
returnValue = instance.DownloadBlockList(options)
```

▣ Syntax

Visual Basic

```
Public Function DownloadBlockList ( _  
    options As BlobRequestOptions _  
) As IEnumerable(Of ListBlockItem)
```

C#

```
public IEnumerable<ListBlockItem> DownloadBlockList  
    BlobRequestOptions options  
)
```

C++

```
public:  
IEnumerable<ListBlockItem^>^ DownloadBlockList (  
    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.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)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient(
        new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a block blob.
    CloudBlockBlob blockBlob = blobClient.GetBlockBlob(blobEndpoint);

    //Download the committed blocks in the block list.
    foreach (var blockListItem in blockBlob.DownloadBlockList())
    {
        Console.WriteLine("Block ID: " + blockListItem.Id);
        Console.WriteLine("Block size: " + blockListItem.Size);
        Console.WriteLine("Is block committed?: " + blockListItem.IsCommitted);
        Console.WriteLine();
    }

    //Download only uncommitted blocks.
    foreach (var blockListItem in blockBlob.DownloadBlockList(true))
    {
        Console.WriteLine("Block ID: " + blockListItem.Id);
        Console.WriteLine("Block size: " + blockListItem.Size);
        Console.WriteLine("Is block committed?: " + blockListItem.IsCommitted);
        Console.WriteLine();
    }

    //Download all blocks.
    foreach (var blockListItem in blockBlob.DownloadBlockList(true, true))
    {
        Console.WriteLine("Block ID: " + blockListItem.Id);
        Console.WriteLine("Block size: " + blockListItem.Size);
        Console.WriteLine("Is block committed?: " + blockListItem.IsCommitted);
        Console.WriteLine();
    }
}
```

```
{  
    Console.WriteLine("Block ID: " + blockListItem.Id);  
    Console.WriteLine("Block size: " + blockListItem.Size);  
    Console.WriteLine("Is block committed?: " + blockListItem.IsCommitted);  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient(
        new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a block blob.
    CloudBlockBlob blockBlob = blobClient.GetBlockBlob(blobEndpoint);

    //Download the committed blocks in the block list.
    foreach (var blockListItem in blockBlob.DownloadBlockList())
    {
        Console.WriteLine("Block ID: " + blockListItem.Id);
        Console.WriteLine("Block size: " + blockListItem.Size);
        Console.WriteLine("Is block committed?: " + blockListItem.IsCommitted);
        Console.WriteLine();
    }

    //Download only uncommitted blocks.
    foreach (var blockListItem in blockBlob.DownloadBlockList(true))
    {
        Console.WriteLine("Block ID: " + blockListItem.Id);
        Console.WriteLine("Block size: " + blockListItem.Size);
        Console.WriteLine("Is block committed?: " + blockListItem.IsCommitted);
        Console.WriteLine();
    }

    //Download all blocks.
    foreach (var blockListItem in blockBlob.DownloadBlockList(true, true))
    {
        Console.WriteLine("Block ID: " + blockListItem.Id);
        Console.WriteLine("Block size: " + blockListItem.Size);
        Console.WriteLine("Is block committed?: " + blockListItem.IsCommitted);
        Console.WriteLine();
    }
}
```

```
{  
    Console.WriteLine("Block ID: " + blockListItem.Id);  
    Console.WriteLine("Block size: " + blockListItem.Size);  
    Console.WriteLine("Is block committed?: " + blockListItem.IsCommitted);  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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, 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 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 options As BlobRequestOptions  
Dim returnValue As IEnumerable(Of ListBlockItem)  
  
returnValue = instance.DownloadBlockList(blockListingFilter, options)
```

▣ Syntax

Visual Basic

```
Public Function DownloadBlockList ( _  
    blockListingFilter As BlockListingFilter, _  
    options As BlobRequestOptions _  
) As IEnumerable(Of ListBlockItem)
```

C#

```
public IEnumerable<ListBlockItem> DownloadBlockList  
    BlockListingFilter blockListingFilter,  
    BlobRequestOptions options  
)
```

C++

```
public:  
IEnumerable<ListBlockItem^>^ DownloadBlockList (  
    BlockListingFilter blockListingFilter,  
    BlobRequestOptions^ options  
)
```

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.

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)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient(
        new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a block blob.
    CloudBlockBlob blockBlob = blobClient.GetBlockBlob(blobEndpoint);

    //Download the committed blocks in the block list.
    foreach (var blockListItem in blockBlob.DownloadBlockList())
    {
        Console.WriteLine("Block ID: " + blockListItem.Id);
        Console.WriteLine("Block size: " + blockListItem.Size);
        Console.WriteLine("Is block committed?: " + blockListItem.IsCommitted);
        Console.WriteLine();
    }

    //Download only uncommitted blocks.
    foreach (var blockListItem in blockBlob.DownloadBlockList(true))
    {
        Console.WriteLine("Block ID: " + blockListItem.Id);
        Console.WriteLine("Block size: " + blockListItem.Size);
        Console.WriteLine("Is block committed?: " + blockListItem.IsCommitted);
        Console.WriteLine();
    }

    //Download all blocks.
    foreach (var blockListItem in blockBlob.DownloadBlockList(true, true))
    {
        Console.WriteLine("Block ID: " + blockListItem.Id);
        Console.WriteLine("Block size: " + blockListItem.Size);
        Console.WriteLine("Is block committed?: " + blockListItem.IsCommitted);
        Console.WriteLine();
    }
}
```



```
{  
    Console.WriteLine("Block ID: " + blockListItem.Id);  
    Console.WriteLine("Block size: " + blockListItem.Size);  
    Console.WriteLine("Is block committed?: " + blockListItem.IsCommitted);  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlockBlob Class](#)

[CloudBlockBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Understanding Block Blobs and Page Blobs](#)

CloudBlockBlob.EndDownloadBlockList 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 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

```
Dim instance As CloudBlockBlob  
Dim asyncResult As IAsyncResult  
Dim returnValue As IEnumerable(Of ListBlockItem)  
  
returnValue = instance.EndDownloadBlockList(asyncResi
```


▣ Syntax

Visual Basic

```
Public Function EndDownloadBlockList ( _  
    asyncResult As IAsyncResult _  
) As IEnumerable(Of ListBlockItem)
```

C#

```
public IEnumerable<ListBlockItem> EndDownloadBlockList  
(  
    IAsyncResult asyncResult  
)
```

C++

```
public:  
IEnumerable<ListBlockItem^>^ EndDownloadBlockList (  
    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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlockBlob Class](#)

[CloudBlockBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudBlockBlob.EndPutBlock 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 single block.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudBlockBlob  
Dim asyncResult As IAsyncResult  
  
instance.EndPutBlock(asyncResult)
```

▣ Syntax

Visual Basic

```
Public Sub EndPutBlock ( _  
    asyncResult As IAsyncResult _  
)
```

C#

```
public void EndPutBlock (  
    IAsyncResult asyncResult  
)
```

C++

```
public:  
void EndPutBlock (  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As CloudBlockBlob  
Dim asyncResult As IAsyncResult  
  
instance.EndPutBlockList(asyncResult)
```

▣ Syntax

Visual Basic

```
Public Sub EndPutBlockList ( _  
    asyncResult As IAsyncResult _  
)
```

C#

```
public void EndPutBlockList (  
    IAsyncResult asyncResult  
)
```

C++

```
public:  
void EndPutBlockList (  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Name	Description
CloudBlockBlob.PutBlock(String, Stream, String)	Uploads a single block.
CloudBlockBlob.PutBlock(String, Stream, String, BlobRequestOptions)	Uploads a single block, using a conditional request based on the BlobRequestOptions specified.

▣ 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)

[See Also](#)



[This 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.

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  
  
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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 options As BlobRequestOptions  
  
instance.PutBlock(blockId, blockData, contentMD5, op
```

▣ Syntax

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

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 [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudBlockBlob Class](#)

[CloudBlockBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Understanding Block Blobs and Page Blobs](#)

CloudBlockBlob.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.]

☐ Overload List

Name	Description
CloudBlockBlob.PutBlockList(IEnumerable)	Uploads a list of blocks to a new or existing blob.
CloudBlockBlob.PutBlockList(IEnumerable, BlobRequestOptions)	Uploads a list of blocks to a new or existing blob, using a conditional request based on the BlobRequestOptions specified.

▣ See Also

Reference

[CloudBlockBlob Class](#)

[CloudBlockBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Understanding Block Blobs and Page Blobs](#)

CloudBlockBlob.PutBlockList Method (IEnumerable)

[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.

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)  
  
instance.PutBlockList(blockList)
```

▣ Syntax

Visual Basic

```
Public Sub PutBlockList ( _  
    blockList As IEnumerable(Of String) _  
)
```

C#

```
public void PutBlockList (  
    IEnumerable<string> blockList  
)
```

C++

```
public:  
void PutBlockList (  
    IEnumerable<String^>^ blockList  
)
```

J#

JScript

Parameters

blockList

Type: System.Collections.Generic.IEnumerable

An enumerable collection of block IDs, as base64-encoded strings.

▣ 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, string accountName, string containerName, string blobName)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient(new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a block blob.
    CloudBlockBlob blob = blobClient.GetBlockBlobReference(containerName, blobName);

    //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())
        {
            //Create a block ID. All block ID strings must be unique within a blob.
            string blockID = Convert.ToBase64String(Encoding.UTF8.GetBytes("BlockID-" + x));

            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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudBlockBlob Class](#)

[CloudBlockBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Understanding Block Blobs and Page Blobs](#)

CloudBlockBlob.PutBlockList Method (IEnumerable, 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 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)

▣ Usage

Visual Basic

```
Dim instance As CloudBlockBlob  
Dim blockList As IEnumerable(Of String)  
Dim options As BlobRequestOptions  
  
instance.PutBlockList(blockList, options)
```

▣ Syntax

Visual Basic

```
Public Sub PutBlockList ( _  
    blockList As IEnumerable(Of String), _  
    options As BlobRequestOptions _  
)
```

C#

```
public void PutBlockList (  
    IEnumerable<string> blockList,  
    BlobRequestOptions options  
)
```

C++

```
public:  
void PutBlockList (  
    IEnumerable<String^>^ blockList,  
    BlobRequestOptions^ options  
)
```

J#

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.

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, string accountName, string containerName, string blobName)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient(new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a block blob.
    CloudBlockBlob blob = blobClient.GetBlockBlobReference(containerName, blobName);

    //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())
        {
            //Create a block ID. All block ID strings must be unique within a blob.
            string blockID = Convert.ToBase64String(Encoding.UTF8.GetBytes("BlockID-" + x));

            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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

	Name	Description
	Attributes	Gets the BlobAttributes object that represents the blob's attributes. (Inherited from CloudBlob)
	Container	Gets a CloudBlobContainer object representing the blob's container. (Inherited from CloudBlob)
	Metadata	Gets the blob's user-defined metadata. (Inherited from CloudBlob)
	Name	Gets the name of the blob. (Inherited from CloudBlob)
	Parent	Gets the CloudBlobDirectory object representing the virtual parent directory for the blob. (Inherited from CloudBlob)
	Properties	Gets the blob's system properties. (Inherited from CloudBlob)
	ServiceClient	Gets the CloudBlobClient object that represents the Blob service. (Inherited from CloudBlob)
	SnapshotTime	Gets the Date Time value that uniquely identifies the snapshot, if this blob is a snapshot. (Inherited from CloudBlob)
	ToBlockBlob	Gets a CloudBlockBlob object based on this blob. (Inherited from CloudBlob)
	ToPageBlob	Gets a CloudPageBlob object based on this blob. (Inherited from CloudBlob)
	Uri	Gets the URI that identifies the blob. (Inherited from CloudBlob)

▣ See Also

Reference

[CloudBlockBlob Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Understanding Block Blobs and Page Blobs](#)

CloudDrive 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

Dim instance As **CloudDrive**

☐ Syntax

Visual Basic

```
Public Class CloudDrive
```

C#

```
public class CloudDrive
```

C++

```
public ref class CloudDrive
```

J#

JScript

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudDrive Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



CloudDrive 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.]

The following tables list the members exposed by the [CloudDrive](#) type.

▣ **Public Constructors**

	Name	Description
	CloudDrive	

[Top](#)

Public Properties

	Name	Description
	Credentials	
	LocalPath	
	Uri	

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	CopyTo	
	Create	
	CreateIfNotExist	
	Delete	
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
 	GetMountedDrives	
	GetType	(Inherited from Object)
 	InitializeCache	
	Mount	
	Snapshot	
	ToString	(Inherited from Object)
	Unmount	

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ See Also

Reference

[CloudDrive Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



CloudDrive 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 [CloudDrive](#) Class.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

Visual Basic

```
Public Sub New ( _  
    uri As Uri, _  
    credentials As StorageCredentials _  
)
```

C#

```
public CloudDrive (  
    Uri uri,  
    StorageCredentials credentials  
)
```

C++

```
public:  
CloudDrive (  
    Uri^ uri,  
    StorageCredentials^ credentials  
)
```

J#

JScript

▣ **Remarks**

The default constructor initializes any fields to their default values.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudDrive Class](#)

[CloudDrive Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudDrive 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](#))

	Name	Description
	CopyTo	
	Create	
	CreateIfNotExist	
	Delete	
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
 	GetMountedDrives	
	GetType	(Inherited from Object)
 	InitializeCache	
	Mount	
	Snapshot	
	ToString	(Inherited from Object)
	Unmount	

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ 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

```
Dim instance As CloudDrive  
Dim destination As Uri  
  
instance.CopyTo(destination)
```


▣ Syntax

Visual Basic

```
Public Sub CopyTo ( _  
    destination As Uri _  
)
```

C#

```
public void CopyTo (  
    Uri destination  
)
```

C++

```
public:  
void CopyTo (  
    Uri^ destination  
)
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Assembly: Microsoft.WindowsAzure.CloudDrive (in Microsoft.WindowsAzure.CloudDrive.dll)

▣ Usage

Visual Basic

```
Dim instance As CloudDrive  
Dim sizeInMB As Integer  
  
instance.Create(sizeInMB)
```

☐ Syntax

Visual Basic

```
Public Sub Create ( _  
    sizeInMB As Integer _  
)
```

C#

```
public void Create (  
    int sizeInMB  
)
```

C++

```
public:  
void Create (  
    int sizeInMB  
)
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Assembly: Microsoft.WindowsAzure.CloudDrive (in Microsoft.WindowsAzure.CloudDrive.dll)

▣ Usage

Visual Basic

```
Dim instance As CloudDrive  
Dim sizeInMB As Integer  
Dim returnValue As Boolean  
  
returnValue = instance.CreateIfNotExist(sizeInMB)
```

▣ Syntax

Visual Basic

```
Public Function CreateIfNotExist ( _  
    sizeInMB As Integer _  
) As Boolean
```

C#

```
public bool CreateIfNotExist (  
    int sizeInMB  
)
```

C++

```
public:  
bool CreateIfNotExist (  
    int sizeInMB  
)
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Assembly: Microsoft.WindowsAzure.CloudDrive (in Microsoft.WindowsAzure.CloudDrive.dll)

▣ Usage

Visual Basic

```
Dim instance As CloudDrive
```

```
instance.Delete
```

☐ Syntax

Visual Basic

```
Public Sub Delete
```

C#

```
public void Delete ()
```

C++

```
public:  
void Delete ()
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Assembly: Microsoft.WindowsAzure.CloudDrive (in Microsoft.WindowsAzure.CloudDrive.dll)

▣ Usage

Visual Basic

```
Dim returnValue As IDictionary(Of String, Uri)  
returnValue = CloudDrive.GetMountedDrives
```


▣ Syntax

Visual Basic

```
Public Shared Function GetMountedDrives As IDictionary
```

C#

```
public static IDictionary<string,Uri> GetMountedDrives
```

C++

```
public:  
static IDictionary<String^, Uri^>^ GetMountedDrives
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Assembly: Microsoft.WindowsAzure.CloudDrive (in Microsoft.WindowsAzure.CloudDrive.dll)

▣ Usage

Visual Basic

```
Dim cachePath As String  
Dim totalCacheSize As Integer  
  
CloudDrive.InitializeCache(cachePath, totalCacheSize
```

▣ Syntax

Visual Basic

```
Public Shared Sub InitializeCache ( _  
    cachePath As String, _  
    totalCacheSize As Integer _  
)
```

C#

```
public static void InitializeCache (  
    string cachePath,  
    int totalCacheSize  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudDrive Class](#)

[CloudDrive Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudDrive.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.]

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
```

Syntax

Visual Basic

```
Public Function Snapshot As Uri
```

C#

```
public Uri Snapshot ()
```

C++

```
public:  
Uri^ Snapshot ()
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudDrive Class](#)

[CloudDrive Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudDrive.Unmount 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
```

```
instance.Unmount
```


☐ Syntax

Visual Basic

```
Public Sub Unmount
```

C#

```
public void Unmount ()
```

C++

```
public:  
void Unmount ()
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

	Name	Description
	Credentials	
	LocalPath	
	Uri	

▣ 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

Visual Basic

Public Property Credentials As **StorageCredentials**

C#

```
public StorageCredentials Credentials { get; }
```

C++

```
public:  
property StorageCredentials^ Credentials {  
    StorageCredentials^ get ();  
}
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Assembly: Microsoft.WindowsAzure.CloudDrive (in Microsoft.WindowsAzure.CloudDrive.dll)

▣ Usage

Visual Basic

```
Dim instance As CloudDrive  
Dim value As String  
  
value = instance.LocalPath
```

☐ Syntax

Visual Basic

```
Public Property LocalPath As String
```

C#

```
public string LocalPath { get; }
```

C++

```
public:  
property String^ LocalPath {  
    String^ get ();  
}
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudDrive Class](#)

[CloudDrive Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudDrive.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.]

Namespace: Microsoft.WindowsAzure.StorageClient

Assembly: Microsoft.WindowsAzure.CloudDrive (in Microsoft.WindowsAzure.CloudDrive.dll)

▣ Usage

Visual Basic

```
Dim instance As CloudDrive  
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

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Assembly: Microsoft.WindowsAzure.CloudDrive (in Microsoft.WindowsAzure.CloudDrive.dll)

Usage

Visual Basic

```
Dim instance As CloudDriveException
```

☐ Syntax

Visual Basic

```
<SerializableAttribute> _  
Public Class CloudDriveException  
    Inherits Exception
```

C#

```
[SerializableAttribute]  
public class CloudDriveException : Exception
```

C++

```
[SerializableAttribute]  
public ref class CloudDriveException : public Except.
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

	Name	Description
	CloudDriveException	

[Top](#)

▣ **Public Properties (see also [Protected Properties](#))**

	Name	Description
	Data	(Inherited from Exception)
	HelpLink	(Inherited from Exception)
	InnerException	(Inherited from Exception)
	Message	(Inherited from Exception)
	Source	(Inherited from Exception)
	StackTrace	(Inherited from Exception)
	TargetSite	(Inherited from Exception)

[Top](#)

[-] Protected Properties

	Name	Description
	HResult	(Inherited from Exception)

[Top](#)

☐ **Public Methods (see also [Protected Methods](#))**

	Name	Description
	Equals	(Inherited from Object)
	GetBaseException	(Inherited from Exception)
	GetHashCode	(Inherited from Object)
	GetHResult	
	GetObjectData	(Inherited from Exception)
	GetType	(Inherited from Exception)
	ToString	Overridden. (Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ Protected Events

	Name	Description
	SerializeObjectState	(Inherited from Exception)

[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

```
Dim info As SerializationInfo  
Dim context As StreamingContext  
  
Dim instance As New CloudDriveException(info, context)
```

☐ Syntax

Visual Basic

```
Protected Sub New ( _  
    info As SerializationInfo, _  
    context As StreamingContext _  
)
```

C#

```
protected CloudDriveException (  
    SerializationInfo info,  
    StreamingContext context  
)
```

C++

```
protected:  
CloudDriveException (  
    SerializationInfo^ info,  
    StreamingContext context  
)
```

J#

JScript

▣ **Remarks**

The default constructor initializes any fields to their default values.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudDriveException Class](#)

[CloudDriveException Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudDriveException 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](#))**

	Name	Description
	Equals	(Inherited from Object)
	GetBaseException	(Inherited from Exception)
	GetHashCode	(Inherited from Object)
	GetHResult	
	GetObjectData	(Inherited from Exception)
	GetType	(Inherited from Exception)
	ToString	Overridden. (Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ 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

Assembly: Microsoft.WindowsAzure.CloudDrive (in Microsoft.WindowsAzure.CloudDrive.dll)

▣ Usage

Visual Basic

```
Dim instance As CloudDriveException  
Dim returnValue As Integer  
  
returnValue = instance.GetHResult
```

☐ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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](#))**

	Name	Description
	Data	(Inherited from Exception)
	HelpLink	(Inherited from Exception)
	InnerException	(Inherited from Exception)
	Message	(Inherited from Exception)
	Source	(Inherited from Exception)
	StackTrace	(Inherited from Exception)
	TargetSite	(Inherited from Exception)

Protected Properties

	Name	Description
	HResult	(Inherited from Exception)

▣ 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

	Name	Description
	SerializeObjectState	(Inherited from Exception)

▣ See Also

Reference

[CloudDriveException Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



CloudPageBlob 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 made up of a collection of pages.

Namespace: Microsoft.WindowsAzure.StorageClient

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

Usage

Visual Basic

```
Dim instance As CloudPageBlob
```

☐ Syntax

Visual Basic

```
Public Class CloudPageBlob  
    Inherits CloudBlob
```

C#

```
public class CloudPageBlob : CloudBlob
```

C++

```
public ref class CloudPageBlob : public CloudBlob
```

J#

JScript

▣ Inheritance Hierarchy

System.Object

[Microsoft.WindowsAzure.StorageClient.CloudBlob](#)

Microsoft.WindowsAzure.StorageClient.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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ **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**

	Name	Description
	CloudPageBlob	Overloaded.

[Top](#)

☐ Public Properties

	Name	Description
	Attributes	Gets the BlobAttributes object that represents the blob's attributes. (Inherited from CloudBlob)
	Container	Gets a CloudBlobContainer object representing the blob's container. (Inherited from CloudBlob)
	Metadata	Gets the blob's user-defined metadata. (Inherited from CloudBlob)
	Name	Gets the name of the blob. (Inherited from CloudBlob)
	Parent	Gets the CloudBlobDirectory object representing the virtual parent directory for the blob. (Inherited from CloudBlob)
	Properties	Gets the blob's system properties. (Inherited from CloudBlob)
	ServiceClient	Gets the CloudBlobClient object that represents the Blob service. (Inherited from CloudBlob)
	SnapshotTime	Gets the Date Time value that uniquely identifies the snapshot, if this blob is a snapshot. (Inherited from CloudBlob)
	ToBlockBlob	Gets a CloudBlockBlob object based on this blob. (Inherited from CloudBlob)
	ToPageBlob	Gets a CloudPageBlob object based on this blob. (Inherited from CloudBlob)
	Uri	Gets the URI that identifies the blob. (Inherited from CloudBlob)

[Top](#)

☐ **Public Methods (see also [Protected Methods](#))**

	Name	Description
	BeginClearPages	Overloaded.
	BeginCopyFromBlob	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)
	BeginCreate	Overloaded.
	BeginCreateSnapshot	Overloaded. Begins an asynchronous operation to create a snapshot of the blob. (Inherited from CloudBlob)
	BeginDelete	Overloaded. Begins an asynchronous operation to delete the blob. (Inherited from CloudBlob)
	BeginDeleteIfExists	Overloaded. (Inherited from CloudBlob)
	BeginDownloadToStream	Overloaded. Begins an asynchronous operation to download the contents of a blob to a stream. (Inherited from CloudBlob)
	BeginFetchAttributes	Overloaded. Begins an asynchronous operation to populate the blob's properties and metadata. (Inherited from CloudBlob)
	BeginGetPageRanges	Overloaded.
	BeginSetMetadata	Overloaded. Begins an asynchronous operation to update the blob's metadata. (Inherited from CloudBlob)
	BeginSetProperties	Overloaded. (Inherited from CloudBlob)
	BeginUploadFromStream	Overloaded. Overridden.
	BeginWritePages	Overloaded.
	ClearPages	Overloaded.
	CopyFromBlob	Overloaded. (Inherited from CloudBlob)
	Create	Overloaded.
	CreateSnapshot	Overloaded. (Inherited from CloudBlob)

 Delete	Overloaded. (Inherited from CloudBlob)
 DeleteIfExists	Overloaded. (Inherited from CloudBlob)
 DownloadByteArray	Overloaded. Downloads the blob's contents as an array of bytes. (Inherited from CloudBlob)
 DownloadText	Overloaded. (Inherited from CloudBlob)
 DownloadToFile	Overloaded. (Inherited from CloudBlob)
 DownloadToStream	Overloaded. (Inherited from CloudBlob)
 EndClearPages	Ends an asynchronous operation to clear pages from a page blob.
 EndCopyFromBlob	Ends an asynchronous operation to copy a blob's contents, properties, and metadata to a new blob. (Inherited from CloudBlob)
 EndCreate	Ends an asynchronous operation to create a page blob.
 EndCreateSnapshot	Ends an asynchronous operation to create a snapshot of the blob. (Inherited from CloudBlob)
 EndDelete	Ends an asynchronous operation to delete the blob. (Inherited from CloudBlob)
 EndDeleteIfExists	Ends an asynchronous operation to delete the blob if it exists. (Inherited from CloudBlob)
 EndDownloadToStream	Ends an asynchronous operation to download the contents of a blob to a stream. (Inherited from CloudBlob)
 EndFetchAttributes	Ends an asynchronous operation to populate the blob's properties and metadata. (Inherited from CloudBlob)
 EndGetPageRanges	Ends an asynchronous operation to return a collection of page ranges and their starting and ending bytes.
 EndSetMetadata	Ends an asynchronous operation to update the blob's metadata. (Inherited from CloudBlob)
 EndSetProperties	Ends an asynchronous operation to update the blob's properties. (Inherited from CloudBlob)
	Overridden. Ends an asynchronous operation

 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.

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▣ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)
	<u>ParseSizeAndLastModified</u>	Parses values from a Blob service response. This method is protected. (Inherited from <u>CloudBlob</u>)

[Top](#)

▣ 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

Name	Description
CloudPageBlob (CloudBlob)	Initializes a new instance of the CloudPageBlob class based on an existing CloudBlob object.
CloudPageBlob (String)	Initializes a new instance of the CloudPageBlob class using an absolute URI to the blob.
CloudPageBlob (String , CloudBlobClient)	Initializes a new instance of the CloudPageBlob class using a relative URI to the blob.
CloudPageBlob (String , StorageCredentials)	Initializes a new instance of the CloudPageBlob class using an absolute URI to the blob, and the storage account credentials.
CloudPageBlob (String , Nullable , CloudBlobClient)	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.

▣ 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

```
Public Sub New ( _  
    cloudBlob As CloudBlob _  
)
```

C#

```
public CloudPageBlob (  
    CloudBlob cloudBlob  
)
```

C++

```
public:  
CloudPageBlob (  
    CloudBlob^ cloudBlob  
)
```

J#

JScript

Parameters

cloudBlob

Type: [Microsoft.WindowsAzure.StorageClient.CloudBlob](#)

An object of type [CloudBlob](#).

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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)
```


▣ Syntax

Visual Basic

```
Public Sub New ( _  
    blobAddress As String _  
)
```

C#

```
public CloudPageBlob (  
    string blobAddress  
)
```

C++

```
public:  
CloudPageBlob (  
    String^ blobAddress  
)
```

J#

JScript

Parameters

blobAddress

Type: [System.String](#)

The absolute URI to the blob.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim blobAddress As String  
Dim serviceClient As CloudBlobClient  
  
Dim instance As New CloudPageBlob(blobAddress, serviceClient)
```

▣ Syntax

Visual Basic

```
Public Sub New ( _  
    blobAddress As String, _  
    serviceClient As CloudBlobClient _  
)
```

C#

```
public CloudPageBlob (  
    string blobAddress,  
    CloudBlobClient serviceClient  
)
```

C++

```
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

Type: [Microsoft.WindowsAzure.StorageClient.CloudBlobClient](#)

A client object that specifies the endpoint for the Blob service.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudPageBlob Class](#)

[CloudPageBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudPageBlob 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 [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)

▣ Usage

Visual Basic

```
Dim blobAddress As String  
Dim credentials As StorageCredentials  
  
Dim instance As New CloudPageBlob(blobAddress, creden
```

▣ Syntax

Visual Basic

```
Public Sub New ( _  
    blobAddress As String, _  
    credentials As StorageCredentials _  
)
```

C#

```
public CloudPageBlob (  
    string blobAddress,  
    StorageCredentials credentials  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim blobAddress As String  
Dim snapshotTime As Nullable(Of DateTime)  
Dim serviceClient As CloudBlobClient  
  
Dim instance As New CloudPageBlob(blobAddress, snapsl
```

▣ Syntax

Visual Basic

```
Public Sub New ( _  
    blobAddress As String, _  
    snapshotTime As Nullable(Of DateTime), _  
    serviceClient As CloudBlobClient _  
)
```

C#

```
public CloudPageBlob (  
    string blobAddress,  
    Nullable<DateTime> snapshotTime,  
    CloudBlobClient serviceClient  
)
```

C++

```
public:  
CloudPageBlob (  
    String^ blobAddress,  
    Nullable<DateTime> snapshotTime,  
    CloudBlobClient^ serviceClient  
)
```

J#

JSscript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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](#))**

	Name	Description
	BeginClearPages	Overloaded.
	BeginCopyFromBlob	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)
	BeginCreate	Overloaded.
	BeginCreateSnapshot	Overloaded. Begins an asynchronous operation to create a snapshot of the blob. (Inherited from CloudBlob)
	BeginDelete	Overloaded. Begins an asynchronous operation to delete the blob. (Inherited from CloudBlob)
	BeginDeleteIfExists	Overloaded. (Inherited from CloudBlob)
	BeginDownloadToStream	Overloaded. Begins an asynchronous operation to download the contents of a blob to a stream. (Inherited from CloudBlob)
	BeginFetchAttributes	Overloaded. Begins an asynchronous operation to populate the blob's properties and metadata. (Inherited from CloudBlob)
	BeginGetPageRanges	Overloaded.
	BeginSetMetadata	Overloaded. Begins an asynchronous operation to update the blob's metadata. (Inherited from CloudBlob)
	BeginSetProperties	Overloaded. (Inherited from CloudBlob)
	BeginUploadFromStream	Overloaded. Overridden.

 BeginWritePages	Overloaded.
 ClearPages	Overloaded.
 CopyFromBlob	Overloaded. (Inherited from CloudBlob)
 Create	Overloaded.
 CreateSnapshot	Overloaded. (Inherited from CloudBlob)
 Delete	Overloaded. (Inherited from CloudBlob)
 DeleteIfExists	Overloaded. (Inherited from CloudBlob)
 DownloadByteArray	Overloaded. Downloads the blob's contents as an array of bytes. (Inherited from CloudBlob)
 DownloadText	Overloaded. (Inherited from CloudBlob)
 DownloadToFile	Overloaded. (Inherited from CloudBlob)
 DownloadToStream	Overloaded. (Inherited from CloudBlob)
 EndClearPages	Ends an asynchronous operation to clear pages from a page blob.
 EndCopyFromBlob	Ends an asynchronous operation to copy a blob's contents, properties, and metadata to a new blob. (Inherited from CloudBlob)
 EndCreate	Ends an asynchronous operation to create a page blob.
 EndCreateSnapshot	Ends an asynchronous operation to create a snapshot of the blob. (Inherited from CloudBlob)
 EndDelete	Ends an asynchronous operation to delete the blob. (Inherited from CloudBlob)
 EndDeleteIfExists	Ends an asynchronous operation to delete the blob if it exists. (Inherited from CloudBlob)
 EndDownloadToStream	Ends an asynchronous operation to download the contents of a blob to a stream. (Inherited from CloudBlob)
	Ends an asynchronous operation to populate

 EndFetchAttributes	the blob's properties and metadata. (Inherited from CloudBlob)
 EndGetPageRanges	Ends an asynchronous operation to return a collection of page ranges and their starting and ending bytes.
 EndSetMetadata	Ends an asynchronous operation to update the blob's metadata. (Inherited from CloudBlob)
 EndSetProperties	Ends an asynchronous operation to update the blob's properties. (Inherited from CloudBlob)
 EndUploadFromStream	Overridden. Ends an asynchronous operation 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

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)
	<u>ParseSizeAndLastModified</u>	Parses values from a Blob service response. This method is protected. (Inherited from <u>CloudBlob</u>)

▣ See Also

Reference

[CloudPageBlob Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Understanding Block Blobs and Page Blobs](#)

CloudPageBlob.BeginClearPages 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

Name	Description
CloudPageBlob.BeginClearPages(Int64, Int64, BlobRequestOptions, AsyncCallback, Object)	Begins an asynchronous operation to clear pages from a page blob, using a conditional request based on the BlobRequestOptions specified.
CloudPageBlob.BeginClearPages(Int64, Int64, AsyncCallback, Object)	Begins an asynchronous operation to clear pages from a page blob.

▣ 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

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

▣ Usage

Visual Basic

```
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

```
Public Function BeginClearPages ( _  
    startOffset As Long, _  
    length As Long, _  
    options As BlobRequestOptions, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginClearPages (  
    long startOffset,  
    long length,  
    BlobRequestOptions options,  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
public:  
IAsyncResult^ BeginClearPages (  
    long long startOffset,  
    long long length,  
    BlobRequestOptions^ options,  
    AsyncCallback^ callback,  
    Object^ state  
)
```

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.

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudPageBlob Class](#)

[CloudPageBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudPageBlob.BeginClearPages Method (Int64, 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 clear pages from a page blob.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
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, ,
```

▣ Syntax

Visual Basic

```
Public Function BeginClearPages ( _  
    startOffset As Long, _  
    length As Long, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginClearPages (   
    long startOffset,   
    long length,   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
public:   
IAsyncResult^ BeginClearPages (   
    long long startOffset,   
    long long length,   
    AsyncCallback^ callback,   
    Object^ state   
)
```

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.

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Name	Description
CloudPageBlob.BeginCreate(Int64, BlobRequestOptions, AsyncCallback, Object)	Begins an asynchronous operation to create a page blob, using a conditional request based on the BlobRequestOptions specified.
CloudPageBlob.BeginCreate(Int64, AsyncCallback, Object)	Begins an asynchronous operation to create a page blob.

▣ See Also

Reference

[CloudPageBlob Class](#)

[CloudPageBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudPageBlob.BeginCreate Method (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 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

```
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, ca.
```

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudPageBlob Class](#)

[CloudPageBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudPageBlob.BeginCreate Method (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 create a page blob.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
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, s
```

▣ 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

Parameters

size

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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.]

☐ Overload List

Name	Description
CloudPageBlob.BeginGetPageRanges(BlobRequestOptions, AsyncCallback, Object)	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.
CloudPageBlob.BeginGetPageRanges(AsyncCallback, Object)	Begins an asynchronous operation to return a collection of page ranges and their starting and ending bytes.

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudPageBlob  
Dim options As BlobRequestOptions  
Dim callback As AsyncCallback  
Dim state As Object  
Dim returnValue As IAsyncResult  
  
returnValue = instance.BeginGetPageRanges(options, c
```

▣ Syntax

Visual Basic

```
Public Function BeginGetPageRanges ( _  
    options As BlobRequestOptions, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAAsyncResult
```

C#

```
public IAAsyncResult BeginGetPageRanges (   
    BlobRequestOptions options,   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
public:   
IAAsyncResult^ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudPageBlob Class](#)

[CloudPageBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudPageBlob.BeginGetPageRanges 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 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

```
Dim instance As CloudPageBlob  
Dim callback As AsyncCallback  
Dim state As Object  
Dim returnValue As IAsyncResult  
  
returnValue = instance.BeginGetPageRanges(callback, state, null)
```

▣ Syntax

Visual Basic

```
Public Function BeginGetPageRanges ( _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginGetPageRanges (  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
public:  
IAsyncResult^ BeginGetPageRanges (  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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.]

☐ Overload List

Name	Description
CloudPageBlob.BeginUploadFromStream(Stream, BlobRequestOptions, AsyncCallback, Object)	Begins an asynchronous operation to upload a blob from a stream, using a conditional request based on the BlobRequestOptions specified.
CloudPageBlob.BeginUploadFromStream(Stream, AsyncCallback, Object)	Begins an asynchronous operation to upload a blob from a stream.

▣ 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

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

▣ 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

```
Public Overrides Function BeginUploadFromStream ( _  
    source As Stream, _  
    options As BlobRequestOptions, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAAsyncResult
```

C#

```
public override IAAsyncResult BeginUploadFromStream (   
    Stream source,   
    BlobRequestOptions options,   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
public:   
virtual IAAsyncResult^ 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

Exception type	Condition
NotSupportedException	This operation is not supported on objects of type CloudPageBlob .

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudPageBlob Class](#)

[CloudPageBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudPageBlob.BeginUploadFromStream Method (Stream, 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.

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 callback As AsyncCallback  
Dim state As Object  
Dim returnValue As IAsyncResult  
  
returnValue = instance.BeginUploadFromStream(source,
```

▣ Syntax

Visual Basic

```
Public Overrides Function BeginUploadFromStream ( _  
    source As Stream, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public override IAsyncResult BeginUploadFromStream (   
    Stream source,   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
public:   
virtual IAsyncResult^ BeginUploadFromStream (   
    Stream^ source,   
    AsyncCallback^ callback,   
    Object^ state   
) override
```

J#

JScript

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

Exception type	Condition
NotSupportedException	This operation is not supported on objects of type CloudPageBlob .

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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.]

❏ Overload List

Name	Description
CloudPageBlob.BeginWritePages(Stream, Int64, BlobRequestOptions, AsyncCallback, Object)	Begins an asynchronous operation to write pages to a page blob, using a conditional request based on the BlobRequestOptions specified.
CloudPageBlob.BeginWritePages(Stream, Int64, AsyncCallback, Object)	Begins an asynchronous operation to write pages to a page blob.

▣ 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

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

▣ 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, sta
```

▣ Syntax

Visual Basic

```
Public Function BeginWritePages ( _  
    pageData As Stream, _  
    startOffset As Long, _  
    options As BlobRequestOptions, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginWritePages (  
    Stream pageData,  
    long startOffset,  
    BlobRequestOptions options,  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
public:  
IAsyncResult^ BeginWritePages (  
    Stream^ pageData,  
    long long startOffset,  
    BlobRequestOptions^ options,  
    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.

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
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, sta
```

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Name	Description
CloudPageBlob.ClearPages(Int64, Int64)	Clears pages from a page blob.
CloudPageBlob.ClearPages(Int64, Int64, BlobRequestOptions)	Clears pages from a page blob, using a conditional request based on the BlobRequestOptions specified.

▣ See Also

Reference

[CloudPageBlob Class](#)

[CloudPageBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Understanding Block Blobs and Page Blobs](#)

CloudPageBlob.ClearPages Method (Int64, 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.]

Clears pages from a page blob.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudPageBlob  
Dim startOffset As Long  
Dim length As Long  
  
instance.ClearPages(startOffset, length)
```

▣ Syntax

Visual Basic

```
Public Sub ClearPages ( _  
    startOffset As Long, _  
    length As Long _  
)
```

C#

```
public void ClearPages (  
    long startOffset,  
    long length  
)
```

C++

```
public:  
void ClearPages (  
    long long startOffset,  
    long long length  
)
```

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.

▣ 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.

C#

```
static void WriteToPageBlob(Uri blobEndpoint, string
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new Storage

    // create container if it does not exist
    CloudBlobContainer cloudContainer = blobClient.Get
    cloudContainer.CreateIfNotExist();

    //Get a reference to the page blob that will be
    CloudPageBlob pageBlob = cloudContainer.GetPageB

    //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
    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.L

    //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 pageBlob)
{
    //Write out the page ranges for the page blob.
    IEnumerable<PageRange> ranges = pageBlob.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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudPageBlob Class](#)

[CloudPageBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Understanding Block Blobs and Page Blobs](#)

CloudPageBlob.ClearPages Method (Int64, 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.]

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

```
Dim instance As CloudPageBlob  
Dim startOffset As Long  
Dim length As Long  
Dim options As BlobRequestOptions  
  
instance.ClearPages(startOffset, length, options)
```

▣ Syntax

Visual Basic

```
Public Sub ClearPages ( _  
    startOffset As Long, _  
    length As Long, _  
    options As BlobRequestOptions _  
)
```

C#

```
public void ClearPages (  
    long startOffset,  
    long length,  
    BlobRequestOptions options  
)
```

C++

```
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.

C#

```
static void WriteToPageBlob(Uri blobEndpoint, string
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new Storage

    // create container if it does not exist
    CloudBlobContainer cloudContainer = blobClient.Get
    cloudContainer.CreateIfNotExist();

    //Get a reference to the page blob that will be
    CloudPageBlob pageBlob = cloudContainer.GetPageB

    //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
    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.L

    //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 pageBlob)
    {
        //Write out the page ranges for the page blob.
        IEnumerable<PageRange> ranges = pageBlob.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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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.]

❏ Overload List

Name	Description
CloudPageBlob.Create(Int64)	Creates a page blob.
CloudPageBlob.Create(Int64, BlobRequestOptions)	Creates a page blob, using a conditional request based on the BlobRequestOptions specified.

▣ See Also

Reference

[CloudPageBlob Class](#)

[CloudPageBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Understanding Block Blobs and Page Blobs](#)

CloudPageBlob.Create Method (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.]

Creates a page blob.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudPageBlob  
Dim size As Long  
  
instance.Create(size)
```

▣ Syntax

Visual Basic

```
Public Sub Create ( _  
    size As Long _  
)
```

C#

```
public void Create (  
    long size  
)
```

C++

```
public:  
void Create (  
    long long size  
)
```

J#

JScript

Parameters

size

Type: [System.Int64](#)

The maximum size of the blob, in bytes. This value must be a multiple of 512.

▣ Example

The following code example creates a page blob that has a maximum size of 4 MB.

C#

```
static void CreatePageBlob(Uri blobEndpoint, string containerName)
{
    //Create service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

    //Get a reference to the page blob.
    CloudPageBlob pageBlob = blobClient.GetPageBlobReference(containerName, "pageblob");

    //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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

```
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.

C#

```
static void CreatePageBlob(Uri blobEndpoint, string containerName)
{
    //Create service client for credentialed access.
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

    //Get a reference to the page blob.
    CloudPageBlob pageBlob = blobClient.GetPageBlobReference(containerName, "pageblob");

    //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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudPageBlob Class](#)

[CloudPageBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Understanding Block Blobs and Page Blobs](#)

CloudPageBlob.EndClearPages 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 pages from a page blob.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudPageBlob  
Dim asyncResult As IAsyncResult  
  
instance.EndClearPages(asyncResult)
```

▣ Syntax

Visual Basic

```
Public Sub EndClearPages ( _  
    asyncResult As IAsyncResult _  
)
```

C#

```
public void EndClearPages (  
    IAsyncResult asyncResult  
)
```

C++

```
public:  
void EndClearPages (  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As CloudPageBlob  
Dim asyncResult As IAsyncResult  
  
instance.EndCreate(asyncResult)
```

▣ Syntax

Visual Basic

```
Public Sub EndCreate ( _  
    asyncResult As IAsyncResult _  
)
```

C#

```
public void EndCreate (  
    IAsyncResult asyncResult  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudPageBlob Class](#)

[CloudPageBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudPageBlob.EndGetPageRanges 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 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

```
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:  
IEnumerable<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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As CloudPageBlob  
Dim asyncResult As IAsyncResult  
  
instance.EndUploadFromStream(asyncResult)
```

▣ Syntax

Visual Basic

```
Public Overrides Sub EndUploadFromStream ( _  
    asyncResult As IAsyncResult _  
)
```

C#

```
public override void EndUploadFromStream (  
    IAsyncResult asyncResult  
)
```

C++

```
public:  
virtual void EndUploadFromStream (  
    IAsyncResult^ asyncResult  
) override
```

J#

JScript

Parameters

asyncResult

Type: [System.IAsyncResult](#)

An **IAsyncResult** that references the pending asynchronous operation.

▣ Exceptions

Exception type	Condition
NotSupportedException	This operation is not supported on objects 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudPageBlob Class](#)

[CloudPageBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudPageBlob.EndWritePages 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 write pages to a page blob.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudPageBlob  
Dim asyncResult As IAsyncResult  
  
instance.EndWritePages(asyncResult)
```

▣ Syntax

Visual Basic

```
Public Sub EndWritePages ( _  
    asyncResult As IAsyncResult _  
)
```

C#

```
public void EndWritePages (  
    IAsyncResult asyncResult  
)
```

C++

```
public:  
void EndWritePages (  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Name	Description
CloudPageBlob.GetPageRanges()	Gets a collection of page ranges and their starting and ending bytes.
CloudPageBlob.GetPageRanges(BlobRequestOptions)	Gets a collection of page ranges and their starting and ending bytes, using a conditional request based on the BlobRequestOptions specified.

▣ See Also

Reference

[CloudPageBlob Class](#)

[CloudPageBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Understanding Block Blobs and Page Blobs](#)

CloudPageBlob.GetPageRanges 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.]

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

```
Dim instance As CloudPageBlob  
Dim returnValue As IEnumerable(Of PageRange)  
  
returnValue = instance.GetPageRanges
```

▣ Syntax

Visual Basic

```
Public Function GetPageRanges As IEnumerable(Of PageRange)
```

C#

```
public IEnumerable<PageRange> GetPageRanges ()
```

C++

```
public:  
IEnumerable<PageRange^> GetPageRanges ()
```

J#

JScript

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.

C#

```
static void GetPageBlobRanges(Uri blobEndpoint, string containerName, string blobName)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

    //Get a reference to the page blob.
    CloudPageBlob pageBlob = blobClient.GetPageBlobReference(containerName, blobName);

    foreach (PageRange pageRange in pageBlob.GetPageRanges())
    {
        Console.WriteLine("Starting offset: " + pageRange.StartOffset);
        Console.WriteLine("Ending offset: " + pageRange.EndOffset);
        Console.WriteLine("Content: " + pageRange.ToByteArray());
        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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudPageBlob Class](#)

[CloudPageBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[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

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

▣ Usage

Visual Basic

```
Dim instance As CloudPageBlob  
Dim options As BlobRequestOptions  
Dim returnValue As IEnumerable(Of PageRange)  
  
returnValue = instance.GetPageRanges(options)
```

▣ Syntax

Visual Basic

```
Public Function GetPageRanges ( _  
    options As BlobRequestOptions _  
) As IEnumerable(Of PageRange)
```

C#

```
public IEnumerable<PageRange> GetPageRanges (   
    BlobRequestOptions options  
)
```

C++

```
public:  
IEnumerable<PageRange^>^ GetPageRanges (   
    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.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.

C#

```
static void GetPageBlobRanges(Uri blobEndpoint, string containerName, string blobName)
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new StorageCredentialsSharedKey());

    //Get a reference to the page blob.
    CloudPageBlob pageBlob = blobClient.GetPageBlobReference(containerName, blobName);

    foreach (PageRange pageRange in pageBlob.GetPageRanges())
    {
        Console.WriteLine("Starting offset: " + pageRange.StartOffset);
        Console.WriteLine("Ending offset: " + pageRange.EndOffset);
        Console.WriteLine("Content: " + pageRange.ToByteArray());
        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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudPageBlob Class](#)

[CloudPageBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Understanding Block Blobs and Page Blobs](#)

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.]

☐ Overload List

Name	Description
CloudPageBlob.OpenWrite()	Opens a stream for writing to the blob. This method is not supported for page blobs.
CloudPageBlob.OpenWrite(BlobRequestOptions)	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.

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudPageBlob  
Dim returnValue As BlobStream  
  
returnValue = instance.OpenWrite
```


▣ Syntax

Visual Basic

```
Public Overrides Function OpenWrite As BlobStream
```

C#

```
public override BlobStream OpenWrite ()
```

C++

```
public:  
virtual BlobStream^ OpenWrite () override
```

J#

JScript

Return Value

Type: [Microsoft.WindowsAzure.StorageClient.BlobStream](#)

A stream for writing to the blob.

▣ Exceptions

Exception type	Condition
NotSupportedException	This operation is not supported on objects 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudPageBlob  
Dim options As BlobRequestOptions  
Dim returnValue As BlobStream  
  
returnValue = instance.OpenWrite(options)
```

▣ Syntax

Visual Basic

```
Public Overrides Function OpenWrite ( _  
    options As BlobRequestOptions _  
) As BlobStream
```

C#

```
public override BlobStream OpenWrite (  
    BlobRequestOptions options  
)
```

C++

```
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

Exception type	Condition
NotSupportedException	This operation is not supported on objects 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Name	Description
CloudPageBlob.UploadByteArray(Byte[])	Uploads an array of bytes to a blob. This method is not supported for page blobs.
CloudPageBlob.UploadByteArray(Byte[], BlobRequestOptions)	Uploads an array of bytes to a blob. This method is not supported for page blobs, using a conditional request based on the BlobRequestOptions specified.

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudPageBlob  
Dim content As Byte()  
  
instance.UploadByteArray(content)
```

▣ Syntax

Visual Basic

```
Public Overrides Sub UploadByteArray ( _  
    content As Byte() _  
)
```

C#

```
public override void UploadByteArray (  
    byte[] content  
)
```

C++

```
public:  
virtual void UploadByteArray (  
    array<unsigned char>^ content  
) override
```

J#

JScript

Parameters

content

The array of bytes to upload.

▣ Exceptions

Exception type	Condition
NotSupportedException	This operation is not supported on objects 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudPageBlob Class](#)

[CloudPageBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudPageBlob.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 blob. This method is not supported for page blobs, 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

```
Dim instance As CloudPageBlob  
Dim content As Byte()  
Dim options As BlobRequestOptions  
  
instance.UploadByteArray(content, options)
```

▣ Syntax

Visual Basic

```
Public Overrides Sub UploadByteArray ( _  
    content As Byte(), _  
    options As BlobRequestOptions _  
)
```

C#

```
public override void UploadByteArray (  
    byte[] content,  
    BlobRequestOptions options  
)
```

C++

```
public:  
virtual void UploadByteArray (  
    array<unsigned char>^ content,  
    BlobRequestOptions^ options  
) override
```

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.

▣ Exceptions

Exception type	Condition
NotSupportedException	This operation is not supported on objects 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Name	Description
CloudPageBlob.UploadFile(String)	Uploads a file from the file system to a blob. This method is not supported for page blobs.
CloudPageBlob.UploadFile(String, BlobRequestOptions)	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.

▣ See Also

Reference

[CloudPageBlob Class](#)

[CloudPageBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudPageBlob.UploadFile 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 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

```
Public Overrides Sub UploadFile ( _  
    fileName As String _  
)
```

C#

```
public override void UploadFile (  
    string fileName  
)
```

C++

```
public:  
virtual void UploadFile (  
    String^ fileName  
) override
```

J#

JScript

Parameters

fileName

Type: [System.String](#)

The path and file name of the file to upload.

▣ Exceptions

Exception type	Condition
NotSupportedException	This operation is not supported on objects 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudPageBlob Class](#)

[CloudPageBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudPageBlob.UploadFile Method (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 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

```
Dim instance As CloudPageBlob  
Dim fileName As String  
Dim options As BlobRequestOptions  
  
instance.UploadFile(fileName, options)
```

▣ Syntax

Visual Basic

```
Public Overrides Sub UploadFile ( _  
    fileName As String, _  
    options As BlobRequestOptions _  
)
```

C#

```
public override void UploadFile (  
    string fileName,  
    BlobRequestOptions options  
)
```

C++

```
public:  
virtual void UploadFile (  
    String^ fileName,  
    BlobRequestOptions^ options  
) override
```

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.

▣ Exceptions

Exception type	Condition
NotSupportedException	This operation is not supported on objects 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudPageBlob Class](#)

[CloudPageBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Understanding Block Blobs and Page Blobs](#)

CloudPageBlob.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

Name	Description
CloudPageBlob.UploadFromStream(Stream)	Uploads a blob from a stream. This method is not supported for page blobs.
CloudPageBlob.UploadFromStream(Stream, BlobRequestOptions)	Uploads a blob from a stream, using a conditional request based on the BlobRequestOptions specified. This method is not supported for page blobs.

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudPageBlob  
Dim source As Stream  
  
instance.UploadFromStream(source)
```

▣ Syntax

Visual Basic

```
Public Overrides Sub UploadFromStream ( _  
    source As Stream _  
)
```

C#

```
public override void UploadFromStream (  
    Stream source  
)
```

C++

```
public:  
virtual void UploadFromStream (  
    Stream^ source  
) override
```

J#

JScript

Parameters

source

Type: [System.IO.Stream](#)

A stream that provides the blob content.

▣ Exceptions

Exception type	Condition
NotSupportedException	This operation is not supported on objects of type CloudPageBlob .

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudPageBlob Class](#)

[CloudPageBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudPageBlob.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 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

```
Public Overrides Sub UploadFromStream ( _  
    source As Stream, _  
    options As BlobRequestOptions _  
)
```

C#

```
public override void UploadFromStream (  
    Stream source,  
    BlobRequestOptions options  
)
```

C++

```
public:  
virtual void UploadFromStream (  
    Stream^ source,  
    BlobRequestOptions^ options  
) override
```

J#

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

Exception type	Condition
NotSupportedException	This operation is not supported on objects of type CloudPageBlob .

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Name	Description
CloudPageBlob.UploadText(String)	Uploads a string of text to a blob. This method is not supported for page blobs.
CloudPageBlob.UploadText(String, Encoding, BlobRequestOptions)	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.

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudPageBlob  
Dim content As String  
  
instance.UploadText(content)
```

▣ Syntax

Visual Basic

```
Public Overrides Sub UploadText ( _  
    content As String _  
)
```

C#

```
public override void UploadText (  
    string content  
)
```

C++

```
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

Exception type	Condition
NotSupportedException	This operation is not supported on objects 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudPageBlob Class](#)

[CloudPageBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudPageBlob.UploadText Method (String, Encoding, 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 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

Exception type	Condition
NotSupportedException	This operation is not supported on objects 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudPageBlob Class](#)

[CloudPageBlob Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudPageBlob.WritePages 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

Name	Description
CloudPageBlob.WritePages(Stream, Int64)	Writes pages to a page blob.
CloudPageBlob.WritePages(Stream, Int64, BlobRequestOptions)	Writes pages to a page blob, using a conditional request based on the BlobRequestOptions specified.

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudPageBlob  
Dim pageData As Stream  
Dim startOffset As Long  
  
instance.WritePages(pageData, startOffset)
```

▣ Syntax

Visual Basic

```
Public Sub WritePages ( _  
    pageData As Stream, _  
    startOffset As Long _  
)
```

C#

```
public void WritePages (  
    Stream pageData,  
    long startOffset  
)
```

C++

```
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](#)

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#

```
static void WriteToPageBlob(Uri blobEndpoint, string
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new Storage

    // create container if it does not exist
    CloudBlobContainer cloudContainer = blobClient.Get
    cloudContainer.CreateIfNotExist();

    //Get a reference to the page blob that will be
    CloudPageBlob pageBlob = cloudContainer.GetPageB

    //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
    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.L

    //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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ Usage

Visual Basic

```
Dim instance As CloudPageBlob  
Dim pageData As Stream  
Dim startOffset As Long  
Dim options As BlobRequestOptions  
  
instance.WritePages(pageData, startOffset, options)
```

▣ Syntax

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 long startOffset,  
    BlobRequestOptions^ options  
)
```

J#

JSript

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.

▣ Example

The following code example creates a page blob, writes some pages to it, and prints out the page ranges to the console.

C#

```
static void WriteToPageBlob(Uri blobEndpoint, string
{
    //Create service client for credentialed access
    CloudBlobClient blobClient =
        new CloudBlobClient(blobEndpoint, new Storage

    // create container if it does not exist
    CloudBlobContainer cloudContainer = blobClient.Get
    cloudContainer.CreateIfNotExist();

    //Get a reference to the page blob that will be
    CloudPageBlob pageBlob = cloudContainer.GetPageB

    //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
    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.L

    //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 client)
{
    //Write out the page ranges for the page blob.
    IEnumerable<PageRange> ranges = client.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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

	Name	Description
	Attributes	Gets the BlobAttributes object that represents the blob's attributes. (Inherited from CloudBlob)
	Container	Gets a CloudBlobContainer object representing the blob's container. (Inherited from CloudBlob)
	Metadata	Gets the blob's user-defined metadata. (Inherited from CloudBlob)
	Name	Gets the name of the blob. (Inherited from CloudBlob)
	Parent	Gets the CloudBlobDirectory object representing the virtual parent directory for the blob. (Inherited from CloudBlob)
	Properties	Gets the blob's system properties. (Inherited from CloudBlob)
	ServiceClient	Gets the CloudBlobClient object that represents the Blob service. (Inherited from CloudBlob)
	SnapshotTime	Gets the Date Time value that uniquely identifies the snapshot, if this blob is a snapshot. (Inherited from CloudBlob)
	ToBlockBlob	Gets a CloudBlockBlob object based on this blob. (Inherited from CloudBlob)
	ToPageBlob	Gets a CloudPageBlob object based on this blob. (Inherited from CloudBlob)
	Uri	Gets the URI that identifies the blob. (Inherited from CloudBlob)

▣ 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)

Usage

Visual Basic

```
Dim instance As CloudQueue
```

☐ Syntax

Visual Basic

```
Public Class CloudQueue
```

C#

```
public class CloudQueue
```

C++

```
public ref class CloudQueue
```

J#

JScript

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudQueue Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



CloudQueue 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 Windows Azure queue.

The following tables list the members exposed by the [CloudQueue](#) type.

▣ Public Constructors

Name	Description
CloudQueue	Initializes a new instance of the CloudQueue class.

[Top](#)

☐ Public Properties

	Name	Description
	ApproximateMessageCount	Gets the approximate message count for the queue.
	Attributes	Gets the queue's attributes, including its user-defined metadata.
	EncodeMessage	Gets or sets a value indicating whether to apply Base64 encoding when adding or retrieving messages.
	Metadata	Gets the queue's user-defined metadata.
	Name	Gets the queue name.
	ServiceClient	Gets the CloudQueueClient object that represents the Queue service.
	Uri	Gets the URI that identifies the queue.

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☐ **Public Methods (see also [Protected Methods](#))**

	Name	Description
	AddMessage	Overloaded. Adds a message to the queue.
	BeginAddMessage	Overloaded.
	BeginClear	Begins an asynchronous operation to clear all messages from the queue.
	BeginCreate	Begins an asynchronous operation to create a queue.
	BeginCreateIfNotExist	Begins an asynchronous operation to create the queue if it does not exist.
	BeginDelete	Begins an asynchronous operation to delete the queue.
	BeginDeleteMessage	Overloaded.
	BeginExists	Begins an asynchronous operation to determine whether the queue exists.
	BeginFetchAttributes	Begins an asynchronous operation to fetch the queue's attributes.
	BeginGetMessage	Overloaded.
	BeginGetMessages	Overloaded.
	BeginPeekMessage	Begins an asynchronous operation to peek a message from the queue.
	BeginPeekMessages	Begins an asynchronous operation to peek a set of messages from the queue.
	BeginSetMetadata	Begins an asynchronous operation to set the queue's metadata.
	BeginUpdateMessage	Begins an asynchronous operation to update the visibility delay of a message, and optionally the contents of a message.
	Clear	Clears all messages from the queue.
	Create	Creates a queue.

 CreateIfNotExist	Creates the queue if it does not exist.
 Delete	Deletes the queue.
 DeleteMessage	Overloaded.
 EndAddMessage	Ends an asynchronous operation to add a message to the queue.
 EndClear	Ends an asynchronous operation to clear all messages from the queue.
 EndCreate	Ends an asynchronous operation to create a queue.
 EndCreateIfNotExist	Ends an asynchronous operation to create the queue if it does not exist.
 EndDelete	Ends an asynchronous operation to delete the queue.
 EndDeleteMessage	Ends an asynchronous operation to delete a message.
 EndExists	Ends an asynchronous operation to determine whether the queue exists.
 EndFetchAttributes	Ends an asynchronous operation to fetch the queue's attributes.
 EndGetMessage	Ends an asynchronous operation to get a single message from the queue.
 EndGetMessages	Ends an asynchronous operation to get messages from the queue.
 EndPeekMessage	Ends an asynchronous operation to peek a message from the queue.
 EndPeekMessages	Ends an asynchronous operation to peek a set of messages from the queue.
 EndSetMetadata	Ends an asynchronous operation to set the queue's metadata.
 EndUpdateMessage	Ends an asynchronous operation to update a queue message.
 Equals	(Inherited from Object)
 Exists	Determines if the queue exists.
 FetchAttributes	Fetches the queue's attributes.

	GetHashCode	(Inherited from Object)
	GetMessage	Overloaded.
	GetMessages	Overloaded.
	GetType	(Inherited from Object)
	PeekMessage	Peeks a message from the queue.
	PeekMessages	Peeks a set of messages from the queue.
	RetrieveApproximateMessageCount	Retrieves the approximate message count for the queue.
	SetMetadata	Sets the queue's metadata.
	ToString	(Inherited from Object)
	UpdateMessage	Updates the visibility timeout of a message, and optionally the contents of a message.

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ 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

```
Dim address As String  
Dim credentials As StorageCredentials  
  
Dim instance As New CloudQueue(address, credentials)
```

▣ Syntax

Visual Basic

```
Public Sub New ( _  
    address As String, _  
    credentials As StorageCredentials _  
)
```

C#

```
public CloudQueue (  
    string address,  
    StorageCredentials credentials  
)
```

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.

▣ Example

The following code example uses the **CloudQueue** constructor to create a queue:

C#

```
public CloudQueue CreateNewQueue(string queueAbsoluteURI,
{
    StorageCredentialsAccountAndKey credentials;
    CloudQueue newQueue = null;
    try
    {
        credentials = new StorageCredentialsAccountAndKey(
            queueAbsoluteURI, queueAbsoluteURI );
        newQueue = new CloudQueue( queueAbsoluteURI, credentials );
        newQueue.Create( );
    }
    catch( Exception ex )
    {
        Trace.TraceError( string.Format(
            "Failed to create new CloudQueue at URI '{0}' with " +
            "credentials '{1}'. Error: {2}",
            queueAbsoluteURI, credentials, ex.Message ) );
        return ( null );
    }
    return ( newQueue );
}
```

▣ **Remarks**

See the [GetQueueReference](#) method for an alternate way to create a new [CloudQueue](#) object.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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.]

☐ **Public Methods (see also [Protected Methods](#))**

	Name	Description
	AddMessage	Overloaded. Adds a message to the queue.
	BeginAddMessage	Overloaded.
	BeginClear	Begins an asynchronous operation to clear all messages from the queue.
	BeginCreate	Begins an asynchronous operation to create a queue.
	BeginCreateIfNotExist	Begins an asynchronous operation to create the queue if it does not exist.
	BeginDelete	Begins an asynchronous operation to delete the queue.
	BeginDeleteMessage	Overloaded.
	BeginExists	Begins an asynchronous operation to determine whether the queue exists.
	BeginFetchAttributes	Begins an asynchronous operation to fetch the queue's attributes.
	BeginGetMessage	Overloaded.
	BeginGetMessages	Overloaded.
	BeginPeekMessage	Begins an asynchronous operation to peek a message from the queue.
	BeginPeekMessages	Begins an asynchronous operation to peek a set of messages from the queue.
	BeginSetMetadata	Begins an asynchronous operation to set the queue's metadata.
	BeginUpdateMessage	Begins an asynchronous operation to update the visibility delay of a message, and optionally the contents of a message.
	Clear	Clears all messages from the queue.
	Create	Creates a queue.

 CreateIfNotExist	Creates the queue if it does not exist.
 Delete	Deletes the queue.
 DeleteMessage	Overloaded.
 EndAddMessage	Ends an asynchronous operation to add a message to the queue.
 EndClear	Ends an asynchronous operation to clear all messages from the queue.
 EndCreate	Ends an asynchronous operation to create a queue.
 EndCreateIfNotExist	Ends an asynchronous operation to create the queue if it does not exist.
 EndDelete	Ends an asynchronous operation to delete the queue.
 EndDeleteMessage	Ends an asynchronous operation to delete a message.
 EndExists	Ends an asynchronous operation to determine whether the queue exists.
 EndFetchAttributes	Ends an asynchronous operation to fetch the queue's attributes.
 EndGetMessage	Ends an asynchronous operation to get a single message from the queue.
 EndGetMessages	Ends an asynchronous operation to get messages from the queue.
 EndPeekMessage	Ends an asynchronous operation to peek a message from the queue.
 EndPeekMessages	Ends an asynchronous operation to peek a set of messages from the queue.
 EndSetMetadata	Ends an asynchronous operation to set the queue's metadata.
 EndUpdateMessage	Ends an asynchronous operation to update a queue message.
 Equals	(Inherited from Object)
 Exists	Determines if the queue exists.
 FetchAttributes	Fetches the queue's attributes.

	GetHashCode	(Inherited from Object)
	GetMessage	Overloaded.
	GetMessages	Overloaded.
	GetType	(Inherited from Object)
	PeekMessage	Peeks a message from the queue.
	PeekMessages	Peeks a set of messages from the queue.
	RetrieveApproximateMessageCount	Retrieves the approximate message count for the queue.
	SetMetadata	Sets the queue's metadata.
	ToString	(Inherited from Object)
	UpdateMessage	Updates the visibility timeout of a message, and optionally the contents of a message.

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ 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

Name	Description
CloudQueue.AddMessage (CloudQueueMessage)	Adds a message to the queue.
CloudQueue.AddMessage (CloudQueueMessage, Nullable, Nullable)	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).
CloudQueue.AddMessage (CloudQueueMessage, TimeSpan)	Adds a message to the queue, along with a value specifying how long it can remain in the queue.

▣ See Also

Reference

[CloudQueue Class](#)

[CloudQueue Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueue.AddMessage Method (CloudQueueMessage)

[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.

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.AddMessage(message)
```

▣ Syntax

Visual Basic

```
Public Sub AddMessage ( _  
    message As CloudQueueMessage _  
)
```

C#

```
public void AddMessage (  
    CloudQueueMessage message  
)
```

C++

```
public:  
void AddMessage (  
    CloudQueueMessage^ message  
)
```

J#

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)
{
    //Create service client for credentialed access
    CloudQueueClient queueClient = new CloudQueueClient(
        new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a queue in this storage account
    CloudQueue queue = queueClient.GetQueueReference(queueName);
    //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("1");
    CloudQueueMessage msg2 = new CloudQueueMessage("2");
    CloudQueueMessage msg3 = new CloudQueueMessage("3");

    //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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudQueue Class](#)

[CloudQueue Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueue.AddMessage Method (CloudQueueMessage, 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.]

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, initialVisil
```


▣ 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#

JSscript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ 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

```
Dim instance As CloudQueue  
Dim message As CloudQueueMessage  
Dim timeToLive As TimeSpan  
  
instance.AddMessage(message, timeToLive)
```

▣ Syntax

Visual Basic

```
Public Sub AddMessage ( _  
    message As CloudQueueMessage, _  
    timeToLive As TimeSpan _  
)
```

C#

```
public void AddMessage (  
    CloudQueueMessage message,  
    TimeSpan timeToLive  
)
```

C++

```
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.

▣ 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)
{
    //Create service client for credentialed access
    CloudQueueClient queueClient = new CloudQueueClient(
        new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a queue in this storage account
    CloudQueue queue = queueClient.GetQueueReference(queueName);
    //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("1");
    CloudQueueMessage msg2 = new CloudQueueMessage("2");
    CloudQueueMessage msg3 = new CloudQueueMessage("3");

    //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 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.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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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.]

☐ Overload List

Name	Description
CloudQueue.BeginAddMessage (CloudQueueMessage, AsyncCallback, Object)	Begins an asynchronous operation to add a message to the queue.
CloudQueue.BeginAddMessage (CloudQueueMessage, Nullable, Nullable, AsyncCallback, Object)	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).
CloudQueue.BeginAddMessage (CloudQueueMessage, TimeSpan, AsyncCallback, Object)	Begins an asynchronous operation to add a message to the queue, with a value specifying how long it can remain in the queue.

▣ See Also

Reference

[CloudQueue Class](#)

[CloudQueue Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueue.BeginAddMessage Method (CloudQueueMessage, 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.

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.BeginAddMessage(message, calll
```

▣ Syntax

Visual Basic

```
Public Function BeginAddMessage ( _  
    message As CloudQueueMessage, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginAddMessage (  
    CloudQueueMessage message,  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
public:  
IAsyncResult^ BeginAddMessage (  
    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.


```

        CloudQueue queue,
        object stateObject
    {
        queue.BeginAddMessage( new CloudQueueMessage( message,
            messageTimeToLive,
            QueueAddMessageCallback,
            new QueueAsyncStateExample( stateObject ) ) );
    }

    // Static call that starts adding a message
    // and specifies how long the message should stay in the queue
    // and specifies how long to wait before the message is visible
    static void AddMessageAsync( string messageString,
        TimeSpan msgTimeToLive,
        TimeSpan timeBeforeMessageIsVisible,
        CloudQueue queue,
        object stateObject )
    {
        queue.BeginAddMessage( new CloudQueueMessage( messageString,
            msgTimeToLive,
            timeBeforeMessageIsVisible,
            QueueAddMessageCallback,
            new QueueAsyncStateExample( stateObject ) ) );
    }

    // The callback method that is called once the asynchronous operation is complete
    static void QueueAddMessageCallback( IAsyncResult result )
    {
        QueueAsyncStateExample state = (QueueAsyncStateExample) result.AsyncState;
        CloudQueue queue = state.queueObject;
        // End the BeginAddMessage operation
        queue.EndAddMessage( result );
        // ...other asynchronous operations could be performed 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

```
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, callback, state, null)
```

▣ Syntax

Visual Basic

```
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#

JScript

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.

Example

The following code example illustrates using state when making an asynchronous call.

C#

```
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,
            {
                this.queueObject = queue;
                this.customStateInformation = yourAdditionalState;
            }

        // Static call that starts adding a message with
        static void AddMessageAsync( string messageString,
            {
                queue.BeginAddMessage( new CloudQueueMessage( messageString ),
                                    QueueAddMessageCallback,
                                    new QueueAsyncStateExample( queue, customStateInformation ) );
            }

        // Static call that starts adding a message
        // and specifies how long the message should stay in the queue
        static void AddMessageAsync( string msgString,
                                    TimeSpan messageTimeToLive )
        {
            queueObject.AddMessage( msgString, messageTimeToLive );
        }
    }
}
```

```

        CloudQueue queue,
        object stateObject
    {
        queue.BeginAddMessage( new CloudQueueMessage( message,
            messageTimeToLive,
            QueueAddMessageCallback,
            new QueueAsyncStateExample( stateObject ) ) );
    }

    // Static call that starts adding a message
    // and specifies how long the message should stay in the queue
    // and specifies how long to wait before the message is visible
    static void AddMessageAsync( string messageString,
        TimeSpan msgTimeToLive,
        TimeSpan timeBeforeMessageIsVisible,
        CloudQueue queue,
        object stateObject
    {
        queue.BeginAddMessage( new CloudQueueMessage( messageString,
            msgTimeToLive,
            timeBeforeMessageIsVisible,
            QueueAddMessageCallback,
            new QueueAsyncStateExample( stateObject ) ) );
    }

    // The callback method that is called once the asynchronous operation is complete
    static void QueueAddMessageCallback( IAsyncResult result )
    {
        QueueAsyncStateExample state = (QueueAsyncStateExample) result.AsyncState;
        CloudQueue queue = state.queueObject;
        // End the BeginAddMessage operation
        queue.EndAddMessage( result );
        // ...other asynchronous operations could be performed here
    }
}
}

```

▣ Remarks

The **BeginAddMessage** method adds 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.

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ Usage

Visual Basic

```
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, returnValue)
```

▣ Syntax

Visual Basic

```
Public Function BeginAddMessage ( _  
    message As CloudQueueMessage, _  
    timeToLive As TimeSpan, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginAddMessage (  
    CloudQueueMessage message,  
    TimeSpan timeToLive,  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
public:  
IAsyncResult^ BeginAddMessage (  
    CloudQueueMessage^ message,  
    TimeSpan timeToLive,  
    AsyncCallback^ callback,  
    Object^ state  
)
```

J#

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.

C#

```
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,
            {
                this.queueObject = queue;
                this.customStateInformation = yourAdditionalState;
            }

        // Static call that starts adding a message with
        static void AddMessageAsync( string messageString,
            {
                queue.BeginAddMessage( new CloudQueueMessage( messageString ),
                                    QueueAddMessageCallback,
                                    new QueueAsyncStateExample( queue, customStateInformation ) );
            }

        // Static call that starts adding a message
        // and specifies how long the message should stay in the queue
        static void AddMessageAsync( string msgString,
                                    TimeSpan messageTimeToLive )
        {
            queueObject.AddMessage( msgString, messageTimeToLive );
        }
    }
}
```



```

        CloudQueue queue,
        object stateObject
    {
        queue.BeginAddMessage( new CloudQueueMessage( message,
            messageTimeToLive,
            QueueAddMessageCallback,
            new QueueAsyncStateExample( stateObject ) ) );
    }

    // Static call that starts adding a message
    // and specifies how long the message should stay in the queue
    // and specifies how long to wait before the message is visible
    static void AddMessageAsync( string messageString,
        TimeSpan msgTimeToLive,
        TimeSpan timeBeforeMessageIsVisible,
        CloudQueue queue,
        object stateObject )
    {
        queue.BeginAddMessage( new CloudQueueMessage( messageString,
            msgTimeToLive,
            timeBeforeMessageIsVisible,
            QueueAddMessageCallback,
            new QueueAsyncStateExample( stateObject ) ) );
    }

    // The callback method that is called once the asynchronous operation is complete
    static void QueueAddMessageCallback( IAsyncResult result )
    {
        QueueAsyncStateExample state = (QueueAsyncStateExample) result.AsyncState;
        CloudQueue queue = state.queueObject;
        // End the BeginAddMessage operation
        queue.EndAddMessage( result );
        // ...other asynchronous operations could be performed 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

```
Public Function BeginClear ( _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginClear (  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
public:  
IAsyncResult^ BeginClear (  
    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 **BeginClear**.

C#

```
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,
            {
                this.queueObject = queue;
                this.customStateInformation = yourAdditionalSt
            }

        // Static call that starts clearing the queue
        static void ClearQueueAsync( CloudQueue queue, o
        {
            queue.BeginClear( QueueClearCallback,
                               new QueueAsyncStateExample(
        }

        // The callback method that is called once the c
        static void QueueClearCallback( IAsyncResult opR
        {
            QueueAsyncStateExample state = (QueueAsyncStat
            CloudQueue queue = state.queueObject;
            // End the BeginClear operation
```

```
        queue.EndClear( opResult );  
        // ...other asynchronous operations could be s  
    }  
}  
}
```

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

```
Dim instance As CloudQueue  
Dim callback As AsyncCallback  
Dim state As Object  
Dim returnValue As IAsyncResult  
  
returnValue = instance.BeginCreate(callback, state)
```

▣ Syntax

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#

```
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,
        {
            this.queueObject = queue;
            this.customStateInformation = yourAdditionalState;
        }

        // Static call that starts creating a queue (the
        //-----
        //  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.
        //  -- It may NOT contain contiguous hyphens ("---").
        //-----
        static CloudQueue CreateQueueAsync( string queueName, string queueUri,
        {
            CloudQueue queue = queueClient.GetQueueReference(queueName, queueUri);
```

```

        queue.BeginCreate( QueueCreateCallback,
                           new QueueAsyncStateExample( queue ),
                           return ( queue ); // (note that the queue created
    }

    // The callback method that is called once the create operation is complete
    static void QueueCreateCallback( IAsyncResult operation )
    {
        QueueAsyncStateExample state = (QueueAsyncStateExample) operation.AsyncState;
        CloudQueue queue = state.queueObject;
        // End the BeginCreate operation
        queue.EndCreate( operation );
        // ...other asynchronous operations could be performed here
    }
}
}

```

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudQueue Class](#)

[CloudQueue Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueue.BeginCreateIfNotExist 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 the queue if it does not exist.

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.BeginCreateIfNotExist(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 illustrates using state when calling **BeginCreateIfNotExist**.

C#

```
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,
            {
                this.queueObject = queue;
                this.customStateInformation = yourAdditionalSto
            }

        // Static call that starts creating a queue if it doesn't exist
        // (the 'queue' parameter is a CloudQueue reference)
        static void CreateQueueIfNotExistAsync( CloudQueue queue)
        {
            queue.BeginCreateIfNotExist( QueueCreateIfNotExistCallback,
                                         new QueueAsyncStateExample(),
                                         null );
        }

        // The callback method that is called once the queue is created
        static void QueueCreateIfNotExistCallback( IAsyncResult result )
        {
            QueueAsyncStateExample state = (QueueAsyncStateExample) result.AsyncState;
            CloudQueue queue = state.queueObject;
            object customStateInformation = state.customStateInformation;

            // The queue was created successfully
            // ...
        }
    }
}
```

```

QueueAsyncStateExample state = (QueueAsyncStateExample)stateObject;
CloudQueue queue = state.queueObject;
// End the BeginCreateIfNotExist operation
string yesNo = ( queue.EndCreateIfNotExist( operationOptions ) ? "yes" : "no" );
Trace.WriteLine( string.Format( "The '{0}' queue {1} was created.", queue.Name, yesNo ) );
// ...other asynchronous operations could be performed here
}
}
}

```

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudQueue Class](#)

[CloudQueue Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueue.BeginDelete 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 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.BeginDelete(callback, state)
```

▣ Syntax

Visual Basic

```
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.

Example

The following code example illustrates using state when calling **BeginDelete**.

C#

```
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,
        {
            this.queueObject = queue;
            this.customStateInformation = yourAdditionalSt
        }

        // Static call that starts deleting a queue
        static void DeleteQueueAsync( CloudQueue queue,
        {
            queue.BeginDelete( QueueDeleteCallback,
                               new QueueAsyncStateExample(
        }

        // The callback method that is called once the c
        static void QueueDeleteCallback( IAsyncResult op
        {
            QueueAsyncStateExample state = (QueueAsyncStat
            CloudQueue queue = state.queueObject;
```

```
        // End the BeginDelete operation
        queue.EndDelete( opResult );
        // ...other asynchronous operations could be s
    }
}
}
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudQueue Class](#)

[CloudQueue Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueue.BeginDeleteMessage 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

Name	Description
CloudQueue.BeginDeleteMessage (CloudQueueMessage, AsyncCallback, Object)	Begins an asynchronous operation to delete a message.
CloudQueue.BeginDeleteMessage (String, String, AsyncCallback, Object)	Begins an asynchronous operation to delete a message, using the message ID, and the pop receipt value.

▣ See Also

Reference

[CloudQueue Class](#)

[CloudQueue Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueue.BeginDeleteMessage Method (CloudQueueMessage, 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.

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, c
```

▣ Syntax

Visual Basic

```
Public Function BeginDeleteMessage ( _  
    message As CloudQueueMessage, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAAsyncResult
```

C#

```
public IAAsyncResult BeginDeleteMessage (   
    CloudQueueMessage message,   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
public:   
IAAsyncResult^ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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 IAAsyncResult  
  
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#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Visual Basic

```
Public Function BeginExists ( _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginExists (  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
public:  
IAsyncResult^ BeginExists (  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Visual Basic

```
Public Function BeginFetchAttributes ( _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginFetchAttributes (  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
public:  
IAsyncResult^ BeginFetchAttributes (  
    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 [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 or 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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.]

☐ Overload List

Name	Description
CloudQueue.BeginGetMessage (AsyncCallback, Object)	Begins an asynchronous operation to get a single message from the queue.
CloudQueue.BeginGetMessage (TimeSpan, AsyncCallback, Object)	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.

▣ See Also

Reference

[CloudQueue Class](#)

[CloudQueue Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueue.BeginGetMessage 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 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

```
Public Function BeginGetMessage ( _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginGetMessage (  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
public:  
IAsyncResult^ BeginGetMessage (  
    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 **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudQueue Class](#)

[CloudQueue Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueue.BeginGetMessage Method (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 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(visibilityTim
```

▣ Syntax

Visual Basic

```
Public Function BeginGetMessage ( _  
    visibilityTimeout As TimeSpan, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginGetMessage (  
    TimeSpan visibilityTimeout,  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
public:  
IAsyncResult^ BeginGetMessage (  
    TimeSpan visibilityTimeout,  
    AsyncCallback^ callback,  
    Object^ state  
)
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Name	Description
CloudQueue.BeginGetMessages (Int32, AsyncCallback, Object)	Begins an asynchronous operation to get messages from the queue.
CloudQueue.BeginGetMessages (Int32, TimeSpan, AsyncCallback, Object)	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.

▣ See Also

Reference

[CloudQueue Class](#)

[CloudQueue Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueue.BeginGetMessages Method (Int32, 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.

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 callback As AsyncCallback  
Dim state As Object  
Dim returnValue As IAsyncResult  
  
returnValue = instance.BeginGetMessages(messageCount,
```

▣ Syntax

Visual Basic

```
Public Function BeginGetMessages ( _  
    messageCount As Integer, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginGetMessages (  
    int messageCount,  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
public:  
IAsyncResult^ BeginGetMessages (  
    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

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
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

```
Public Function BeginGetMessages ( _  
    messageCount As Integer, _  
    visibilityTimeout As TimeSpan, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginGetMessages (   
    int messageCount,   
    TimeSpan visibilityTimeout,   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
public:   
IAsyncResult^ BeginGetMessages (   
    int messageCount,   
    TimeSpan visibilityTimeout,   
    AsyncCallback^ callback,   
    Object^ state   
)
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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.BeginPeekMessage(callback, state, 0, TimeSpan.FromSeconds(10))
```

▣ Syntax

Visual Basic

```
Public Function BeginPeekMessage ( _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginPeekMessage (   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
public:   
IAsyncResult^ BeginPeekMessage (   
    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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudQueue Class](#)

[CloudQueue Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueue.BeginPeekMessages 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 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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As CloudQueue  
Dim callback As AsyncCallback  
Dim state As Object  
Dim returnValue As IAsyncResult  
  
returnValue = instance.BeginSetMetadata(callback, state)
```

▣ Syntax

Visual Basic

```
Public Function BeginSetMetadata ( _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginSetMetadata (   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
public:   
IAsyncResult^ BeginSetMetadata (   
    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 **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudQueue Class](#)

[CloudQueue Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueue.BeginUpdateMessage 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 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

```
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, v:
```

▣ Syntax

Visual Basic

```
Public Function BeginUpdateMessage ( _  
    message As CloudQueueMessage, _  
    visibilityTimeout As TimeSpan, _  
    updateFields As MessageUpdateFields, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginUpdateMessage (  
    CloudQueueMessage message,  
    TimeSpan visibilityTimeout,  
    MessageUpdateFields updateFields,  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
public:  
IAsyncResult^ BeginUpdateMessage (  
    CloudQueueMessage^ message,  
    TimeSpan visibilityTimeout,  
    MessageUpdateFields updateFields,  
    AsyncCallback^ callback,  
    Object^ state  
)
```

J#

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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudQueue  
  
instance.Clear
```

☐ Syntax

Visual Basic

```
Public Sub Clear
```

C#

```
public void Clear ()
```

C++

```
public:  
void Clear ()
```

J#

JScript

▣ Example

The following example gets a reference to a queue, clears any existing message and adds some new messages.

C#

```
static void CreateQueueAndAddMessages(Uri queueEndpoint)
{
    //Create service client for credentialed access
    CloudQueueClient queueClient = new CloudQueueClient(
        new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a queue in this storage account
    CloudQueue queue = queueClient.GetQueueReference(queueName);
    //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("1");
    CloudQueueMessage msg2 = new CloudQueueMessage("2");
    CloudQueueMessage msg3 = new CloudQueueMessage("3");

    //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 **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

Visual Basic

```
Dim instance As CloudQueue  
instance.Create
```

☐ Syntax

Visual Basic

```
Public Sub Create
```

C#

```
public void Create ()
```

C++

```
public:  
void Create ()
```

J#

JScript

▣ Example

The following code example checks whether the specified queue exists and creates it if it does not.

C#

```
static void CreateQueue(Uri queueEndpoint, string accountName)
{
    //Create service client for credentialed access to the storage account
    CloudQueueClient queueClient = new CloudQueueClient(
        new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a queue in this storage account
    CloudQueue queue = queueClient.GetQueueReference(queueEndpoint);

    //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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudQueue Class](#)

[CloudQueue Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueue.CreateIfNotExist 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 queue if it does not exist.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudQueue  
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](#)

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#

```
static void CreateQueueAndAddMessages(Uri queueEndpoint)
{
    //Create service client for credentialed access
    CloudQueueClient queueClient = new CloudQueueClient(
        new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a queue in this storage account
    CloudQueue queue = queueClient.GetQueueReference(queueName);
    //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("1");
    CloudQueueMessage msg2 = new CloudQueueMessage("2");
    CloudQueueMessage msg3 = new CloudQueueMessage("3");

    //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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudQueue Class](#)

[CloudQueue Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueue.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 queue.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudQueue  
  
instance.Delete
```

☐ Syntax

Visual Basic

```
Public Sub Delete
```

C#

```
public void Delete ()
```

C++

```
public:  
void Delete ()
```

J#

JScript

Example

C#

```
static void DeleteAQueue(Uri queueEndpoint, string accountName)
{
    //Create service client for credentialed access
    CloudQueueClient queueClient = new CloudQueueClient(
        new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a queue in this storage account
    CloudQueue queue = queueClient.GetQueueReference(queueEndpoint);

    //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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

Name	Description
CloudQueue.DeleteMessage (CloudQueueMessage)	Deletes a message.
CloudQueue.DeleteMessage (String, String)	Deletes a message based on the message ID and the pop receipt value.

▣ See Also

Reference

[CloudQueue Class](#)

[CloudQueue Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueue.DeleteMessage Method (CloudQueueMessage)

[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 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

```
Public Sub DeleteMessage ( _  
    message As CloudQueueMessage _  
)
```

C#

```
public void DeleteMessage (  
    CloudQueueMessage message  
)
```

C++

```
public:  
void DeleteMessage (  
    CloudQueueMessage^ message  
)
```

J#

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#

```
static void DeleteQueueMessages(Uri queueEndpoint, string accountName)
{
    //Create service client for credentialed access to the queue
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint,
        new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a queue in this storage account
    CloudQueue queue = queueClient.GetQueueReference(queueName);
    //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(i.ToString());
        queue.AddMessage(msg);
        Console.WriteLine("Adding message with content: " + i);
    }

    //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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudQueue Class](#)

[CloudQueue Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueue.DeleteMessage Method (String, 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.]

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

```
Dim instance As CloudQueue  
Dim messageId As String  
Dim popReceipt As String  
  
instance.DeleteMessage(messageId, popReceipt)
```

▣ Syntax

Visual Basic

```
Public Sub DeleteMessage ( _  
    messageId As String, _  
    popReceipt As String _  
)
```

C#

```
public void DeleteMessage (  
    string messageId,  
    string popReceipt  
)
```

C++

```
public:  
void DeleteMessage (  
    String^ messageId,  
    String^ popReceipt  
)
```

J#

JScript

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.

C#

```
static void DeleteQueueMessages(Uri queueEndpoint, string accountName)
{
    //Create service client for credentialed access to the queue
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint,
        new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a queue in this storage account
    CloudQueue queue = queueClient.GetQueueReference(queueName);
    //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(i.ToString());
        queue.AddMessage(msg);
        Console.WriteLine("Adding message with content: " + i);
    }

    //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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

```
Public Sub EndAddMessage ( _  
    asyncResult As IAsyncResult _  
)
```

C#

```
public void EndAddMessage (  
    IAsyncResult asyncResult  
)
```

C++

```
public:  
void EndAddMessage (  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudQueue  
Dim asyncResult As IAsyncResult  
  
instance.EndClear(asyncResult)
```


▣ Syntax

Visual Basic

```
Public Sub EndClear ( _  
    asyncResult As IAsyncResult _  
)
```

C#

```
public void EndClear (  
    IAsyncResult asyncResult  
)
```

C++

```
public:  
void EndClear (  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As CloudQueue  
Dim asyncResult As IAsyncResult  
  
instance.EndCreate(asyncResult)
```

▣ Syntax

Visual Basic

```
Public Sub EndCreate ( _  
    asyncResult As IAsyncResult _  
)
```

C#

```
public void EndCreate (  
    IAsyncResult asyncResult  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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)

▣ Usage

Visual Basic

```
Dim instance As CloudQueue  
Dim asyncResult As IAsyncResult  
Dim returnValue As Boolean  
  
returnValue = instance.EndCreateIfNotExist(asyncResu.
```

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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)

▣ Usage

Visual Basic

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Public Sub EndDeleteMessage ( _  
    asyncResult As IAsyncResult _  
)
```

C#

```
public void EndDeleteMessage (  
    IAsyncResult asyncResult  
)
```

C++

```
public:  
void EndDeleteMessage (  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As CloudQueue  
Dim asyncResult As IAsyncResult  
Dim returnValue As Boolean  
  
returnValue = instance.EndExists(asyncResult)
```

▣ Syntax

Visual Basic

```
Public Function EndExists ( _  
    asyncResult As IAsyncResult _  
) As Boolean
```

C#

```
public bool EndExists (  
    IAsyncResult asyncResult  
)
```

C++

```
public:  
bool EndExists (  
    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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudQueue Class](#)

[CloudQueue Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueue.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 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 asyncResult As IAsyncResult  
  
instance.EndFetchAttributes(asyncResult)
```

▣ Syntax

Visual Basic

```
Public Sub EndFetchAttributes ( _  
    asyncResult As IAsyncResult _  
)
```

C#

```
public void EndFetchAttributes (  
    IAsyncResult asyncResult  
)
```

C++

```
public:  
void EndFetchAttributes (  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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)

▣ Usage

Visual Basic

```
Dim instance As CloudQueue  
Dim asyncResult As IAsyncResult  
Dim returnValue As CloudQueueMessage  
  
returnValue = instance.EndGetMessage(asyncResult)
```

▣ Syntax

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudQueue Class](#)

[CloudQueue Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueue.EndGetMessages 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 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 **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudQueue Class](#)

[CloudQueue Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueue.EndPeekMessage 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 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

```
Public Function EndPeekMessage ( _  
    asyncResult As IAsyncResult _  
) As CloudQueueMessage
```

C#

```
public CloudQueueMessage EndPeekMessage (  
    IAsyncResult asyncResult  
)
```

C++

```
public:  
CloudQueueMessage^ EndPeekMessage (  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As CloudQueue  
Dim asyncResult As IAsyncResult  
Dim returnValue As IEnumerable(Of CloudQueueMessage)  
  
returnValue = instance.EndPeekMessages(asyncResult)
```

▣ Syntax

Visual Basic

```
Public Function EndPeekMessages ( _  
    asyncResult As IAsyncResult _  
) As IEnumerable(Of CloudQueueMessage)
```

C#

```
public IEnumerable<CloudQueueMessage> EndPeekMessages(  
    (  
        IAsyncResult asyncResult  
    )  
)
```

C++

```
public:  
IEnumerable<CloudQueueMessage^>^ EndPeekMessages (  
    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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudQueue  
Dim asyncResult As IAsyncResult  
  
instance.EndUpdateMessage(asyncResult)
```

▣ Syntax

Visual Basic

```
Public Sub EndUpdateMessage ( _  
    asyncResult As IAsyncResult _  
)
```

C#

```
public void EndUpdateMessage (  
    IAsyncResult asyncResult  
)
```

C++

```
public:  
void EndUpdateMessage (  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudQueue  
Dim returnValue As Boolean  
  
returnValue = instance.Exists
```

▣ Syntax

Visual Basic

Public Function Exists As **Boolean**

C#

```
public bool Exists ()
```

C++

```
public:  
bool Exists ()
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As CloudQueue  
instance.FetchAttributes
```

☐ Syntax

Visual Basic

```
Public Sub FetchAttributes
```

C#

```
public void FetchAttributes ()
```

C++

```
public:  
void FetchAttributes ()
```

J#

JScript

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Name	Description
CloudQueue.GetMessage()	Gets a single message from the queue.
CloudQueue.GetMessage(TimeSpan)	Gets a single message from the queue, and specifies how long it should be reserved before it becomes visible—and therefore available for deletion.

▣ See Also

Reference

[CloudQueue Class](#)

[CloudQueue Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueue.GetMessage 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.]

Gets 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 returnValue As CloudQueueMessage  
  
returnValue = instance.GetMessage
```

▣ Syntax

Visual Basic

```
Public Function GetMessage As CloudQueueMessage
```

C#

```
public CloudQueueMessage GetMessage ()
```

C++

```
public:  
CloudQueueMessage^ GetMessage ()
```

J#

JScript

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.

C#

```
static void CreateQueueAndAddMessages(Uri queueEndpoint)
{
    //Create service client for credentialed access
    CloudQueueClient queueClient = new CloudQueueClient(
        new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a queue in this storage account
    CloudQueue queue = queueClient.GetQueueReference(queueName);
    //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("1");
    CloudQueueMessage msg2 = new CloudQueueMessage("2");
    CloudQueueMessage msg3 = new CloudQueueMessage("3");

    //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)
    {
        //Delete the message.
        queue.DeleteMessage(msgRead.Id);
    }
}
```

```
        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, **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

```
Dim instance As CloudQueue  
Dim visibilityTimeout As TimeSpan  
Dim returnValue As CloudQueueMessage  
  
returnValue = instance.GetMessage(visibilityTimeout)
```

▣ Syntax

Visual Basic

```
Public Function GetMessage ( _  
    visibilityTimeout As TimeSpan _  
) As CloudQueueMessage
```

C#

```
public CloudQueueMessage GetMessage (  
    TimeSpan visibilityTimeout  
)
```

C++

```
public:  
CloudQueueMessage^ GetMessage (  
    TimeSpan visibilityTimeout  
)
```

J#

JScript

Parameters

visibilityTimeout

Type: [System.TimeSpan](#)

The visibility timeout interval.

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.

C#

```
static void CreateQueueAndAddMessages(Uri queueEndpoint)
{
    //Create service client for credentialed access
    CloudQueueClient queueClient = new CloudQueueClient(
        new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a queue in this storage account
    CloudQueue queue = queueClient.GetQueueReference(queueName);
    //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("1");
    CloudQueueMessage msg2 = new CloudQueueMessage("2");
    CloudQueueMessage msg3 = new CloudQueueMessage("3");

    //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 [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

Name	Description
CloudQueue.GetMessages(Int32)	Gets a list of messages from the queue.
CloudQueue.GetMessages(Int32, TimeSpan)	Gets a list of messages from the queue, and specifies how long they should be reserved before becoming visible—and therefore available for deletion.

▣ See Also

Reference

[CloudQueue Class](#)

[CloudQueue Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueue.GetMessages Method (Int32)

[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 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

```
Public Function GetMessages ( _  
    messageCount As Integer _  
) As IEnumerable(Of CloudQueueMessage)
```

C#

```
public IEnumerable<CloudQueueMessage> GetMessages (  
    int messageCount  
)
```

C++

```
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.

▣ Example

The following code example adds some messages to the queue, retrieves them, and deletes them.

C#

```
static void RetrieveAndDeleteQueueMessages(Uri queueUri)
{
    //Create service client for credentialed access
    CloudQueueClient queueClient = new CloudQueueClient(
        new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a queue in this storage account
    CloudQueue queue = queueClient.GetQueueReference(queueUri);
    //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(i.ToString());
        queue.AddMessage(msg);
        Console.WriteLine("Adding message with content: " + i);
    }

    //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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudQueue Class](#)

[CloudQueue Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueue.GetMessages Method (Int32, 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 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, vis:
```

▣ Syntax

Visual Basic

```
Public Function GetMessages ( _  
    messageCount As Integer, _  
    visibilityTimeout As TimeSpan _  
) As IEnumerable(Of CloudQueueMessage)
```

C#

```
public IEnumerable<CloudQueueMessage> GetMessages (   
    int messageCount,   
    TimeSpan visibilityTimeout   
)
```

C++

```
public:   
    IEnumerable<CloudQueueMessage^>^ GetMessages (   
        int messageCount,   
        TimeSpan visibilityTimeout   
    )
```

J#

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.

C#

```
static void RetrieveAndDeleteQueueMessages(Uri queueUri)
{
    //Create service client for credentialed access
    CloudQueueClient queueClient = new CloudQueueClient(
        new StorageCredentialsAccountAndKey(accountName, accountKey));

    //Get a reference to a queue in this storage account
    CloudQueue queue = queueClient.GetQueueReference(queueUri);
    //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(i.ToString());
        queue.AddMessage(msg);
        Console.WriteLine("Adding message with content: " + i);
    }

    //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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

```
Public Function PeekMessage As CloudQueueMessage
```

C#

```
public CloudQueueMessage PeekMessage ()
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Public Function PeekMessages ( _  
    messageCount As Integer _  
) As IEnumerable(Of CloudQueueMessage)
```

C#

```
public IEnumerable<CloudQueueMessage> PeekMessages (  
    int messageCount  
)
```

C++

```
public:  
IEnumerable<CloudQueueMessage^> PeekMessages (  
    int messageCount  
)
```

J#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudQueue Class](#)

[CloudQueue Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueue.RetrieveApproximateMessageCount 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.]

Retrieves the approximate message count for 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 Integer  
  
returnValue = instance.RetrieveApproximateMessageCoun
```

▣ Syntax

Visual Basic

```
Public Function RetrieveApproximateMessageCount As Int32
```

C#

```
public int RetrieveApproximateMessageCount ()
```

C++

```
public:  
int RetrieveApproximateMessageCount ()
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudQueue  
Dim message As CloudQueueMessage  
Dim visibilityTimeout As TimeSpan  
Dim updateFields As MessageUpdateFields  
  
instance.UpdateMessage(message, visibilityTimeout, u)
```

▣ Syntax

Visual Basic

```
Public Sub UpdateMessage ( _  
    message As CloudQueueMessage, _  
    visibilityTimeout As TimeSpan, _  
    updateFields As MessageUpdateFields _  
)
```

C#

```
public void UpdateMessage (  
    CloudQueueMessage message,  
    TimeSpan visibilityTimeout,  
    MessageUpdateFields updateFields  
)
```

C++

```
public:  
void UpdateMessage (  
    CloudQueueMessage^ message,  
    TimeSpan visibilityTimeout,  
    MessageUpdateFields updateFields  
)
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

	Name	Description
	ApproximateMessageCount	Gets the approximate message count for the queue.
	Attributes	Gets the queue's attributes, including its user-defined metadata.
	EncodeMessage	Gets or sets a value indicating whether to apply Base64 encoding when adding or retrieving messages.
	Metadata	Gets the queue's user-defined metadata.
	Name	Gets the queue name.
	ServiceClient	Gets the CloudQueueClient object that represents the Queue service.
	Uri	Gets the URI that identifies the queue.

▣ 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

```
Dim instance As CloudQueue  
Dim value As Nullable(Of Integer)  
  
value = instance.ApproximateMessageCount
```

▣ Syntax

Visual Basic

```
Public Property ApproximateMessageCount As Nullable(()
```

C#

```
public Nullable<int> ApproximateMessageCount { get; }
```

C++

```
public:  
property Nullable<int> ApproximateMessageCount {  
    Nullable<int> get ();  
}
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As CloudQueue  
Dim value As QueueAttributes  
  
value = instance.Attributes
```

▣ Syntax

Visual Basic

```
Public ReadOnly Property Attributes As QueueAttributes
```

C#

```
public QueueAttributes Attributes { get; }
```

C++

```
public:  
property QueueAttributes^ Attributes {  
    QueueAttributes^ get ();  
}
```

J#

JScript

Property Value

Type: [Microsoft.WindowsAzure.StorageClient.QueueAttributes](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Public Property EncodeMessage As **Boolean**

C#

```
public bool EncodeMessage { get; set; }
```

C++

```
public:  
property bool EncodeMessage {  
    bool get ();  
    void set (bool value);  
}
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudQueue Class](#)

[CloudQueue Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueue.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

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

▣ Usage

Visual Basic

```
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](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
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#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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)

▣ Usage

Visual Basic

```
Dim instance As CloudQueue  
Dim value As Uri  
  
value = instance.Uri
```

▣ Syntax

Visual Basic

```
Public ReadOnly Property Uri As Uri
```

C#

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

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudQueue Class](#)

[CloudQueue Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueueClient 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 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

Visual Basic

```
Public Class CloudQueueClient
```

C#

```
public class CloudQueueClient
```

C++

```
public ref class CloudQueueClient
```

J#

JScript

▣ Inheritance Hierarchy

System.Object

Microsoft.WindowsAzure.StorageClient.CloudQueueClient

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudQueueClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



CloudQueueClient 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 Queue service.

The following tables list the members exposed by the [CloudQueueClient](#) type.

▣ **Public Constructors**

	Name	Description
	CloudQueueClient	Overloaded.

[Top](#)

☐ Public Properties

	Name	Description
	ApproximateMessageCountCacheLength	Gets or sets the lifetime of the approximate message count cache. Obsolete.
	BaseUri	The base URI used to construct the Queue service client.
	Credentials	Gets the account credentials used to create the Queue service client.
	RetryPolicy	Gets or sets the default retry policy for requests made via the Queue service client.
	Timeout	Gets or sets the server timeout for requests made via the Queue service client.
	UsePathStyleUris	Gets a value indicating whether requests made via the Queue service client will employ path-style URIs.

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☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	BeginGetServiceProperties	Begins an asynchronous operation to get an account's Queue service properties.
	BeginListQueuesSegmented	Overloaded.
	BeginSetServiceProperties	Begins an asynchronous operation to set an account's Queue service properties, including Windows Azure Storage Analytics.
	EndGetServiceProperties	Ends an asynchronous operation to get an account's Queue service properties.
	EndListQueuesSegmented	Ends an asynchronous operation to return a result segment containing a collection of queues.
	EndSetServiceProperties	Ends an asynchronous operation to set an account's Queue service properties.
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetQueueReference	Gets a reference to the queue at the specified address.
	GetServiceProperties	Gets the properties of a storage account's Queue service, including Windows Azure Storage Analytics.
	GetType	(Inherited from Object)
	ListQueues	Overloaded.
	ListQueuesSegmented	Overloaded.
	SetServiceProperties	Sets the properties of a storage account's Queue service, including Windows Azure Storage Analytics.
	ToString	(Inherited from Object)

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☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

☐ Public Events

	Name	Description
⚡	ResponseReceived	Occurs when a response is received from the server.

[Top](#)

▣ 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

Name	Description
CloudQueueClient (String, StorageCredentials)	Initializes a new instance of the CloudQueueClient class using the Queue service endpoint specified as a string, and the storage account credentials.
CloudQueueClient (Uri, StorageCredentials)	Initializes a new instance of the CloudQueueClient class using the specified Queue service endpoint URI, and the storage account credentials.

▣ 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

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

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim baseAddressUri As Uri  
Dim credentials As StorageCredentials  
  
Dim instance As New CloudQueueClient(baseAddressUri,
```

▣ Syntax

Visual Basic

```
Public Sub New ( _  
    baseAddressUri As Uri, _  
    credentials As StorageCredentials _  
)
```

C#

```
public CloudQueueClient (  
    Uri baseAddressUri,  
    StorageCredentials credentials  
)
```

C++

```
public:  
CloudQueueClient (  
    Uri^ baseAddressUri,  
    StorageCredentials^ credentials  
)
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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](#))

	Name	Description
	BeginGetServiceProperties	Begins an asynchronous operation to get an account's Queue service properties.
	BeginListQueuesSegmented	Overloaded.
	BeginSetServiceProperties	Begins an asynchronous operation to set an account's Queue service properties, including Windows Azure Storage Analytics.
	EndGetServiceProperties	Ends an asynchronous operation to get an account's Queue service properties.
	EndListQueuesSegmented	Ends an asynchronous operation to return a result segment containing a collection of queues.
	EndSetServiceProperties	Ends an asynchronous operation to set an account's Queue service properties.
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetQueueReference	Gets a reference to the queue at the specified address.
	GetServiceProperties	Gets the properties of a storage account's Queue service, including Windows Azure Storage Analytics.
	GetType	(Inherited from Object)
	ListQueues	Overloaded.
	ListQueuesSegmented	Overloaded.
	SetServiceProperties	Sets the properties of a storage account's Queue service, including Windows Azure Storage Analytics.
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[CloudQueueClient Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



CloudQueueClient.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 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(cal.
```

▣ Syntax

Visual Basic

```
Public Function BeginGetServiceProperties ( _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginGetServiceProperties (  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Name	Description
CloudQueueClient.BeginListQueuesSegmented (AsyncCallback, Object)	Begins an asynchronous operation to return a result segment containing a collection of queues in the storage account.
CloudQueueClient.BeginListQueuesSegmented (String, QueueListingDetails, AsyncCallback, Object)	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.
CloudQueueClient.BeginListQueuesSegmented (String, QueueListingDetails, Int32, ResultContinuation, AsyncCallback, Object)	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.
CloudQueueClient.BeginListQueuesSegmented (String, AsyncCallback, Object)	Begins an asynchronous operation to return a result segment containing a collection of queues whose names begin with the specified prefix.

▣ See Also

Reference

[CloudQueueClient Class](#)

[CloudQueueClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueueClient.BeginListQueuesSegmented 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 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)

▣ Usage

Visual Basic

```
Dim instance As CloudQueueClient  
Dim callback As AsyncCallback  
Dim state As Object  
Dim returnValue As IAsyncResult  
  
returnValue = instance.BeginListQueuesSegmented(calll
```

▣ Syntax

Visual Basic

```
Public Function BeginListQueuesSegmented ( _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginListQueuesSegmented (  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
public:  
IAsyncResult^ BeginListQueuesSegmented (  
    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 lists queues in result segments asynchronously.

```
static void ListQueuesInSegmentsAsync(Uri queueEndpoint,
{
    //Create service client for credentialed access to the queue service
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint,
        new DefaultCredentials());

    //Return a page of 10 queues beginning with the specified prefix
    queueClient.BeginListQueuesSegmented("my", QueueOptions.Default,
}

static void ListQueuesInSegmentsAsyncCallback(IAsyncResult asyncResult)
{
    CloudQueueClient queueClient = (CloudQueueClient) asyncResult.AsyncState;
    ResultSegment<CloudQueue> resultSegment = queueClient.EndListQueuesSegmented(
        asyncResult);

    WriteQueuesInResultSegment(resultSegment);

    //Check that the page is complete.
    while (resultSegment.HasMoreResults)
    {
        resultSegment.BeginGetNext(GetNextCallback, null);
    }
}

static void GetNextCallback(IAsyncResult result)
{
    ResultSegment<CloudQueue> resultSegment = (ResultSegment<CloudQueue>)
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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 callback As AsyncCallback  
Dim state As Object  
Dim returnValue As IAsyncResult  
  
returnValue = instance.BeginListQueuesSegmented(pref:
```

▣ 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.

```
static void ListQueuesInSegmentsAsync(Uri queueEndpoint,
{
    //Create service client for credentialed access to the queue service
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint,
        new DefaultCredentials());

    //Return a page of 10 queues beginning with the specified prefix
    queueClient.BeginListQueuesSegmented("my", QueueOptions.Default,
}

static void ListQueuesInSegmentsAsyncCallback(IAsyncResult asyncResult)
{
    CloudQueueClient queueClient = (CloudQueueClient) asyncResult.AsyncState;
    ResultSegment<CloudQueue> resultSegment = queueClient.EndListQueuesSegmented(
        asyncResult);

    WriteQueuesInResultSegment(resultSegment);

    //Check that the page is complete.
    while (resultSegment.HasMoreResults)
    {
        resultSegment.BeginGetNext(GetNextCallback, null);
    }
}

static void GetNextCallback(IAsyncResult result)
{
    ResultSegment<CloudQueue> resultSegment = (ResultSegment<CloudQueue>)
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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 maxResults As Integer  
Dim continuationToken As ResultContinuation  
Dim callback As AsyncCallback  
Dim state As Object  
Dim returnValue As IAsyncResult  
  
returnValue = instance.BeginListQueuesSegmented(pref:
```

▣ Syntax

Visual Basic

```
Public Function BeginListQueuesSegmented ( _  
    prefix As String, _  
    detailsIncluded As QueueListingDetails, _  
    maxResults As Integer, _  
    continuationToken As ResultContinuation, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginListQueuesSegmented (   
    string prefix,   
    QueueListingDetails detailsIncluded,   
    int maxResults,   
    ResultContinuation continuationToken,   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
public:   
IAsyncResult^ BeginListQueuesSegmented (   
    String^ prefix,   
    QueueListingDetails detailsIncluded,   
    int maxResults,   
    ResultContinuation^ continuationToken,   
    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.

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.

```
static void ListQueuesInSegmentsAsync(Uri queueEndpoint,
{
    //Create service client for credentialed access to the queue service
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint,
        new DefaultCredentials());

    //Return a page of 10 queues beginning with the specified prefix
    queueClient.BeginListQueuesSegmented("my", QueueOptions.Default,
}

static void ListQueuesInSegmentsAsyncCallback(IAsyncResult asyncResult)
{
    CloudQueueClient queueClient = (CloudQueueClient) asyncResult.AsyncState;
    ResultSegment<CloudQueue> resultSegment = queueClient.EndListQueuesSegmented(
        asyncResult);

    WriteQueuesInResultSegment(resultSegment);

    //Check that the page is complete.
    while (resultSegment.HasMoreResults)
    {
        resultSegment.BeginGetNext(GetNextCallback, null);
    }
}

static void GetNextCallback(IAsyncResult result)
{
    ResultSegment<CloudQueue> resultSegment = (ResultSegment<CloudQueue>)
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudQueueClient Class](#)

[CloudQueueClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueueClient.BeginListQueuesSegmented Method (String, 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.

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 callback As AsyncCallback  
Dim state As Object  
Dim returnValue As IAsyncResult  
  
returnValue = instance.BeginListQueuesSegmented(pref:
```


▣ 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.

■ Example

The following code example lists queues in result segments asynchronously.

```
static void ListQueuesInSegmentsAsync(Uri queueEndpoint,
{
    //Create service client for credentialed access to the queue service
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint,
        new DefaultCredentials());

    //Return a page of 10 queues beginning with the specified prefix
    queueClient.BeginListQueuesSegmented("my", QueueOptions.Default,
}

static void ListQueuesInSegmentsAsyncCallback(IAsyncResult asyncResult)
{
    CloudQueueClient queueClient = (CloudQueueClient) asyncResult.AsyncState;
    ResultSegment<CloudQueue> resultSegment = queueClient.EndListQueuesSegmented(
        asyncResult);

    WriteQueuesInResultSegment(resultSegment);

    //Check that the page is complete.
    while (resultSegment.HasMoreResults)
    {
        resultSegment.BeginGetNext(GetNextCallback, null);
    }
}

static void GetNextCallback(IAsyncResult result)
{
    ResultSegment<CloudQueue> resultSegment = (ResultSegment<CloudQueue>)
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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)

▣ Usage

Visual Basic

```
Dim instance As CloudQueueClient  
Dim properties As ServiceProperties  
Dim callback As AsyncCallback  
Dim state As Object  
Dim returnValue As IAsyncResult  
  
returnValue = instance.BeginSetServiceProperties(prop
```

▣ Syntax

Visual Basic

```
Public Function BeginSetServiceProperties ( _  
    properties As ServiceProperties, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginSetServiceProperties (   
    ServiceProperties properties,   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudQueueClient Class](#)

[CloudQueueClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueueClient.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 Queue service properties.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudQueueClient  
Dim asyncResult As IAsyncResult  
Dim returnValue As ServiceProperties  
  
returnValue = instance.EndGetServiceProperties(asyncI
```

▣ 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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudQueueClient Class](#)

[CloudQueueClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueueClient.EndListQueuesSegmented 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 queues.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudQueueClient  
Dim asyncResult As IAsyncResult  
Dim returnValue As ResultSegment(Of CloudQueue)  
  
returnValue = instance.EndListQueuesSegmented(asyncR
```

▣ Syntax

Visual Basic

```
Public Function EndListQueuesSegmented ( _  
    asyncResult As IAsyncResult _  
) As ResultSegment(Of CloudQueue)
```

C#

```
public ResultSegment<CloudQueue> EndListQueuesSegmented  
(  
    IAsyncResult asyncResult  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As CloudQueueClient  
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudQueueClient Class](#)

[CloudQueueClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueueClient.GetQueueReference 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.]

Gets a reference to the queue at the specified address.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudQueueClient  
Dim queueAddress As String  
Dim returnValue As CloudQueue  
  
returnValue = instance.GetQueueReference(queueAddress)
```


▣ Syntax

Visual Basic

```
Public Function GetQueueReference ( _  
    queueAddress As String _  
) As CloudQueue
```

C#

```
public CloudQueue GetQueueReference (  
    string queueAddress  
)
```

C++

```
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.

```
static void CreateQueue(Uri queueEndpoint, string accountName)
{
    //Create service client for credentialed access to the queue
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint, accountName);

    //Get a reference to a queue in this storage account
    CloudQueue queue = queueClient.GetQueueReference(queueEndpoint);

    //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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

```
Dim instance As CloudQueueClient  
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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Name	Description
CloudQueueClient.ListQueues()	Returns an enumerable collection of the queues in the storage account.
CloudQueueClient.ListQueues(String)	Returns an enumerable collection of the queues in the storage account whose names begin with the specified prefix.
CloudQueueClient.ListQueues(String, QueueListingDetails)	Returns an enumerable collection of the queues in the storage account whose names begin with the specified prefix and that are retrieved lazily.

▣ See Also

Reference

[CloudQueueClient Class](#)

[CloudQueueClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueueClient.ListQueues 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 queues in the storage account.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
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.

▣ 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.

```
static void ListQueuesInAccount(Uri queueEndpoint, string accountName)
{
    //Create service client for credentialed access to the queue service.
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint, accountName);

    //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 a specified prefix.
    foreach(var queue in queueClient.ListQueues("my"))
    {
        Console.WriteLine(queue.Name);
    }
    Console.WriteLine();

    //List all of the queues in account beginning with a specified prefix and including metadata.
    foreach (var queue in queueClient.ListQueues("my", true))
    {
        Console.WriteLine(queue.Name);
        //Enumerate the queue's metadata.
        foreach (var metadataKey in queue.Metadata.Keys)
        {
            Console.WriteLine("\tMetadata name: " + metadataKey);
            Console.WriteLine("\tMetadata value: " + queue.Metadata[metadataKey]);
        }
    }
}
```

```
        }  
    }  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

```
Dim instance As CloudQueueClient  
Dim prefix As String  
Dim returnValue As IEnumerable(Of CloudQueue)  
  
returnValue = instance.ListQueues(prefix)
```

▣ Syntax

Visual Basic

```
Public Function ListQueues ( _  
    prefix As String _  
) As IEnumerable(Of CloudQueue)
```

C#

```
public IEnumerable<CloudQueue> ListQueues (  
    string prefix  
)
```

C++

```
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.

```
static void ListQueuesInAccount(Uri queueEndpoint, string accountName)
{
    //Create service client for credentialed access to the queue service.
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint, accountName);

    //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 a specified prefix.
    foreach(var queue in queueClient.ListQueues("my"))
    {
        Console.WriteLine(queue.Name);
    }
    Console.WriteLine();

    //List all of the queues in account beginning with a specified prefix and including metadata.
    foreach (var queue in queueClient.ListQueues("my", true))
    {
        Console.WriteLine(queue.Name);

        //Enumerate the queue's metadata.
        foreach (var metadataKey in queue.Metadata.Keys)
        {
            Console.WriteLine("\tMetadata name: " + metadataKey);
            Console.WriteLine("\tMetadata value: " + queue.Metadata[metadataKey]);
        }
    }
}
```



```
        }  
    }  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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 IEnumerable(Of CloudQueue)  
  
returnValue = instance.ListQueues(prefix, detailsInc.
```


▣ Syntax

Visual Basic

```
Public Function ListQueues ( _  
    prefix As String, _  
    detailsIncluded As QueueListingDetails _  
) As IEnumerable(Of CloudQueue)
```

C#

```
public IEnumerable<CloudQueue> ListQueues (  
    string prefix,  
    QueueListingDetails detailsIncluded  
)
```

C++

```
public:  
IEnumerable<CloudQueue^>^ ListQueues (  
    String^ prefix,  
    QueueListingDetails detailsIncluded  
)
```

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.

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.

```
static void ListQueuesInAccount(Uri queueEndpoint, string accountName)
{
    //Create service client for credentialed access to the queue service.
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint, accountName);

    //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 a specified prefix.
    foreach(var queue in queueClient.ListQueues("my"))
    {
        Console.WriteLine(queue.Name);
    }
    Console.WriteLine();

    //List all of the queues in account beginning with a specified prefix and including metadata.
    foreach (var queue in queueClient.ListQueues("my", true))
    {
        Console.WriteLine(queue.Name);

        //Enumerate the queue's metadata.
        foreach (var metadataKey in queue.Metadata.Keys)
        {
            Console.WriteLine("\tMetadata name: " + metadataKey);
            Console.WriteLine("\tMetadata value: " + queue.Metadata[metadataKey]);
        }
    }
}
```

```
        }  
    }  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudQueueClient Class](#)

[CloudQueueClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueueClient.ListQueuesSegmented 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

Name	Description
CloudQueueClient.ListQueuesSegmented()	Returns a result segment containing a collection of queues in the storage account.
CloudQueueClient.ListQueuesSegmented(String, QueueListingDetails)	Returns a result segment containing a collection of queues whose name begin with the specified prefix, with each listing the specified queue details.
CloudQueueClient.ListQueuesSegmented(String, QueueListingDetails, Int32, ResultContinuation)	Returns a result segment containing a collection of queues whose name 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.

▣ 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

```
Dim instance As CloudQueueClient  
Dim returnValue As ResultSegment(Of CloudQueue)  
  
returnValue = instance.ListQueuesSegmented
```

▣ Syntax

Visual Basic

```
Public Function ListQueuesSegmented As ResultSegment
```

C#

```
public ResultSegment<CloudQueue> ListQueuesSegmented
```

C++

```
public:  
ResultSegment<CloudQueue^>^ ListQueuesSegmented ()
```

J#

JScript

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.

```
static void ListQueuesInSegments(Uri queueEndpoint, string credentialedAccessKey)
{
    //Create service client for credentialed access to the queue service.
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint, credentialedAccessKey);

    //Return a page of 10 queues beginning with the specified marker.
    ResultSegment<CloudQueue> resultSegment = queueClient.ListQueues(10, null, 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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudQueueClient Class](#)

[CloudQueueClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueueClient.ListQueuesSegmented 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 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, d
```

▣ 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  
)
```

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.

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.

```
static void ListQueuesInSegments(Uri queueEndpoint, string credentialedAccessKey)
{
    //Create service client for credentialed access to the queue service.
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint, credentialedAccessKey);

    //Return a page of 10 queues beginning with the specified queue name.
    ResultSegment<CloudQueue> resultSegment = queueClient.ListQueues(10, queueName);
    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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ 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

```
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, d
```

▣ Syntax

Visual Basic

```
Public Function ListQueuesSegmented ( _  
    prefix As String, _  
    detailsIncluded As QueueListingDetails, _  
    maxResults As Integer, _  
    continuationToken As ResultContinuation _  
) As ResultSegment(Of CloudQueue)
```

C#

```
public ResultSegment<CloudQueue> ListQueuesSegmented  
(  
    string prefix,  
    QueueListingDetails detailsIncluded,  
    int maxResults,  
    ResultContinuation continuationToken  
)
```

C++

```
public:  
ResultSegment<CloudQueue>^ ListQueuesSegmented (  
    String^ prefix,  
    QueueListingDetails detailsIncluded,  
    int maxResults,  
    ResultContinuation^ continuationToken  
)
```

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.

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.

▣ Example

The following code example lists queues in pages of ten.

```
static void ListQueuesInSegments(Uri queueEndpoint, string credentialedAccessKey)
{
    //Create service client for credentialed access to the queue service.
    CloudQueueClient queueClient = new CloudQueueClient(queueEndpoint, credentialedAccessKey);

    //Return a page of 10 queues beginning with the specified queue name.
    ResultSegment<CloudQueue> resultSegment = queueClient.ListQueues(10, queueName);
    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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

```
Dim instance As CloudQueueClient  
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 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.

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudQueueClient Class](#)

[CloudQueueClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

[ServiceProperties](#)

Other Resources

[Storage Analytics Overview](#)

CloudQueueClient 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

	Name	Description
	ApproximateMessageCountCacheLength	Gets or sets the lifetime of the approximate message count cache. Obsolete.
	BaseUri	The base URI used to construct the Queue service client.
	Credentials	Gets the account credentials used to create the Queue service client.
	RetryPolicy	Gets or sets the default retry policy for requests made via the Queue service client.
	Timeout	Gets or sets the server timeout for requests made via the Queue service client.
	UsePathStyleUris	Gets a value indicating whether requests made via the Queue service client will employ path-style URIs.

▣ 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

```
Dim instance As CloudQueueClient  
Dim value As TimeSpan  
  
value = instance.ApproximateMessageCountCacheLength  
instance.ApproximateMessageCountCacheLength = value
```

▣ Syntax

Visual Basic

```
<ObsoleteAttribute("The approximate message count ca  
Public Property ApproximateMessageCountCacheLength A:
```

C#

```
[ObsoleteAttribute("The approximate message count ca  
public TimeSpan ApproximateMessageCountCacheLength {
```

C++

```
[ObsoleteAttribute(L"The approximate message count c  
public:  
property TimeSpan ApproximateMessageCountCacheLength  
    TimeSpan get ();  
    void set (TimeSpan value);  
}
```

J#

JScript

Property Value

Type: [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudQueueClient Class](#)

[CloudQueueClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueueClient.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.]

The base URI used to construct 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 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](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As CloudQueueClient  
Dim value As StorageCredentials  
  
value = instance.Credentials
```

▣ Syntax

Visual Basic

Public Property Credentials As **StorageCredentials**

C#

```
public StorageCredentials Credentials { get; }
```

C++

```
public:  
property StorageCredentials^ Credentials {  
    StorageCredentials^ get ();  
}
```

J#

JScript

Property Value

Type: [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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.

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As CloudQueueClient  
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](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudQueueClient Class](#)

[CloudQueueClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Setting Timeouts for Queue Service Operations](#)

CloudQueueClient.UsePathStyleUri 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

```
Dim instance As CloudQueueClient  
Dim value As Boolean  
  
value = instance.UsePathStyleUriis
```

▣ Syntax

Visual Basic

```
Public Property UsePathStyleUri As Boolean
```

C#

```
public bool UsePathStyleUri { get; }
```

C++

```
public:  
property bool UsePathStyleUri {  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

	Name	Description
	ResponseReceived	Occurs when a response is received from the server.

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudQueueClient  
Dim handler As EventHandler(Of ResponseReceivedEvent,  
  
AddHandler instance.ResponseReceived, handler
```


▣ Syntax

Visual Basic

```
Public Event ResponseReceived As EventHandler(Of Res
```

C#

```
public event EventHandler<ResponseReceivedEventArgs>
```

C++

```
public:  
event EventHandler<ResponseReceivedEventArgs>^ Respo  
    void add (EventHandler<ResponseReceivedEvent  
    void remove (EventHandler<ResponseReceivedE  
}
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudQueueClient Class](#)

[CloudQueueClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueueMessage 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 message in a queue.

Namespace: Microsoft.WindowsAzure.StorageClient

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

Usage

Visual Basic

```
Dim instance As CloudQueueMessage
```

☐ Syntax

Visual Basic

```
Public Class CloudQueueMessage
```

C#

```
public class CloudQueueMessage
```

C++

```
public ref class CloudQueueMessage
```

J#

JScript

▣ **Inheritance Hierarchy**

System.Object

Microsoft.WindowsAzure.StorageClient.CloudQueueMessage

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudQueueMessage Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



CloudQueueMessage Members

[See Also](#) [Constructors](#) [Fields](#) [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 message in a queue.

The following tables list the members exposed by the [CloudQueueMessage](#) type.

▣ Public Constructors

	Name	Description
	CloudQueueMessage	Overloaded.

[Top](#)

▣ Public Fields

	Name	Description
 	<u>MaxMessageSize</u>	The maximum message size in bytes.
 	<u>MaxNumberOfMessagesToPeek</u>	The maximum number of messages that can be peeked at a time.
 	<u>MaxTimeToLive</u>	The maximum amount of time a message is kept in the queue.

[Top](#)

☐ Public Properties

	Name	Description
	AsBytes	Gets the content of the message as a byte array.
	AsString	Gets the content of the message, as a string.
	DequeueCount	Gets the number of times this message has been dequeued.
	ExpirationTime	Gets the time that the message expires.
	Id	Gets the message ID.
	InsertionTime	Gets the time that the message was added to the queue.
	NextVisibleTime	Gets the time that the message will next be visible.
	PopReceipt	Gets the message's pop receipt.

[Top](#)

☐ **Public Methods (see also [Protected Methods](#))**

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	SetMessageContent	Overloaded.
	ToString	(Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ 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

	Name	Description
 	<u>MaxMessageSize</u>	The maximum message size in bytes.
 	<u>MaxNumberOfMessagesToPeek</u>	The maximum number of messages that can be peeked at a time.
 	<u>MaxTimeToLive</u>	The maximum amount of time a message is kept in the queue.

▣ 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

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

▣ Usage

Visual Basic

```
Dim value As Long  
value = CloudQueueMessage.MaxMessageSize
```

☐ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim value As Integer  
value = CloudQueueMessage.MaxNumberOfMessagesToPeek
```

☐ Syntax

Visual Basic

```
Public Shared ReadOnly MaxNumberOfMessagesToPeek As :
```

C#

```
public static readonly int MaxNumberOfMessagesToPeek
```

C++

```
public:  
static initonly int MaxNumberOfMessagesToPeek
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim value As TimeSpan  
value = CloudQueueMessage.MaxTimeToLive
```


☐ Syntax

Visual Basic

```
Public Shared ReadOnly MaxTimeToLive As TimeSpan
```

C#

```
public static readonly TimeSpan MaxTimeToLive
```

C++

```
public:  
static initonly TimeSpan MaxTimeToLive
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudQueueMessage Class](#)

[CloudQueueMessage Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueueMessage 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

Name	Description
CloudQueueMessage(Byte[])	Initializes a new instance of the CloudQueueMessage class with the given byte array.
CloudQueueMessage(String)	Initializes a new instance of the CloudQueueMessage class with the given string.

▣ See Also

Reference

[CloudQueueMessage Class](#)

[CloudQueueMessage Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueueMessage Constructor (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.]

Initializes a new instance of the [CloudQueueMessage](#) class with the given byte array.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
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++

```
public:  
CloudQueueMessage (  
    array<unsigned char>^ content  
)
```

J#

JScript

Parameters

content

The content of the message as a byte array.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim content As String
```

```
Dim instance As New CloudQueueMessage(content)
```

▣ Syntax

Visual Basic

```
Public Sub New ( _  
    content As String _  
)
```

C#

```
public CloudQueueMessage (  
    string content  
)
```

C++

```
public:  
CloudQueueMessage (  
    String^ content  
)
```

J#

JScript

Parameters

content

Type: [System.String](#)

The content of the message as a string of text.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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](#))**

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	SetMessageContent	Overloaded.
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ 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

Name	Description
CloudQueueMessage.SetMessageContent(Byte[])	Sets the contents of a message, in byte array format.
CloudQueueMessage.SetMessageContent(String)	Sets the contents of a message, in string format.

▣ 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)

▣ Usage

Visual Basic

```
Dim instance As CloudQueueMessage  
Dim content As Byte()  
  
instance.SetMessageContent(content)
```

▣ Syntax

Visual Basic

```
Public Sub SetMessageContent ( _  
    content As Byte() _  
)
```

C#

```
public void SetMessageContent (  
    byte[] content  
)
```

C++

```
public:  
void SetMessageContent (  
    array<unsigned char>^ content  
)
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudQueueMessage Class](#)

[CloudQueueMessage Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueueMessage.SetMessageContent 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.]

Sets the contents of a message, in string format.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudQueueMessage Class](#)

[CloudQueueMessage Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudQueueMessage 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

	Name	Description
	AsBytes	Gets the content of the message as a byte array.
	AsString	Gets the content of the message, as a string.
	DequeueCount	Gets the number of times this message has been dequeued.
	ExpirationTime	Gets the time that the message expires.
	Id	Gets the message ID.
	InsertionTime	Gets the time that the message was added to the queue.
	NextVisibleTime	Gets the time that the message will next be visible.
	PopReceipt	Gets the message's pop receipt.

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudQueueMessage  
Dim value As Byte()  
  
value = instance.AsBytes
```

▣ Syntax

Visual Basic

```
Public ReadOnly Property AsBytes As Byte()
```

C#

```
public byte[] AsBytes { get; }
```

C++

```
public:  
property array<unsigned char>^ AsBytes {  
    array<unsigned char>^ get ();  
}
```

J#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Public ReadOnly Property AsString As String
```

C#

```
public string AsString { get; }
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
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 **DequeueCount** 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudQueueMessage  
Dim value As Nullable(Of DateTime)  
  
value = instance.ExpirationTime  
  
instance.ExpirationTime = value
```

▣ Syntax

Visual Basic

```
Public Property ExpirationTime As Nullable(Of DateTime)
```

C#

```
public Nullable<DateTime> ExpirationTime { get; prot
```

C++

```
public:  
property Nullable<DateTime> ExpirationTime {  
    Nullable<DateTime> get ();  
    protected public: void set (Nullable<DateTime>  
}
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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)

▣ Usage

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; prote
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Public Property NextVisibleTime As Nullable(Of DateTime)
```

C#

```
public Nullable<DateTime> NextVisibleTime { get; pro
```

C++

```
public:  
property Nullable<DateTime> NextVisibleTime {  
    Nullable<DateTime> get ();  
    protected public: void set (Nullable<DateTime>  
}
```

J#

JScript

Property Value

Type: [System.Nullable](#)

The time that the message will next be visible.

▣ **Remarks**

The **NextVisibleTime** property is updated when a message is retrieved from the queue using [GetMessage](#) or [GetMessages](#), or by a call to [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As CloudQueueMessage  
Dim value As String  
  
value = instance.PopReceipt  
  
instance.PopReceipt = value
```

▣ Syntax

Visual Basic

```
Public Property PopReceipt As String
```

C#

```
public string PopReceipt { get; protected internal set;
```

C++

```
public:  
property String^ PopReceipt {  
    String^ get ();  
    protected public: void set (String^ value);  
}
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim value As String  
value = Me.RawString  
Me.RawString = value
```

▣ Syntax

Visual Basic

```
Protected Friend Property RawString As String
```

C#

```
protected internal string RawString { get; set; }
```

C++

```
protected public:  
property String^ RawString {  
    String^ get ();  
    void set (String^ value);  
}
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

☐ Syntax

Visual Basic

```
<ExtensionAttribute> _  
<EditorBrowsableAttribute(EditorBrowsableState.Never  
Public NotInheritable Class CloudStorageAccountCloud
```

C#

```
[ExtensionAttribute]  
[EditorBrowsableAttribute(EditorBrowsableState.Never  
public static class CloudStorageAccountCloudDriveExt
```

C++

```
[ExtensionAttribute]  
[EditorBrowsableAttribute(EditorBrowsableState::Never  
public ref class CloudStorageAccountCloudDriveExtens:
```

J#

JScript

▣ Inheritance Hierarchy

System.Object

Microsoft.WindowsAzure.StorageClient.CloudStorageAccountCloudDriv

☐ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

	Name	Description
	CreateCloudDrive	

[Top](#)

▣ See Also

Reference

[CloudStorageAccountCloudDriveExtensions Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



CloudStorageAccountCloudDriveExtensions 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

	Name	Description
	CreateCloudDrive	

▣ 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

Assembly: Microsoft.WindowsAzure.CloudDrive (in Microsoft.WindowsAzure.CloudDrive.dll)

▣ Usage

Visual Basic

```
Dim storageAccount As CloudStorageAccount  
Dim pageBlobUri As String  
Dim returnValue As CloudDrive  
  
returnValue = CloudStorageAccountCloudDriveExtension:
```


☐ Syntax

Visual Basic

```
<ExtensionAttribute> _  
Public Shared Function CreateCloudDrive ( _  
    storageAccount As CloudStorageAccount, _  
    pageBlobUri As String _  
) As CloudDrive
```

C#

```
[ExtensionAttribute]  
public static CloudDrive CreateCloudDrive (  
    CloudStorageAccount storageAccount,  
    string pageBlobUri  
)
```

C++

```
[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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudStorageAccountCloudDriveExtensions Class](#)

[CloudStorageAccountCloudDriveExtensions Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudStorageAccountStorageClientExtensions 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 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)

Usage

Visual Basic

☐ Syntax

Visual Basic

```
<ExtensionAttribute> _  
Public NotInheritable Class CloudStorageAccountStorage
```

C#

```
[ExtensionAttribute]  
public static class CloudStorageAccountStorageClient
```

C++

```
[ExtensionAttribute]  
public ref class CloudStorageAccountStorageClientExt
```

J#

JScript

▣ Inheritance Hierarchy

System.Object

Microsoft.WindowsAzure.StorageClient.CloudStorageAccountStorageCli

☐ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudStorageAccountStorageClientExtensions Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudStorageAccountStorageClientExtensions 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 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.

☐ Public Methods

	Name	Description
	CreateCloudBlobClient	Creates a new Blob service client.
	CreateCloudQueueClient	Creates a new Queue service client.
	CreateCloudTableClient	Creates the Table service client.

[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

	Name	Description
	CreateCloudBlobClient	Creates a new Blob service client.
	CreateCloudQueueClient	Creates a new Queue service client.
	CreateCloudTableClient	Creates the Table service client.

▣ See Also

Reference

[CloudStorageAccountStorageClientExtensions Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudStorageAccountStorageClientExtensions.CreateCloudBlobClient 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 new Blob 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 CloudBlobClient  
  
returnValue = CloudStorageAccountStorageClientExtens:
```

▣ Syntax

Visual Basic

```
<ExtensionAttribute> _  
Public Shared Function CreateCloudBlobClient ( _  
    account As CloudStorageAccount _  
) As CloudBlobClient
```

C#

```
[ExtensionAttribute]  
public static CloudBlobClient CreateCloudBlobClient  
    CloudStorageAccount account  
)
```

C++

```
[ExtensionAttribute]  
public:  
static CloudBlobClient^ CreateCloudBlobClient (  
    CloudStorageAccount^ account  
)
```

J#

JScript

Parameters

account

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

The storage account.

Return Value

Type: [Microsoft.WindowsAzure.StorageClient.CloudBlobClient](#)

A client object that specifies the Blob service endpoint.

■ Example

The following code example creates client objects for each of the storage services.

```
static void GetClientObjects()
{
    //Parse a connection string and return a reference
    CloudStorageAccount storageAccount = CloudStorageAccount.Parse(connectionString);

    //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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudStorageAccountStorageClientExtensions Class](#)

[CloudStorageAccountStorageClientExtensions Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

[CloudBlobClient](#)

CloudStorageAccountStorageClientExtensions.CreateCloudQueueClient 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 new Queue 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 CloudQueueClient  
  
returnValue = CloudStorageAccountStorageClientExtens:
```

▣ Syntax

Visual Basic

```
<ExtensionAttribute> _  
Public Shared Function CreateCloudQueueClient ( _  
    account As CloudStorageAccount _  
) As CloudQueueClient
```

C#

```
[ExtensionAttribute]  
public static CloudQueueClient CreateCloudQueueClient  
(  
    CloudStorageAccount account  
)
```

C++

```
[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.

■ Example

The following code example creates client objects for each of the storage services.

```
static void GetClientObjects()
{
    //Parse a connection string and return a reference
    CloudStorageAccount storageAccount = CloudStorageAccount.Parse(connectionString);

    //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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

Visual Basic

```
<ExtensionAttribute> _  
Public Shared Function CreateCloudTableClient ( _  
    account As CloudStorageAccount _  
) As CloudTableClient
```

C#

```
[ExtensionAttribute]  
public static CloudTableClient CreateCloudTableClient  
(  
    CloudStorageAccount account  
)
```

C++

```
[ExtensionAttribute]  
public:  
static CloudTableClient^ CreateCloudTableClient (  
    CloudStorageAccount^ account  
)
```

J#

JScript

Parameters

account

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

The storage account.

Return Value

Type: [Microsoft.WindowsAzure.StorageClient.CloudTableClient](#)

A client object that specifies the Table service endpoint.

■ Example

The following code example creates client objects for each of the storage services.

```
static void GetClientObjects()
{
    //Parse a connection string and return a reference
    CloudStorageAccount storageAccount = CloudStorageAccount.Parse(connectionString);

    //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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudStorageAccountStorageClientExtensions Class](#)

[CloudStorageAccountStorageClientExtensions Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

[CloudTableClient](#)

CloudTableClient 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 client for accessing the Windows Azure Table service.

Namespace: Microsoft.WindowsAzure.StorageClient

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

Usage

Visual Basic

```
Dim instance As CloudTableClient
```

☐ Syntax

Visual Basic

```
Public Class CloudTableClient
```

C#

```
public class CloudTableClient
```

C++

```
public ref class CloudTableClient
```

J#

JScript

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudTableClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



CloudTableClient 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 Table service.

The following tables list the members exposed by the [CloudTableClient](#) type.

▣ **Public Constructors**

	Name	Description
	CloudTableClient	Overloaded.

[Top](#)

▣ **Public Properties**

	Name	Description
	<u>BaseUri</u>	Gets the base URI for the Table service client.
	<u>Credentials</u>	Gets the account credentials used to create the Table service client.
	<u>MinSupportedDateTime</u>	Returns the minimum date and time value supported by the Table service.
	<u>RetryPolicy</u>	Gets or sets the default retry policy for requests made via the Table service client.
	<u>Timeout</u>	Gets or sets the default server timeout for requests made by the Table service client.

[Top](#)

☐ **Public Methods (see also [Protected Methods](#))**

	Name	Description
	Attach	Attaches to the specified service context.
	BeginCreateTable	Begins an asynchronous operation to create a table.
	BeginCreateTableIfNotExist	Begins an asynchronous operation to create a table with the specified name if it does not already exist.
	BeginDeleteTable	Begins an asynchronous operation to delete a table.
	BeginDeleteTableIfExists	Begins an asynchronous operation to delete the tables if it exists.
	BeginDoesTableExist	Begins an asynchronous operation to determine whether a table exists.
	BeginGetServiceProperties	Begins an asynchronous operation to get an account's Table service properties.
	BeginListTablesSegmented	Overloaded.
	BeginSetServiceProperties	Begins an asynchronous operation to set an account's Table service properties, including Windows Azure Storage Analytics.
	CreateTable	Creates a table with specified name.
	CreateTableIfNotExist	Creates the table if it does not already exist.
	CreateTablesFromModel	Creates tables from a data model defined in code.
	DeleteTable	Deletes the table.
	DeleteTableIfExists	Deletes the table if it exists.
	DoesTableExist	Checks whether the table exists.
	EndCreateTable	Ends an asynchronous operation to create a table.
	EndCreateTableIfNotExist	Ends an asynchronous operation to create a table with the specified name if it does not already exist.

	EndDeleteTable	Ends an asynchronous operation to delete a table.
	EndDeleteTableIfExists	Ends an asynchronous operation to delete the tables if it exists.
	EndDoesTableExist	Ends an asynchronous operation to determine whether a table exists.
	EndGetServiceProperties	Ends an asynchronous operation to get an account's Table service properties.
	EndListTablesSegmented	Ends an asynchronous operation to return a result segment containing a collection of table names.
	EndSetServiceProperties	Ends an asynchronous operation to set an account's Table service properties.
	Equals	(Inherited from Object)
	GetDataServiceContext	Returns a TableServiceContext object for performing data operations against the Table service.
	GetHashCode	(Inherited from Object)
	GetServiceProperties	Gets the properties of a storage account's Table service, including Windows Azure Storage Analytics.
	GetType	(Inherited from Object)
	ListTables	Overloaded.
	ListTablesSegmented	Overloaded.
	SetServiceProperties	Sets the properties of a storage account's Table service, including Windows Azure Storage Analytics.
	ToString	(Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

☐ Public Events

	Name	Description
	ResponseReceived	Occurs when a response is received from the server.

[Top](#)

▣ See Also

Reference

[CloudTableClient Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



CloudTableClient 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

Name	Description
CloudTableClient (String, StorageCredentials)	Initializes a new instance of the CloudTableClient class using the specified Table service endpoint as a string, and the Storage account credentials.
CloudTableClient (Uri, StorageCredentials)	Initializes a new instance of the CloudTableClient class using the specified Table service endpoint URI, and the Storage account credentials.

▣ 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

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

▣ Usage

Visual Basic

```
Dim baseAddress As String  
Dim credentials As StorageCredentials  
  
Dim instance As New CloudTableClient(baseAddress, cred
```


▣ 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.

▣ Example

The following code snippet constructs an instance of the **CloudTableClient** class.

C#

```
// Get connection string from a configuration file.
CloudStorageAccount storageAccount =
    CloudStorageAccount.Parse(
        ConfigurationManager.AppSettings["StorageAccount"]
    );
// Create service client for credentialed access to the table.
CloudTableClient tableClient =
    new CloudTableClient(
        storageAccount.TableEndpoint.ToString(),
        storageAccount.Credentials);
```

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ Usage

Visual Basic

```
Dim baseAddressUri As Uri  
Dim credentials As StorageCredentials  
  
Dim instance As New CloudTableClient(baseAddressUri,
```


▣ Syntax

Visual Basic

```
Public Sub New ( _  
    baseAddressUri As Uri, _  
    credentials As StorageCredentials _  
)
```

C#

```
public CloudTableClient (  
    Uri baseAddressUri,  
    StorageCredentials credentials  
)
```

C++

```
public:  
CloudTableClient (  
    Uri^ baseAddressUri,  
    StorageCredentials^ credentials  
)
```

J#

JScript

Parameters

baseAddressUri

credentials

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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.]

☐ **Public Methods (see also [Protected Methods](#))**

	Name	Description
	Attach	Attaches to the specified service context.
	BeginCreateTable	Begins an asynchronous operation to create a table.
	BeginCreateTableIfNotExist	Begins an asynchronous operation to create a table with the specified name if it does not already exist.
	BeginDeleteTable	Begins an asynchronous operation to delete a table.
	BeginDeleteTableIfExists	Begins an asynchronous operation to delete the tables if it exists.
	BeginDoesTableExist	Begins an asynchronous operation to determine whether a table exists.
	BeginGetServiceProperties	Begins an asynchronous operation to get an account's Table service properties.
	BeginListTablesSegmented	Overloaded.
	BeginSetServiceProperties	Begins an asynchronous operation to set an account's Table service properties, including Windows Azure Storage Analytics.
	CreateTable	Creates a table with specified name.
	CreateTableIfNotExist	Creates the table if it does not already exist.
	CreateTablesFromModel	Creates tables from a data model defined in code.
	DeleteTable	Deletes the table.
	DeleteTableIfExists	Deletes the table if it exists.
	DoesTableExist	Checks whether the table exists.
	EndCreateTable	Ends an asynchronous operation to create a table.
	EndCreateTableIfNotExist	Ends an asynchronous operation to create a table with the specified name if it does not already exist.

	EndDeleteTable	Ends an asynchronous operation to delete a table.
	EndDeleteTableIfExists	Ends an asynchronous operation to delete the tables if it exists.
	EndDoesTableExist	Ends an asynchronous operation to determine whether a table exists.
	EndGetServiceProperties	Ends an asynchronous operation to get an account's Table service properties.
	EndListTablesSegmented	Ends an asynchronous operation to return a result segment containing a collection of table names.
	EndSetServiceProperties	Ends an asynchronous operation to set an account's Table service properties.
	Equals	(Inherited from Object)
	GetDataServiceContext	Returns a TableServiceContext object for performing data operations against the Table service.
	GetHashCode	(Inherited from Object)
	GetServiceProperties	Gets the properties of a storage account's Table service, including Windows Azure Storage Analytics.
	GetType	(Inherited from Object)
	ListTables	Overloaded.
	ListTablesSegmented	Overloaded.
	SetServiceProperties	Sets the properties of a storage account's Table service, including Windows Azure Storage Analytics.
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudTableClient  
Dim serviceContext As DataServiceContext  
  
instance.Attach(serviceContext)
```

▣ Syntax

Visual Basic

```
Public Sub Attach ( _  
    serviceContext As DataServiceContext _  
)
```

C#

```
public void Attach (  
    DataServiceContext serviceContext  
)
```

C++

```
public:  
void Attach (  
    DataServiceContext^ serviceContext  
)
```

J#

JScript

Parameters

serviceContext

Type: [System.Data.Services.Client.DataServiceContext](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudTableClient Class](#)

[CloudTableClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudTableClient.BeginCreateTable 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.

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.BeginCreateTable(tableName, c
```

▣ Syntax

Visual Basic

```
Public Function BeginCreateTable ( _  
    tableName As String, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginCreateTable (   
    string tableName,   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
public:   
IAsyncResult^ BeginCreateTable (   
    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, and handles the error if the table already exists.

C#

```
static void CreateTableAsync(CloudStorageAccount sto
{
    // 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", Create

}

public static void CreateTableAsyncCallback(IAsyncRe
{
    CloudTableClient tableClient = (CloudTableClient

    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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.BeginCreateTableIfNotExist(tal
```

▣ 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#

```
static void CreateTableIfNotExistsAsync(CloudStorageAccount storageAccount)
{
    // Create service client for credentialed access to the table.
    CloudTableClient tableClient =
        new CloudTableClient(
            storageAccount.TableEndpoint.ToString(),
            storageAccount.Credentials);

    // Begin the operation to create a new table.
    tableClient.BeginCreateTableIfNotExist(
        "Categories", CreateTableIfNotExistsAsyncCallback, null);
}

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudTableClient Class](#)

[CloudTableClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudTableClient.BeginDeleteTable 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 a 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  
Dim callback As AsyncCallback  
Dim state As Object  
Dim returnValue As IAsyncResult  
  
returnValue = instance.BeginDeleteTable(tableName, c
```

▣ Syntax

Visual Basic

```
Public Function BeginDeleteTable ( _  
    tableName As String, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginDeleteTable (   
    string tableName,   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
public:   
IAsyncResult^ BeginDeleteTable (   
    String^ tableName,   
    AsyncCallback^ callback,   
    Object^ state   
)
```

J#

JSscript

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.

▣ Example

The following code example deletes a table asynchronously.

C#

```
public static void DeleteTableAsync(CloudStorageAccount storageAccount)
{
    // Create service client for credentialed access to the storage account.
    CloudTableClient tableClient =
        new CloudTableClient(
            storageAccount.TableEndpoint.ToString(),
            storageAccount.Credentials);

    tableClient.BeginDeleteTable(
        "Categories", DeleteTableAsyncCallback, tableClient);
}

public static void DeleteTableAsyncCallback(IAsyncResult asyncResult)
{
    CloudTableClient tableClient = (CloudTableClient)asyncResult.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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudTableClient Class](#)

[CloudTableClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudTableClient.BeginDeleteTableIfExist 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, callback, state, null)
```

▣ Syntax

Visual Basic

```
Public Function BeginDeleteTableIfExist ( _  
    tableName As String, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginDeleteTableIfExist (   
    string tableName,   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
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.

▣ Example

The following code example deletes a table asynchronously if it exists.

C#

```
public static void DeleteTableIfExistsAsync(CloudStorageAccount storageAccount)
{
    // Create service client for credentialed access
    CloudTableClient tableClient = new CloudTableClient(
        storageAccount.TableEndpoint.ToString(),
        storageAccount.Credentials);

    tableClient.BeginDeleteTableIfExists(
        "Categories", DeleteTableIfExistsAsyncCallback,
        System.Threading.Thread.Sleep(5000); // wait, then
}

public static void DeleteTableIfExistsAsyncCallback(IAsyncResult asyncResult)
{
    CloudTableClient tableClient = (CloudTableClient)
        asyncResult.AsyncState;

    // End the operation.
    if (tableClient.EndDeleteTableIfExists(result))
        Console.WriteLine("Table deleted.");
    else
        Console.WriteLine("Table doesn't exist; could not delete.");
}
```

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudTableClient Class](#)

[CloudTableClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudTableClient.BeginDoesTableExist 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 determine whether a table 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.BeginDoesTableExist(tableName,
```

▣ Syntax

Visual Basic

```
Public Function BeginDoesTableExist ( _  
    tableName As String, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginDoesTableExist (   
    string tableName,   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
public:   
IAsyncResult^ BeginDoesTableExist (   
    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 checks whether a table exists asynchronously.

C#

```
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,
        null);
}

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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(cal.
```

▣ Syntax

Visual Basic

```
Public Function BeginGetServiceProperties ( _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginGetServiceProperties (  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Name	Description
CloudTableClient.BeginListTablesSegmented (AsyncCallback, Object)	Begins an asynchronous operation to return a result segment containing a collection of table names in the storage account.
CloudTableClient.BeginListTablesSegmented (String, AsyncCallback, Object)	Begins an asynchronous operation to return a result segment containing a collection of table names beginning with the specified prefix.
CloudTableClient.BeginListTablesSegmented (String, Int32, ResultContinuation, AsyncCallback, Object)	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.

▣ See Also

Reference

[CloudTableClient Class](#)

[CloudTableClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudTableClient.BeginListTablesSegmented 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 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

```
Dim instance As CloudTableClient  
Dim callback As AsyncCallback  
Dim state As Object  
Dim returnValue As IAsyncResult  
  
returnValue = instance.BeginListTablesSegmented(calll
```

▣ Syntax

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.

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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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)

▣ Usage

Visual Basic

```
Dim instance As CloudTableClient  
Dim prefix As String  
Dim callback As AsyncCallback  
Dim state As Object  
Dim returnValue As IAsyncResult  
  
returnValue = instance.BeginListTablesSegmented(pref:
```

▣ Syntax

Visual Basic

```
Public Function BeginListTablesSegmented ( _  
    prefix As String, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginListTablesSegmented (  
    string prefix,  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudTableClient Class](#)

[CloudTableClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudTableClient.BeginListTablesSegmented Method (String, Int32, 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 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)

▣ Usage

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(pref:
```

▣ 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#

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.

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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)

▣ Usage

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(prop
```

▣ Syntax

Visual Basic

```
Public Function BeginSetServiceProperties ( _  
    properties As ServiceProperties, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAAsyncResult
```

C#

```
public IAAsyncResult BeginSetServiceProperties (   
    ServiceProperties properties,   
    AsyncCallback callback,   
    Object state   
)
```

C++

```
public:   
IAAsyncResult^ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudTableClient Class](#)

[CloudTableClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudTableClient.CreateTable 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 table with specified name.

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.CreateTable(tableName)
```

▣ Syntax

Visual Basic

```
Public Sub CreateTable ( _  
    tableName As String _  
)
```

C#

```
public void CreateTable (  
    string tableName  
)
```

C++

```
public:  
void CreateTable (  
    String^ tableName  
)
```

J#

JScript

Parameters

tableName

Type: [System.String](#)

The table name.

▣ Example

The following code example creates a table and inserts an entity to it.

C#

```
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["StorageConnectionString"]);
            CreateTableAndAddData(storageAccount);
        }
        static void CreateTableAndAddData(CloudStorageAccount storageAccount)
        {
            // Create service client for credentials.
            CloudTableClient tableClient = new CloudTableClient(storageAccount.Credentials);
            string tableName = "Products";
            try
            {
                // Create a new table.
                tableClient.CreateTable(tableName);
                // Get data context.
                TableServiceContext context = tableClient.GetTableServiceContext();
                // Create the new entity.
                ProductEntity entity = new ProductEntity();
                // Populate the entity's properties.
                entity.ProductName = "Gadget";
            }
            catch { }
        }
    }
}
```

```

        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 information: {0}",
            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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudTableClient Class](#)

[CloudTableClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudTableClient.CreateTableIfNotExist 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 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

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.

C#

```
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
            CloudStorageAccount storageAccount =
                CloudStorageAccount.Parse(
                    ConfigurationManager.AppSettings[
                        "StorageConnectionString"]
                );
            CreateTableAndAddData(storageAccount);
        }
        static void CreateTableAndAddData(CloudStorageAccount storageAccount)
        {
            // Create service client for credentials
            CloudTableClient tableClient = new CloudTableClient(
                storageAccount.Credentials);
            string tableName = "Products";
            try
            {
                // Create a new table.
                tableClient.CreateTableIfNotExist(tableName);
                // Get data context.
                TableServiceContext context = tableClient.GetTableServiceContext();
                // Create the new entity.
                ProductEntity entity = new ProductEntity();
            }
            catch { }
        }
    }
}
```

```

        // 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 information: {0}",
            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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ Usage

Visual Basic

```
Dim serviceContextType As Type  
Dim baseAddress As String  
Dim credentials As StorageCredentials  
  
CloudTableClient.CreateTablesFromModel(serviceContextType, baseAddress, credentials)
```

▣ Syntax

Visual Basic

```
Public Shared Sub CreateTableFromModel ( _  
    serviceContextType As Type, _  
    baseAddress As String, _  
    credentials As StorageCredentials _  
)
```

C#

```
public static void CreateTableFromModel (  
    Type serviceContextType,  
    string baseAddress,  
    StorageCredentials credentials  
)
```

C++

```
public:  
static void CreateTableFromModel (  
    Type^ serviceContextType,  
    String^ baseAddress,  
    StorageCredentials^ credentials  
)
```

J#

JSscript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudTableClient Class](#)

[CloudTableClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudTableClient.DeleteTable 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.

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.

Example

The following code example attempts to delete a table and handles the error if it does not exist.

C#

```
public static void DeleteTable(CloudStorageAccount storageAccount)
{
    // Create service client for credentialed access to the storage account
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

```
Public Function DeleteTableIfExist ( _  
    tableName As String _  
) As Boolean
```

C#

```
public bool DeleteTableIfExist (  
    string tableName  
)
```

C++

```
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.

C#

```
public static void DeleteTableIfItExists(CloudStorageAccount storageAccount)
{
    // Create service client for credentialed access
    CloudTableClient tableClient = new CloudTableClient(storageAccount.Credentials);
    if (tableClient.DeleteTableIfExist("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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

Visual Basic

```
Dim instance As CloudTableClient  
Dim tableName As String  
Dim returnValue As Boolean  
  
returnValue = instance.DoesTableExist(tableName)
```

▣ Syntax

Visual Basic

```
Public Function DoesTableExist ( _  
    tableName As String _  
) As Boolean
```

C#

```
public bool DoesTableExist (  
    string tableName  
)
```

C++

```
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.

C#

```
public static void CheckTableExistence(CloudStorageAccount storageAccount)
{
    // Create service client for credentialed access
    CloudTableClient tableClient = new CloudTableClient(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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudTableClient Class](#)

[CloudTableClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudTableClient.EndCreateTable 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.

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.

C#

```
static void CreateTableAsync(CloudStorageAccount stor
{
    // Create service client for credentialed access
    CloudTableClient tableClient = new CloudTableCli
        storageAccount.Credentials);

    // Begin the operation to create a new table.
    tableClient.BeginCreateTable("Customers", Create

}

public static void CreateTableAsyncCallback(IAsyncRe
{
    CloudTableClient tableClient = (CloudTableClient

    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)
    }
}
```


☐ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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

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

▣ Usage

Visual Basic

```
Dim instance As CloudTableClient  
Dim asyncResult As IAsyncResult  
Dim returnValue As Boolean  
  
returnValue = instance.EndCreateTableIfNotExist(asyncResult)
```

▣ Syntax

Visual Basic

```
Public Function EndCreateTableIfNotExist ( _  
    asyncResult As IAsyncResult _  
) As Boolean
```

C#

```
public bool EndCreateTableIfNotExist (  
    IAsyncResult asyncResult  
)
```

C++

```
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`.

▣ Example

The following code example creates a table asynchronously if it does not exist.

```
static void CreateTableIfNotExistsAsync(CloudStorageAccount storageAccount)
{
    // Create service client for credentialed access
    CloudTableClient tableClient = new CloudTableClient(storageAccount.Credentials);

    // Begin the operation to create a new table.
    tableClient.BeginCreateTableIfNotExist("Categories");
}

public static void CreateTableIfNotExistsAsyncCallback(CloudTableClient tableClient,
    AsyncCallback callback, object state)
{
    // 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudTableClient Class](#)

[CloudTableClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudTableClient.EndDeleteTable 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 delete 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.EndDeleteTable(asyncResult)
```

▣ Syntax

Visual Basic

```
Public Sub EndDeleteTable ( _  
    asyncResult As IAsyncResult _  
)
```

C#

```
public void EndDeleteTable (  
    IAsyncResult asyncResult  
)
```

C++

```
public:  
void EndDeleteTable (  
    IAsyncResult^ asyncResult  
)
```

J#

JScript

Parameters

asyncResult

Type: [System.IAsyncResult](#)

An **IAsyncResult** that references the pending asynchronous operation.

▣ Example

The following code example deletes a table asynchronously.

```
public static void DeleteTableAsync(CloudStorageAccount storageAccount)
{
    // Create service client for credentialed access
    CloudTableClient tableClient = new CloudTableClient(
        storageAccount.Credentials);

    tableClient.BeginDeleteTable("Categories", DeleteTableAsyncCallback, null);
}

public static void DeleteTableAsyncCallback(IAsyncResult asyncResult)
{
    CloudTableClient tableClient = (CloudTableClient) asyncResult.AsyncState;

    try
    {
        // End the operation.
        tableClient.EndDeleteTable(asyncResult);
    }
    catch (StorageClientException e)
    {
        Console.WriteLine("Error: {0}", e.Message);
        Console.WriteLine("Extended error info: {0}",
            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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudTableClient Class](#)

[CloudTableClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudTableClient.EndDeleteTableIfExist 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 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 asyncResult As IAsyncResult  
Dim returnValue As Boolean  
  
returnValue = instance.EndDeleteTableIfExist(asyncRe:
```

▣ Syntax

Visual Basic

```
Public Function EndDeleteTableIfExist ( _  
    asyncResult As IAsyncResult _  
) As Boolean
```

C#

```
public bool EndDeleteTableIfExist (  
    IAsyncResult asyncResult  
)
```

C++

```
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.

```
public static void DeleteTableIfExistsAsync(CloudStorageAccount storageAccount)
{
    // Create service client for credentialed access
    CloudTableClient tableClient = new CloudTableClient(storageAccount.TableEndpoint.ToString(),
        storageAccount.Credentials);

    tableClient.BeginDeleteTableIfExists(
        "Categories", DeleteTableIfExistsAsyncCallback, null);
    System.Threading.Thread.Sleep(5000); // wait, the operation is asynchronous
}

public static void DeleteTableIfExistsAsyncCallback(IAsyncResult asyncResult)
{
    CloudTableClient tableClient = (CloudTableClient)asyncResult.AsyncState;

    // End the operation.
    if (tableClient.EndDeleteTableIfExists(result))
        Console.WriteLine("Table deleted.");
    else
        Console.WriteLine("Table doesn't exist; could not delete.");
}
```

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudTableClient Class](#)

[CloudTableClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudTableClient.EndDoesTableExist 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 determine whether a table exists.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
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.

C#

```
public static void CheckTableExistenceAsync(CloudStorageAccount storageAccount)
{
    // Create service client for credentialed access
    CloudTableClient tableClient = new CloudTableClient(storageAccount.Credentials);

    tableClient.BeginDoesTableExist("Products", CheckTableExistenceAsyncCallback, null);
}

public static void CheckTableExistenceAsyncCallback(IAsyncResult asyncResult)
{
    CloudTableClient tableClient = (CloudTableClient)asyncResult.AsyncState;

    if (tableClient.EndDoesTableExist(asyncResult))
    {
        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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudTableClient Class](#)

[CloudTableClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudTableClient.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 Table service properties.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudTableClient  
Dim asyncResult As IAsyncResult  
Dim returnValue As ServiceProperties  
  
returnValue = instance.EndGetServiceProperties(asyncI
```

▣ 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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudTableClient  
Dim asyncResult As IAsyncResult  
Dim returnValue As ResultSegment(Of String)  
  
returnValue = instance.EndListTablesSegmented(asyncR
```


▣ Syntax

Visual Basic

```
Public Function EndListTablesSegmented ( _  
    asyncResult As IAsyncResult _  
) As ResultSegment(Of String)
```

C#

```
public ResultSegment<string> EndListTablesSegmented  
    IAsyncResult asyncResult  
)
```

C++

```
public:  
ResultSegment<String^>^ EndListTablesSegmented (  
    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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Visual Basic

```
Dim instance As CloudTableClient  
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudTableClient Class](#)

[CloudTableClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudTableClient.GetDataServiceContext 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 [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

```
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

Type: [Microsoft.WindowsAzure.StorageClient.TableServiceContext](#)

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 account)
{
    // Create service client for credentialed access
    CloudTableClient tableClient = new CloudTableClient(
        account.Credentials);
    // Get the context.
    TableServiceContext context = tableClient.GetDataServiceContext();
    // Get the first entity from the table.
    ProductEntity entity = context.CreateQuery<ProductEntity>().FirstOrDefault();
    // 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudTableClient Class](#)

[CloudTableClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudTableClient.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 Table service, including Windows Azure Storage Analytics.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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.]

☐ Overload List

Name	Description
CloudTableClient.ListTables()	Returns an enumerable collection of table names for the storage account.
CloudTableClient.ListTables(String)	Returns an enumerable collection of table names that begin with the specified prefix.

▣ See Also

Reference

[CloudTableClient Class](#)

[CloudTableClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudTableClient.ListTables 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 table names for the storage account.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudTableClient  
Dim returnValue As IEnumerable(Of String)  
  
returnValue = instance.ListTables
```

▣ Syntax

Visual Basic

```
Public Function ListTables As IEnumerable(Of String)
```

C#

```
public IEnumerable<string> ListTables ()
```

C++

```
public:  
IEnumerable<String^>^ ListTables ()
```

J#

JScript

Return Value

Type: System.Collections.Generic.IEnumerable

An enumerable collection of table names.

▣ Example

The following code example lists all tables in the storage account.

C#

```
public static void ListAllTables(CloudStorageAccount
{
    // Create service client for credentialed access
    CloudTableClient tableClient = new CloudTableClient(
        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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudTableClient Class](#)

[CloudTableClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudTableClient.ListTables 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 table names that begin with the specified prefix.

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 returnValue As IEnumerable(Of String)  
  
returnValue = instance.ListTables(prefix)
```

▣ Syntax

Visual Basic

```
Public Function ListTables ( _  
    prefix As String _  
) As IEnumerable(Of String)
```

C#

```
public IEnumerable<string> ListTables (  
    string prefix  
)
```

C++

```
public:  
IEnumerable<String^> ListTables (  
    String^ prefix  
)
```

J#

JScript

Parameters

prefix

Type: [System.String](#)

The table name prefix.

Return Value

Type: [System.Collections.Generic.IEnumerable](#)

An enumerable collection of table names.

Example

The following code example lists tables in the storage account that begin with the specified prefix.

C#

```
public static void ListTablesByPrefix(CloudStorageAccount storageAccount, string prefix)
{
    // Create service client for credentialed access
    CloudTableClient tableClient = new CloudTableClient(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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudTableClient Class](#)

[CloudTableClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudTableClient.ListTablesSegmented 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

Name	Description
CloudTableClient.ListTablesSegmented()	Returns a result segment containing a collection of table names in the storage account.
CloudTableClient.ListTablesSegmented(Int32, ResultContinuation)	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.
CloudTableClient.ListTablesSegmented(String, Int32, ResultContinuation)	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.

▣ See Also

Reference

[CloudTableClient Class](#)

[CloudTableClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudTableClient.ListTablesSegmented 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 table names in the storage account.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudTableClient  
Dim returnValue As ResultSegment(Of String)  
  
returnValue = instance.ListTablesSegmented
```

Syntax

Visual Basic

```
Public Function ListTablesSegmented As ResultSegment
```

C#

```
public ResultSegment<string> ListTablesSegmented ()
```

C++

```
public:  
ResultSegment<String^>^ ListTablesSegmented ()
```

J#

JScript

Return Value

Type: Microsoft.WindowsAzure.StorageClient.ResultSegment

A result segment containing table names.

▣ Example

The following code example lists tables in segments.

```
public static void ListTablesInSegments(CloudStorageAccount storageAccount)
{
    // Create service client for credentialed access
    CloudTableClient tableClient = new CloudTableClient(storageAccount.Credentials);

    //Return a result segment of table names.
    ResultSegment<String> resultSegment = tableClient.GetTableNamesSegment(0, 10);

    //Print table names to the console.
    WriteTableNames(resultSegment);

    //Check HasMoreResults to determine whether the segment contains more results.
    if (resultSegment.HasMoreResults)
    {
        resultSegment.GetNext();

        //Print table names to the console.
        WriteTableNames(resultSegment);
    }

    //After the page is complete, check the continuation token for 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.Result)
    {
        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**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ 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

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

▣ Usage

Visual Basic

```
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

```
Public Function ListTablesSegmented ( _  
    maxResults As Integer, _  
    continuationToken As ResultContinuation _  
) As ResultSegment(Of String)
```

C#

```
public ResultSegment<string> ListTablesSegmented (  
    int maxResults,  
    ResultContinuation continuationToken  
)
```

C++

```
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.

```
public static void ListTablesInPages(CloudStorageAccount storageAccount)
{
    // Create service client for credentialed access
    CloudTableClient tableClient = new CloudTableClient(storageAccount.Credentials);

    //Return a result segment of table names.
    ResultSegment<String> resultSegment = tableClient.ListTables();

    //Print table names to the console.
    WriteTableNames(resultSegment);

    //Check HasMoreResults to determine whether the listing is complete.
    if (resultSegment.HasMoreResults)
    {
        resultSegment.GetNext();

        //Print table names to the console.
        WriteTableNames(resultSegment);
    }

    //After the page is complete, check the continuation token for 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudTableClient Class](#)

[CloudTableClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudTableClient.ListTablesSegmented 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 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, m
```

▣ Syntax

Visual Basic

```
Public Function ListTablesSegmented ( _  
    prefix As String, _  
    maxResults As Integer, _  
    continuationToken As ResultContinuation _  
) As ResultSegment(Of String)
```

C#

```
public ResultSegment<string> ListTablesSegmented (  
    string prefix,  
    int maxResults,  
    ResultContinuation continuationToken  
)
```

C++

```
public:  
ResultSegment<String^>^ ListTablesSegmented (  
    String^ prefix,  
    int maxResults,  
    ResultContinuation^ continuationToken  
)
```

J#

JSscript

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.

▣ Example

The following code example lists table names in pages of five. The continuation token will be non-null until the listing is complete.

```
public static void ListTablesInPagesWithPrefix(CloudStorageAccount storageAccount)
{
    // Create service client for credentialed access
    CloudTableClient tableClient = new CloudTableClient(storageAccount.Credentials);

    //Return a result segment of table names.
    ResultSegment<String> resultSegment = tableClient.ListTables("");

    //Print table names to the console.
    WriteTableNames(resultSegment);

    //Check HasMoreResults to determine whether the listing is complete.
    if (resultSegment.HasMoreResults)
    {
        resultSegment.GetNext();

        //Print table names to the console.
        WriteTableNames(resultSegment);
    }

    //After the page is complete, check the continuation token for 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ 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

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

▣ 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.

▣ Example

The following snippet enables all logging and metrics for table activities in the storage account with a 7 day retention period.

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudTableClient Class](#)

[CloudTableClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

[ServiceProperties](#)

Other Resources

[Storage Analytics Overview](#)

CloudTableClient 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

	Name	Description
	BaseUri	Gets the base URI for the Table service client.
	Credentials	Gets the account credentials used to create the Table service client.
	MinSupportedDateTime	Returns the minimum date and time value supported by the Table service.
	RetryPolicy	Gets or sets the default retry policy for requests made via the Table service client.
	Timeout	Gets or sets the default server timeout for requests made by the Table service client.

▣ See Also

Reference

[CloudTableClient Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



CloudTableClient.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 Table service client.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

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](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudTableClient  
Dim value As StorageCredentials  
  
value = instance.Credentials
```

▣ Syntax

Visual Basic

Public Property Credentials As **StorageCredentials**

C#

```
public StorageCredentials Credentials { get; }
```

C++

```
public:  
property StorageCredentials^ Credentials {  
    StorageCredentials^ get ();  
}
```

J#

JScript

Property Value

Type: [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudTableClient Class](#)

[CloudTableClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudTableClient.MinSupportedDateTime 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.]

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

Visual Basic

```
Public ReadOnly Property MinSupportedDateTime As Date
```

C#

```
public DateTime MinSupportedDateTime { get; }
```

C++

```
public:  
property DateTime MinSupportedDateTime {  
    DateTime get ();  
}
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudTableClient Class](#)

[CloudTableClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudTableClient.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 Table service client.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As CloudTableClient  
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.

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudTableClient  
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](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudTableClient Class](#)

[CloudTableClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudTableClient 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

	Name	Description
	ResponseReceived	Occurs when a response is received from the server.

▣ See Also

Reference

[CloudTableClient Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



CloudTableClient.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

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

▣ Usage

Visual Basic

```
Dim instance As CloudTableClient  
Dim handler As EventHandler(Of ResponseReceivedEvent,  
  
AddHandler instance.ResponseReceived, handler
```

▣ Syntax

Visual Basic

```
Public Event ResponseReceived As EventHandler(Of Res
```

C#

```
public event EventHandler<ResponseReceivedEventArgs>
```

C++

```
public:  
event EventHandler<ResponseReceivedEventArgs>^ Respo  
    void add (EventHandler<ResponseReceivedEvent  
    void remove (EventHandler<ResponseReceivedEv  
}
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudTableClient Class](#)

[CloudTableClient Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudTableQuery 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.]

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

Visual Basic

```
Public Class CloudTableQuery(Of TElement)  
    Implements IQueryable(Of TElement), IEnumerable  
        TElement, _  
        IQueryable, IEnumerable
```

C#

```
public class CloudTableQuery<TElement> : IQueryable<  
    IQueryable, IEnumerable
```

C++

```
generic<typename TElement>  
public ref class CloudTableQuery : IQueryable<TElement>  
    IQueryable, IEnumerable
```

J#

JSscript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudTableQuery Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



CloudTableQuery Members

[See Also](#) [Constructors](#) [Methods](#) [Properties](#) [Explicit Interface Implementations](#)



[This 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**

	Name	Description
	CloudTableQuery	Overloaded.

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☐ Public Properties

	Name	Description
	ElementType	Gets the type of the element(s) that are returned when the expression tree associated with this instance of IQueryable is executed.
	Expression	Gets the expression tree that is associated with the instance of IQueryable .
	Provider	Gets the query provider that is associated with this data source.
	RetryPolicy	Gets or sets the retry policy for the query.

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	BeginExecuteSegmented	Overloaded.
	EndExecuteSegmented	Ends an asynchronous operation to execute a query and return the results as a result segment.
	Equals	(Inherited from Object)
	Execute	Overloaded.
	Expand	Expands the specified path.
	GetEnumerator	Returns an enumerator that iterates through the collection.
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	Overridden. Returns a String that represents this instance.

[Top](#)

☐ **Protected Methods (see also [Extension Methods](#))**

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ Extension Methods

	Name	Description
	AsTableServiceQuery	Converts a query of type DataServiceQuery to a CloudTableQuery object that handles continuation tokens and retries failed calls to the Table service. (Defined by TableServiceExtensionMethods .)

[Top](#)

▣ Explicit Interface Implementations

Name	Description
GetEnumerator	Returns an enumerator that can be used to iterate through a collection.

[Top](#)

▣ 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

Name	Description
CloudTableQuery (DataServiceQuery)	Initializes a new instance of the CloudTableQuery class with the specified query.
CloudTableQuery (DataServiceQuery, RetryPolicy)	Initializes a new instance of the CloudTableQuery class with the specified query and retry policy.

▣ 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

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

▣ Usage

Visual Basic

```
Dim query As DataServiceQuery(Of TElement)
```

```
Dim instance As New CloudTableQuery(Of TElement)(que
```

▣ Syntax

Visual Basic

```
Public Sub New ( _  
    query As DataServiceQuery(Of TElement) _  
)
```

C#

```
public CloudTableQuery (  
    DataServiceQuery<TElement> query  
)
```

C++

```
public:  
CloudTableQuery (  
    DataServiceQuery<TElement>^ query  
)
```

J#

JScript

Parameters

query

Type: [System.Data.Services.Client.DataServiceQuery](#)

The base query.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim query As DataServiceQuery(Of TElement)
Dim policy As RetryPolicy

Dim instance As New CloudTableQuery(Of TElement)(query, policy)
```

▣ Syntax

Visual Basic

```
Public Sub New ( _  
    query As DataServiceQuery(Of TElement), _  
    policy As RetryPolicy _  
)
```

C#

```
public CloudTableQuery (  
    DataServiceQuery<TElement> query,  
    RetryPolicy policy  
)
```

C++

```
public:  
CloudTableQuery (  
    DataServiceQuery<TElement>^ query,  
    RetryPolicy^ policy  
)
```

J#

JScript

Parameters

query

Type: [System.Data.Services.Client.DataServiceQuery](#)

The base query.

policy

Type: [Microsoft.WindowsAzure.StorageClient.RetryPolicy](#)

The retry policy for the query.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudTableQuery Class](#)

[CloudTableQuery Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudTableQuery 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](#))**

	Name	Description
	BeginExecuteSegmented	Overloaded.
	EndExecuteSegmented	Ends an asynchronous operation to execute a query and return the results as a result segment.
	Equals	(Inherited from Object)
	Execute	Overloaded.
	Expand	Expands the specified path.
	GetEnumerator	Returns an enumerator that iterates through the collection.
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	Overridden. Returns a String that represents this instance.

☐ **Protected Methods (see also [Extension Methods](#))**

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ Extension Methods

	Name	Description
	AsTableServiceQuery	Converts a query of type DataServiceQuery to a CloudTableQuery object that handles continuation tokens and retries failed calls to the Table service. (Defined by TableServiceExtensionMethods .)

▣ Explicit Interface Implementations

Name	Description
GetEnumerator	Returns an enumerator that can be used to iterate through a collection.

▣ 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

Name	Description
CloudTableQuery.BeginExecuteSegmented (ResultContinuation, AsyncCallback, Object)	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.
CloudTableQuery.BeginExecuteSegmented (AsyncCallback, Object)	Begins an asynchronous operation to execute a query and return the results as a result segment.

▣ 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

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

▣ Usage

Visual Basic

```
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, callback, state, null)
```

▣ 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](#)

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.

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Visual Basic

```
Dim instance As CloudTableQuery(Of TElement)
Dim callback As AsyncCallback
Dim state As Object
Dim returnValue As IAsyncResult

returnValue = instance.BeginExecuteSegmented(callback)
```

▣ Syntax

Visual Basic

```
Public Function BeginExecuteSegmented ( _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginExecuteSegmented (  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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(asyncResult)
```


▣ Syntax

Visual Basic

```
Public Function EndExecuteSegmented ( _  
    asyncResult As IAsyncResult _  
) As ResultSegment(Of TElement)
```

C#

```
public ResultSegment<TElement> EndExecuteSegmented (   
    IAsyncResult asyncResult  
)
```

C++

```
public:  
ResultSegment<TElement>^ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CloudTableQuery Class](#)

[CloudTableQuery Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudTableQuery.Execute 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

Name	Description
CloudTableQuery.Execute()	Executes the query with the retry policy specified on the CloudTableQuery object.
CloudTableQuery.Execute(ResultContinuation)	Executes the query with the retry policy specified on the CloudTableQuery object, and with a continuation token from the previous listing operation.

▣ See Also

Reference

[CloudTableQuery Class](#)

[CloudTableQuery Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudTableQuery.Execute 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.]

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

Visual Basic

```
Public Function Execute As IEnumerable(Of TElement)
```

C#

```
public IEnumerable<TElement> Execute ()
```

C++

```
public:  
IEnumerable<TElement>^ Execute ()
```

J#

JScript

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 account)
{
    // Create the service context.
    TableServiceContext context = new TableServiceContext(account.Credentials);

    // Execute the query and write out some data.
    foreach (var entity in context.CreateQuery<ProductEntity>().ToList())
    {
        Console.WriteLine("Product name: {0} Price: {0}", entity.ProductName, entity.Price);
    }
    Console.WriteLine();

    // Execute the query with criteria that simulates a real-world query.
    foreach (var entity in context.CreateQuery<ProductEntity>().Where(e => (e.ProductName.CompareTo("J") >= 0).AsTableServiceQuery<ProductEntity>().Execute().ToList())
    {
        Console.WriteLine("Product name: {0} Price: {0}", entity.ProductName, entity.Price);
    }
}

// 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[CloudTableQuery Class](#)

[CloudTableQuery Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

CloudTableQuery.Execute Method (ResultContinuation)

[See Also](#)



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

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

```
Dim instance As CloudTableQuery(Of TElement)  
Dim continuationToken As ResultContinuation  
Dim returnValue As IEnumerable(Of TElement)  
  
returnValue = instance.Execute(continuationToken)
```

▣ Syntax

Visual Basic

```
Public Function Execute ( _  
    continuationToken As ResultContinuation _  
) As IEnumerable(Of TElement)
```

C#

```
public IEnumerable<TElement> Execute (  
    ResultContinuation continuationToken  
)
```

C++

```
public:  
IEnumerable<TElement>^ Execute (  
    ResultContinuation^ continuationToken  
)
```

J#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
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#

```
public CloudTableQuery<TElement> Expand (  
    string path  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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)

▣ Usage

Visual Basic

```
Dim instance As CloudTableQuery(Of TElement)  
Dim returnValue As IEnumerator(Of TElement)  
  
returnValue = instance.GetEnumerator
```

▣ Syntax

Visual Basic

```
Public Function GetEnumerator As IEnumerator(Of TElem
```

C#

```
public IEnumerator<TElement> GetEnumerator ()
```

C++

```
public:  
virtual IEnumerator<TElement>^ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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 IEnumerator

returnValue = CType(instance, IEnumerable).GetEnumerator()
```

▣ Syntax

Visual Basic

```
Private Function System.Collections.IEnumerable.GetE
```

C#

```
IEnumerator IEnumerable.GetEnumerator ()
```

C++

```
private:  
virtual IEnumerator^ System.Collections.IEnumerable.(
```

J#

JScript

Return Value

Type: [System.Collections.IEnumerator](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Visual Basic

```
Public Overrides Function ToString As String
```

C#

```
public override string ToString ()
```

C++

```
public:  
virtual String^ ToString () override
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

	Name	Description
	ElementType	Gets the type of the element(s) that are returned when the expression tree associated with this instance of IQueryable is executed.
	Expression	Gets the expression tree that is associated with the instance of IQueryable .
	Provider	Gets the query provider that is associated with this data source.
	RetryPolicy	Gets or sets the retry policy for the query.

▣ See Also

Reference

[CloudTableQuery Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



CloudTableQuery.ElementType 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 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

```
Dim instance As CloudTableQuery(Of TElement)  
Dim value As Type  
  
value = instance.ElementType
```


▣ Syntax

Visual Basic

```
Public ReadOnly Property ElementType As Type
```

C#

```
public Type ElementType { get; }
```

C++

```
public:  
virtual property Type^ ElementType {  
    Type^ get () sealed;  
}
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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 **IQueryable**.

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 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](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Visual Basic

```
Public ReadOnly Property Provider As IQueryProvider
```

C#

```
public IQueryProvider Provider { get; }
```

C++

```
public:  
virtual property IQueryProvider^ Provider {  
    IQueryProvider^ get () sealed;  
}
```

J#

JScript

Property Value

Type: [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As CloudTableQuery(Of TElement)  
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.

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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)

Usage

Visual Basic

```
Dim instance As ContainerListingDetails
```

▣ Syntax

Visual Basic

```
<FlagsAttribute> _  
Public Enumeration ContainerListingDetails
```

C#

```
[FlagsAttribute]  
public enum ContainerListingDetails
```

C++

```
[FlagsAttribute]  
public enum class ContainerListingDetails
```

J#

JScript

▣ Members

Member name	Description
All	Include all available details.
Metadata	Retrieve container metadata.
None	No additional details.

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[Microsoft.WindowsAzure.StorageClient Namespace](#)

DeleteSnapshotsOption 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 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

Visual Basic

```
Public Enumeration DeleteSnapshotsOption
```

C#

```
public enum DeleteSnapshotsOption
```

C++

```
public enum class DeleteSnapshotsOption
```

J#

JScript

▣ Members

Member name	Description
DeleteSnapshotsOnly	Delete the blob's snapshots only.
IncludeSnapshots	Delete the blob and its snapshots.
None	Delete blobs but not snapshots.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[Microsoft.WindowsAzure.StorageClient Namespace](#)

DriveMountOptions 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.]

Namespace: Microsoft.WindowsAzure.StorageClient

Assembly: Microsoft.WindowsAzure.CloudDrive (in Microsoft.WindowsAzure.CloudDrive.dll)

▣ Usage

Visual Basic

```
Dim instance As DriveMountOptions
```

☐ Syntax

Visual Basic

```
<FlagsAttribute> _  
Public Enumeration DriveMountOptions
```

C#

```
[FlagsAttribute]  
public enum DriveMountOptions
```

C++

```
[FlagsAttribute]  
public enum class DriveMountOptions
```

J#

JScript

▣ Members

Member name	Description
FixFileSystemErrors	
Force	
None	
UseSharedAccessCredentials	

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[Microsoft.WindowsAzure.StorageClient Namespace](#)

IListBlobItem 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.]

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

```
Dim instance As IListBlobItem
```

☐ Syntax

Visual Basic

```
Public Interface IListBlobItem
```

C#

```
public interface IListBlobItem
```

C++

```
public interface class IListBlobItem
```

J#

JScript

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[IListBlobItem 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.

▣ **Public Properties**

	Name	Description
	<u>Container</u>	Gets the blob item's container.
	<u>Parent</u>	Gets the blob item's parent.
	<u>Uri</u>	Gets the URI to the blob item.

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▣ 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

	Name	Description
	<u>Container</u>	Gets the blob item's container.
	<u>Parent</u>	Gets the blob item's parent.
	<u>Uri</u>	Gets the URI to the blob item.

▣ See Also

Reference

[IListBlobItem 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

```
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

Type: [Microsoft.WindowsAzure.StorageClient.CloudBlobContainer](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[IListBlobItem Interface](#)

[IListBlobItem Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

IListBlobItem.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

Visual Basic

ReadOnly Property Parent As **CloudBlobDirectory**

C#

CloudBlobDirectory Parent { get; }

C++

```
property CloudBlobDirectory^ Parent {  
    CloudBlobDirectory^ get ();  
}
```

J#

JScript

Property Value

Type: [Microsoft.WindowsAzure.StorageClient.CloudBlobDirectory](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[IListBlobItem Interface](#)

[IListBlobItem Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

IListBlobItem.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 to the blob item.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As IListBlobItem  
Dim value As Uri  
  
value = instance.Uri
```

▣ Syntax

Visual Basic

```
ReadOnly Property Uri As Uri
```

C#

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

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[IListBlobItem Interface](#)

[IListBlobItem 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

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

▣ Usage

Visual Basic

```
Dim instance As LeaseStatus
```

☐ Syntax

Visual Basic

```
Public Enumeration LeaseStatus
```

C#

```
public enum LeaseStatus
```

C++

```
public enum class LeaseStatus
```

J#

JScript

▣ Members

Member name	Description
Locked	The blob is locked for exclusive-write access.
Unlocked	The blob is available to be locked for exclusive write access.
Unspecified	The lease status is not specified.

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[Microsoft.WindowsAzure.StorageClient Namespace](#)

ListBlockItem 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 block retrieved from the blob's block list.

Namespace: Microsoft.WindowsAzure.StorageClient

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

Usage

Visual Basic

```
Dim instance As ListBlockItem
```

☐ Syntax

Visual Basic

```
Public Class ListBlockItem
```

C#

```
public class ListBlockItem
```

C++

```
public ref class ListBlockItem
```

J#

JScript

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListBlockItem Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



ListBlockItem 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 block retrieved from the blob's block list.

The following tables list the members exposed by the [ListBlockItem](#) type.

▣ **Public Constructors**

	Name	Description
	ListBlockItem	

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▣ Public Properties

	Name	Description
	Committed	Gets a value indicating whether or not the block has been committed.
	Name	Gets the name of the block.
	Size	Gets the size of block in bytes.

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☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ 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

Visual Basic

```
Dim instance As New ListBlockItem
```

☐ Syntax

Visual Basic

```
Public Sub New
```

C#

```
public ListBlockItem ()
```

C++

```
public:  
ListBlockItem ()
```

J#

JScript

▣ **Remarks**

The default constructor initializes any fields to their default values.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListBlockItem Class](#)

[ListBlockItem Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

ListBlockItem 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](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ 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

	Name	Description
	Committed	Gets a value indicating whether or not the block has been committed.
	Name	Gets the name of the block.
	Size	Gets the size of block in bytes.

▣ See Also

Reference

[ListBlockItem Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



ListBlockItem.Committed 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 or not the block has been committed.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As ListBlockItem  
Dim value As Boolean  
  
value = instance.Committed
```

☐ Syntax

Visual Basic

Public Property Committed As **Boolean**

C#

```
public bool Committed { get; }
```

C++

```
public:  
property bool Committed {  
    bool get ();  
}
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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)

▣ Usage

Visual Basic

```
Dim instance As ListBlockItem  
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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Visual Basic

Public Property Size As **Long**

C#

```
public long Size { get; }
```

C++

```
public:  
property long long Size {  
    long long get ();  
}
```

J#

JScript

Property Value

Type: [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
<FlagsAttribute> _  
Public Enumeration MessageUpdateFields
```

C#

```
[FlagsAttribute]  
public enum MessageUpdateFields
```

C++

```
[FlagsAttribute]  
public enum class MessageUpdateFields
```

J#

JScript

▣ Members

Member name	Description
Content	Updates the message contents.
Visibility	Updates the message visibility timeout.

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Visual Basic

```
Public Class PageRange
```

C#

```
public class PageRange
```

C++

```
public ref class PageRange
```

J#

JScript

▣ **Inheritance Hierarchy**

System.Object

Microsoft.WindowsAzure.StorageClient.PageRange

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[PageRange Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



PageRange 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 range of pages in a page blob.

The following tables list the members exposed by the [PageRange](#) type.

▣ **Public Constructors**

	Name	Description
	PageRange	

[Top](#)

Public Properties

	Name	Description
	EndOffset	Gets the ending offset of the page range.
	StartOffset	Gets the starting offset of the page range.

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☐ **Public Methods (see also [Protected Methods](#))**

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	<u>ToString</u>	Overridden. Returns the content of the page range as a string.

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☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ See Also

Reference

[PageRange Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



PageRange 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 [PageRange](#) Class.Initializes a new instance of the [PageRange](#) Class.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	Overridden. Returns the content of the page range as a string.

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ 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

```
Dim instance As PageRange  
Dim returnValue As String  
  
returnValue = instance.ToString
```

▣ Syntax

Visual Basic

```
Public Overrides Function ToString As String
```

C#

```
public override string ToString ()
```

C++

```
public:  
virtual String^ ToString () override
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[PageRange Class](#)

[PageRange Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

PageRange 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

	Name	Description
	<u>EndOffset</u>	Gets the ending offset of the page range.
	<u>StartOffset</u>	Gets the starting offset of the page range.

▣ 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

```
Dim instance As PageRange  
Dim value As Long  
  
value = instance.EndOffset
```

▣ Syntax

Visual Basic

```
Public Property EndOffset As Long
```

C#

```
public long EndOffset { get; }
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[PageRange Class](#)

[PageRange Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

PageRange.StartOffset 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 starting offset of the page range.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[PageRange Class](#)

[PageRange Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

QueueAttributes 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's attributes.

Namespace: Microsoft.WindowsAzure.StorageClient

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

Usage

Visual Basic

```
Dim instance As QueueAttributes
```


☐ Syntax

Visual Basic

```
Public Class QueueAttributes
```

C#

```
public class QueueAttributes
```

C++

```
public ref class QueueAttributes
```

J#

JScript

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueAttributes Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



QueueAttributes 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 queue's attributes.

The following tables list the members exposed by the [QueueAttributes](#) type.

▣ **Public Constructors**

	Name	Description
	QueueAttributes	Overloaded.

[Top](#)

▣ Public Properties

	Name	Description
	Metadata	Gets the queue's user-defined metadata.
	Uri	Gets the URI for the queue.

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ See Also

Reference

[QueueAttributes Class](#)

[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.]

☐ Overload List

Name	Description
QueueAttributes ()	Initializes a new instance of the QueueAttributes class.
QueueAttributes (QueueAttributes)	Initializes a new instance of the QueueAttributes Class as a copy of an existing QueueAttributes object.

▣ 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

```
Dim instance As New QueueAttributes
```


Syntax

Visual Basic

```
Public Sub New
```

C#

```
public QueueAttributes ()
```

C++

```
public:  
QueueAttributes ()
```

J#

JScript

▣ **Remarks**

The default constructor initializes any fields to their default values.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim other As QueueAttributes
```

```
Dim instance As New QueueAttributes(other)
```

▣ Syntax

Visual Basic

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

C#

```
public QueueAttributes (  
    QueueAttributes other  
)
```

C++

```
public:  
QueueAttributes (  
    QueueAttributes^ other  
)
```

J#

JScript

Parameters

other

Type: [Microsoft.WindowsAzure.StorageClient.QueueAttributes](#)

The attributes to clone.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueAttributes Class](#)

[QueueAttributes Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

QueueAttributes 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](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[QueueAttributes Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



QueueAttributes 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

	Name	Description
	Metadata	Gets the queue's user-defined metadata.
	Uri	Gets the URI for the queue.

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As QueueAttributes  
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](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As QueueAttributes  
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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueAttributes Class](#)

[QueueAttributes Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

QueueErrorCodeStrings 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 Queue service.

Namespace: Microsoft.WindowsAzure.StorageClient

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

Usage

Visual Basic

☐ Syntax

Visual Basic

```
Public NotInheritable Class QueueErrorCodesStrings
```

C#

```
public static class QueueErrorCodesStrings
```

C++

```
public ref class QueueErrorCodesStrings abstract sealed
```

J#

JScript

▣ **Inheritance Hierarchy**

System.Object

Microsoft.WindowsAzure.StorageClient.QueueErrorCodeStrings

☐ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



QueueErrorCodeStrings Members

[See Also](#) [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 error code strings that are specific to the Queue service.

The following tables list the members exposed by the [QueueErrorCodeStrings](#) type.

☐ Public Fields

	Name	Description
 	<u>InvalidMarker</u>	Error code that may be returned when the specified marker is invalid.
 	<u>InvalidParameter</u>	Error code that may be returned when one or more request parameters are invalid.
 	<u>MessageNotFound</u>	Error code that may be returned when the specified message was not found.
 	<u>MessageTooLarge</u>	Error code that may be returned when the specified message is too large.
 	<u>PopReceiptMismatch</u>	Error code that may be returned when the specified pop receipt does not match.
 	<u>QueueAlreadyExists</u>	Error code that may be returned when the specified queue already exists.
 	<u>QueueBeingDeleted</u>	Error code that may be returned when the specified queue is being deleted.
 	<u>QueueDisabled</u>	Error code that may be returned when the specified queue is disabled.
 	<u>QueueNotEmpty</u>	Error code that may be returned when the specified queue is not empty.
 	<u>QueueNotFound</u>	Error code that may be returned when the specified queue was not found.

[Top](#)

▣ 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

	Name	Description
 	<u>InvalidMarker</u>	Error code that may be returned when the specified marker is invalid.
 	<u>InvalidParameter</u>	Error code that may be returned when one or more request parameters are invalid.
 	<u>MessageNotFound</u>	Error code that may be returned when the specified message was not found.
 	<u>MessageTooLarge</u>	Error code that may be returned when the specified message is too large.
 	<u>PopReceiptMismatch</u>	Error code that may be returned when the specified pop receipt does not match.
 	<u>QueueAlreadyExists</u>	Error code that may be returned when the specified queue already exists.
 	<u>QueueBeingDeleted</u>	Error code that may be returned when the specified queue is being deleted.
 	<u>QueueDisabled</u>	Error code that may be returned when the specified queue is disabled.
 	<u>QueueNotEmpty</u>	Error code that may be returned when the specified queue is not empty.
 	<u>QueueNotFound</u>	Error code that may be returned when the specified queue was not found.

▣ See Also

Reference

[QueueErrorCodeStrings Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

QueueErrorCodeStrings.InvalidMarker 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 marker is invalid.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim value As String  
value = QueueErrorCodeStrings.InvalidMarker
```

☐ Syntax

Visual Basic

```
Public Const InvalidMarker As String
```

C#

```
public const string InvalidMarker
```

C++

```
public:  
literal String^ InvalidMarker
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueErrorCodeStrings Class](#)

[QueueErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

QueueErrorCodeStrings.InvalidParameter 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 one or more request parameters are invalid.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
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#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueErrorCodeStrings Class](#)

[QueueErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

QueueErrorCodeStrings.MessageTooLarge 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 is too large.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim value As String  
  
value = QueueErrorCodeStrings.MessageTooLarge
```

☐ Syntax

Visual Basic

```
Public Const MessageTooLarge As String
```

C#

```
public const string MessageTooLarge
```

C++

```
public:  
literal String^ MessageTooLarge
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Public Const PopReceiptMismatch As String
```

C#

```
public const string PopReceiptMismatch
```

C++

```
public:  
literal String^ PopReceiptMismatch
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim value As String  
  
value = QueueErrorCodeStrings.QueueAlreadyExists
```

☐ Syntax

Visual Basic

```
Public Const QueueAlreadyExists As String
```

C#

```
public const string QueueAlreadyExists
```

C++

```
public:  
literal String^ QueueAlreadyExists
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim value As String  
value = QueueErrorCodeStrings.QueueBeingDeleted
```

☐ Syntax

Visual Basic

```
Public Const QueueBeingDeleted As String
```

C#

```
public const string QueueBeingDeleted
```

C++

```
public:  
literal String^ QueueBeingDeleted
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim value As String  
value = QueueErrorCodeStrings.QueueNotEmpty
```

☐ Syntax

Visual Basic

```
Public Const QueueNotEmpty As String
```

C#

```
public const string QueueNotEmpty
```

C++

```
public:  
literal String^ QueueNotEmpty
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim value As String  
value = QueueErrorCodeStrings.QueueNotFound
```


☐ Syntax

Visual Basic

```
Public Const QueueNotFound As String
```

C#

```
public const string QueueNotFound
```

C++

```
public:  
literal String^ QueueNotFound
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[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)

Usage

Visual Basic

```
Dim instance As QueueListingDetails
```

▣ Syntax

Visual Basic

```
<FlagsAttribute> _  
Public Enumeration QueueListingDetails
```

C#

```
[FlagsAttribute]  
public enum QueueListingDetails
```

C++

```
[FlagsAttribute]  
public enum class QueueListingDetails
```

J#

JScript

▣ Members

Member name	Description
All	Include all available details.
Metadata	Retrieve queue metadata.
None	No additional details.

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

Usage

Visual Basic

```
Dim instance As ResponseReceivedEventArgs
```

☐ Syntax

Visual Basic

```
Public Class ResponseReceivedEventArgs  
    Inherits EventArgs
```

C#

```
public class ResponseReceivedEventArgs : EventArgs
```

C++

```
public ref class ResponseReceivedEventArgs : public I
```

J#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ResponseReceivedEventArgs Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



ResponseReceivedEventArgs 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.]

Provides the arguments for the **ResponseReceived** event.

The following tables list the members exposed by the [ResponseReceivedEventArgs](#) type.

▣ Public Constructors

	Name	Description
	ResponseReceivedEventArgs	

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☐ **Public Properties**

	Name	Description
	Exception	Gets an exception returned by the service.
	RequestHeaders	Gets the request headers.
	RequestId	Gets the request ID.
	RequestUri	Gets the request URI.
	ResponseHeaders	Gets the response headers.
	StatusCode	Gets the HTTP status code for the request.
	StatusDescription	Gets the status description for the request.

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☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

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☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

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▣ See Also

Reference

[ResponseReceivedEventArgs Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



ResponseReceivedEventArgs 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 [ResponseReceivedEventArgs](#) Class.

Namespace: Microsoft.WindowsAzure.StorageClient

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

Usage

Visual Basic

```
Dim instance As New ResponseReceivedEventArgs
```

Syntax

Visual Basic

```
Public Sub New
```

C#

```
public ResponseReceivedEventArgs ()
```

C++

```
public:  
ResponseReceivedEventArgs ()
```

J#

JScript

▣ **Remarks**

The default constructor initializes any fields to their default values.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ 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**

	Name	Description
	<u>Exception</u>	Gets an exception returned by the service.
	<u>RequestHeaders</u>	Gets the request headers.
	<u>RequestId</u>	Gets the request ID.
	<u>RequestUri</u>	Gets the request URI.
	<u>ResponseHeaders</u>	Gets the response headers.
	<u>StatusCode</u>	Gets the HTTP status code for the request.
	<u>StatusDescription</u>	Gets the status description for the request.

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As ResponseReceivedEventArgs  
Dim value As Exception  
  
value = instance.Exception
```

▣ Syntax

Visual Basic

```
Public Property Exception As Exception
```

C#

```
public Exception Exception { get; }
```

C++

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

J#

JScript

Property Value

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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)

▣ Usage

Visual Basic

```
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++

```
public:  
property NameValueCollection^ RequestHeaders {  
    NameValueCollection^ get ();  
}
```

J#

JScript

Property Value

Type: [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As ResponseReceivedEventArgs  
Dim value As String  
  
value = instance.RequestId
```

▣ Syntax

Visual Basic

```
Public Property RequestId As String
```

C#

```
public string RequestId { get; }
```

C++

```
public:  
property String^ RequestId {  
    String^ get ();  
}
```

J#

JScript

Property Value

Type: [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Visual Basic

```
Public Property RequestUri As Uri
```

C#

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

C++

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

J#

JScript

Property Value

Type: [System.Uri](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Public Property ResponseHeaders As NameValueCollection
```

C#

```
public NameValueCollection ResponseHeaders { get; }
```

C++

```
public:  
property NameValueCollection^ ResponseHeaders {  
    NameValueCollection^ get ();  
}
```

J#

JScript

Property Value

Type: [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As ResponseReceivedEventArgs  
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](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As ResponseReceivedEventArgs  
Dim value As String  
  
value = instance.StatusDescription
```

▣ Syntax

Visual Basic

```
Public Property StatusDescription As String
```

C#

```
public string StatusDescription { get; }
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ResponseReceivedEventArgs Class](#)

[ResponseReceivedEventArgs Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

ResultContinuation 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.]

Manage continuation information for various listing operation. Can be serialized using XML serialization.

Namespace: Microsoft.WindowsAzure.StorageClient

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

Usage

Visual Basic

```
Dim instance As ResultContinuation
```

▣ Syntax

Visual Basic

```
<SerializableAttribute> _  
Public NotInheritable Class ResultContinuation  
    Implements IXmlSerializable
```

C#

```
[SerializableAttribute]  
public sealed class ResultContinuation : IXmlSeriali
```

C++

```
[SerializableAttribute]  
public ref class ResultContinuation sealed : IXmlSer
```

J#

JScript

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ResultContinuation Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



ResultContinuation Members

[See Also](#) [Methods](#) [Explicit Interface Implementations](#)



[This 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](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

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☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ Explicit Interface Implementations

Name	Description
GetSchema	Gets an XML representation of an object.
ReadXml	Generates a serializable continuation token from its XML representation.
WriteXml	Converts a serializable continuation token into its XML representation.

[Top](#)

▣ 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](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ Explicit Interface Implementations

Name	Description
GetSchema	Gets an XML representation of an object.
ReadXml	Generates a serializable continuation token from its XML representation.
WriteXml	Converts a serializable continuation token into its XML representation.

▣ 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

```
Dim instance As ResultContinuation  
Dim returnValue As XmlSchema  
  
returnValue = CType(instance, IXmlSerializable).GetS
```

▣ Syntax

Visual Basic

```
Private Function System.Xml.Serialization.IXmlSerial:
```

C#

```
XmlSchema IXmlSerializable.GetSchema ()
```

C++

```
private:  
virtual XmlSchema^ System.Xml.Serialization.IXmlSerial:
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ResultContinuation Class](#)

[ResultContinuation Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

ResultContinuation.ReadXml 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.]

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

```
Dim instance As ResultContinuation  
Dim reader As XmlReader  
  
CType(instance, IXmlSerializable).ReadXml(reader)
```

▣ Syntax

Visual Basic

```
Private Sub System.Xml.Serialization.IXmlSerializable.  
    ( _  
        reader As XmlReader _  
    ) Implements IXmlSerializable.ReadXml
```

C#

```
void IXmlSerializable.ReadXml (  
    XmlReader reader  
)
```

C++

```
private:  
virtual void System.Xml.Serialization.IXmlSerializable.  
    (  
        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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Visual Basic

```
Private Sub System.Xml.Serialization.IXmlSerializable.  
    ( _  
        writer As XmlWriter _  
    ) Implements IXmlSerializable.WriteXml
```

C#

```
void IXmlSerializable.WriteXml (  
    XmlWriter writer  
)
```

C++

```
private:  
virtual void System.Xml.Serialization.IXmlSerializable.  
    (  
        XmlWriter^ writer  
    ) sealed = IXmlSerializable::WriteXml
```

J#

JSript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ResultContinuation Class](#)

[ResultContinuation Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

ResultSegment 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.]

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

Visual Basic

```
Public Class ResultSegment(Of TElement)
```

C#

```
public class ResultSegment<TElement>
```

C++

```
generic<typename TElement>  
public ref class ResultSegment
```

J#

JScript

GenericParameters

TElement

The type of the element.

▣ Inheritance Hierarchy

System.Object

Microsoft.WindowsAzure.StorageClient.ResultSegment

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ResultSegment Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



ResultSegment 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 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

	Name	Description
	ContinuationToken	Gets a continuation token to use to retrieve the next set of results with a subsequent call to the operation.
	HasMoreResults	Gets a value indicating whether there are additional results to retrieve.
	Results	Gets an enumerable collection of results.

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	BeginGetNext	Begins an asynchronous operation to retrieve the next result segment.
	EndGetNext	Ends an asynchronous operation to retrieve the next result segment.
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetNext	Gets the next result segment.
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

[Top](#)

▣ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ See Also

Reference

[ResultSegment Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



ResultSegment 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](#))**

	Name	Description
	<u>BeginGetNext</u>	Begins an asynchronous operation to retrieve the next result segment.
	<u>EndGetNext</u>	Ends an asynchronous operation to retrieve the next result segment.
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	<u>GetNext</u>	Gets the next result segment.
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ 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

```
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

```
Public Function BeginGetNext ( _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginGetNext (  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
public:  
IAsyncResult^ BeginGetNext (  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As ResultSegment(Of TElement)  
Dim asyncResult As IAsyncResult  
Dim returnValue As ResultSegment(Of TElement)  
  
returnValue = instance.EndGetNext(asyncResult)
```

▣ Syntax

Visual Basic

```
Public Function EndGetNext ( _  
    asyncResult As IAsyncResult _  
) As ResultSegment(Of TElement)
```

C#

```
public ResultSegment<TElement> EndGetNext (  
    IAsyncResult asyncResult  
)
```

C++

```
public:  
ResultSegment<TElement>^ EndGetNext (  
    IAsyncResult^ asyncResult  
)
```

J#

JScript

Parameters

asyncResult

An **IAsyncResult** 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ResultSegment Class](#)

[ResultSegment Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

ResultSegment.GetNext 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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ResultSegment Class](#)

[ResultSegment Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

ResultSegment 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

	Name	Description
	ContinuationToken	Gets a continuation token to use to retrieve the next set of results with a subsequent call to the operation.
	HasMoreResults	Gets a value indicating whether there are additional results to retrieve.
	Results	Gets an enumerable collection of results.

▣ See Also

Reference

[ResultSegment Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



ResultSegment.ContinuationToken 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 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 ResultContinuat:
```

C#

```
public ResultContinuation ContinuationToken { get; }
```

C++

```
public:  
property 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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)

▣ Usage

Visual Basic

```
Dim instance As ResultSegment(Of TElement)  
Dim value As Boolean  
  
value = instance.HasMoreResults
```

▣ Syntax

Visual Basic

```
Public Property HasMoreResults As Boolean
```

C#

```
public bool HasMoreResults { get; }
```

C++

```
public:  
property bool HasMoreResults {  
    bool get ();  
}
```

J#

JScript

Property Value

Type: [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 *maxResults* 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ResultSegment Class](#)

[ResultSegment Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

ResultSegment.Results 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 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

Visual Basic

Public Property Results As **IEnumerable**(Of TElement)

C#

```
public IEnumerable<TElement> Results { get; }
```

C++

```
public:  
property IEnumerable<TElement>^ Results {  
    IEnumerable<TElement>^ get ();  
}
```

J#

JScript

Property Value

Type: System.Collections.Generic.IEnumerable

An enumerable collection of results.

■ Example

The following example lists the blobs in a container in result segments. The first operation returns

```
static void ListBlobsInContainerInSegments()
{
    //Create service client for credentialed access
    CloudBlobClient blobClient = new CloudBlobClient(

    //Get a reference to a container that contains blobs
    CloudBlobContainer container = blobClient.GetContainer(

    //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(
    foreach (var blobItem in resultSegment.Results)
    {
        Console.WriteLine(blobItem.Uri);
    }

    ResultContinuation continuationToken = resultSegment.ContinuationToken;

    //Check whether there are more results and list them
    while (continuationToken != null)
    {
        resultSegment = container.ListBlobsSegmented(
        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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[ResultSegment Class](#)

[ResultSegment Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

RetryPolicies 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.]

Defines some standard retry policies.

Namespace: Microsoft.WindowsAzure.StorageClient

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

Usage

Visual Basic

☐ Syntax

Visual Basic

```
Public NotInheritable Class RetryPolicies
```

C#

```
public static class RetryPolicies
```

C++

```
public ref class RetryPolicies abstract sealed
```

J#

JScript

▣ **Inheritance Hierarchy**

System.Object

Microsoft.WindowsAzure.StorageClient.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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[RetryPolicies Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



RetryPolicies Members

[See Also](#) [Fields](#) [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.]

Defines some standard retry policies.

The following tables list the members exposed by the [RetryPolicies](#) type.

☐ Public Fields

	Name	Description
 	<u>DefaultClientBackoff</u>	Indicates the default delta backoff value used by the default exponential backoff retry policy
 	<u>DefaultClientRetryCount</u>	Indicates the default retry count used by the default exponential backoff retry policy.
 	<u>DefaultMaxBackoff</u>	Indicates the default maximum backoff value that will be used for a policy returned by <u>RetryExponential(Int32, TimeSpan)</u> .
 	<u>DefaultMinBackoff</u>	Indicates the default minimum backoff value that will be used for a policy returned by <u>RetryExponential(Int32, TimeSpan)</u> .

[Top](#)

☐ Public Methods

	Name	Description
	NoRetry	Returns a retry policy that performs no retries.
	Retry	Returns a retry policy that retries a specified number of times, with a specified fixed time interval between retries.
	RetryExponential	Overloaded.

[Top](#)

▣ See Also

Reference

[RetryPolicies Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



RetryPolicies 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

	Name	Description
 	<u>DefaultClientBackoff</u>	Indicates the default delta backoff value used by the default exponential backoff retry policy
 	<u>DefaultClientRetryCount</u>	Indicates the default retry count used by the default exponential backoff retry policy.
 	<u>DefaultMaxBackoff</u>	Indicates the default maximum backoff value that will be used for a policy returned by <u>RetryExponential(Int32, TimeSpan)</u> .
 	<u>DefaultMinBackoff</u>	Indicates the default minimum backoff value that will be used for a policy returned by <u>RetryExponential(Int32, TimeSpan)</u> .

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[RetryPolicies Class](#)

[RetryPolicies Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

RetryPolicies.DefaultClientRetryCount 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 retry count 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 Integer  
value = RetryPolicies.DefaultClientRetryCount
```

▣ Syntax

Visual Basic

```
Public Shared ReadOnly DefaultClientRetryCount As Integer
```

C#

```
public static readonly int DefaultClientRetryCount
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[RetryPolicies Class](#)

[RetryPolicies Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

RetryPolicies.DefaultMaxBackoff 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 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

Visual Basic

```
Dim value As TimeSpan  
  
value = RetryPolicies.DefaultMaxBackoff
```

☐ Syntax

Visual Basic

```
Public Shared ReadOnly DefaultMaxBackoff As TimeSpan
```

C#

```
public static readonly TimeSpan DefaultMaxBackoff
```

C++

```
public:  
static initonly TimeSpan DefaultMaxBackoff
```

J#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[RetryPolicies Class](#)

[RetryPolicies Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

RetryPolicies.DefaultMinBackoff 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 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

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

	Name	Description
	NoRetry	Returns a retry policy that performs no retries.
	Retry	Returns a retry policy that retries a specified number of times, with a specified fixed time interval between retries.
	RetryExponential	Overloaded.

▣ See Also

Reference

[RetryPolicies Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



RetryPolicies.NoRetry 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 retry policy that performs no retries.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim returnValue As RetryPolicy  
returnValue = RetryPolicies.NoRetry
```

▣ Syntax

Visual Basic

```
Public Shared Function NoRetry As RetryPolicy
```

C#

```
public static RetryPolicy NoRetry ()
```

C++

```
public:  
static RetryPolicy^ NoRetry ()
```

J#

JScript

Return Value

Type: [Microsoft.WindowsAzure.StorageClient.RetryPolicy](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[RetryPolicies Class](#)

[RetryPolicies Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

RetryPolicies.Retry 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 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

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](#)

The time interval between retries. Use **Zero** to specify that the operation should be retried immediately.

Return Value

Type: [Microsoft.WindowsAzure.StorageClient.RetryPolicy](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[RetryPolicies Class](#)

[RetryPolicies Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

RetryPolicies.RetryExponential 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

Name	Description
RetryPolicies.RetryExponential(Int32, TimeSpan)	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.
RetryPolicies.RetryExponential(Int32, TimeSpan, TimeSpan, TimeSpan)	Returns a policy that retries a specified number of times with a randomized exponential backoff scheme, using specified minimum and maximum backoff values.

▣ See Also

Reference

[RetryPolicies Class](#)

[RetryPolicies Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

RetryPolicies.RetryExponential Method (Int32, TimeSpan)

[See Also](#)



[This 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

```
Dim retryCount As Integer  
Dim deltaBackoff As TimeSpan  
Dim returnValue As RetryPolicy  
  
returnValue = RetryPolicies.RetryExponential(retryCount, deltaBackoff)
```

▣ Syntax

Visual Basic

```
Public Shared Function RetryExponential ( _  
    retryCount As Integer, _  
    deltaBackoff As TimeSpan _  
) As RetryPolicy
```

C#

```
public static RetryPolicy RetryExponential (  
    int retryCount,  
    TimeSpan deltaBackoff  
)
```

C++

```
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:

```
public static RetryPolicy RetryExponential(int retryCount, TimeSpan
{
    //Returns a RetryPolicy delegate.
    return () =>
    {
        //Returns a ShouldRetry delegate.
        return (int currentRetryCount, Exception lastException, ou
        {
            if (currentRetryCount < retryCount)
            {
                Random rand = new Random();
                int increment = (int)((Math.Pow(2, currentRetryCou
                int timeToSleepMsec = (int)Math.Min(RetryPolicies.

                retryInterval = TimeSpan.FromMilliseconds(timeToSl

                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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[RetryPolicies Class](#)

[RetryPolicies Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

RetryPolicies.RetryExponential Method (Int32, TimeSpan, TimeSpan, TimeSpan)

[See Also](#)



[This 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 specified minimum and maximum backoff values.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
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

```
Public Shared Function RetryExponential ( _  
    retryCount As Integer, _  
    minBackoff As TimeSpan, _  
    maxBackoff As TimeSpan, _  
    deltaBackoff As TimeSpan _  
) As RetryPolicy
```

C#

```
public static RetryPolicy RetryExponential (  
    int retryCount,  
    TimeSpan minBackoff,  
    TimeSpan maxBackoff,  
    TimeSpan deltaBackoff  
)
```

C++

```
public:  
static RetryPolicy^ RetryExponential (  
    int retryCount,  
    TimeSpan minBackoff,  
    TimeSpan maxBackoff,  
    TimeSpan deltaBackoff  
)
```

J#

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:

```
public static RetryPolicy RetryExponential(int retryCount, TimeSpan
{
    return () =>
    {
        return (int currentRetryCount, Exception lastException, out
        {
            if (currentRetryCount < retryCount)
            {
                Random rand = new Random();
                int increment = (int)((Math.Pow(2, currentRetryCou
                int timeToSleepMsec = (int)Math.Min(minBackoff.Tot

                retryInterval = TimeSpan.FromMilliseconds(timeToSl

                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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[RetryPolicies Class](#)

[RetryPolicies Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

RetryPolicy 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.]

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

```
Dim instance As New RetryPolicy(AddressOf HandlerMetl
```

☐ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Visual Basic

```
<FlagsAttribute> _  
Public Enumeration SharedAccessPermissions
```

C#

```
[FlagsAttribute]  
public enum SharedAccessPermissions
```

C++

```
[FlagsAttribute]  
public enum class SharedAccessPermissions
```

J#

JScript

▣ Members

Member name	Description
Delete	Grant delete access.
List	Grant listing access.
None	No shared access granted.
Read	Grant read access.
Write	Grant write access.

▣ **Remarks**

These enumeration values can be OR'ed together to designate multiple fields in method parameters that expect this enumeration type.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[Microsoft.WindowsAzure.StorageClient Namespace](#)
[SharedAccessPolicy](#)

SharedAccessPolicies 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 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
```

☐ Syntax

Visual Basic

```
<SerializableAttribute> _  
Public Class SharedAccessPolicies  
    Inherits Dictionary(Of String, SharedAccessPo
```

C#

```
[SerializableAttribute]  
public class SharedAccessPolicies : Dictionary<string,
```

C++

```
[SerializableAttribute]  
public ref class SharedAccessPolicies : public Dictio
```

J#

JScript

▣ **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

System.Collections.Generic.Dictionary

Microsoft.WindowsAzure.StorageClient.SharedAccessPolicies

☐ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[SharedAccessPolicies Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

SharedAccessPolicies Members

[See Also](#) [Constructors](#) [Methods](#) [Properties](#) [Explicit Interface Implementations](#)



[This 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**

	Name	Description
	SharedAccessPolicies	

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▣ **Public Properties**

	Name	Description
	Comparer	(Inherited from Dictionary)
	Count	(Inherited from Dictionary)
	Item	(Inherited from Dictionary)
	Keys	(Inherited from Dictionary)
	Values	(Inherited from Dictionary)

[Top](#)

☐ **Public Methods (see also [Protected Methods](#))**

	Name	Description
	Add	(Inherited from Dictionary)
	Clear	(Inherited from Dictionary)
	ContainsKey	(Inherited from Dictionary)
	ContainsValue	(Inherited from Dictionary)
	Equals	(Inherited from Object)
	GetEnumerator	(Inherited from Dictionary)
	GetHashCode	(Inherited from Object)
	GetObjectData	(Inherited from Dictionary)
	GetType	(Inherited from Object)
	OnDeserialization	(Inherited from Dictionary)
	Remove	(Inherited from Dictionary)
	ToString	(Inherited from Object)
	TryGetValue	(Inherited from Dictionary)

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☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ Explicit Interface Implementations

Name	Description
Add	(Inherited from Dictionary)
Contains	(Inherited from Dictionary)
CopyTo	(Inherited from Dictionary)
Remove	(Inherited from Dictionary)
GetEnumerator	(Inherited from Dictionary)
CopyTo	(Inherited from Dictionary)
Add	(Inherited from Dictionary)
Contains	(Inherited from Dictionary)
GetEnumerator	(Inherited from Dictionary)
Remove	(Inherited from Dictionary)
GetEnumerator	(Inherited from Dictionary)
IsReadOnly	(Inherited from Dictionary)
Keys	(Inherited from Dictionary)
Values	(Inherited from Dictionary)
IsSynchronized	(Inherited from Dictionary)
SyncRoot	(Inherited from Dictionary)
IsFixedSize	(Inherited from Dictionary)
IsReadOnly	(Inherited from Dictionary)
Item	(Inherited from Dictionary)
Keys	(Inherited from Dictionary)
Values	(Inherited from Dictionary)

[Top](#)

▣ See Also

Reference

[SharedAccessPolicies Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



SharedAccessPolicies 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 [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[SharedAccessPolicies Class](#)

[SharedAccessPolicies Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Managing Access to Containers and Blobs](#)

SharedAccessPolicies 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](#))**

	Name	Description
	Add	(Inherited from Dictionary)
	Clear	(Inherited from Dictionary)
	ContainsKey	(Inherited from Dictionary)
	ContainsValue	(Inherited from Dictionary)
	Equals	(Inherited from Object)
	GetEnumerator	(Inherited from Dictionary)
	GetHashCode	(Inherited from Object)
	GetObjectData	(Inherited from Dictionary)
	GetType	(Inherited from Object)
	OnDeserialization	(Inherited from Dictionary)
	Remove	(Inherited from Dictionary)
	ToString	(Inherited from Object)
	TryGetValue	(Inherited from Dictionary)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ Explicit Interface Implementations

Name	Description
Add	(Inherited from Dictionary)
Contains	(Inherited from Dictionary)
CopyTo	(Inherited from Dictionary)
Remove	(Inherited from Dictionary)
GetEnumerator	(Inherited from Dictionary)
CopyTo	(Inherited from Dictionary)
Add	(Inherited from Dictionary)
Contains	(Inherited from Dictionary)
GetEnumerator	(Inherited from Dictionary)
Remove	(Inherited from Dictionary)
GetEnumerator	(Inherited from Dictionary)

▣ See Also

Reference

[SharedAccessPolicies Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



SharedAccessPolicies 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**

	Name	Description
	Comparer	(Inherited from Dictionary)
	Count	(Inherited from Dictionary)
	Item	(Inherited from Dictionary)
	Keys	(Inherited from Dictionary)
	Values	(Inherited from Dictionary)

▣ Explicit Interface Implementations

Name	Description
IsReadOnly	(Inherited from Dictionary)
Keys	(Inherited from Dictionary)
Values	(Inherited from Dictionary)
IsSynchronized	(Inherited from Dictionary)
SyncRoot	(Inherited from Dictionary)
IsFixedSize	(Inherited from Dictionary)
IsReadOnly	(Inherited from Dictionary)
Item	(Inherited from Dictionary)
Keys	(Inherited from Dictionary)
Values	(Inherited from Dictionary)

▣ See Also

Reference

[SharedAccessPolicies Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

SharedAccessPolicy Class

[See Also](#) [Example](#) [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 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

```
Dim instance As SharedAccessPolicy
```

☐ Syntax

Visual Basic

```
Public Class SharedAccessPolicy
```

C#

```
public class SharedAccessPolicy
```

C++

```
public ref class SharedAccessPolicy
```

J#

JScript

▣ Example

The following code example creates a shared access signature for a blob. The shared access policy is created on the signature itself.

C#

```
static void CreateSAS()
{
    // Retrieve storage account information from an app.config file.
    // This is one way to store and retrieve a connection string.
    // If you are writing an application that runs locally,
    // you can use the following code to retrieve the connection string.
    CloudStorageAccount storageAccount = CloudStorageAccount.FromConfiguration(
        ConfigurationManager.AppSettings["StorageAccountName"]);

    // Create the blob client object.
    CloudBlobClient blobClient = storageAccount.CreateCloudBlobClient();

    // Get a reference to the container for which the shared access policy is
    // being created.
    CloudBlobContainer container = blobClient.GetContainerReference("mycontainer");
    container.CreateIfNotExist();

    // Create a permission policy, consisting of a shared access signature
    // and a public access setting, and store it on the container.
    BlobContainerPermissions containerPermissions = new BlobContainerPermissions();

    // The public access setting explicitly specifies that the container is
    // so that it can't be accessed anonymously.
    containerPermissions.PublicAccess = BlobContainerPublicAccessType.NotPermitted;

    //Set the permission policy on the container.
    container.SetPermissions(containerPermissions);

    //The container-level access policy provides read/write access to the
    containerPermissions.SharedAccessPolicies.Add("mypolicy",
    {
        //If valid immediately, don't set SharedAccessSignature
    });
}
```

```

        //to avoid failures caused by small clock difference
        //
        // This policy goes live one hour from now.
        SharedAccessStartTime = DateTime.UtcNow.AddHours(1);
        SharedAccessExpiryTime = DateTime.UtcNow.AddHours(2);
        Permissions = SharedAccessPermissions.Write | SharedAccessPermissions.Read;
    });

    // The shared access signature then can be used to create a blob 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.
    // The parameter for StorageCredentialsSharedAccessSignature is the
    // 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(
        new StorageCredentialsSharedAccessSignature(sas));

    // Return a reference to a blob.
    CloudBlob blob = sasBlobClient.GetBlobReference("mysasblob");

    // 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("Write to a blob using shared access signature");
}

```

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#

```

static void CreateSASUsingContainerAccessPolicy()
{

```

```

// Retrieve storage account information from an app
// This is one way to store and retrieve a connecti
// that will run locally, rather than in Windows A
CloudStorageAccount storageAccount = CloudStorageAc
    (ConfigurationManager.AppSettings["StorageAcco

// Create the blob client object.
CloudBlobClient blobClient = storageAccount.Createl

// Get a reference to the container for which shar
CloudBlobContainer container = blobClient.GetConta
container.CreateIfNotExist();

// Create a permission policy, consisting of a con
// and a public access setting, and store it on the
BlobContainerPermissions blobPermissions = new Blo

// The container-level access policy provides read
blobPermissions.SharedAccessPolicies.Add("mypolicy"
{
    //If valid immediately, don't set SharedAcce
    //to avoid failures caused by small clock di
    //
    // This policy goes live one hour from now.
    SharedAccessStartTime = DateTime.UtcNow.AddH
    SharedAccessExpiryTime = DateTime.UtcNow.Add
    Permissions = SharedAccessPermissions.Write
});

// The public access setting explicitly specifies
// so that it can't be accessed anonymously.
blobPermissions.PublicAccess = BlobContainerPublic

// Set the permission policy on the container.
container.SetPermissions(blobPermissions);

// Get the shared access signature to share with c
// Note that this call passes in an empty access p
// will use the 'mypolicy' access policy that's de

```

```
string sas = container.GetSharedAccessSignature(new

// Clients can use the signature to create a service
StorageCredentialsSharedAccessSignature sasCreds =
CloudBlobClient sasBlobClient = new CloudBlobClient(
    new StorageCredentialsSharedAccessSignature(sas)

// Return a reference to a blob.
CloudBlob blob = sasBlobClient.GetBlobReference("my

// Upload text to the blob. If the blob does not yet
// If the blob does exist, its existing content will
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

Microsoft.WindowsAzure.StorageClient.SharedAccessPolicy

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[SharedAccessPolicy Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Managing Access to Containers and Blobs](#)

SharedAccessPolicy 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 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.

▣ Public Constructors

	Name	Description
	SharedAccessPolicy	Initializes a new instance of the SharedAccessPolicy class.

[Top](#)

Public Properties

	Name	Description
	Permissions	Gets or sets the permissions for a shared access signature associated with this shared access policy.
	SharedAccessExpiryTime	Gets or sets the expiry time for a shared access signature associated with this shared access policy.
	SharedAccessStartTime	Gets or sets the start time for a shared access signature associated with this shared access policy.

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☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	PermissionsFromString	Constructs a SharedAccessPermissions object from a permissions string.
	PermissionsToString	Converts the permissions specified for the shared access policy to a string.
	ToString	(Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ See Also

Reference

[SharedAccessPolicy Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[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

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

Usage

Visual Basic

```
Dim instance As New SharedAccessPolicy
```

☐ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[SharedAccessPolicy Class](#)

[SharedAccessPolicy Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

SharedAccessPolicy 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](#))**

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	PermissionsFromString	Constructs a SharedAccessPermissions object from a permissions string.
	PermissionsToString	Converts the permissions specified for the shared access policy to a string.
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[SharedAccessPolicy Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Managing Access to Containers and Blobs](#)

SharedAccessPolicy.PermissionsFromString 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 [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.PermissionsFromStri
```

▣ Syntax

Visual Basic

```
Public Shared Function PermissionsFromString ( _  
    value As String _  
) As SharedAccessPermissions
```

C#

```
public static SharedAccessPermissions PermissionsFrom  
(  
    string value  
)
```

C++

```
public:  
static SharedAccessPermissions PermissionsFromString  
(  
    String^ value  
)
```

J#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[SharedAccessPolicy Class](#)

[SharedAccessPolicy Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

[SharedAccessPermissions](#)

SharedAccessPolicy.PermissionsToString 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 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

Visual Basic

```
Public Shared Function PermissionsToString ( _  
    permissions As SharedAccessPermissions _  
) As String
```

C#

```
public static string PermissionsToString (  
    SharedAccessPermissions permissions  
)
```

C++

```
public:  
static String^ PermissionsToString (  
    SharedAccessPermissions permissions  
)
```

J#

JScript

Parameters

permissions

Type: [Microsoft.WindowsAzure.StorageClient.SharedAccessPermissions](#)

The shared access permissions.

Return Value

Type: [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[SharedAccessPolicy Class](#)

[SharedAccessPolicy Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

[SharedAccessPermissions](#)

SharedAccessPolicy 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

	Name	Description
	Permissions	Gets or sets the permissions for a shared access signature associated with this shared access policy.
	SharedAccessExpiryTime	Gets or sets the expiry time for a shared access signature associated with this shared access policy.
	SharedAccessStartTime	Gets or sets the start time for a shared access signature associated with this shared access policy.

▣ See Also

Reference

[SharedAccessPolicy Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Other Resources

[Managing Access to Containers and Blobs](#)

SharedAccessPolicy.Permissions 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 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

Visual Basic

Public Property Permissions As **SharedAccessPermissions**

C#

public **SharedAccessPermissions** Permissions { get; set;

C++

```
public:
property SharedAccessPermissions Permissions {
    SharedAccessPermissions get ();
    void set (SharedAccessPermissions value);
}
```

J#

JScript

Property Value

Type: [Microsoft.WindowsAzure.StorageClient.SharedAccessPermissions](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[SharedAccessPolicy Class](#)

[SharedAccessPolicy Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

[SharedAccessPermissions](#)

SharedAccessPolicy.SharedAccessExpiryTime 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 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

Visual Basic

```
Public Property SharedAccessExpiryTime As Nullable(Of
```

C#

```
public Nullable<DateTime> SharedAccessExpiryTime { g
```

C++

```
public:  
property Nullable<DateTime> SharedAccessExpiryTime {  
    Nullable<DateTime> get ();  
    void set (Nullable<DateTime> value);  
}
```

J#

JScript

Property Value

Type: [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[SharedAccessPolicy Class](#)

[SharedAccessPolicy Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

SharedAccessPolicy.SharedAccessStartTime 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 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)

▣ Usage

Visual Basic

```
Dim instance As SharedAccessPolicy  
Dim value As Nullable(Of DateTime)  
  
value = instance.SharedAccessStartTime  
instance.SharedAccessStartTime = value
```

▣ Syntax

Visual Basic

```
Public Property SharedAccessStartTime As Nullable(Of
```

C#

```
public Nullable<DateTime> SharedAccessStartTime { ge
```

C++

```
public:  
property 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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 HandlerMetl
```

☐ Syntax

Visual Basic

```
Public Delegate Function ShouldRetry ( _  
    retryCount As Integer, _  
    lastException As Exception, _  
    <OutAttribute> ByRef delay As TimeSpan _  
) As Boolean
```

C#

```
public delegate bool ShouldRetry (  
    int retryCount,  
    Exception lastException,  
    out TimeSpan delay  
)
```

C++

```
public delegate bool ShouldRetry (  
    int retryCount,  
    Exception^ lastException,  
    [OutAttribute] TimeSpan% delay  
)
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[Microsoft.WindowsAzure.StorageClient Namespace
RetryPolicy](#)

StorageClientException 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 an exception thrown by the Windows Azure storage client library.

Namespace: Microsoft.WindowsAzure.StorageClient

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

Usage

Visual Basic

```
Dim instance As StorageClientException
```

☐ Syntax

Visual Basic

```
<SerializableAttribute> _  
Public Class StorageClientException  
    Inherits StorageException
```

C#

```
[SerializableAttribute]  
public class StorageClientException : StorageException
```

C++

```
[SerializableAttribute]  
public ref class StorageClientException : public StorageException
```

J#

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 only exception to this rule is when the [ExtendedErrorInformation](#) property indicates that [ErrorCode](#) is equal to [InternalError](#).

C#

 Copy Co

```
bool canRetry = true;
while (canRetry)
{
    try
    {
        // Perform data access operation
    }
    catch (StorageClientException ex)
    {
        if (!ex.ExtendedErrorInformation.ErrorCode.Equals(
            StorageErrorCodeStrings.InternalError.ToString()))
        {
            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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[StorageClientException Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



StorageClientException Members

[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](#))**

	Name	Description
	StorageClientException	Overloaded.

[Top](#)

▣ Protected Constructors

	Name	Description
	StorageClientException	Overloaded.

[Top](#)

▣ **Public Properties (see also [Protected Properties](#))**

	Name	Description
	Data	(Inherited from Exception)
	ErrorCode	Gets the specific error code returned by the service. (Inherited from StorageException)
	ExtendedErrorInformation	Gets the extended error information returned by the service. (Inherited from StorageException)
	HelpLink	(Inherited from Exception)
	InnerException	(Inherited from Exception)
	Message	(Inherited from Exception)
	Source	(Inherited from Exception)
	StackTrace	(Inherited from Exception)
	StatusCode	Gets the HTTP status code that was returned by the service. (Inherited from StorageException)
	TargetSite	(Inherited from Exception)

[Top](#)

Protected Properties

	Name	Description
	HResult	(Inherited from Exception)

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Equals	(Inherited from Object)
	GetBaseException	(Inherited from Exception)
	GetHashCode	(Inherited from Object)
	GetObjectData	Overridden. Sets the SerializationInfo object with additional exception information. (Inherited from Exception)
	GetType	(Inherited from Exception)
	ToString	Overridden. (Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ Protected Events

	Name	Description
	SerializeObjectState	(Inherited from Exception)

[Top](#)

▣ See Also

Reference

[StorageClientException Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



StorageClientException 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

Name	Description
StorageClientException ()	Initializes a new instance of the StorageClientException class.
StorageClientException (SerializationInfo, StreamingContext)	Initializes a new instance of the StorageClientException class with serialized data.

▣ See Also

Reference

[StorageClientException Class](#)

[StorageClientException Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageClientException 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 [StorageClientException](#) class.

Namespace: Microsoft.WindowsAzure.StorageClient

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

Usage

Visual Basic

```
Dim instance As New StorageClientException
```

☐ Syntax

Visual Basic

```
Public Sub New
```

C#

```
public StorageClientException ()
```

C++

```
public:  
StorageClientException ()
```

J#

JScript

▣ **Remarks**

The default constructor initializes any fields to their default values.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageClientException Class](#)

[StorageClientException Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageClientException 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 [StorageClientException](#) class with serialized data.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim info As SerializationInfo  
Dim context As StreamingContext  
  
Dim instance As New StorageClientException(info, con
```

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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](#))

	Name	Description
	Equals	(Inherited from Object)
	GetBaseException	(Inherited from Exception)
	GetHashCode	(Inherited from Object)
	GetObjectData	Overridden. Sets the SerializationInfo object with additional exception information. (Inherited from Exception)
	GetType	(Inherited from Exception)
	ToString	Overridden. (Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[StorageClientException Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



StorageClientException 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](#))**

	Name	Description
	Data	(Inherited from Exception)
	ErrorCode	Gets the specific error code returned by the service. (Inherited from StorageException)
	ExtendedErrorInformation	Gets the extended error information returned by the service. (Inherited from StorageException)
	HelpLink	(Inherited from Exception)
	InnerException	(Inherited from Exception)
	Message	(Inherited from Exception)
	Source	(Inherited from Exception)
	StackTrace	(Inherited from Exception)
	StatusCode	Gets the HTTP status code that was returned by the service. (Inherited from StorageException)
	TargetSite	(Inherited from Exception)

Protected Properties

	Name	Description
	HResult	(Inherited from Exception)

▣ See Also

Reference

[StorageClientException Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



StorageClientException 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

	Name	Description
	SerializeObjectState	(Inherited from Exception)

▣ 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

```
Dim instance As StorageErrorCode
```

☐ Syntax

Visual Basic

```
Public Enumeration StorageErrorCode
```

C#

```
public enum StorageErrorCode
```

C++

```
public enum class StorageErrorCode
```

J#

JScript

▣ Members

Member name	Description
AccessDenied	Access was denied (client-side error).
AccountNotFound	The specified account was not found (client-side error).
AuthenticationFailure	An authentication error occurred (client-side error).
BadGateway	There was an error with the gateway used for the request (client-side error).
BadRequest	The request was incorrect or badly formed (client-side error).
BlobAlreadyExists	The specified blob already exists (client-side error).
BlobNotFound	The specified blob was not found (client-side error).
ConditionFailed	The specified condition failed (client-side error).
ContainerAlreadyExists	The specified container already exists (client-side error).
ContainerNotFound	The specified container was not found (client-side error).
HttpVersionNotSupported	The request version header is not supported (client-side error).
None	No error specified.
NotImplemented	The requested operation is not implemented on the specified resource (client-side error).
ResourceAlreadyExists	The specified resource already exists (client-side error).
ResourceNotFound	The specified resource was not found (client-side error).
ServiceBadResponse	The service returned a bad response (server-side error).
ServiceIntegrityCheckFailed	A service integrity check failed (server-side error).

ServiceInternalError	An internal server occurred (server-side error).
ServiceTimeout	The service timed out (server-side error).
TransportError	A transport error occurred (server-side error).

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorCodeStrings 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 common to all storage services.

Namespace: Microsoft.WindowsAzure.StorageClient

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

Usage

Visual Basic

☐ Syntax

Visual Basic

```
Public NotInheritable Class StorageErrorStrings
```

C#

```
public static class StorageErrorStrings
```

C++

```
public ref class StorageErrorStrings abstract sealed
```

J#

JScript

▣ Inheritance Hierarchy

System.Object

Microsoft.WindowsAzure.StorageClient.StorageErrorStrings

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



StorageErrorCodeStrings Members

[See Also](#) [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 error code strings that are common to all storage services.

The following tables list the members exposed by the [StorageErrorCodeStrings](#) type.

Public Fields

	Name	Description
 	AuthenticationFailed	Authentication failed.
 	ConditionNotMet	The specified condition was not met.
 	ContainerAlreadyExists	The specified container already exists.
 	ContainerBeingDeleted	The specified container is being deleted.
 	ContainerDisabled	The specified container is disabled.
 	ContainerNotFound	The specified container was not found.
 	EmptyMetadataKey	The metadata key is empty.
 	InternalError	An internal error occurred.
 	InvalidHeaderValue	One or more header values are invalid.
 	InvalidHttpVerb	The HTTP verb is invalid.
 	InvalidInput	The input is invalid.
 	InvalidMd5	The specified MD5 hash is invalid.
 	InvalidMetadata	The specified metadata is invalid.
 	InvalidQueryParameterValue	One or more query parameters are invalid.
 	InvalidRange	The specified range is invalid.
 	InvalidUri	The URI is invalid.
 	InvalidXmlDocument	The specified XML document is invalid.
 	InvalidXmlNodeValue	One or more XML node values are invalid.
 	Md5Mismatch	The specified MD5 hash does not match the server value.
 	MetadataTooLarge	The specified metadata is too large.
 	MissingContentLengthHeader	The Content-Length header is required for this request.

 	MissingRequiredHeader	A required header was missing.
 	MissingRequiredQueryParameter	A required query parameter is missing.
 	MissingRequiredXmlNode	A required XML node was missing.
 	OperationTimedOut	The operation timed out.
 	OutOfRangeInput	The input is out of range.
 	OutOfRangeQueryParameterValue	One or more query parameters are out of range.
 	RequestBodyTooLarge	The request body is too large.
 	ResourceNotFound	The specified resource was not found.
 	ServerBusy	The server is busy.
 	UnsupportedHeader	One or more header values are not supported.
 	UnsupportedHttpVerb	The specified HTTP verb is not supported.
 	UnsupportedQueryParameter	One or more query parameters is not supported.
 	UnsupportedXmlNode	One or more XML nodes are not supported.

[Top](#)

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



StorageErrorStrings 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

	Name	Description
 	AuthenticationFailed	Authentication failed.
 	ConditionNotMet	The specified condition was not met.
 	ContainerAlreadyExists	The specified container already exists.
 	ContainerBeingDeleted	The specified container is being deleted.
 	ContainerDisabled	The specified container is disabled.
 	ContainerNotFound	The specified container was not found.
 	EmptyMetadataKey	The metadata key is empty.
 	InternalError	An internal error occurred.
 	InvalidHeaderValue	One or more header values are invalid.
 	InvalidHttpVerb	The HTTP verb is invalid.
 	InvalidInput	The input is invalid.
 	InvalidMd5	The specified MD5 hash is invalid.
 	InvalidMetadata	The specified metadata is invalid.
 	InvalidQueryParameterValue	One or more query parameters are invalid.
 	InvalidRange	The specified range is invalid.
 	InvalidUri	The URI is invalid.
 	InvalidXmlDocument	The specified XML document is invalid.
 	InvalidXmlNodeValue	One or more XML node values are invalid.
 	Md5Mismatch	The specified MD5 hash does not match the server value.
 	MetadataTooLarge	The specified metadata is too large.
 	MissingContentLengthHeader	The Content-Length header is required for this request.

 	<u>MissingRequiredHeader</u>	A required header was missing.
 	<u>MissingRequiredQueryParameter</u>	A required query parameter is missing.
 	<u>MissingRequiredXmlNode</u>	A required XML node was missing.
 	<u>OperationTimedOut</u>	The operation timed out.
 	<u>OutOfRangeInput</u>	The input is out of range.
 	<u>OutOfRangeQueryParameterValue</u>	One or more query parameters are out of range.
 	<u>RequestBodyTooLarge</u>	The request body is too large.
 	<u>ResourceNotFound</u>	The specified resource was not found.
 	<u>ServerBusy</u>	The server is busy.
 	<u>UnsupportedHeader</u>	One or more header values are not supported.
 	<u>UnsupportedHttpVerb</u>	The specified HTTP verb is not supported.
 	<u>UnsupportedQueryParameter</u>	One or more query parameters is not supported.
 	<u>UnsupportedXmlNode</u>	One or more XML nodes are not supported.

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



StorageErrorStrings.AuthenticationFailed 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.]

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

Visual Basic

```
Public Const AuthenticationFailed As String
```

C#

```
public const string AuthenticationFailed
```

C++

```
public:  
literal String^ AuthenticationFailed
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorStrings.ConditionNotMet 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 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
```


☐ Syntax

Visual Basic

```
Public Const ConditionNotMet As String
```

C#

```
public const string ConditionNotMet
```

C++

```
public:  
literal String^ ConditionNotMet
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorStrings.ContainerAlreadyExists 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 already exists.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim value As String  
  
value = StorageErrorCodeStrings.ContainerAlreadyExists
```

☐ Syntax

Visual Basic

```
Public Const ContainerAlreadyExists As String
```

C#

```
public const string ContainerAlreadyExists
```

C++

```
public:  
literal String^ ContainerAlreadyExists
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorStrings.ContainerBeingDeleted 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 is being deleted.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorStrings.ContainerDisabled 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 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
```

☐ Syntax

Visual Basic

```
Public Const ContainerDisabled As String
```

C#

```
public const string ContainerDisabled
```

C++

```
public:  
literal String^ ContainerDisabled
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorStrings.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

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

▣ Usage

Visual Basic

```
Dim value As String  
  
value = StorageErrorCodeStrings.ContainerNotFound
```

☐ Syntax

Visual Basic

```
Public Const ContainerNotFound As String
```

C#

```
public const string ContainerNotFound
```

C++

```
public:  
literal String^ ContainerNotFound
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorStrings.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

```
Public Const EmptyMetadataKey As String
```

C#

```
public const string EmptyMetadataKey
```

C++

```
public:  
literal String^ EmptyMetadataKey
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim value As String  
  
value = StorageErrorCodeStrings.InternalError
```

☐ Syntax

Visual Basic

```
Public Const InternalError As String
```

C#

```
public const string InternalError
```

C++

```
public:  
literal String^ InternalError
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim value As String  
  
value = StorageErrorCodeStrings.InvalidHeaderValue
```

☐ Syntax

Visual Basic

```
Public Const InvalidHeaderValue As String
```

C#

```
public const string InvalidHeaderValue
```

C++

```
public:  
literal String^ InvalidHeaderValue
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorStrings.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

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

▣ Usage

Visual Basic

```
Dim value As String  
  
value = StorageErrorCodeStrings.InvalidHttpVerb
```


☐ Syntax

Visual Basic

```
Public Const InvalidHttpVerb As String
```

C#

```
public const string InvalidHttpVerb
```

C++

```
public:  
literal String^ InvalidHttpVerb
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorStrings.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

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

▣ Usage

Visual Basic

```
Dim value As String  
  
value = StorageErrorCodeStrings.InvalidInput
```

☐ Syntax

Visual Basic

```
Public Const InvalidInput As String
```

C#

```
public const string InvalidInput
```

C++

```
public:  
literal String^ InvalidInput
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorStrings.InvalidMd5 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 is invalid.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim value As String  
  
value = StorageErrorCodeStrings.InvalidMd5
```

☐ Syntax

Visual Basic

```
Public Const InvalidMd5 As String
```

C#

```
public const string InvalidMd5
```

C++

```
public:  
literal String^ InvalidMd5
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorStrings.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

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

▣ Usage

Visual Basic

```
Dim value As String  
  
value = StorageErrorStrings.InvalidMetadata
```

☐ Syntax

Visual Basic

```
Public Const InvalidMetadata As String
```

C#

```
public const string InvalidMetadata
```

C++

```
public:  
literal String^ InvalidMetadata
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorStrings.InvalidQueryParameterValue 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 invalid.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim value As String  
  
value = StorageErrorCodeStrings.InvalidQueryParameter
```

▣ Syntax

Visual Basic

```
Public Const InvalidQueryParameterValue As String
```

C#

```
public const string InvalidQueryParameterValue
```

C++

```
public:  
literal String^ InvalidQueryParameterValue
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorStrings.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

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorStrings.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

```
Dim value As String  
  
value = StorageErrorStrings.InvalidUri
```

☐ Syntax

Visual Basic

```
Public Const InvalidUri As String
```

C#

```
public const string InvalidUri
```

C++

```
public:  
literal String^ InvalidUri
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorCodeStrings.InvalidXmlDocument 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 XML document is invalid.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim value As String  
  
value = StorageErrorCodeStrings.InvalidXmlDocument
```

☐ Syntax

Visual Basic

```
Public Const InvalidXmlDocument As String
```

C#

```
public const string InvalidXmlDocument
```

C++

```
public:  
literal String^ InvalidXmlDocument
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorStrings.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

```
Dim value As String  
  
value = StorageErrorCodeStrings.InvalidXmlNodeValue
```


▣ Syntax

Visual Basic

```
Public Const InvalidXmlNodeValue As String
```

C#

```
public const string InvalidXmlNodeValue
```

C++

```
public:  
literal String^ InvalidXmlNodeValue
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorStrings.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

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

▣ Usage

Visual Basic

```
Dim value As String  
  
value = StorageErrorCodeStrings.Md5Mismatch
```

☐ Syntax

Visual Basic

```
Public Const Md5Mismatch As String
```

C#

```
public const string Md5Mismatch
```

C++

```
public:  
literal String^ Md5Mismatch
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorStrings.MetadataTooLarge 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 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

Visual Basic

```
Public Const MetadataTooLarge As String
```

C#

```
public const string MetadataTooLarge
```

C++

```
public:  
literal String^ MetadataTooLarge
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorStrings.MissingContentLengthHeader 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 Content-Length header is required for this request.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim value As String  
  
value = StorageErrorCodeStrings.MissingContentLength
```

☐ Syntax

Visual Basic

```
Public Const MissingContentLengthHeader As String
```

C#

```
public const string MissingContentLengthHeader
```

C++

```
public:  
literal String^ MissingContentLengthHeader
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorCodeStrings.MissingRequiredHeader 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 header was missing.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim value As String  
  
value = StorageErrorCodeStrings.MissingRequiredHeader
```

☐ Syntax

Visual Basic

```
Public Const MissingRequiredHeader As String
```

C#

```
public const string MissingRequiredHeader
```

C++

```
public:  
literal String^ MissingRequiredHeader
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorStrings.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

```
Dim value As String  
  
value = StorageErrorCodeStrings.MissingRequiredQueryl
```

☐ Syntax

Visual Basic

```
Public Const MissingRequiredQueryParameter As String
```

C#

```
public const string MissingRequiredQueryParameter
```

C++

```
public:  
literal String^ MissingRequiredQueryParameter
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorStrings.MissingRequiredXmlNode 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 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.MissingRequiredXmlNo
```

☐ Syntax

Visual Basic

```
Public Const MissingRequiredXmlNode As String
```

C#

```
public const string MissingRequiredXmlNode
```

C++

```
public:  
literal String^ MissingRequiredXmlNode
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorStrings.OperationTimedOut 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 operation timed out.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim value As String  
  
value = StorageErrorCodeStrings.OperationTimedOut
```

☐ Syntax

Visual Basic

```
Public Const OperationTimedOut As String
```

C#

```
public const string OperationTimedOut
```

C++

```
public:  
literal String^ OperationTimedOut
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorStrings.OutOfRangeInput 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 out of range.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim value As String  
  
value = StorageErrorCodeStrings.OutOfRangeInput
```


☐ Syntax

Visual Basic

```
Public Const OutOfRangeInput As String
```

C#

```
public const string OutOfRangeInput
```

C++

```
public:  
literal String^ OutOfRangeInput
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorStrings.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

```
Dim value As String  
  
value = StorageErrorCodeStrings.OutOfRangeQueryParam
```

☐ Syntax

Visual Basic

```
Public Const OutOfRangeQueryParameterValue As String
```

C#

```
public const string OutOfRangeQueryParameterValue
```

C++

```
public:  
literal String^ OutOfRangeQueryParameterValue
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorStrings.RequestBodyTooLarge 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 request body 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.RequestBodyTooLarge
```

☐ Syntax

Visual Basic

```
Public Const RequestBodyTooLarge As String
```

C#

```
public const string RequestBodyTooLarge
```

C++

```
public:  
literal String^ RequestBodyTooLarge
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorStrings.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

```
Dim value As String  
  
value = StorageErrorCodeStrings.ResourceNotFound
```

☐ Syntax

Visual Basic

```
Public Const ResourceNotFound As String
```

C#

```
public const string ResourceNotFound
```

C++

```
public:  
literal String^ ResourceNotFound
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorStrings.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

Visual Basic

```
Dim value As String  
  
value = StorageErrorCodeStrings.ServerBusy
```

☐ Syntax

Visual Basic

```
Public Const ServerBusy As String
```

C#

```
public const string ServerBusy
```

C++

```
public:  
literal String^ ServerBusy
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim value As String  
  
value = StorageErrorCodeStrings.UnsupportedHeader
```

☐ Syntax

Visual Basic

```
Public Const UnsupportedHeader As String
```

C#

```
public const string UnsupportedHeader
```

C++

```
public:  
literal String^ UnsupportedHeader
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorStrings.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

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

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageErrorStrings.UnsupportedQueryParameter 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 is not supported.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim value As String  
  
value = StorageErrorCodeStrings.UnsupportedQueryPara
```

☐ Syntax

Visual Basic

```
Public Const UnsupportedQueryParameter As String
```

C#

```
public const string UnsupportedQueryParameter
```

C++

```
public:  
literal String^ UnsupportedQueryParameter
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Visual Basic

```
Public Const UnsupportedXmlNode As String
```

C#

```
public const string UnsupportedXmlNode
```

C++

```
public:  
literal String^ UnsupportedXmlNode
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageErrorCodeStrings Class](#)

[StorageErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageException 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.]

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

```
Dim instance As StorageException
```

☐ Syntax

Visual Basic

```
<SerializableAttribute> _  
Public MustInherit Class StorageException  
    Inherits Exception
```

C#

```
[SerializableAttribute]  
public abstract class StorageException : Exception
```

C++

```
[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](#).

C#

 Copy Co

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[StorageException Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



StorageException 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 base class for Windows Azure storage service exceptions.

The following tables list the members exposed by the [StorageException](#) type.

▣ Protected Constructors

	Name	Description
	StorageException	Overloaded.

[Top](#)

☐ **Public Properties (see also [Protected Properties](#))**

	Name	Description
	Data	(Inherited from Exception)
	ErrorCode	Gets the specific error code returned by the service.
	ExtendedErrorInformation	Gets the extended error information returned by the service.
	HelpLink	(Inherited from Exception)
	InnerException	(Inherited from Exception)
	Message	(Inherited from Exception)
	Source	(Inherited from Exception)
	StackTrace	(Inherited from Exception)
	StatusCode	Gets the HTTP status code that was returned by the service.
	TargetSite	(Inherited from Exception)

[Top](#)

[-] Protected Properties

	Name	Description
	HResult	(Inherited from Exception)

[Top](#)

☐ **Public Methods (see also [Protected Methods](#))**

	Name	Description
	Equals	(Inherited from Object)
	GetBaseException	(Inherited from Exception)
	GetHashCode	(Inherited from Object)
	GetObjectData	Overridden. Sets the SerializationInfo object with additional exception information.
	GetType	(Inherited from Exception)
	ToString	Overridden. (Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ Protected Events

	Name	Description
	SerializeObjectState	(Inherited from Exception)

[Top](#)

▣ See Also

Reference

[StorageException Class](#)

[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.]

❏ Overload List

Name	Description
StorageException ()	Initializes a new instance of the StorageException class.
StorageException (StorageErrorCode, String, HttpStatusCode, StorageExtendedErrorInformation, Exception)	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.
StorageException (SerializationInfo, StreamingContext)	Initializes a new instance of the StorageException class with serialized data about the exception being thrown, and contextual information about the source or destination.

▣ 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

```
Protected Sub New
```

C#

```
protected StorageException ()
```

C++

```
protected:  
StorageException ()
```

J#

JScript

▣ **Remarks**

The default constructor initializes any fields to their default values.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
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, extendedErrorInfo, innerException)
```

▣ Syntax

Visual Basic

```
Protected Sub New ( _  
    errorCode As StorageErrorCode, _  
    message As String, _  
    statusCode As HttpStatusCode, _  
    extendedErrorInfo As StorageExtendedErrorInfo, _  
    innerException As Exception _  
)
```

C#

```
protected StorageException (  
    StorageErrorCode errorCode,  
    string message,  
    HttpStatusCode statusCode,  
    StorageExtendedErrorInformation extendedErrorInfo,  
    Exception innerException  
)
```

C++

```
protected:  
StorageException (  
    StorageErrorCode errorCode,  
    String^ message,  
    HttpStatusCode statusCode,  
    StorageExtendedErrorInformation^ extendedErrorInfo,  
    Exception^ innerException  
)
```

J#

JScript

Parameters

errorCode

Type: [Microsoft.WindowsAzure.StorageClient.StorageErrorCode](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageException Class](#)

[StorageException Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageException 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 [StorageException](#) class with serialized data about the exception being thrown, and contextual information about the source or destination.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim info As SerializationInfo  
Dim context As StreamingContext  
  
Dim instance As New StorageException(info, context)
```

▣ Syntax

Visual Basic

```
Protected Sub New ( _  
    info As SerializationInfo, _  
    context As StreamingContext _  
)
```

C#

```
protected StorageException (  
    SerializationInfo info,  
    StreamingContext context  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageException Class](#)

[StorageException Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageException 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](#))**

	Name	Description
	Equals	(Inherited from Object)
	GetBaseException	(Inherited from Exception)
	GetHashCode	(Inherited from Object)
	GetObjectData	Overridden. Sets the SerializationInfo object with additional exception information.
	GetType	(Inherited from Exception)
	ToString	Overridden. (Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[StorageException Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



StorageException.GetObjectData 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 **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, :  
Public Overrides Sub GetObjectData ( _  
    info As SerializationInfo, _  
    context As StreamingContext _  
)
```

C#

```
[SecurityPermissionAttribute(SecurityAction.Demand, :  
public override void GetObjectData (  
    SerializationInfo info,  
    StreamingContext context  
)
```

C++

```
[SecurityPermissionAttribute(SecurityAction::Demand,  
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageException Class](#)

[StorageException Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageException 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](#))**

	Name	Description
	Data	(Inherited from Exception)
	<u>ErrorCode</u>	Gets the specific error code returned by the service.
	<u>ExtendedErrorInformation</u>	Gets the extended error information returned by the service.
	HelpLink	(Inherited from Exception)
	InnerException	(Inherited from Exception)
	Message	(Inherited from Exception)
	Source	(Inherited from Exception)
	StackTrace	(Inherited from Exception)
	<u>StatusCode</u>	Gets the HTTP status code that was returned by the service.
	TargetSite	(Inherited from Exception)

Protected Properties

	Name	Description
	HResult	(Inherited from Exception)

▣ See Also

Reference

[StorageException Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



StorageException.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 specific error code 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 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

Type: [Microsoft.WindowsAzure.StorageClient.StorageErrorCode](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageException Class](#)

[StorageException Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageException.ExtendedErrorInformation 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 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

```
Public Property ExtendedErrorInformation As StorageE
```

C#

```
public StorageExtendedErrorInformation ExtendedError:
```

C++

```
public:  
property StorageExtendedErrorInformation^ ExtendedEr  
{  
    StorageExtendedErrorInformation^ get ();  
}
```

J#

JScript

Property Value

Type:

[Microsoft.WindowsAzure.StorageClient.StorageExtendedErrorInformation](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

	Name	Description
	SerializeObjectState	(Inherited from Exception)

▣ See Also

Reference

[StorageException Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



StorageExceptionExtensions 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.]

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)

Usage

Visual Basic

☐ Syntax

Visual Basic

```
<ExtensionAttribute> _  
Public NotInheritable Class StorageExceptionExtension
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageExceptionExtensions Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



StorageExceptionExtensions 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.]

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

	Name	Description
	TranslateDataServiceClientException	Translates a System.InvalidOperationException into a StorageException .
	TranslateWebException	Translates a System.Net.WebException into a StorageException .

[Top](#)

▣ See Also

Reference

[StorageExceptionExtensions Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



StorageExceptionExtensions 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

	Name	Description
	TranslateDataServiceClientException	Translates a System.InvalidOperationException into a StorageException .
	TranslateWebException	Translates a System.Net.WebException into a StorageException .

▣ See Also

Reference

[StorageExceptionExtensions Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



StorageExceptionExtensions.TranslateDataServiceClientException 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.]

Translates a [System.InvalidOperationException](#) into a [StorageException](#).

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim exceptionRef As InvalidOperationException  
Dim returnValue As StorageException  
  
returnValue = StorageExceptionExtensions.TranslateDa
```

▣ Syntax

Visual Basic

```
<ExtensionAttribute> _  
Public Shared Function TranslateDataServiceClientExc  
    ( _  
        exceptionRef As InvalidOperationException _  
    ) As StorageException
```

C#

```
[ExtensionAttribute]  
public static StorageException TranslateDataServiceC  
    (  
        InvalidOperationException exceptionRef  
    )
```

C++

```
[ExtensionAttribute]  
public:  
static StorageException^ TranslateDataServiceClientE  
    (  
        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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageExceptionExtensions Class](#)

[StorageExceptionExtensions Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageExceptionExtensions.TranslateWebException 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.]

Translates a [System.Net.WebException](#) into a [StorageException](#).

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim exceptionRef As WebException  
Dim returnValue As StorageException  
  
returnValue = StorageExceptionExtensions.TranslateWel
```

▣ Syntax

Visual Basic

```
<ExtensionAttribute> _  
Public Shared Function TranslateWebException ( _  
    exceptionRef As WebException _  
) As StorageException
```

C#

```
[ExtensionAttribute]  
public static StorageException TranslateWebException  
(  
    WebException exceptionRef  
)
```

C++

```
[ExtensionAttribute]  
public:  
static StorageException^ TranslateWebException (  
    WebException^ exceptionRef  
)
```

J#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As StorageExtendedErrorInformation
```

☐ Syntax

Visual Basic

```
<SerializableAttribute> _  
Public Class StorageExtendedErrorInformation
```

C#

```
[SerializableAttribute]  
public class StorageExtendedErrorInformation
```

C++

```
[SerializableAttribute]  
public ref class StorageExtendedErrorInformation
```

J#

JScript

▣ **Inheritance Hierarchy**

System.Object

Microsoft.WindowsAzure.StorageClient.StorageExtendedErrorInformati

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageExtendedErrorInformation Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



StorageExtendedErrorInformation 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 extended error information returned by the Windows Azure storage services.

The following tables list the members exposed by the [StorageExtendedErrorInformation](#) type.

▣ Public Constructors

	Name	Description
	StorageExtendedErrorInformation	

[Top](#)

▣ Public Properties

	Name	Description
	AdditionalDetails	Gets additional error details.
	ErrorCode	Gets the storage service error code.
	ErrorMessage	Gets the storage service error message.

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ 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

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

▣ Usage

Visual Basic

```
Dim instance As New StorageExtendedErrorInformation
```

☐ Syntax

Visual Basic

```
Public Sub New
```

C#

```
public StorageExtendedErrorInformation ()
```

C++

```
public:  
StorageExtendedErrorInformation ()
```

J#

JScript

▣ **Remarks**

The default constructor initializes any fields to their default values.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageExtendedErrorInformation Class](#)

[StorageExtendedErrorInformation Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageExtendedErrorInformation 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](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ 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

	Name	Description
	<u>AdditionalDetails</u>	Gets additional error details.
	<u>ErrorCode</u>	Gets the storage service error code.
	<u>ErrorMessage</u>	Gets the storage service error message.

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageExtendedErrorInformation Class](#)

[StorageExtendedErrorInformation Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageExtendedErrorInformation.ErrorMessage 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 message.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[StorageExtendedErrorInformation Class](#)

[StorageExtendedErrorInformation Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

StorageServerException 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 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

```
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 service 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[StorageServerException Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



StorageServerException Members

[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 due to a server-side error.

The following tables list the members exposed by the [StorageServerException](#) type.

▣ **Public Constructors (see also [Protected Constructors](#))**

	Name	Description
	StorageServerException	Overloaded.

[Top](#)

▣ Protected Constructors

	Name	Description
	StorageServerException	Overloaded.

[Top](#)

☐ **Public Properties (see also [Protected Properties](#))**

	Name	Description
	Data	(Inherited from Exception)
	ErrorCode	Gets the specific error code returned by the service. (Inherited from StorageException)
	ExtendedErrorInformation	Gets the extended error information returned by the service. (Inherited from StorageException)
	HelpLink	(Inherited from Exception)
	InnerException	(Inherited from Exception)
	Message	(Inherited from Exception)
	Source	(Inherited from Exception)
	StackTrace	(Inherited from Exception)
	StatusCode	Gets the HTTP status code that was returned by the service. (Inherited from StorageException)
	TargetSite	(Inherited from Exception)

[Top](#)

▣ Protected Properties

	Name	Description
	HResult	(Inherited from Exception)

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Equals	(Inherited from Object)
	GetBaseException	(Inherited from Exception)
	GetHashCode	(Inherited from Object)
	GetObjectData	Overridden. Sets the SerializationInfo object with additional exception information. (Inherited from Exception)
	GetType	(Inherited from Exception)
	ToString	Overridden. (Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ Protected Events

	Name	Description
	SerializeObjectState	(Inherited from Exception)

[Top](#)

▣ See Also

Reference

[StorageServerException Class](#)

[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.]

❏ Overload List

Name	Description
StorageServerException ()	Initializes a new instance of the StorageServerException class.
StorageServerException (SerializationInfo, StreamingContext)	Initializes a new instance of the StorageServerException class with serialized data.

▣ 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

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

Usage

Visual Basic

```
Dim instance As New StorageServerException
```

☐ Syntax

Visual Basic

```
Public Sub New
```

C#

```
public StorageServerException ()
```

C++

```
public:  
StorageServerException ()
```

J#

JScript

▣ **Remarks**

The default constructor initializes any fields to their default values.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim info As SerializationInfo  
Dim context As StreamingContext  
  
Dim instance As New StorageServerException(info, con
```

▣ Syntax

Visual Basic

```
Protected Sub New ( _  
    info As SerializationInfo, _  
    context As StreamingContext _  
)
```

C#

```
protected StorageServerException (  
    SerializationInfo info,  
    StreamingContext context  
)
```

C++

```
protected:  
StorageServerException (  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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](#))

	Name	Description
	Equals	(Inherited from Object)
	GetBaseException	(Inherited from Exception)
	GetHashCode	(Inherited from Object)
	GetObjectData	Overridden. Sets the SerializationInfo object with additional exception information. (Inherited from Exception)
	GetType	(Inherited from Exception)
	ToString	Overridden. (Inherited from Object)

Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ 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](#))**

	Name	Description
	Data	(Inherited from Exception)
	ErrorCode	Gets the specific error code returned by the service. (Inherited from StorageException)
	ExtendedErrorInformation	Gets the extended error information returned by the service. (Inherited from StorageException)
	HelpLink	(Inherited from Exception)
	InnerException	(Inherited from Exception)
	Message	(Inherited from Exception)
	Source	(Inherited from Exception)
	StackTrace	(Inherited from Exception)
	StatusCode	Gets the HTTP status code that was returned by the service. (Inherited from StorageException)
	TargetSite	(Inherited from Exception)

Protected Properties

	Name	Description
	HResult	(Inherited from Exception)

▣ 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

	Name	Description
	SerializeObjectState	(Inherited from Exception)

▣ 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

Visual Basic

```
Public NotInheritable Class TableErrorCodeStrings
```

C#

```
public static class TableErrorCodeStrings
```

C++

```
public ref class TableErrorCodeStrings abstract sealed
```

J#

JScript

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



TableErrorCodeStrings Members

[See Also](#) [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 error code strings that are specific to the Azure Table service.

The following tables list the members exposed by the [TableErrorCodeStrings](#) type.

Public Fields

	Name	Description
 	BatchOperationNotSupported	Batch operations are not supported for this operation type.
 	DuplicateKeyPropertySpecified	A duplicate key property was specified.
 	DuplicatePropertiesSpecified	A property is specified more than once.
 	EntityAlreadyExists	The specified entity already exists.
 	EntityNotFound	The specified entity was not found.
 	EntityTooLarge	The entity is larger than the maximum size permitted.
 	InvalidValueType	One or more value types are invalid.
 	JsonFormatNotSupported	JSON format is not supported.
 	MethodNotAllowed	The specified method is not allowed.
 	NotImplemented	The specified operation is not yet implemented.
 	OperatorInvalid	One or more specified operator are invalid.
 	PartitionKeyNotSpecified	The partition key was not specified.
 	PartitionKeyPropertyCannotBeUpdated	The partition key property cannot be updated.
 	PrimaryKeyPropertyIsInvalidType	The type of the primary key property is invalid.
 	PropertiesNeedValue	All properties must have values
 	PropertyNameInvalid	The property name is invalid.
 	PropertyNameTooLong	The property name exceeds the

		maximum allowed length.
 	<u>PropertyValueTooLarge</u>	The property value is larger than the maximum size permitted.
 	<u>TableAlreadyExists</u>	The specified table already exists.
 	<u>TableBeingDeleted</u>	The specified table is being deleted.
 	<u>TableHasNoProperties</u>	The specified table has no properties.
 	<u>TableHasNoSuchProperty</u>	The specified table has no such property.
 	<u>TableNotFound</u>	The specified table was not found.
 	<u>TableServerOutOfMemory</u>	The Table service server is out of memory.
 	<u>TooManyProperties</u>	The entity contains more properties than allowed.
 	<u>UpdateConditionNotSatisfied</u>	The specified update condition was not satisfied.
 	<u>XMethodIncorrectCount</u>	More than one X-HTTP-Method is specified.
 	<u>XMethodIncorrectValue</u>	The specified X-HTTP-Method is invalid.
 	<u>XMethodNotUsingPost</u>	The request uses X-HTTP-Method with an HTTP verb other than POST.

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▣ See Also

Reference

[TableErrorCodeStrings Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



TableErrorCodeStrings 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

	Name	Description
 	BatchOperationNotSupported	Batch operations are not supported for this operation type.
 	DuplicateKeyPropertySpecified	A duplicate key property was specified.
 	DuplicatePropertiesSpecified	A property is specified more than once.
 	EntityAlreadyExists	The specified entity already exists.
 	EntityNotFound	The specified entity was not found.
 	EntityTooLarge	The entity is larger than the maximum size permitted.
 	InvalidValueType	One or more value types are invalid.
 	JsonFormatNotSupported	JSON format is not supported.
 	MethodNotAllowed	The specified method is not allowed.
 	NotImplemented	The specified operation is not yet implemented.
 	OperatorInvalid	One or more specified operator are invalid.
 	PartitionKeyNotSpecified	The partition key was not specified.
 	PartitionKeyPropertyCannotBeUpdated	The partition key property cannot be updated.
 	PrimaryKeyPropertyIsInvalidType	The type of the primary key property is invalid.
 	PropertiesNeedValue	All properties must have values
 	PropertyNameInvalid	The property name is invalid.
 	PropertyNameTooLong	The property name exceeds the

		maximum allowed length.
 	<u>PropertyValueTooLarge</u>	The property value is larger than the maximum size permitted.
 	<u>TableAlreadyExists</u>	The specified table already exists.
 	<u>TableBeingDeleted</u>	The specified table is being deleted.
 	<u>TableHasNoProperties</u>	The specified table has no properties.
 	<u>TableHasNoSuchProperty</u>	The specified table has no such property.
 	<u>TableNotFound</u>	The specified table was not found.
 	<u>TableServerOutOfMemory</u>	The Table service server is out of memory.
 	<u>TooManyProperties</u>	The entity contains more properties than allowed.
 	<u>UpdateConditionNotSatisfied</u>	The specified update condition was not satisfied.
 	<u>XMethodIncorrectCount</u>	More than one X-HTTP-Method is specified.
 	<u>XMethodIncorrectValue</u>	The specified X-HTTP-Method is invalid.
 	<u>XMethodNotUsingPost</u>	The request uses X-HTTP-Method with an HTTP verb other than POST.

▣ See Also

Reference

[TableErrorCodeStrings Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



TableErrorCodeStrings.BatchOperationNotSupported 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.]

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

```
Dim value As String  
value = TableErrorCodeStrings.BatchOperationNotSupported
```

▣ Syntax

Visual Basic

```
Public Const BatchOperationNotSupported As String
```

C#

```
public const string BatchOperationNotSupported
```

C++

```
public:  
literal String^ BatchOperationNotSupported
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableErrorCodeStrings Class](#)

[TableErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

TableErrorCodeStrings.DuplicateKeyPropertySpecified 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 duplicate key property was specified.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim value As String  
value = TableErrorCodeStrings.DuplicateKeyPropertySp
```

☐ Syntax

Visual Basic

```
Public Const DuplicateKeyPropertySpecified As String
```

C#

```
public const string DuplicateKeyPropertySpecified
```

C++

```
public:  
literal String^ DuplicateKeyPropertySpecified
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableErrorCodeStrings Class](#)

[TableErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

TableErrorCodeStrings.DuplicatePropertiesSpecified 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 property is specified more than once.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim value As String  
value = TableErrorCodeStrings.DuplicatePropertiesSpec
```

▣ Syntax

Visual Basic

```
Public Const DuplicatePropertiesSpecified As String
```

C#

```
public const string DuplicatePropertiesSpecified
```

C++

```
public:  
literal String^ DuplicatePropertiesSpecified
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableErrorCodeStrings Class](#)

[TableErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

TableErrorStrings.EntityAlreadyExists 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 entity already exists.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim value As String  
  
value = TableErrorCodeStrings.EntityAlreadyExists
```

☐ Syntax

Visual Basic

```
Public Const EntityAlreadyExists As String
```

C#

```
public const string EntityAlreadyExists
```

C++

```
public:  
literal String^ EntityAlreadyExists
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableErrorCodeStrings Class](#)

[TableErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

TableErrorCodes.EntityNotFound 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 entity was not found.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim value As String  
  
value = TableErrorCodeStrings.EntityNotFound
```

☐ Syntax

Visual Basic

```
Public Const EntityNotFound As String
```

C#

```
public const string EntityNotFound
```

C++

```
public:  
literal String^ EntityNotFound
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableErrorCodeStrings Class](#)

[TableErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

TableErrorCodes.EntityTooLarge 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 is larger than the maximum size permitted.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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)

▣ Usage

Visual Basic

```
Dim value As String
```

```
value = TableErrorCodeStrings.InvalidValueType
```

☐ Syntax

Visual Basic

```
Public Const InvalidValueType As String
```

C#

```
public const string InvalidValueType
```

C++

```
public:  
literal String^ InvalidValueType
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim value As String  
  
value = TableErrorCodeStrings.JsonFormatNotSupported
```


▣ Syntax

Visual Basic

```
Public Const JsonFormatNotSupported As String
```

C#

```
public const string JsonFormatNotSupported
```

C++

```
public:  
literal String^ JsonFormatNotSupported
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableErrorCodeStrings Class](#)

[TableErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

TableErrorStrings.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

Visual Basic

```
Public Const MethodNotAllowed As String
```

C#

```
public const string MethodNotAllowed
```

C++

```
public:  
literal String^ MethodNotAllowed
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableErrorCodeStrings Class](#)

[TableErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

TableErrorCodeStrings.NotImplemented 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 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

Visual Basic

```
Public Const NotImplemented As String
```

C#

```
public const string NotImplemented
```

C++

```
public:  
literal String^ NotImplemented
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim value As String  
value = TableErrorCodeStrings.OperatorInvalid
```

☐ Syntax

Visual Basic

```
Public Const OperatorInvalid As String
```

C#

```
public const string OperatorInvalid
```

C++

```
public:  
literal String^ OperatorInvalid
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableErrorCodeStrings Class](#)

[TableErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

TableErrorCodeStrings.PartitionKeyNotSpecified 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 was not specified.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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.PartitionKeyPropertyCa
```

☐ Syntax

Visual Basic

```
Public Const PartitionKeyPropertyCannotBeUpdated As String = "Partition key property cannot be updated."
```

C#

```
public const string PartitionKeyPropertyCannotBeUpdated = "Partition key property cannot be updated."
```

C++

```
public:  
literal String^ PartitionKeyPropertyCannotBeUpdated = L"Partition key property cannot be updated."
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableErrorCodeStrings Class](#)

[TableErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

TableErrorCodeStrings.PrimaryKeyPropertyIsInvalidType 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 type of the primary key property is invalid.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim value As String
```

```
value = TableErrorCodeStrings.PrimaryKeyPropertyIsIn
```

☐ Syntax

Visual Basic

```
Public Const PrimaryKeyPropertyIsInvalidType As Stri
```

C#

```
public const string PrimaryKeyPropertyIsInvalidType
```

C++

```
public:  
literal String^ PrimaryKeyPropertyIsInvalidType
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim value As String  
  
value = TableErrorCodeStrings.PropertiesNeedValue
```

☐ Syntax

Visual Basic

```
Public Const PropertiesNeedValue As String
```

C#

```
public const string PropertiesNeedValue
```

C++

```
public:  
literal String^ PropertiesNeedValue
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableErrorCodeStrings Class](#)

[TableErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

TableErrorCodeStrings.PropertyNameInvalid 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 is invalid.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim value As String  
  
value = TableErrorCodeStrings.PropertyNameInvalid
```


☐ Syntax

Visual Basic

```
Public Const PropertyNameInvalid As String
```

C#

```
public const string PropertyNameInvalid
```

C++

```
public:  
literal String^ PropertyNameInvalid
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim value As String  
  
value = TableErrorCodeStrings.PropertyNameTooLong
```

☐ Syntax

Visual Basic

```
Public Const PropertyNameTooLong As String
```

C#

```
public const string PropertyNameTooLong
```

C++

```
public:  
literal String^ PropertyNameTooLong
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim value As String  
  
value = TableErrorCodeStrings.PropertyValueTooLarge
```

☐ Syntax

Visual Basic

```
Public Const PropertyValueTooLarge As String
```

C#

```
public const string PropertyValueTooLarge
```

C++

```
public:  
literal String^ PropertyValueTooLarge
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim value As String  
value = TableErrorCodeStrings.TableAlreadyExists
```

☐ Syntax

Visual Basic

```
Public Const TableAlreadyExists As String
```

C#

```
public const string TableAlreadyExists
```

C++

```
public:  
literal String^ TableAlreadyExists
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableErrorCodeStrings Class](#)

[TableErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

TableErrorCodeStrings.TableBeingDeleted 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 is being deleted.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim value As String  
  
value = TableErrorCodeStrings.TableBeingDeleted
```

☐ Syntax

Visual Basic

```
Public Const TableBeingDeleted As String
```

C#

```
public const string TableBeingDeleted
```

C++

```
public:  
literal String^ TableBeingDeleted
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableErrorCodeStrings Class](#)

[TableErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

TableErrorCodeStrings.TableHasNoProperties 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 properties.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim value As String  
  
value = TableErrorCodeStrings.TableHasNoProperties
```

☐ Syntax

Visual Basic

```
Public Const TableHasNoProperties As String
```

C#

```
public const string TableHasNoProperties
```

C++

```
public:  
literal String^ TableHasNoProperties
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableErrorCodeStrings Class](#)

[TableErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

TableErrorCodeStrings.TableHasNoSuchProperty 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

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

▣ Usage

Visual Basic

```
Dim value As String  
value = TableErrorCodeStrings.TableHasNoSuchProperty
```

☐ Syntax

Visual Basic

```
Public Const TableHasNoSuchProperty As String
```

C#

```
public const string TableHasNoSuchProperty
```

C++

```
public:  
literal String^ TableHasNoSuchProperty
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableErrorCodeStrings Class](#)

[TableErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

TableErrorCodeStrings.TableNotFound 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 was not found.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim value As String  
value = TableErrorCodeStrings.TableNotFound
```

☐ Syntax

Visual Basic

```
Public Const TableNotFound As String
```

C#

```
public const string TableNotFound
```

C++

```
public:  
literal String^ TableNotFound
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableErrorCodeStrings Class](#)

[TableErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

TableErrorCodeStrings.TableServerOutOfMemory 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 Table service server is out of memory.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim value As String  
  
value = TableErrorCodeStrings.TableServerOutOfMemory
```


☐ Syntax

Visual Basic

```
Public Const TableServerOutOfMemory As String
```

C#

```
public const string TableServerOutOfMemory
```

C++

```
public:  
literal String^ TableServerOutOfMemory
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableErrorCodeStrings Class](#)

[TableErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

TableErrorStrings.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

```
Dim value As String  
  
value = TableErrorCodeStrings.TooManyProperties
```

☐ Syntax

Visual Basic

```
Public Const TooManyProperties As String
```

C#

```
public const string TooManyProperties
```

C++

```
public:  
literal String^ TooManyProperties
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableErrorCodeStrings Class](#)

[TableErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

TableErrorCodeStrings.UpdateConditionNotSatisfied 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 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.UpdateConditionNotSati
```

☐ Syntax

Visual Basic

```
Public Const UpdateConditionNotSatisfied As String
```

C#

```
public const string UpdateConditionNotSatisfied
```

C++

```
public:  
literal String^ UpdateConditionNotSatisfied
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableErrorCodeStrings Class](#)

[TableErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

TableErrorCodeStrings.XMethodIncorrectCount 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.]

More than one X-HTTP-Method is specified.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim value As String  
value = TableErrorCodeStrings.XMethodIncorrectCount
```

☐ Syntax

Visual Basic

```
Public Const XMethodIncorrectCount As String
```

C#

```
public const string XMethodIncorrectCount
```

C++

```
public:  
literal String^ XMethodIncorrectCount
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableErrorCodeStrings Class](#)

[TableErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

TableErrorStrings.XMethodIncorrectValue 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 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

Visual Basic

```
Public Const XMethodIncorrectValue As String
```

C#

```
public const string XMethodIncorrectValue
```

C++

```
public:  
literal String^ XMethodIncorrectValue
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableErrorCodeStrings Class](#)

[TableErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

TableErrorCodeStrings.XMethodNotUsingPost 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 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)

▣ Usage

Visual Basic

```
Dim value As String  
  
value = TableErrorCodeStrings.XMethodNotUsingPost
```

☐ Syntax

Visual Basic

```
Public Const XMethodNotUsingPost As String
```

C#

```
public const string XMethodNotUsingPost
```

C++

```
public:  
literal String^ XMethodNotUsingPost
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableErrorCodeStrings Class](#)

[TableErrorCodeStrings Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

TableServiceContext 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 **DataServiceContext** object for use with the Windows Azure Table service.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As TableServiceContext
```

▣ Syntax

Visual Basic

```
Public Class TableServiceContext  
    Inherits DataServiceContext
```

C#

```
public class TableServiceContext : DataServiceContext
```

C++

```
public ref class TableServiceContext : public DataServiceContext
```

J#

JScript

▣ **Inheritance Hierarchy**

System.Object

System.Data.Services.Client.DataServiceContext

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableServiceContext Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



TableServiceContext 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.]

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

	Name	Description
	TableServiceContext	Initializes a new instance of the TableServiceContext class.

[Top](#)

Public Properties

	Name	Description
	ApplyingChanges	(Inherited from DataServiceContext)
	BaseUri	(Inherited from DataServiceContext)
	Credentials	(Inherited from DataServiceContext)
	DataNamespace	(Inherited from DataServiceContext)
	Entities	(Inherited from DataServiceContext)
	IgnoreMissingProperties	(Inherited from DataServiceContext)
	IgnoreResourceNotFoundException	(Inherited from DataServiceContext)
	Links	(Inherited from DataServiceContext)
	MergeOption	(Inherited from DataServiceContext)
	ResolveName	(Inherited from DataServiceContext)
	ResolveType	(Inherited from DataServiceContext)
	RetryPolicy	Gets or sets the retry policy for requests made via the service context.
	SaveChangesDefaultOptions	(Inherited from DataServiceContext)
	StorageCredentials	Gets the storage account credentials used by this TableServiceContext object.
	Timeout	(Inherited from DataServiceContext)

	TypeScheme	(Inherited from DataServiceContext)
	UsePostTunneling	(Inherited from DataServiceContext)

[Top](#)

☐ **Public Methods (see also [Protected Methods](#))**

	Name	Description
	AddLink	(Inherited from DataServiceContext)
	AddObject	(Inherited from DataServiceContext)
	AddRelatedObject	(Inherited from DataServiceContext)
	AttachLink	(Inherited from DataServiceContext)
	AttachTo	(Inherited from DataServiceContext)
	AttachTo	(Inherited from DataServiceContext)
	BeginExecute	(Inherited from DataServiceContext)
	BeginExecute	(Inherited from DataServiceContext)
	BeginExecuteBatch	(Inherited from DataServiceContext)
	BeginGetReadStream	(Inherited from DataServiceContext)
	BeginLoadProperty	(Inherited from DataServiceContext)
	BeginLoadProperty	(Inherited from DataServiceContext)
	BeginLoadProperty	(Inherited from DataServiceContext)
	BeginSaveChanges	(Inherited from DataServiceContext)
	BeginSaveChanges	(Inherited from DataServiceContext)
	BeginSaveChangesWithRetries	Overloaded.
	CancelRequest	(Inherited from DataServiceContext)
	CreateQuery	(Inherited from DataServiceContext)
	DeleteLink	(Inherited from DataServiceContext)
	DeleteObject	(Inherited from DataServiceContext)
	Detach	(Inherited from DataServiceContext)
	DetachLink	(Inherited from DataServiceContext)
	EndExecute	(Inherited from DataServiceContext)
	EndExecuteBatch	(Inherited from DataServiceContext)
	EndGetReadStream	(Inherited from DataServiceContext)
	EndLoadProperty	(Inherited from DataServiceContext)
	EndSaveChanges	(Inherited from DataServiceContext)
	EndSaveChangesWithRetries	Ends an asynchronous operation to save changes to the Table service, using the

		retry policy specified for the TableServiceContext object.
	Equals	(Inherited from Object)
	Execute	(Inherited from DataServiceContext)
	Execute	(Inherited from DataServiceContext)
	ExecuteBatch	(Inherited from DataServiceContext)
	GetEntityDescriptor	(Inherited from DataServiceContext)
	GetHashCode	(Inherited from Object)
	GetLinkDescriptor	(Inherited from DataServiceContext)
	GetMetadataUri	(Inherited from DataServiceContext)
	GetReadStream	(Inherited from DataServiceContext)
	GetReadStream	(Inherited from DataServiceContext)
	GetReadStream	(Inherited from DataServiceContext)
	GetReadStreamUri	(Inherited from DataServiceContext)
	GetType	(Inherited from Object)
	LoadProperty	(Inherited from DataServiceContext)
	LoadProperty	(Inherited from DataServiceContext)
	LoadProperty	(Inherited from DataServiceContext)
	LoadProperty	(Inherited from DataServiceContext)
	SaveChanges	(Inherited from DataServiceContext)
	SaveChanges	(Inherited from DataServiceContext)
	SaveChangesWithRetries	Overloaded.
	SetLink	(Inherited from DataServiceContext)
	SetSaveStream	(Inherited from DataServiceContext)
	SetSaveStream	(Inherited from DataServiceContext)
	ToString	(Inherited from Object)
	TryGetEntity	(Inherited from DataServiceContext)
	TryGetUri	(Inherited from DataServiceContext)
	UpdateObject	(Inherited from DataServiceContext)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

☐ **Public Events**

	Name	Description
⚡	ReadingEntity	(Inherited from DataServiceContext)
⚡	SendingRequest	(Inherited from DataServiceContext)
⚡	WritingEntity	(Inherited from DataServiceContext)

[Top](#)

▣ See Also

Reference

[TableServiceContext Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



TableServiceContext 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 [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

```
Public Sub New ( _  
    baseAddress As String, _  
    credentials As StorageCredentials _  
)
```

C#

```
public TableServiceContext (  
    string baseAddress,  
    StorageCredentials credentials  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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.]

☐ **Public Methods (see also [Protected Methods](#))**

	Name	Description
	AddLink	(Inherited from DataServiceContext)
	AddObject	(Inherited from DataServiceContext)
	AddRelatedObject	(Inherited from DataServiceContext)
	AttachLink	(Inherited from DataServiceContext)
	AttachTo	(Inherited from DataServiceContext)
	AttachTo	(Inherited from DataServiceContext)
	BeginExecute	(Inherited from DataServiceContext)
	BeginExecute	(Inherited from DataServiceContext)
	BeginExecuteBatch	(Inherited from DataServiceContext)
	BeginGetReadStream	(Inherited from DataServiceContext)
	BeginLoadProperty	(Inherited from DataServiceContext)
	BeginLoadProperty	(Inherited from DataServiceContext)
	BeginLoadProperty	(Inherited from DataServiceContext)
	BeginSaveChanges	(Inherited from DataServiceContext)
	BeginSaveChanges	(Inherited from DataServiceContext)
	BeginSaveChangesWithRetries	Overloaded.
	CancelRequest	(Inherited from DataServiceContext)
	CreateQuery	(Inherited from DataServiceContext)
	DeleteLink	(Inherited from DataServiceContext)
	DeleteObject	(Inherited from DataServiceContext)
	Detach	(Inherited from DataServiceContext)
	DetachLink	(Inherited from DataServiceContext)
	EndExecute	(Inherited from DataServiceContext)
	EndExecuteBatch	(Inherited from DataServiceContext)
	EndGetReadStream	(Inherited from DataServiceContext)
	EndLoadProperty	(Inherited from DataServiceContext)
	EndSaveChanges	(Inherited from DataServiceContext)
	EndSaveChangesWithRetries	Ends an asynchronous operation to save changes to the Table service, using the

		retry policy specified for the TableServiceContext object.
	Equals	(Inherited from Object)
	Execute	(Inherited from DataServiceContext)
	Execute	(Inherited from DataServiceContext)
	ExecuteBatch	(Inherited from DataServiceContext)
	GetEntityDescriptor	(Inherited from DataServiceContext)
	GetHashCode	(Inherited from Object)
	GetLinkDescriptor	(Inherited from DataServiceContext)
	GetMetadataUri	(Inherited from DataServiceContext)
	GetReadStream	(Inherited from DataServiceContext)
	GetReadStream	(Inherited from DataServiceContext)
	GetReadStream	(Inherited from DataServiceContext)
	GetReadStreamUri	(Inherited from DataServiceContext)
	GetType	(Inherited from Object)
	LoadProperty	(Inherited from DataServiceContext)
	LoadProperty	(Inherited from DataServiceContext)
	LoadProperty	(Inherited from DataServiceContext)
	LoadProperty	(Inherited from DataServiceContext)
	SaveChanges	(Inherited from DataServiceContext)
	SaveChanges	(Inherited from DataServiceContext)
	SaveChangesWithRetries	Overloaded.
	SetLink	(Inherited from DataServiceContext)
	SetSaveStream	(Inherited from DataServiceContext)
	SetSaveStream	(Inherited from DataServiceContext)
	ToString	(Inherited from Object)
	TryGetEntity	(Inherited from DataServiceContext)
	TryGetUri	(Inherited from DataServiceContext)
	UpdateObject	(Inherited from DataServiceContext)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[TableServiceContext Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



TableServiceContext.BeginSaveChangesWithRetries 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

Name	Description
<u>TableServiceContext.BeginSaveChangesWithRetries (AsyncCallback, Object)</u>	Begins an asynchronous operation to save changes to the Table service, using the retry policy specified for the <u>TableServiceContext</u> object.
<u>TableServiceContext.BeginSaveChangesWithRetries (SaveChangesOptions, AsyncCallback, Object)</u>	Begins an asynchronous operation to save changes to the Table service, using the retry policy specified for the <u>TableServiceContext</u> object, and a set of specified additional options for saving changes.

▣ See Also

Reference

[TableServiceContext Class](#)

[TableServiceContext Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

TableServiceContext.BeginSaveChangesWithRetries 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 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(c
```

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ 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(o
```

▣ Syntax

Visual Basic

```
Public Function BeginSaveChangesWithRetries ( _  
    options As SaveChangesOptions, _  
    callback As AsyncCallback, _  
    state As Object _  
) As IAsyncResult
```

C#

```
public IAsyncResult BeginSaveChangesWithRetries (  
    SaveChangesOptions options,  
    AsyncCallback callback,  
    Object state  
)
```

C++

```
public:  
IAsyncResult^ BeginSaveChangesWithRetries (  
    SaveChangesOptions options,  
    AsyncCallback^ callback,  
    Object^ state  
)
```

J#

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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

```
Dim instance As TableServiceContext  
Dim asyncResult As IAsyncResult  
Dim returnValue As DataServiceResponse  
  
returnValue = instance.EndSaveChangesWithRetries(asy
```

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableServiceContext Class](#)

[TableServiceContext Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

TableServiceContext.SaveChangesWithRetries 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

Name	Description
TableServiceContext.SaveChangesWithRetries()	Saves changes to the Table service, using the retry policy specified for the TableServiceContext object.
TableServiceContext.SaveChangesWithRetries(SaveChangesOptions)	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.

▣ See Also

Reference

[TableServiceContext Class](#)

[TableServiceContext Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

TableServiceContext.SaveChangesWithRetries 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.]

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

```
Dim instance As TableServiceContext  
Dim returnValue As DataServiceResponse  
  
returnValue = instance.SaveChangesWithRetries
```

▣ Syntax

Visual Basic

```
Public Function SaveChangesWithRetries As DataServiceResponse
```

C#

```
public DataServiceResponse SaveChangesWithRetries ()
```

C++

```
public:  
DataServiceResponse^ SaveChangesWithRetries ()
```

J#

JScript

Return Value

Type: [System.Data.Services.Client.DataServiceResponse](#)

A **DataServiceResponse** that represents the result of the operation.

▣ Example

The following code example inserts an entity into a table.

```
public static void InsertContact(CloudTableClient tableClient,
    string cellPhone, string homePhone, string streetAddress,
    string firstName, string lastName, string email, 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);

    // Row key is value of first name, with GUID appended.
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

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(option:
```


▣ 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

Type: [System.Data.Services.Client.DataServiceResponse](#)

A **DataServiceResponse** that represents the result of the operation.

▣ Example

The following code example takes a [DataTable](#) object and writes the data in it to a table, using batch operations.

```
// Bulk insert contacts from a DataTable object.
public static void BulkInsertContacts(DataTable dt)
{
    // Ensure that the data table will be filtered correctly.
    dt.CaseSensitive = false;

    // Add the data to the Contacts table using batch insert
    // whose first name starts with the same letter (A-Z).
    for (char c = 'A'; c <= 'Z'; c++)
    {
        // Select all rows where FirstName begins with c.
        DataRow[] rows = dt.Select("FirstName LIKE '" + c + "%'");

        // Get data context.
        TableServiceContext context = tableClient.GetTableContext();

        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() : null;
            contact.Email = dt.Columns.Contains("Email") ? row["Email"].ToString() : null;
            contact.CellPhone = dt.Columns.Contains("CellPhone") ? row["CellPhone"].ToString() : null;
            contact.HomePhone = dt.Columns.Contains("HomePhone") ? row["HomePhone"].ToString() : null;
            contact.StreetAddress = dt.Columns.Contains("StreetAddress") ? row["StreetAddress"].ToString() : null;
            contact.City = dt.Columns.Contains("City") ? row["City"].ToString() : null;
            contact.State = dt.Columns.Contains("State") ? row["State"].ToString() : null;
```

```

        contact.ZipCode = dt.Columns.Contains("ZipCode") ? dt.Rows[i].Field<int>("ZipCode") : 0;
        contact.PartitionKey = c.ToString();
        contact.RowKey = contact.FirstName + "_" + contact.LastName;

        // Add the entity.
        context.AddObject("Contacts", contact);

        // Increment the counter.
        i++;

        // Batch supports only 100 transactions :
        // submit the transaction and keep going
        if (i == 100)
        {
            // Save changes, using the Batch option.
            context.SaveChangesWithRetries(System.Data.SqlClient.SqlBatchSize);

            // Reset the counter.
            i = 0;
        }
    }

    // Save changes, using the Batch option.
    context.SaveChangesWithRetries(System.Data.SqlClient.SqlBatchSize);
}

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[TableServiceContext Class](#)

[TableServiceContext Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

TableServiceContext 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

	Name	Description
	ApplyingChanges	(Inherited from DataServiceContext)
	BaseUri	(Inherited from DataServiceContext)
	Credentials	(Inherited from DataServiceContext)
	DataNamespace	(Inherited from DataServiceContext)
	Entities	(Inherited from DataServiceContext)
	IgnoreMissingProperties	(Inherited from DataServiceContext)
	IgnoreResourceNotFoundException	(Inherited from DataServiceContext)
	Links	(Inherited from DataServiceContext)
	MergeOption	(Inherited from DataServiceContext)
	ResolveName	(Inherited from DataServiceContext)
	ResolveType	(Inherited from DataServiceContext)
	RetryPolicy	Gets or sets the retry policy for requests made via the service context.
	SaveChangesDefaultOptions	(Inherited from DataServiceContext)
	StorageCredentials	Gets the storage account credentials used by this TableServiceContext object.
	Timeout	(Inherited from DataServiceContext)

	TypeScheme	(Inherited from DataServiceContext)
	UsePostTunneling	(Inherited from DataServiceContext)

▣ See Also

Reference

[TableServiceContext Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



TableServiceContext.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 requests made via the service context.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As TableServiceContext  
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.

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableServiceContext Class](#)

[TableServiceContext Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

TableServiceContext.StorageCredentials 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 account credentials used by this [TableServiceContext](#) object.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
Dim instance As TableServiceContext  
Dim value As StorageCredentials  
  
value = instance.StorageCredentials
```

▣ Syntax

Visual Basic

```
Public Property StorageCredentials As StorageCredent:
```

C#

```
public StorageCredentials StorageCredentials { get; }
```

C++

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

J#

JScript

Property Value

Type: [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableServiceContext Class](#)

[TableServiceContext Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

TableServiceContext 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

	Name	Description
⚡	ReadingEntity	(Inherited from DataServiceContext)
⚡	SendingRequest	(Inherited from DataServiceContext)
⚡	WritingEntity	(Inherited from DataServiceContext)

▣ See Also

Reference

[TableServiceContext Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



TableServiceEntity 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 an entity in a Windows Azure table.

Namespace: Microsoft.WindowsAzure.StorageClient

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

Usage

Visual Basic

```
Dim instance As TableServiceEntity
```


☐ Syntax

Visual Basic

```
<DataServiceKeyAttribute(System.String[])> _  
<CLSCompliantAttribute(False)> _  
Public MustInherit Class TableServiceEntity
```

C#

```
[DataServiceKeyAttribute(System.String[])]  
[CLSCompliantAttribute(false)]  
public abstract class TableServiceEntity
```

C++

```
[DataServiceKeyAttribute(System.String[])]  
[CLSCompliantAttribute(false)]  
public ref class TableServiceEntity abstract
```

J#

JScript

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

	Name	Description
	TableServiceEntity	Overloaded.

[Top](#)

▣ Public Properties

	Name	Description
	PartitionKey	Gets or sets the partition key of a table entity.
	RowKey	Gets or sets the row key of a table entity.
	Timestamp	Gets the timestamp for the entity.

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ See Also

Reference

[TableServiceEntity Class](#)

[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.]

☐ Overload List

Name	Description
TableServiceEntity ()	Initializes a new instance of the TableServiceEntity class.
TableServiceEntity (String, String)	Initializes a new instance of the TableServiceEntity Class using a partition key and a row key.

▣ 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

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

Usage

Visual Basic

```
Dim instance As New TableServiceEntity
```


Syntax

Visual Basic

```
Protected Sub New
```

C#

```
protected TableServiceEntity ()
```

C++

```
protected:  
TableServiceEntity ()
```

J#

JScript

▣ **Remarks**

The default constructor initializes any fields to their default values.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

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

▣ Usage

Visual Basic

```
Dim partitionKey As String  
Dim rowKey As String  
  
Dim instance As New TableServiceEntity(partitionKey,
```

▣ Syntax

Visual Basic

```
Protected Sub New ( _  
    partitionKey As String, _  
    rowKey As String _  
)
```

C#

```
protected TableServiceEntity (  
    string partitionKey,  
    string rowKey  
)
```

C++

```
protected:  
TableServiceEntity (  
    String^ partitionKey,  
    String^ rowKey  
)
```

J#

JScript

Parameters

partitionKey

Type: [System.String](#)

The partition key.

rowKey

Type: [System.String](#)

The row key.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[TableServiceEntity Class](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



TableServiceEntity 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

	Name	Description
	PartitionKey	Gets or sets the partition key of a table entity.
	RowKey	Gets or sets the row key of a table entity.
	Timestamp	Gets the timestamp for the entity.

▣ 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

```
Dim instance As TableServiceEntity  
Dim value As String  
  
value = instance.PartitionKey  
  
instance.PartitionKey = value
```

▣ Syntax

Visual Basic

```
Public Overridable Property PartitionKey As String
```

C#

```
public virtual string PartitionKey { get; set; }
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableServiceEntity Class](#)

[TableServiceEntity Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

TableServiceEntity.RowKey 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 row key of a table entity.

Namespace: Microsoft.WindowsAzure.StorageClient

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

▣ Usage

Visual Basic

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ 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

Visual Basic

```
Public Property Timestamp As DateTime
```

C#

```
public DateTime Timestamp { get; set; }
```

C++

```
public:  
property DateTime Timestamp {  
    DateTime get ();  
    void set (DateTime value);  
}
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableServiceEntity Class](#)

[TableServiceEntity Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

TableServiceExtensionMethods 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 extensions for the Table service.

Namespace: Microsoft.WindowsAzure.StorageClient

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

Usage

Visual Basic

☐ Syntax

Visual Basic

```
<ExtensionAttribute> _  
Public NotInheritable Class TableServiceExtensionMetl
```

C#

```
[ExtensionAttribute]  
public static class TableServiceExtensionMethods
```

C++

```
[ExtensionAttribute]  
public ref class TableServiceExtensionMethods abstra
```

J#

JScript

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableServiceExtensionMethods Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)



TableServiceExtensionMethods 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 extensions for the Table service.

The following tables list the members exposed by the [TableServiceExtensionMethods](#) type.

Public Methods

	Name	Description
	AsTableServiceQuery	Converts a query of type DataServiceQuery to a CloudTableQuery object that handles continuation tokens and retries failed calls to the Table service

[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

	Name	Description
	AsTableServiceQuery	Converts a query of type DataServiceQuery to a CloudTableQuery object that handles continuation tokens and retries failed calls to the Table service

▣ 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

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

▣ Usage

Visual Basic

```
Dim query As IQueryable(Of TElement)  
Dim returnValue As CloudTableQuery(Of TElement)  
  
returnValue = TableServiceExtensionMethods.AsTableSe
```

▣ Syntax

Visual Basic

```
<ExtensionAttribute> _  
Public Shared Function AsTableServiceQuery(Of TElemen  
t) ( _  
    query As IQueryable(Of TElement) _  
) As CloudTableQuery(Of TElement)
```

C#

```
[ExtensionAttribute]  
public static CloudTableQuery<TElement> AsTableServic  
    IQueryable<TElement> query  
)
```

C++

```
[ExtensionAttribute]  
public:  
generic<typename TElement>  
static CloudTableQuery<TElement>^ AsTableServiceQuer  
(  
    IQueryable<TElement>^ query  
)
```

J#

JSscript

GenericParameters

TElement

The type of the element.

Parameters

query

Type: [System.Linq.IQueryable](#)

A [DataServiceQuery](#) object.

Return Value

Type: Microsoft.WindowsAzure.StorageClient.CloudTableQuery

A [CloudTableQuery](#) object.

▣ Example

The following code example queries entities using a simulated LIKE clause.

C#

```
// Get contacts filtered by prefix.
public static List<ContactEntity> GetContactsByPrefix(
{
    // Get data context.
    TableServiceContext context = tableClient.GetDataServiceContext();

    CloudTableQuery<ContactEntity> query;

    // Query entities to return names beginning with prefix.
    // 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>(tableClient.Table)
            .Where(e => (e.FirstName.CompareTo(prefixChar) < 0)
                && e.FirstName.CompareTo(nextChar) > 0)
            .AsTableServiceQuery<ContactEntity>();
    }
    else
    {
        query = context.CreateQuery<ContactEntity>(tableClient.Table);
    }

    // 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

Change History

▣ See Also

Reference

[TableServiceExtensionMethods Class](#)

[TableServiceExtensionMethods Members](#)

[Microsoft.WindowsAzure.StorageClient Namespace](#)

Microsoft.WindowsAzure.StorageClient.Protocol 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 **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](#).

▣ Classes

Class	Description
AccessPolicyResponse	Parses the response XML from an operation to set the access policy for a container.
BlobContainerEntry	Represents a container item returned in the XML response for a container listing operation.
BlobEntry	Represents a blob item returned in the XML response for a blob listing operation.
BlobListingContext	Provides a set of parameters for a blob listing operation.
BlobPrefixEntry	Represents the blob name prefix that is returned in the XML response for a blob listing operation.
BlobRequest	Provides a set of methods for constructing requests for blob operations.
BlobResponse	Provides a set of methods for parsing responses from blob operations.
CanonicalizationStrategy	Represents the base canonicalization strategy used to authenticate a request against the storage services.
ContainerRequest	Provides a set of methods for constructing requests for container operations.
ContainerResponse	Provides a set of methods for parsing responses from container operations.
Credentials	Represents the credentials used to sign a request against the storage services.
GetBlockListResponse	Provides methods for parsing the response from an operation to return a block list.
GetMessagesResponse	Provides methods for parsing the response from an operation to get messages from a queue.
	Provides methods for parsing the response

GetPageRangesResponse	from an operation to get a range of pages for a page blob.
ListBlobsResponse	Provides methods for parsing the response from a blob listing operation.
ListContainersResponse	Provides methods for parsing the response from a container listing operation.
ListingContext	Represents the listing context for enumeration operations.
ListQueuesResponse	Provides methods for parsing the response from a queue listing operation.
LoggingProperties	The logging properties for Windows Azure Storage Analytics.
MetricsProperties	Indicates the metrics properties for Windows Azure Storage Analytics.
PeekMessagesResponse	Provides methods for parsing the response from an operation to peek messages from a queue.
PutBlockListItem	Represents a block in a block list.
PutPageProperties	Represents properties for writing to a page blob.
QueueEntry	Represents a queue item returned in the XML response for a queue listing operation.
QueueMessage	Represents a message retrieved from a queue.
QueueRequest	Provides a set of methods for constructing requests for queue operations.
QueueResponse	Provides a set of methods for parsing responses from queue operations.
ResourceConsumedException	The exception that is thrown if the client attempts to parse the response a second time.
ResponseParsingBase	Provides a base class that is used internally to parse XML streams from storage service operations.

ServiceProperties	Specifies the logging, metrics, and default service version for a storage service.
SharedKeyCanonicalizer	Provides an implementation of the CanonicalizationStrategy class for request against the Blob or Queue services under the Shared Key authentication scheme.
SharedKeyLiteCanonicalizer	Provides an implementation of the CanonicalizationStrategy class for the Blob and Queue services for use with the Shared Key Lite authentication scheme.
SharedKeyLiteTableCanonicalizer	Provides an implementation of the CanonicalizationStrategy class for the Table service for use with the Shared Key Lite authentication scheme.
SharedKeyTableCanonicalizer	Provides an implementation of the CanonicalizationStrategy class for the Table service for use with the Shared Key authentication scheme.
TableRequest	Provides a set of methods for constructing requests for table operations.
TableResponse	Provides a set of methods for parsing responses from Table operations.

▣ Interfaces

Interface	Description
IListBlobEntry	Defines an interface for blob items that are returned in the XML response for a blob listing operation.

■ Enumerations

Enumeration	Description
BlockSearchMode	Indicates which block lists should be searched to find a specified block.
ConditionHeaderKind	Specifies the kinds of conditional headers that may be set for a request.
LeaseAction	Describes actions that can be performed on a lease.
LoggingOperations	Indicates the types of operations to log.
MetricsLevel	Indicates the type of metrics to generate.
PageWrite	Describes actions that may be used for writing to a page blob or clearing a set of pages.



AccessPolicyResponse 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.]

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)

Usage

Visual Basic

```
Dim instance As AccessPolicyResponse
```

▣ Syntax

Visual Basic

```
Public Class AccessPolicyResponse  
    Inherits ResponseParsingBase(Of KeyValuePair
```

C#

```
public class AccessPolicyResponse : ResponseParsingBase
```

C++

```
public ref class AccessPolicyResponse : 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

[Microsoft.WindowsAzure.StorageClient.Protocol.ResponseParsingBase](#)

Microsoft.WindowsAzure.StorageClient.Protocol.AccessPolicyResponse

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[AccessPolicyResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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 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.]

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

	Name	Description
	<u>allObjectsParsed</u>	Indicates that all parsable objects have been consumed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>outstandingObjectsToParse</u>	Stores any objects that have not yet been parsed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>reader</u>	(Inherited from <u>ResponseParsingBase</u>)

[Top](#)

▣ **Public Properties (see also [Protected Properties](#))**

	Name	Description
	AccessIdentifiers	Gets an enumerable collection of container-level access policy identifiers.

[Top](#)

▣ Protected Properties

	Name	Description
	ObjectsToParse	Gets the parsable objects. This method is reserved and should not be used. (Inherited from ResponseParsingBase)

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)
	ParseXml	Overridden. Parses the response XML from a Set Container ACL operation to retrieve container-level access policy data.
	Variable	This method is reserved and should not be used. (Inherited from ResponseParsingBase)

[Top](#)

▣ See Also

Reference

[AccessPolicyResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.]

☐ Protected Fields

	Name	Description
	<u>allObjectsParsed</u>	Indicates that all parsable objects have been consumed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>outstandingObjectsToParse</u>	Stores any objects that have not yet been parsed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>reader</u>	(Inherited from <u>ResponseParsingBase</u>)

▣ See Also

Reference

[AccessPolicyResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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](#))

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)
	ParseXml	Overridden. Parses the response XML from a Set Container ACL operation to retrieve container-level access policy data.
	Variable	This method is reserved and should not be used. (Inherited from ResponseParsingBase)

▣ See Also

Reference

[AccessPolicyResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.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 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

```
Dim returnValue As IEnumerable(Of KeyValuePair(Of String, String))  
returnValue = Me.ParseXml
```

▣ Syntax

Visual Basic

```
Protected Overrides Function ParseXml As IEnumerable
```

C#

```
protected override IEnumerable<KeyValuePair<string, S
```

C++

```
protected:  
virtual IEnumerable<KeyValuePair<String^, SharedAcce
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[AccessPolicyResponse Class](#)

[AccessPolicyResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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 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](#))**

	Name	Description
	AccessIdentifiers	Gets an enumerable collection of container-level access policy identifiers.

▣ Protected Properties

	Name	Description
	<u>ObjectsToParse</u>	Gets the parsable objects. This method is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)

▣ See Also

Reference

[AccessPolicyResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.AccessIdentifiers 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 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

Visual Basic

```
Public ReadOnly Property AccessIdentifiers As IEnumerable
```

C#

```
public IEnumerable<KeyValuePair<string, SharedAccessPo
```

C++

```
public:  
property IEnumerable<KeyValuePair<String^, SharedAcc  
{  
    IEnumerable<KeyValuePair<String^, SharedAcce  
}
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[AccessPolicyResponse Class](#)

[AccessPolicyResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

[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 container item returned in the XML response for a container listing operation.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

Usage

Visual Basic

```
Dim instance As BlobContainerEntry
```

▣ Syntax

Visual Basic

```
Public Class BlobContainerEntry
```

C#

```
public class BlobContainerEntry
```

C++

```
public ref class BlobContainerEntry
```

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

Microsoft.WindowsAzure.StorageClient.Protocol.BlobContainerEntry

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobContainerEntry Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[List Containers \(REST API\)](#)

[Operations on Containers](#)

BlobContainerEntry 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 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

	Name	Description
	Attributes	Gets the attributes for this container item.

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ See Also

Reference

[BlobContainerEntry Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[BlobContainerEntry Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

	Name	Description
	<u>Attributes</u>	Gets the attributes for this container item.

▣ See Also

Reference

[BlobContainerEntry Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
Dim instance As BlobContainerEntry  
Dim value As BlobContainerAttributes  
  
value = instance.Attributes
```

▣ Syntax

Visual Basic

```
Public Property Attributes As BlobContainerAttributes
```

C#

```
public BlobContainerAttributes Attributes { get; }
```

C++

```
public:  
property BlobContainerAttributes^ Attributes {  
    BlobContainerAttributes^ get ();  
}
```

J#

JScript

Property Value

Type: [Microsoft.WindowsAzure.StorageClient.BlobContainerAttributes](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobContainerEntry Class](#)

[BlobContainerEntry Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

Usage

Visual Basic

```
Dim instance As BlobEntry
```


▣ Syntax

Visual Basic

```
Public Class BlobEntry  
    Implements IListBlobEntry
```

C#

```
public class BlobEntry : IListBlobEntry
```

C++

```
public ref class BlobEntry : IListBlobEntry
```

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

Microsoft.WindowsAzure.StorageClient.Protocol.BlobEntry

☐ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobEntry Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[List Blobs \(REST API\)](#)

[Get Blob Properties \(REST API\)](#)

[Get Blob Metadata \(REST API\)](#)

BlobEntry 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 item returned in the XML response for a blob listing operation.

The following tables list the members exposed by the [BlobEntry](#) type.

▣ **Public Properties**

	Name	Description
	Attributes	Gets the attributes for this blob item.
	Name	Gets the name of the blob item.

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ See Also

Reference

[BlobEntry Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[BlobEntry Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[List Blobs \(REST API\)](#)

[Get Blob Properties \(REST API\)](#)

[Get Blob Metadata \(REST API\)](#)

BlobEntry 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

	Name	Description
	Attributes	Gets the attributes for this blob item.
	Name	Gets the name of the blob item.

▣ See Also

Reference

[BlobEntry Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
Dim instance As BlobEntry  
Dim value As BlobAttributes  
  
value = instance.Attributes
```

▣ Syntax

Visual Basic

Public 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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobEntry Class](#)

[BlobEntry Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobEntry Class](#)

[BlobEntry Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[List Blobs \(REST API\)](#)

[Get Blob Properties \(REST API\)](#)

[Get Blob Metadata \(REST API\)](#)

BlobListingContext 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 parameters 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 BlobListingContext
```

☐ Syntax

Visual Basic

```
Public Class BlobListingContext  
    Inherits ListingContext
```

C#

```
public class BlobListingContext : ListingContext
```

C++

```
public ref class BlobListingContext : public ListingContext
```

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

[Microsoft.WindowsAzure.StorageClient.Protocol.ListingContext](#)

Microsoft.WindowsAzure.StorageClient.Protocol.BlobListingContext

☐ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobListingContext Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[List Blobs \(REST API\)](#)

BlobListingContext 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.]

Provides a set of parameters for a blob listing operation.

The following tables list the members exposed by the [BlobListingContext](#) type.

▣ Public Constructors

Name	Description
BlobListingContext	Initializes a new instance of the BlobListingContext class.

[Top](#)

▣ Public Properties

	Name	Description
	Delimiter	Gets or sets the delimiter for a blob listing operation.
	Include	Gets or sets the details for the listing operation, which indicates the types of data to include in the response.
	Marker	Gets or sets the Marker value. (Inherited from ListingContext)
	MaxResults	Gets or sets the MaxResults value. (Inherited from ListingContext)
	Prefix	Gets or sets the Prefix value. (Inherited from ListingContext)

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ See Also

Reference

[BlobListingContext Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim prefix As String  
Dim maxResults As Nullable(Of Integer)  
Dim delimiter As String  
Dim include As BlobListingDetails  
  
Dim instance As New BlobListingContext(prefix, maxRe:
```


▣ Syntax

Visual Basic

```
Public Sub New ( _  
    prefix As String, _  
    maxResults As Nullable(Of Integer), _  
    delimiter As String, _  
    include As BlobListingDetails _  
)
```

C#

```
public BlobListingContext (  
    string prefix,  
    Nullable<int> maxResults,  
    string delimiter,  
    BlobListingDetails include  
)
```

C++

```
public:  
BlobListingContext (  
    String^ prefix,  
    Nullable<int> maxResults,  
    String^ delimiter,  
    BlobListingDetails include  
)
```

J#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobListingContext Class](#)

[BlobListingContext Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.]

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[BlobListingContext Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

	Name	Description
	Delimiter	Gets or sets the delimiter for a blob listing operation.
	Include	Gets or sets the details for the listing operation, which indicates the types of data to include in the response.
	Marker	Gets or sets the Marker value. (Inherited from ListingContext)
	MaxResults	Gets or sets the MaxResults value. (Inherited from ListingContext)
	Prefix	Gets or sets the Prefix value. (Inherited from ListingContext)

▣ See Also

Reference

[BlobListingContext Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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)

▣ Usage

Visual Basic

```
Dim instance As BlobListingContext  
Dim value As String  
  
value = instance.Delimiter  
  
instance.Delimiter = value
```

▣ Syntax

Visual Basic

```
Public Property Delimiter As String
```

C#

```
public string Delimiter { get; set; }
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobListingContext Class](#)

[BlobListingContext Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim instance As BlobListingContext  
Dim value As BlobListingDetails  
  
value = instance.Include  
  
instance.Include = value
```

▣ Syntax

Visual Basic

Public Property Include As **BlobListingDetails**

C#

```
public BlobListingDetails Include { get; set; }
```

C++

```
public:  
property BlobListingDetails Include {  
    BlobListingDetails get ();  
    void set (BlobListingDetails value);  
}
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobListingContext Class](#)

[BlobListingContext Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[List Blobs \(REST API\)](#)

BlobPrefixEntry 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 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

```
Dim instance As BlobPrefixEntry
```

▣ Syntax

Visual Basic

```
Public Class BlobPrefixEntry  
    Implements IListBlobEntry
```

C#

```
public class BlobPrefixEntry : IListBlobEntry
```

C++

```
public ref class BlobPrefixEntry : IListBlobEntry
```

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

Microsoft.WindowsAzure.StorageClient.Protocol.BlobPrefixEntry

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobPrefixEntry Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Enumerating Blob Resources \(REST API\)](#)

[Filtering List Results](#)

BlobPrefixEntry 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 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**

	Name	Description
	BlobPrefixEntry	

[Top](#)

▣ Public Properties

	Name	Description
	Name	Gets the blob name prefix.

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ See Also

Reference

[BlobPrefixEntry Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Enumerating Blob Resources \(REST API\)](#)

[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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

Usage

Visual Basic

```
Dim instance As New BlobPrefixEntry
```

Syntax

Visual Basic

```
Public Sub New
```

C#

```
public BlobPrefixEntry ()
```

C++

```
public:  
BlobPrefixEntry ()
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobPrefixEntry Class](#)

[BlobPrefixEntry Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Enumerating Blob Resources \(REST API\)](#)

[Filtering List Results](#)

BlobPrefixEntry 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](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[BlobPrefixEntry Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Enumerating Blob Resources \(REST API\)](#)

[Filtering List Results](#)

BlobPrefixEntry 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

	Name	Description
	Name	Gets the blob name prefix.

▣ See Also

Reference

[BlobPrefixEntry Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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)

▣ Usage

Visual Basic

```
Dim instance As BlobPrefixEntry  
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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobPrefixEntry Class](#)

[BlobPrefixEntry Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Enumerating Blob Resources \(REST API\)](#)

[Filtering List Results](#)

BlobRequest 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 blob operations.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

Usage

Visual Basic

☐ Syntax

Visual Basic

```
Public NotInheritable Class BlobRequest
```

C#

```
public static class BlobRequest
```

C++

```
public ref class BlobRequest abstract sealed
```

J#

JScript

▣ **Inheritance Hierarchy**

System.Object

Microsoft.WindowsAzure.StorageClient.Protocol.BlobRequest

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

BlobRequest 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 blob operations.

The following tables list the members exposed by the [BlobRequest](#) type.

Public Methods

	Name	Description
	AddConditional	Overloaded.
	AddMetadata	Overloaded.
	CopyFrom	Constructs a web request to copy a blob.
	Delete	Constructs a web request to delete a blob.
	Get	Overloaded.
	GetBlockList	Constructs a web request to return the list of blocks for a block blob.
	GetMetadata	Constructs a web request to return the user-defined metadata for the blob.
	GetPageRanges	Constructs a web request to return the list of active page ranges for a page blob.
	GetProperties	Constructs a web request to return the blob's system properties.
	GetServiceProperties	Gets the properties of an account's Blob service.
	Lease	Constructs a web request to use to acquire, renew, release or break the lease for the blob.
	List	Constructs a web request to return a listing of all blobs in the container.
	Put	Constructs a web request to create a new block blob or page blob, or to update the content of an existing block blob.
	PutBlock	Constructs a web request to write a block to a block blob.
	PutBlockList	Constructs a web request to create or update a blob by committing a block list.
	PutPage	Constructs a web request to write or clear a range of pages in a page blob.
	SetMetadata	Constructs a web request to set user-

		defined metadata for the blob.
	<u>SetProperties</u>	Constructs a web request to set system properties for a blob.
	<u>SetServiceProperties</u>	Sets the properties of an account's Blob service.
	<u>SignRequest</u>	Signs the request for Shared Key authentication.
	<u>SignRequestForSharedKeyLite</u>	Signs the request for Shared Key Lite authentication.
	<u>Snapshot</u>	Constructs a web request to create a snapshot of a blob.
	<u>WriteBlockListBody</u>	Writes the body of the block list to the specified stream in XML format.
	<u>WriteServiceProperties</u>	Writes the Blob service properties to an output stream.

[Top](#)

▣ See Also

Reference

[BlobRequest Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

BlobRequest 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

	Name	Description
	AddConditional	Overloaded.
	AddMetadata	Overloaded.
	CopyFrom	Constructs a web request to copy a blob.
	Delete	Constructs a web request to delete a blob.
	Get	Overloaded.
	GetBlockList	Constructs a web request to return the list of blocks for a block blob.
	GetMetadata	Constructs a web request to return the user-defined metadata for the blob.
	GetPageRanges	Constructs a web request to return the list of active page ranges for a page blob.
	GetProperties	Constructs a web request to return the blob's system properties.
	GetServiceProperties	Gets the properties of an account's Blob service.
	Lease	Constructs a web request to use to acquire, renew, release or break the lease for the blob.
	List	Constructs a web request to return a listing of all blobs in the container.
	Put	Constructs a web request to create a new block blob or page blob, or to update the content of an existing block blob.
	PutBlock	Constructs a web request to write a block to a block blob.
	PutBlockList	Constructs a web request to create or update a blob by committing a block list.
	PutPage	Constructs a web request to write or clear a range of pages in a page blob.
	SetMetadata	Constructs a web request to set user-

		defined metadata for the blob.
	<u>SetProperties</u>	Constructs a web request to set system properties for a blob.
	<u>SetServiceProperties</u>	Sets the properties of an account's Blob service.
	<u>SignRequest</u>	Signs the request for Shared Key authentication.
	<u>SignRequestForSharedKeyLite</u>	Signs the request for Shared Key Lite authentication.
	<u>Snapshot</u>	Constructs a web request to create a snapshot of a blob.
	<u>WriteBlockListBody</u>	Writes the body of the block list to the specified stream in XML format.
	<u>WriteServiceProperties</u>	Writes the Blob service properties to an output stream.

▣ See Also

Reference

[BlobRequest Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.]

❏ Overload List

Name	Description
BlobRequest.AddConditional (HttpWebRequest, ConditionHeaderKind, DateTime)	Adds a conditional header to the request.
BlobRequest.AddConditional (HttpWebRequest, ConditionHeaderKind, String)	Adds a conditional header to the request.

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Specifying Conditional Headers for Blob Service Operations](#)

[Put Block List \(REST API\)](#)

[Put Page \(REST API\)](#)

BlobRequest.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)

▣ Usage

Visual Basic

```
Dim request As HttpRequest  
Dim header As ConditionHeaderKind  
Dim dateTime As DateTime  
  
HttpRequest.AddConditional(request, header, dateTime)
```


▣ Syntax

Visual Basic

```
Public Shared Sub AddConditional ( _  
    request As HttpRequest, _  
    header As ConditionHeaderKind, _  
    dateTime As DateTime _  
)
```

C#

```
public static void AddConditional (  
    HttpRequest request,  
    ConditionHeaderKind header,  
    DateTime dateTime  
)
```

C++

```
public:  
static void AddConditional (  
    HttpRequest^ request,  
    ConditionHeaderKind header,  
    DateTime dateTime  
)
```

J#

JavaScript

Parameters

request

Type: [System.Net.HttpWebRequest](#)

The web request.

header

Type:

[Microsoft.WindowsAzure.StorageClient.Protocol.ConditionHeaderKind](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Specifying Conditional Headers for Blob Service Operations](#)

[Put Block List \(REST API\)](#)

[Put Page \(REST API\)](#)

BlobRequest.AddConditional Method (HttpRequest, 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 HttpRequest  
Dim header As ConditionHeaderKind  
Dim etag As String  
  
BlobRequest.AddConditional(request, header, etag)
```


▣ Syntax

Visual Basic

```
Public Shared Sub AddConditional ( _  
    request As HttpRequest, _  
    header As ConditionHeaderKind, _  
    etag As String _  
)
```

C#

```
public static void AddConditional (  
    HttpRequest 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

Type:

[Microsoft.WindowsAzure.StorageClient.Protocol.ConditionHeaderKind](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Specifying Conditional Headers for Blob Service Operations](#)

[Put Block List \(REST API\)](#)

[Put Page \(REST API\)](#)

BlobRequest.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

Name	Description
BlobRequest.AddMetadata (HttpRequest, NameValueCollection)	Adds user-defined metadata to the request as one or more name-value pairs.
BlobRequest.AddMetadata (HttpRequest, String, String)	Adds user-defined metadata to the request as a single name-value pair.

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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 (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.

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  
  
HttpRequest.AddMetadata(request, metadata)
```

▣ Syntax

Visual Basic

```
Public Shared Sub AddMetadata ( _  
    request As HttpRequest, _  
    metadata As NameValueCollection _  
)
```

C#

```
public static void AddMetadata (  
    HttpRequest request,  
    NameValueCollection metadata  
)
```

C++

```
public:  
static void AddMetadata (  
    HttpRequest^ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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 (HttpRequest, 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

```
Dim request As HttpRequest  
Dim name As String  
Dim value As String
```

```
HttpRequest.AddMetadata(request, name, value)
```

▣ Syntax

Visual Basic

```
Public Shared Sub AddMetadata ( _  
    request As HttpRequest, _  
    name As String, _  
    value As String _  
)
```

C#

```
public static void AddMetadata (  
    HttpRequest 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
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 HttpRequest  
  
returnValue = HttpRequest.CopyFrom(uri, timeout, sou
```

▣ Syntax

Visual Basic

```
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 HttpRequest
```

C#

```
public static HttpRequest CopyFrom (  
    Uri uri,  
    int timeout,  
    string source,  
    Nullable<DateTime> sourceSnapshot,  
    ConditionHeaderKind sourceConditions,  
    string sourceConditionsValue,  
    string leaseId  
)
```

C++

```
public:  
static HttpRequest^ CopyFrom (  
    Uri^ uri,  
    int timeout,  
    String^ source,  
    Nullable<DateTime> sourceSnapshot,  
    ConditionHeaderKind sourceConditions,  
    String^ sourceConditionsValue,  
    String^ leaseId
```

)

J#

JScript

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

Type:

[Microsoft.WindowsAzure.StorageClient.Protocol.ConditionHeaderKind](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
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, snapsl
```

▣ Syntax

Visual Basic

```
Public Shared Function Delete ( _  
    uri As Uri, _  
    timeout As Integer, _  
    snapshot As Nullable(Of DateTime), _  
    deleteSnapshotsOption As DeleteSnapshotsOption, _  
    leaseId As String _  
) As HttpWebRequest
```

C#

```
public static HttpWebRequest Delete (  
    Uri uri,  
    int timeout,  
    Nullable<DateTime> snapshot,  
    DeleteSnapshotsOption deleteSnapshotsOption,  
    string leaseId  
)
```

C++

```
public:  
static HttpWebRequest^ Delete (  
    Uri^ uri,  
    int timeout,  
    Nullable<DateTime> snapshot,  
    DeleteSnapshotsOption deleteSnapshotsOption,  
    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.

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Delete Blob \(REST API\)](#)

BlobRequest.Get 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

Name	Description
BlobRequest.Get (Uri, Int32, Nullable, Int64, Nullable, String)	Constructs a web request to return a specified range of the blob's content, together with its properties and metadata.
BlobRequest.Get (Uri, Int32, Nullable, String)	Constructs a web request to get the blob's content, properties, and metadata.

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

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 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

```
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 HttpRequest
```

C#

```
public static HttpRequest Get (  
    Uri uri,  
    int timeout,  
    Nullable<DateTime> snapshot,  
    long offset,  
    Nullable<long> count,  
    string leaseId  
)
```

C++

```
public:  
static HttpRequest^ Get (  
    Uri^ uri,  
    int timeout,  
    Nullable<DateTime> snapshot,  
    long long offset,  
    Nullable<long long> count,  
    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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

Visual Basic

```
Public Shared Function Get ( _  
    uri As Uri, _  
    timeout As Integer, _  
    snapshot As Nullable(Of DateTime), _  
    leaseId As String _  
) As HttpRequest
```

C#

```
public static HttpRequest Get (  
    Uri uri,  
    int timeout,  
    Nullable<DateTime> snapshot,  
    string leaseId  
)
```

C++

```
public:  
static HttpRequest^ Get (  
    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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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 HttpRequest
```

C#

```
public static HttpRequest GetBlockList (  
    Uri uri,  
    int timeout,  
    Nullable<DateTime> snapshot,  
    BlockListingFilter typesOfBlocks,  
    string leaseId  
)
```

C++

```
public:  
static HttpRequest^ GetBlockList (  
    Uri^ uri,  
    int timeout,  
    Nullable<DateTime> snapshot,  
    BlockListingFilter typesOfBlocks,  
    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.

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Get Block List \(REST API\)](#)

[Put Block List \(REST API\)](#)

BlobRequest.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 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.GetMetadata(uri, timeout, snapshot, leaseId)
```

▣ Syntax

Visual Basic

```
Public Shared Function GetMetadata ( _  
    uri As Uri, _  
    timeout As Integer, _  
    snapshot As Nullable(Of DateTime), _  
    leaseId As String _  
) As HttpRequest
```

C#

```
public static HttpRequest GetMetadata (   
    Uri uri,   
    int timeout,   
    Nullable<DateTime> snapshot,   
    string leaseId   
)
```

C++

```
public:   
static HttpRequest^ 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 operiaton.

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Public Shared Function GetPageRanges ( _  
    uri As Uri, _  
    timeout As Integer, _  
    snapshot As Nullable(Of DateTime), _  
    leaseId As String _  
) As HttpRequest
```

C#

```
public static HttpRequest GetPageRanges (  
    Uri uri,  
    int timeout,  
    Nullable<DateTime> snapshot,  
    string leaseId  
)
```

C++

```
public:  
static HttpRequest^ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
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

```
Public Shared Function GetProperties ( _  
    uri As Uri, _  
    timeout As Integer, _  
    snapshot As Nullable(Of DateTime), _  
    leaseId As String _  
) As HttpRequest
```

C#

```
public static HttpRequest GetProperties (  
    Uri uri,  
    int timeout,  
    Nullable<DateTime> snapshot,  
    string leaseId  
)
```

C++

```
public:  
static HttpRequest^ GetProperties (  
    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.

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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, ')
```

▣ Syntax

Visual Basic

```
Public Shared Function GetServiceProperties ( _  
    uri As Uri, _  
    timeout As Integer _  
) As HttpRequest
```

C#

```
public static HttpRequest GetServiceProperties (   
    Uri uri,   
    int timeout   
)
```

C++

```
public:   
static HttpRequest^ GetServiceProperties (   
    Uri^ uri,   
    int timeout   
)
```

J#

JScript

Parameters

uri

The absolute URI to the Blob 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

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 action As LeaseAction  
Dim leaseId As String  
Dim returnValue As HttpWebRequest  
  
returnValue = BlobRequest.Lease(uri, timeout, action,
```

▣ Syntax

Visual Basic

```
Public Shared Function Lease ( _  
    uri As Uri, _  
    timeout As Integer, _  
    action As LeaseAction, _  
    leaseId As String _  
) As HttpRequest
```

C#

```
public static HttpRequest Lease (  
    Uri uri,  
    int timeout,  
    LeaseAction action,  
    string leaseId  
)
```

C++

```
public:  
static HttpRequest^ Lease (  
    Uri^ uri,  
    int timeout,  
    LeaseAction action,  
    String^ leaseId  
)
```

J#

JScript

Parameters

uri

Type: [System.Uri](#)

The absolute URI to the blob.

timeout

Type: [System.Int32](#)

The server timeout interval.

action

Type: [Microsoft.WindowsAzure.StorageClient.Protocol.LeaseAction](#)

The lease action to perform.

leaseId

Type: [System.String](#)

The lease ID.

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Public Shared Function List ( _  
    uri As Uri, _  
    timeout As Integer, _  
    listingContext As BlobListingContext _  
) As HttpRequest
```

C#

```
public static HttpRequest List (  
    Uri uri,  
    int timeout,  
    BlobListingContext listingContext  
)
```

C++

```
public:  
static HttpRequest^ 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

Type: [Microsoft.WindowsAzure.StorageClient.Protocol.BlobListingContext](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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)

▣ Usage

Visual Basic

```
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, properti
```

▣ Syntax

Visual Basic

```
Public Shared Function Put ( _  
    uri As Uri, _  
    timeout As Integer, _  
    properties As BlobProperties, _  
    blobType As BlobType, _  
    leaseId As String, _  
    pageBlobSize As Long _  
) As HttpRequest
```

C#

```
public static HttpRequest Put (  
    Uri uri,  
    int timeout,  
    BlobProperties properties,  
    BlobType blobType,  
    string leaseId,  
    long pageBlobSize  
)
```

C++

```
public:  
static HttpRequest^ Put (  
    Uri^ uri,  
    int timeout,  
    BlobProperties^ properties,  
    BlobType blobType,  
    String^ leaseId,  
    long long pageBlobSize  
)
```


J#

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.

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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, blo
```


▣ Syntax

Visual Basic

```
Public Shared Function PutBlock ( _  
    uri As Uri, _  
    timeout As Integer, _  
    blockId As String, _  
    leaseId As String _  
) As HttpRequest
```

C#

```
public static HttpRequest PutBlock (  
    Uri uri,  
    int timeout,  
    string blockId,  
    string leaseId  
)
```

C++

```
public:  
static HttpRequest^ PutBlock (  
    Uri^ uri,  
    int timeout,  
    String^ blockId,  
    String^ leaseId  
)
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim uri As Uri  
Dim timeout As Integer  
Dim properties As BlobProperties  
Dim leaseId As String  
Dim returnValue As HttpWebRequest  
  
returnValue = BlobRequest.PutBlockList(uri, timeout,
```


▣ Syntax

Visual Basic

```
Public Shared Function PutBlockList ( _  
    uri As Uri, _  
    timeout As Integer, _  
    properties As BlobProperties, _  
    leaseId As String _  
) As HttpRequest
```

C#

```
public static HttpRequest PutBlockList (  
    Uri uri,  
    int timeout,  
    BlobProperties properties,  
    string leaseId  
)
```

C++

```
public:  
static HttpRequest^ PutBlockList (  
    Uri^ uri,  
    int timeout,  
    BlobProperties^ 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

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

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 PutPageProperties  
Dim leaseId As String  
Dim returnValue As HttpWebRequest  
  
returnValue = BlobRequest.PutPage(uri, timeout, prop
```


▣ Syntax

Visual Basic

```
Public Shared Function PutPage ( _  
    uri As Uri, _  
    timeout As Integer, _  
    properties As PutPageProperties, _  
    leaseId As String _  
) As HttpRequest
```

C#

```
public static HttpRequest PutPage (  
    Uri uri,  
    int timeout,  
    PutPageProperties properties,  
    string leaseId  
)
```

C++

```
public:  
static HttpRequest^ 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

Type: [Microsoft.WindowsAzure.StorageClient.Protocol.PutPageProperties](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Page Blobs](#)

[Put Page \(REST API\)](#)

BlobRequest.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 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, .
```


▣ Syntax

Visual Basic

```
Public Shared Function SetMetadata ( _  
    uri As Uri, _  
    timeout As Integer, _  
    leaseId As String _  
) As HttpRequest
```

C#

```
public static HttpRequest SetMetadata (  
    Uri uri,  
    int timeout,  
    string leaseId  
)
```

C++

```
public:  
static HttpRequest^ SetMetadata (  
    Uri^ uri,  
    int timeout,  
    String^ leaseId  
)
```

J#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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 SetPropertyes ( _  
    uri As Uri, _  
    timeout As Integer, _  
    properties As BlobProperties, _  
    leaseId As String, _  
    newBlobSize As Nullable(Of Long) _  
) As HttpRequest
```

C#

```
public static HttpRequest SetPropertyes (  
    Uri uri,  
    int timeout,  
    BlobProperties properties,  
    string leaseId,  
    Nullable<long> newBlobSize  
)
```

C++

```
public:  
static HttpRequest^ SetPropertyes (  
    Uri^ uri,  
    int timeout,  
    BlobProperties^ properties,  
    String^ leaseId,  
    Nullable<long long> newBlobSize  
)
```

J#

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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Get Blob Properties \(REST API\)](#)

[Set Blob Properties \(REST API\)](#)

BlobRequest.SetServiceProperties 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 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, ')
```


▣ Syntax

Visual Basic

```
Public Shared Function SetServiceProperties ( _  
    uri As Uri, _  
    timeout As Integer _  
) As HttpRequest
```

C#

```
public static HttpRequest SetServiceProperties (   
    Uri uri,   
    int timeout   
)
```

C++

```
public:   
static HttpRequest^ SetServiceProperties (   
    Uri^ uri,   
    int timeout   
)
```

J#

JScript

Parameters

uri

The absolute URI to the Blob 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

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  
  
BlobRequest.SignRequest(request, credentials)
```


▣ Syntax

Visual Basic

```
Public Shared Sub SignRequest ( _  
    request As HttpRequest, _  
    credentials As Credentials _  
)
```

C#

```
public static void SignRequest (  
    HttpRequest request,  
    Credentials credentials  
)
```

C++

```
public:  
static void SignRequest (  
    HttpRequest^ request,  
    Credentials^ credentials  
)
```

J#

JScript

Parameters

request

Type: [System.Net.HttpWebRequest](#)

The web request.

credentials

Type: [Microsoft.WindowsAzure.StorageClient.Protocol.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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim request As HttpWebRequest  
Dim credentials As Credentials  
  
BlobRequest.SignRequestForSharedKeyLite(request, cred
```


▣ Syntax

Visual Basic

```
Public Shared Sub SignRequestForSharedKeyLite ( _  
    request As HttpRequest, _  
    credentials As Credentials _  
)
```

C#

```
public static void SignRequestForSharedKeyLite (  
    HttpRequest request,  
    Credentials credentials  
)
```

C++

```
public:  
static void SignRequestForSharedKeyLite (  
    HttpRequest^ request,  
    Credentials^ credentials  
)
```

J#

JScript

Parameters

request

Type: [System.Net.HttpWebRequest](#)

The web request.

credentials

Type: [Microsoft.WindowsAzure.StorageClient.Protocol.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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
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 HttpRequest
```

C#

```
public static HttpRequest Snapshot (  
    Uri uri,  
    int timeout  
)
```

C++

```
public:  
static HttpRequest^ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Working with Snapshots](#)

[Understanding How Snapshots Accrue Charges](#)

[Snapshot Blob \(REST API\)](#)

BlobRequest.WriteBlockListBody 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 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

```
Dim blocks As IEnumerable(Of PutBlockListItem)  
Dim outputStream As Stream  
  
BlobRequest.WriteBlockListBody(blocks, outputStream)
```


▣ Syntax

Visual Basic

```
Public Shared Sub WriteBlockListBody ( _  
    blocks As IEnumerable(Of PutBlockListItem), _  
    outputStream As Stream _  
)
```

C#

```
public static void WriteBlockListBody (  
    IEnumerable<PutBlockListItem> blocks,  
    Stream outputStream  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

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  
  
BlobRequest.WriteServiceProperties(properties, output
```


▣ Syntax

Visual Basic

```
Public Shared Sub WriteServiceProperties ( _  
    properties As ServiceProperties, _  
    outputStream As Stream _  
)
```

C#

```
public static void WriteServiceProperties (  
    ServiceProperties properties,  
    Stream outputStream  
)
```

C++

```
public:  
static void WriteServiceProperties (  
    ServiceProperties^ properties,  
    Stream^ outputStream  
)
```

J#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobRequest Class](#)

[BlobRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Get Blob Service Properties](#)

BlobResponse 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 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

```
Public NotInheritable Class BlobResponse
```

C#

```
public static class BlobResponse
```

C++

```
public ref class BlobResponse abstract sealed
```

J#

JScript

▣ **Inheritance Hierarchy**

System.Object

Microsoft.WindowsAzure.StorageClient.Protocol.BlobResponse

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)



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

	Name	Description
	GetAttributes	Gets the blob's attributes, including its metadata and properties, from the response.
	GetBlockList	Overloaded.
	GetError	Returns extended error information from the storage service, that is in addition to the HTTP status code returned with the response.
	GetMetadata	Overloaded.
	GetPageRanges	Overloaded.
	GetRequestId	Gets the request ID from the response.
	GetSnapshotTime	Gets the snapshot timestamp from the response.
	List	Overloaded.
	ReadServiceProperties	Gets an account's Blob service properties from an input stream.

[Top](#)

▣ See Also

Reference

[BlobResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

	Name	Description
	GetAttributes	Gets the blob's attributes, including its metadata and properties, from the response.
	GetBlockList	Overloaded.
	GetError	Returns extended error information from the storage service, that is in addition to the HTTP status code returned with the response.
	GetMetadata	Overloaded.
	GetPageRanges	Overloaded.
	GetRequestId	Gets the request ID from the response.
	GetSnapshotTime	Gets the snapshot timestamp from the response.
	List	Overloaded.
	ReadServiceProperties	Gets an account's Blob service properties from an input stream.

▣ See Also

Reference

[BlobResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim response As HttpWebResponse  
Dim returnValue As BlobAttributes  
  
returnValue = BlobResponse.GetAttributes(response)
```

▣ Syntax

Visual Basic

```
Public Shared Function GetAttributes ( _  
    response As HttpWebResponse _  
) As BlobAttributes
```

C#

```
public static BlobAttributes GetAttributes (  
    HttpWebResponse response  
)
```

C++

```
public:  
static BlobAttributes^ GetAttributes (  
    HttpWebResponse^ response  
)
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobResponse Class](#)

[BlobResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

Name	Description
BlobResponse.GetBlockList(Stream)	Parses the response for an operation that returns a block list for the blob.
BlobResponse.GetBlockList(HttpWebResponse)	Parses the response for an operation that returns a block list for the blob.

▣ See Also

Reference

[BlobResponse Class](#)

[BlobResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Blobs](#)

[Get Block List \(REST API\)](#)

[Put Block List \(REST API\)](#)



BlobResponse.GetBlockList 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 block list for the blob.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
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#

```
public static GetBlockListResponse GetBlockList (  
    Stream stream  
)
```

C++

```
public:  
static GetBlockListResponse^ GetBlockList (  
    Stream^ stream  
)
```

J#

JScript

Parameters

stream

Type: [System.IO.Stream](#)

The response stream.

Return Value

Type: [Microsoft.WindowsAzure.StorageClient.Protocol.GetBlockListResponse](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobResponse Class](#)

[BlobResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Blobs](#)

[Get Block List \(REST API\)](#)

[Put Block List \(REST API\)](#)



BlobResponse.GetBlockList 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 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

```
Dim response As HttpWebResponse  
Dim returnValue As GetBlockListResponse  
  
returnValue = BlobResponse.GetBlockList(response)
```

▣ Syntax

Visual Basic

```
Public Shared Function GetBlockList ( _  
    response As HttpWebResponse _  
) As GetBlockListResponse
```

C#

```
public static GetBlockListResponse GetBlockList (  
    HttpWebResponse response  
)
```

C++

```
public:  
static GetBlockListResponse^ GetBlockList (  
    HttpWebResponse^ response  
)
```

J#

JScript

Parameters

response

Type: [System.Net.HttpWebResponse](#)

The web response.

Return Value

Type: [Microsoft.WindowsAzure.StorageClient.Protocol.GetBlockListResponse](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobResponse Class](#)

[BlobResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim response As HttpWebResponse  
Dim returnValue As StorageExtendedErrorInformation  
  
returnValue = BlobResponse.GetError(response)
```

▣ Syntax

Visual Basic

```
Public Shared Function GetError ( _  
    response As HttpWebResponse _  
) As StorageExtendedErrorInformation
```

C#

```
public static StorageExtendedErrorInformation GetError  
(  
    HttpWebResponse response  
)
```

C++

```
public:  
static StorageExtendedErrorInformation^ GetError (  
    HttpWebResponse^ response  
)
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobResponse Class](#)

[BlobResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

Name	Description
BlobResponse.GetMetadata (HttpWebResponse)	Gets a collection of user-defined metadata from the response.
BlobResponse.GetMetadata (HttpWebResponse, String)	Gets an array of values for a specified name-value pair from a response that includes user-defined metadata.

▣ See Also

Reference

[BlobResponse Class](#)

[BlobResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

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 = BlobResponse.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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobResponse Class](#)

[BlobResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

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 = BlobResponse.GetMetadata(response, name)
```

▣ Syntax

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobResponse Class](#)

[BlobResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Blobs](#)

[Get Blob Metadata \(REST API\)](#)

[Set Blob Metadata \(REST API\)](#)

BlobResponse.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

Name	Description
BlobResponse.GetPageRanges(Stream)	Parses the response for an operation that returns a range of pages.
BlobResponse.GetPageRanges(HttpWebResponse)	Parses the response for an operation that returns a range of pages.

▣ See Also

Reference

[BlobResponse Class](#)

[BlobResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
Dim stream As Stream  
Dim returnValue As GetPageRangesResponse  
  
returnValue = BlobResponse.GetPageRanges(stream)
```

▣ Syntax

Visual Basic

```
Public Shared Function GetPageRanges ( _  
    stream As Stream _  
) As GetPageRangesResponse
```

C#

```
public static GetPageRangesResponse GetPageRanges (  
    Stream stream  
)
```

C++

```
public:  
static GetPageRangesResponse^ GetPageRanges (  
    Stream^ stream  
)
```

J#

JScript

Parameters

stream

Type: [System.IO.Stream](#)

The response stream.

Return Value

Type:

[Microsoft.WindowsAzure.StorageClient.Protocol.GetPageRangesResponse](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobResponse Class](#)

[BlobResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Blobs](#)

[Operations on Page Blobs](#)

[Get Page Ranges \(REST API\)](#)

[Put Page \(REST API\)](#)

BlobResponse.GetPageRanges 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 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

```
Public Shared Function GetPageRanges ( _  
    response As HttpWebResponse _  
) As GetPageRangesResponse
```

C#

```
public static GetPageRangesResponse GetPageRanges (  
    HttpWebResponse response  
)
```

C++

```
public:  
static GetPageRangesResponse^ GetPageRanges (  
    HttpWebResponse^ response  
)
```

J#

JScript

Parameters

response

Type: [System.Net.HttpWebResponse](#)

The web response.

Return Value

Type:

[Microsoft.WindowsAzure.StorageClient.Protocol.GetPageRangesResponse](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobResponse Class](#)

[BlobResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim response As HttpWebResponse  
Dim returnValue As String  
  
returnValue = BlobResponse.GetRequestId(response)
```

▣ Syntax

Visual Basic

```
Public Shared Function GetRequestId ( _  
    response As HttpWebResponse _  
) As String
```

C#

```
public static string GetRequestId (  
    HttpWebResponse response  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobResponse Class](#)

[BlobResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim response As HttpWebResponse  
Dim returnValue As String  
  
returnValue = BlobResponse.GetSnapshotTime(response)
```

▣ Syntax

Visual Basic

```
Public Shared Function GetSnapshotTime ( _  
    response As HttpWebResponse _  
) As String
```

C#

```
public static string GetSnapshotTime (  
    HttpWebResponse response  
)
```

C++

```
public:  
static String^ GetSnapshotTime (  
    HttpWebResponse^ response  
)
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobResponse Class](#)

[BlobResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

Name	Description
BlobResponse.List (Stream)	Parses the response for a blob listing operation.
BlobResponse.List (HttpWebResponse)	Parses the response for a blob listing operation.

▣ See Also

Reference

[BlobResponse Class](#)

[BlobResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Blobs](#)

[Enumerating Blob Resources \(REST API\)](#)

[List Blobs \(REST API\)](#)

BlobResponse.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 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

Parameters

stream

Type: [System.IO.Stream](#)

The response stream.

Return Value

Type: [Microsoft.WindowsAzure.StorageClient.Protocol.ListBlobsResponse](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobResponse Class](#)

[BlobResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Blobs](#)

[Enumerating Blob Resources \(REST API\)](#)

[List Blobs \(REST API\)](#)

BlobResponse.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 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)
```


▣ Syntax

Visual Basic

```
Public Shared Function List ( _  
    response As HttpWebResponse _  
) As ListBlobsResponse
```

C#

```
public static ListBlobsResponse List (  
    HttpWebResponse response  
)
```

C++

```
public:  
static ListBlobsResponse^ List (  
    HttpWebResponse^ response  
)
```

J#

JScript

Parameters

response

Type: [System.Net.HttpWebResponse](#)

The web response.

Return Value

Type: [Microsoft.WindowsAzure.StorageClient.Protocol.ListBlobsResponse](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobResponse Class](#)

[BlobResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Blobs](#)

[Enumerating Blob Resources \(REST API\)](#)

[List Blobs \(REST API\)](#)

BlobResponse.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 Blob service properties from an input stream.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
Dim inputStream As Stream  
Dim returnValue As ServiceProperties  
  
returnValue = BlobResponse.ReadServiceProperties(inp
```


▣ Syntax

Visual Basic

```
Public Shared Function ReadServiceProperties ( _  
    inputStream As Stream _  
) As ServiceProperties
```

C#

```
public static ServiceProperties ReadServiceProperties(  
    (  
        Stream inputStream  
    )  
)
```

C++

```
public:  
static ServiceProperties^ ReadServiceProperties (   
    Stream^ inputStream  
)
```

J#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[BlobResponse Class](#)

[BlobResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Blobs](#)

[Setting and Retrieving Properties and Metadata for Blob Resources \(REST API\)](#)

[Standard HTTP Properties for Containers and Blobs](#)

BlockSearchMode 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 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)

Usage

Visual Basic

```
Dim instance As BlockSearchMode
```

Syntax

Visual Basic

```
Public Enumeration BlockSearchMode
```

C#

```
public enum BlockSearchMode
```

C++

```
public enum class BlockSearchMode
```

J#

JScript

▣ Members

Member name	Description
Committed	Search the committed block list only.
Latest	Search the uncommitted block list first, and if the block is not found there, search the committed block list.
Uncommitted	Search the uncommitted block list only.

▣ **Remarks**

For more details about this API, see the topics on the equivalent REST APIs in **See Also > Other Resources**.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Blobs](#)

[Get Block List \(REST API\)](#)

[Put Block List \(REST API\)](#)



CanonicalizationStrategy 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 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

Visual Basic

```
Public MustInherit Class CanonicalizationStrategy
```

C#

```
public abstract class CanonicalizationStrategy
```

C++

```
public ref class CanonicalizationStrategy abstract
```

J#

JScript

☐ Inheritance Hierarchy

System.Object

Microsoft.WindowsAzure.StorageClient.Protocol.CanonicalizationStrategy

[Microsoft.WindowsAzure.StorageClient.Protocol.SharedKeyCanonicalizer](#)

[Microsoft.WindowsAzure.StorageClient.Protocol.SharedKeyLiteCanonicalizer](#)

[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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CanonicalizationStrategy Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

CanonicalizationStrategy Members

[See Also](#) [Methods](#) [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 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

	Name	Description
	CanonicalizationStrategy	

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	CanonicalizeHttpRequest	Overloaded.
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

[Top](#)

Protected Methods

	Name	Description
	AppendStringToCanonicalizedString	Appends a string to the canonicalized resource string.
	CanonicalizeHttpRequest	Overloaded.
	CanonicalizeHttpRequestVersion2	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.
	Finalize	(Inherited from Object)
	GetCanonicalizedResource	Gets the canonicalized resource string for a Blob or Queue service request under the Shared Key Lite authentication scheme.
	GetCanonicalizedResourceVersion2	Gets the canonicalized resource string for a Blob or Queue service request under the Shared Key authentication scheme.
	GetHeaderValues	Returns an ArrayList of HTTP header values for a named header.
	GetStandardHeaderValue	Gets the value of a standard HTTP header.
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ See Also

Reference

[CanonicalizationStrategy Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
Dim instance As New CanonicalizationStrategy
```

Syntax

Visual Basic

```
Protected Sub New
```

C#

```
protected CanonicalizationStrategy ()
```

C++

```
protected:  
CanonicalizationStrategy ()
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CanonicalizationStrategy Class](#)

[CanonicalizationStrategy Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Authentication Schemes](#)

CanonicalizationStrategy 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](#))

	Name	Description
	CanonicalizeHttpRequest	Overloaded.
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

Protected Methods

	Name	Description
	<u>AppendStringToCanonicalizedString</u>	Appends a string to the canonicalized resource string.
	<u>CanonicalizeHttpRequest</u>	Overloaded.
	<u>CanonicalizeHttpRequestVersion2</u>	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.
	Finalize	(Inherited from Object)
	<u>GetCanonicalizedResource</u>	Gets the canonicalized resource string for a Blob or Queue service request under the Shared Key Lite authentication scheme.
	<u>GetCanonicalizedResourceVersion2</u>	Gets the canonicalized resource string for a Blob or Queue service request under the Shared Key authentication scheme.
	<u>GetHeaderValues</u>	Returns an ArrayList of HTTP header values for a named header.
	<u>GetStandardHeaderValue</u>	Gets the value of a standard HTTP header.
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[CanonicalizationStrategy Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

CanonicalizationStrategy.AppendStringToCanonicalizedString 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.]

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

```
Dim canonicalizedString As StringBuilder  
Dim stringToAppend As String  
Dim returnValue As String  
  
returnValue = CanonicalizationStrategy.AppendStringTo
```

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CanonicalizationStrategy Class](#)

[CanonicalizationStrategy Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Authentication Schemes](#)

CanonicalizationStrategy.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.]

❏ Overload List

Name	Description
CanonicalizationStrategy.CanonicalizeHttpRequest (HttpRequest, String)	Constructs a canonicalized string for signing a request.
CanonicalizationStrategy.CanonicalizeHttpRequest (Uri, String, String, String, String, NameValueCollection)	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.

▣ See Also

Reference

[CanonicalizationStrategy Class](#)

[CanonicalizationStrategy Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Authentication Schemes](#)

CanonicalizationStrategy.CanonicalizeHttpRequest Method (HttpRequest, 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 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 HttpRequest  
Dim accountName As String  
Dim returnValue As String  
  
returnValue = instance.CanonicalizeHttpRequest(request)
```

▣ Syntax

Visual Basic

```
Public MustOverride Function CanonicalizeHttpRequest  
( _  
    request As HttpRequest, _  
    accountName As String _  
) As String
```

C#

```
public abstract string CanonicalizeHttpRequest (  
    HttpRequest request,  
    string accountName  
)
```

C++

```
public:  
virtual String^ CanonicalizeHttpRequest (  
    HttpRequest^ request,  
    String^ accountName  
) abstract
```

J#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CanonicalizationStrategy Class](#)

[CanonicalizationStrategy Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Authentication Schemes](#)

CanonicalizationStrategy.CanonicalizeHttpRequest Method (Uri, String, String, String, String, 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.]

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 date As String  
Dim headers As NameValueCollection  
Dim returnValue As String  
  
returnValue = CanonicalizationStrategy.CanonicalizeH
```

▣ 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   
)
```


J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CanonicalizationStrategy Class](#)

[CanonicalizationStrategy Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.CanonicalizeH
```


▣ 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,
```

```
)  
    String^ date,  
    NameValueCollection^ headers
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CanonicalizationStrategy Class](#)

[CanonicalizationStrategy Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Authentication Schemes](#)

CanonicalizationStrategy.GetCanonicalizedResource 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 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

```
Dim address As Uri  
Dim accountName As String  
Dim returnValue As String  
  
returnValue = CanonicalizationStrategy.GetCanonicali:
```

▣ Syntax

Visual Basic

```
Protected Shared Function GetCanonicalizedResource (
    _
    address As Uri, _
    accountName As String _
) As String
```

C#

```
protected static string GetCanonicalizedResource (
    Uri address,
    string accountName
)
```

C++

```
protected:
static String^ GetCanonicalizedResource (
    Uri^ address,
    String^ accountName
)
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CanonicalizationStrategy Class](#)

[CanonicalizationStrategy Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Authentication Schemes](#)

CanonicalizationStrategy.GetCanonicalizedResourceVersion2 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 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

```
Dim address As Uri
Dim accountName As String
Dim returnValue As String

returnValue = CanonicalizationStrategy.GetCanonicali:
```

▣ Syntax

Visual Basic

```
Protected Shared Function GetCanonicalizedResourceVersion2  
( _  
    address As Uri, _  
    accountName As String _  
) As String
```

C#

```
protected static string GetCanonicalizedResourceVersion2  
(  
    Uri address,  
    string accountName  
)
```

C++

```
protected:  
static String^ GetCanonicalizedResourceVersion2 (  
    Uri^ address,  
    String^ accountName  
)
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CanonicalizationStrategy Class](#)

[CanonicalizationStrategy Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Authentication Schemes](#)

CanonicalizationStrategy.GetHeaderValues 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 **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

Visual Basic

```
Protected Shared Function GetHeaderValues ( _  
    headers As NameValueCollection, _  
    headerName As String _  
) As ArrayList
```

C#

```
protected static ArrayList GetHeaderValues (  
    NameValueCollection headers,  
    string headerName  
)
```

C++

```
protected:  
static ArrayList^ GetHeaderValues (  
    NameValueCollection^ headers,  
    String^ headerName  
)
```

J#

JScript

Parameters

headers

Type: [System.Collections.Specialized.NameValueCollection](#)

A collection of HTTP headers as name-values pairs.

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CanonicalizationStrategy Class](#)

[CanonicalizationStrategy Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

CanonicalizationStrategy.GetStandardHeaderValue 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 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.GetStandardHeader
```


▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[CanonicalizationStrategy Class](#)

[CanonicalizationStrategy Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

Visual Basic

```
Dim instance As ConditionHeaderKind
```


Syntax

Visual Basic

```
Public Enumeration ConditionHeaderKind
```

C#

```
public enum ConditionHeaderKind
```

C++

```
public enum class ConditionHeaderKind
```

J#

JScript

▣ Members

Member name	Description
IfMatch	The If-Match header.
IfModifiedSince	The If-Modified-Since header.
IfNoneMatch	The If-None-Match header.
IfUnmodifiedSince	The If-Unmodified-Since header.
None	Indicates that no conditional headers are set.

▣ **Remarks**

For more details about this API, see the topics on the equivalent REST APIs in **See Also > Other Resources**.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Specifying Conditional Headers for Blob Service Operations](#)

[HTTP Response Codes for Operations Supporting Conditional Headers](#)

[Operations Supporting Conditional Headers](#)

[Supported Conditional Headers](#)

ContainerRequest 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 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

Microsoft.WindowsAzure.StorageClient.Protocol.ContainerRequest

☐ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ContainerRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)



ContainerRequest 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 container operations.

The following tables list the members exposed by the [ContainerRequest](#) type.

Public Methods

	Name	Description
	AddConditional	Overloaded.
	AddMetadata	Overloaded.
	Create	Constructs a web request to create a new container.
	Delete	Constructs a web request to delete the container and all of blobs within it.
	GetAcl	Constructs a web request to return the ACL for this container.
	GetMetadata	Constructs a web request to retrieve the container's metadata.
	GetProperties	Constructs a web request to return the user-defined metadata for this container.
	List	Constructs a web request to return a listing of all containers in this storage account.
	SetAcl	Sets the ACL for the container.
	SetMetadata	Constructs a web request to set user-defined metadata for the container.
	SignRequest	Signs the request for Shared Key authentication.
	SignRequestForSharedKeyLite	Signs the request for Shared Key Lite authentication.
	WriteSharedAccessIdentifiers	Writes a collection of shared access policies to the specified stream in XML format.

[Top](#)

▣ See Also

Reference

[ContainerRequest Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.]

Public Methods

	Name	Description
	AddConditional	Overloaded.
	AddMetadata	Overloaded.
	Create	Constructs a web request to create a new container.
	Delete	Constructs a web request to delete the container and all of blobs within it.
	GetAcl	Constructs a web request to return the ACL for this container.
	GetMetadata	Constructs a web request to retrieve the container's metadata.
	GetProperties	Constructs a web request to return the user-defined metadata for this container.
	List	Constructs a web request to return a listing of all containers in this storage account.
	SetAcl	Sets the ACL for the container.
	SetMetadata	Constructs a web request to set user-defined metadata for the container.
	SignRequest	Signs the request for Shared Key authentication.
	SignRequestForSharedKeyLite	Signs the request for Shared Key Lite authentication.
	WriteSharedAccessIdentifiers	Writes a collection of shared access policies to the specified stream in XML format.

▣ See Also

Reference

[ContainerRequest Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

ContainerRequest.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.]

☐ Overload List

Name	Description
<u>ContainerRequest.AddConditional (HttpRequest, ConditionHeaderKind, DateTime)</u>	Adds a conditional header to the request.
<u>ContainerRequest.AddConditional (HttpRequest, ConditionHeaderKind, String)</u>	Adds a conditional header to the request.

▣ See Also

Reference

[ContainerRequest Class](#)

[ContainerRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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)

▣ Usage

Visual Basic

```
Dim request As HttpRequest  
Dim header As ConditionHeaderKind  
Dim dateTime As DateTime  
  
ContainerRequest.AddConditional(request, header, dateTime)
```

▣ Syntax

Visual Basic

```
Public Shared Sub AddConditional ( _  
    request As HttpRequest, _  
    header As ConditionHeaderKind, _  
    dateTime As DateTime _  
)
```

C#

```
public static void AddConditional (  
    HttpRequest request,  
    ConditionHeaderKind header,  
    DateTime dateTime  
)
```

C++

```
public:  
static void AddConditional (  
    HttpRequest^ request,  
    ConditionHeaderKind header,  
    DateTime dateTime  
)
```

J#

JScript

Parameters

request

Type: [System.Net.HttpWebRequest](#)

The web request.

header

Type:

[Microsoft.WindowsAzure.StorageClient.Protocol.ConditionHeaderKind](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ContainerRequest Class](#)

[ContainerRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Specifying Conditional Headers for Blob Service Operations](#)

[Set Container Metadata \(REST API\)](#)

[Delete Container \(REST API\)](#)

ContainerRequest.AddConditional Method (HttpRequest, 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 HttpRequest, _  
    header As ConditionHeaderKind, _  
    etag As String _  
)
```

C#

```
public static void AddConditional (  
    HttpRequest 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

Type:

[Microsoft.WindowsAzure.StorageClient.Protocol.ConditionHeaderKind](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ContainerRequest Class](#)

[ContainerRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

Name	Description
ContainerRequest.AddMetadata(HttpWebRequest, NameValueCollection)	Adds user-defined metadata to the request as one or more name-value pairs.
ContainerRequest.AddMetadata(HttpWebRequest, String, String)	Adds user-defined metadata to the request as a single name-value pair.

▣ See Also

Reference

[ContainerRequest Class](#)

[ContainerRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.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.

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  
  
ContainerRequest.AddMetadata(request, metadata)
```

▣ Syntax

Visual Basic

```
Public Shared Sub AddMetadata ( _  
    request As HttpRequest, _  
    metadata As NameValueCollection _  
)
```

C#

```
public static void AddMetadata (  
    HttpRequest request,  
    NameValueCollection metadata  
)
```

C++

```
public:  
static void AddMetadata (  
    HttpRequest^ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ContainerRequest Class](#)

[ContainerRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.AddMetadata Method (HttpRequest, 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

```
Dim request As HttpRequest  
Dim name As String  
Dim value As String
```

```
ContainerRequest.AddMetadata(request, name, value)
```

▣ Syntax

Visual Basic

```
Public Shared Sub AddMetadata ( _  
    request As HttpRequest, _  
    name As String, _  
    value As String _  
)
```

C#

```
public static void AddMetadata (  
    HttpRequest 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ContainerRequest Class](#)

[ContainerRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim uri As Uri  
Dim timeout As Integer  
Dim returnValue As HttpWebRequest  
  
returnValue = ContainerRequest.Create(uri, timeout)
```

▣ Syntax

Visual Basic

```
Public Shared Function Create ( _  
    uri As Uri, _  
    timeout As Integer _  
) As HttpRequest
```

C#

```
public static HttpRequest Create (  
    Uri uri,  
    int timeout  
)
```

C++

```
public:  
static HttpRequest^ Create (  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ContainerRequest Class](#)

[ContainerRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

Visual Basic

```
Public Shared Function Delete ( _  
    uri As Uri, _  
    timeout As Integer _  
) As HttpRequest
```

C#

```
public static HttpRequest Delete (  
    Uri uri,  
    int timeout  
)
```

C++

```
public:  
static HttpRequest^ Delete (  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ContainerRequest Class](#)

[ContainerRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Create Container \(REST API\)](#)

[Delete Container \(REST API\)](#)

[List Blobs \(REST API\)](#)

ContainerRequest.GetAcl 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 ACL for this 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 returnValue As HttpWebRequest  
  
returnValue = ContainerRequest.GetAcl(uri, timeout)
```

▣ Syntax

Visual Basic

```
Public Shared Function GetAcl ( _  
    uri As Uri, _  
    timeout As Integer _  
) As HttpRequest
```

C#

```
public static HttpRequest GetAcl (  
    Uri uri,  
    int timeout  
)
```

C++

```
public:  
static HttpRequest^ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ContainerRequest Class](#)

[ContainerRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

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.GetMetadata(uri, timeo
```

▣ Syntax

Visual Basic

```
Public Shared Function GetMetadata ( _  
    uri As Uri, _  
    timeout As Integer _  
) As HttpRequest
```

C#

```
public static HttpRequest GetMetadata (  
    Uri uri,  
    int timeout  
)
```

C++

```
public:  
static HttpRequest^ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ContainerRequest Class](#)

[ContainerRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.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 user-defined metadata for this 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 returnValue As HttpWebRequest  
  
returnValue = ContainerRequest.GetProperties(uri, ti
```

▣ Syntax

Visual Basic

```
Public Shared Function GetProperties ( _  
    uri As Uri, _  
    timeout As Integer _  
) As HttpRequest
```

C#

```
public static HttpRequest GetProperties (  
    Uri uri,  
    int timeout  
)
```

C++

```
public:  
static HttpRequest^ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ContainerRequest Class](#)

[ContainerRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

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 ListingContext  
Dim detailsIncluded As ContainerListingDetails  
Dim returnValue As HttpWebRequest  
  
returnValue = ContainerRequest.List(uri, timeout, li
```

▣ Syntax

Visual Basic

```
Public Shared Function List ( _  
    uri As Uri, _  
    timeout As Integer, _  
    listingContext As ListingContext, _  
    detailsIncluded As ContainerListingDetails _  
) As HttpRequest
```

C#

```
public static HttpRequest List (  
    Uri uri,  
    int timeout,  
    ListingContext listingContext,  
    ContainerListingDetails detailsIncluded  
)
```

C++

```
public:  
static HttpRequest^ List (  
    Uri^ uri,  
    int timeout,  
    ListingContext^ listingContext,  
    ContainerListingDetails detailsIncluded  
)
```

J#

JScript

Parameters

uri

Type: [System.Uri](#)

The absolute URI for the account.

timeout

Type: [System.Int32](#)

The server timeout interval.

listingContext

Type: [Microsoft.WindowsAzure.StorageClient.Protocol.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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ContainerRequest Class](#)

[ContainerRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Create Container \(REST API\)](#)

[Delete Container \(REST API\)](#)

[List Blobs \(REST API\)](#)

ContainerRequest.SetAcl 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 ACL for 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 publicAccess As BlobContainerPublicAccessType  
Dim returnValue As HttpWebRequest  
  
returnValue = ContainerRequest.SetAcl(uri, timeout, |
```

▣ Syntax

Visual Basic

```
Public Shared Function SetAcl ( _  
    uri As Uri, _  
    timeout As Integer, _  
    publicAccess As BlobContainerPublicAccessType, _  
    request As HttpRequest _  
) As HttpRequest
```

C#

```
public static HttpRequest SetAcl (   
    Uri uri,   
    int timeout,   
    BlobContainerPublicAccessType publicAccess   
)
```

C++

```
public:   
static HttpRequest^ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ContainerRequest Class](#)

[ContainerRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Get Container Metadata \(REST API\)](#)

[Set Container Metadata \(REST API\)](#)

ContainerRequest.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 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 returnValue As HttpWebRequest  
  
returnValue = ContainerRequest.SetMetadata(uri, timeo
```

▣ Syntax

Visual Basic

```
Public Shared Function SetMetadata ( _  
    uri As Uri, _  
    timeout As Integer _  
) As HttpRequest
```

C#

```
public static HttpRequest SetMetadata (  
    Uri uri,  
    int timeout  
)
```

C++

```
public:  
static HttpRequest^ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ContainerRequest Class](#)

[ContainerRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Public Shared Sub SignRequest ( _  
    request As HttpRequest, _  
    credentials As Credentials _  
)
```

C#

```
public static void SignRequest (  
    HttpRequest request,  
    Credentials credentials  
)
```

C++

```
public:  
static void SignRequest (  
    HttpRequest^ request,  
    Credentials^ credentials  
)
```

J#

JScript

Parameters

request

Type: [System.Net.HttpWebRequest](#)

The web request.

credentials

Type: [Microsoft.WindowsAzure.StorageClient.Protocol.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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ContainerRequest Class](#)

[ContainerRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim request As HttpWebRequest  
Dim credentials As Credentials  
  
ContainerRequest.SignRequestForSharedKeyLite(request,
```

▣ Syntax

Visual Basic

```
Public Shared Sub SignRequestForSharedKeyLite ( _  
    request As HttpRequest, _  
    credentials As Credentials _  
)
```

C#

```
public static void SignRequestForSharedKeyLite (  
    HttpRequest request,  
    Credentials credentials  
)
```

C++

```
public:  
static void SignRequestForSharedKeyLite (  
    HttpRequest^ request,  
    Credentials^ credentials  
)
```

J#

JScript

Parameters

request

Type: [System.Net.HttpWebRequest](#)

The web request.

credentials

Type: [Microsoft.WindowsAzure.StorageClient.Protocol.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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ContainerRequest Class](#)

[ContainerRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Creating a Shared Access Signature](#)

[Table Service Extensions](#)

ContainerRequest.WriteSharedAccessIdentifiers 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 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

```
Dim sharedAccessPolicies As SharedAccessPolicies  
Dim outputStream As Stream  
  
ContainerRequest.WriteSharedAccessIdentifiers(shared,
```

▣ Syntax

Visual Basic

```
Public Shared Sub WriteSharedAccessIdentifiers ( _  
    sharedAccessPolicies As SharedAccessPolicies,  
    outputStream As Stream _  
)
```

C#

```
public static void WriteSharedAccessIdentifiers (  
    SharedAccessPolicies sharedAccessPolicies,  
    Stream outputStream  
)
```

C++

```
public:  
static void WriteSharedAccessIdentifiers (  
    SharedAccessPolicies^ sharedAccessPolicies,  
    Stream^ outputStream  
)
```

J#

JScript

Parameters

sharedAccessPolicies

Type: [Microsoft.WindowsAzure.StorageClient.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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ContainerRequest Class](#)

[ContainerRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Managing Access to Blobs and Containers](#)

[Using a Shared Access Signature \(REST API\)](#)

ContainerResponse 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 parsing responses from 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 ContainerResponse
```

C#

```
public static class ContainerResponse
```

C++

```
public ref class ContainerResponse abstract sealed
```

J#

JScript

▣ Inheritance Hierarchy

System.Object

Microsoft.WindowsAzure.StorageClient.Protocol.ContainerResponse

☐ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ContainerResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)



ContainerResponse 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 container operations.

The following tables list the members exposed by the [ContainerResponse](#) type.

Public Methods

	Name	Description
	<u>GetAcl</u>	Gets the ACL for the container from the response.
	<u>GetAttributes</u>	Gets the container's attributes, including its metadata and properties, from the response.
	<u>GetError</u>	Returns extended error information from the storage service, that is in addition to the HTTP status code returned with the response.
	<u>GetMetadata</u>	Overloaded.
	<u>GetRequestId</u>	Gets the request ID from the response.
	<u>List</u>	Parses the response for a container listing operation.

[Top](#)

▣ See Also

Reference

[ContainerResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)



ContainerResponse 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

	Name	Description
	<u>GetAcl</u>	Gets the ACL for the container from the response.
	<u>GetAttributes</u>	Gets the container's attributes, including its metadata and properties, from the response.
	<u>GetError</u>	Returns extended error information from the storage service, that is in addition to the HTTP status code returned with the response.
	<u>GetMetadata</u>	Overloaded.
	<u>GetRequestId</u>	Gets the request ID from the response.
	<u>List</u>	Parses the response for a container listing operation.

▣ See Also

Reference

[ContainerResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)



ContainerResponse.GetAcl 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 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  
Dim returnValue As String  
  
returnValue = ContainerResponse.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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ContainerResponse Class](#)

[ContainerResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ContainerResponse Class](#)

[ContainerResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Get Container Properties \(REST API\)](#)

[Get Container Metadata \(REST API\)](#)

[Set Container Metadata \(REST API\)](#)



ContainerResponse.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

```
Dim response As HttpWebResponse  
Dim returnValue As StorageExtendedErrorInformation  
  
returnValue = ContainerResponse.GetError(response)
```

▣ Syntax

Visual Basic

```
Public Shared Function GetError ( _  
    response As HttpWebResponse _  
) As StorageExtendedErrorInformation
```

C#

```
public static StorageExtendedErrorInformation GetError  
(  
    HttpWebResponse response  
)
```

C++

```
public:  
static StorageExtendedErrorInformation^ GetError (  
    HttpWebResponse^ response  
)
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ContainerResponse Class](#)

[ContainerResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

Name	Description
ContainerResponse.GetMetadata(HttpWebResponse)	Gets a collection of user-defined metadata from the response.
ContainerResponse.GetMetadata(HttpWebResponse, String)	Gets an array of values for a specified name value pair from the user-defined metadata included in the response.

▣ See Also

Reference

[ContainerResponse Class](#)

[ContainerResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Get Container Properties \(REST API\)](#)

[Get Container Metadata \(REST API\)](#)

[Set Container Metadata \(REST API\)](#)

ContainerResponse.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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ContainerResponse Class](#)

[ContainerResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Get Container Properties \(REST API\)](#)

[Get Container Metadata \(REST API\)](#)

[Set Container Metadata \(REST API\)](#)



ContainerResponse.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 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

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ContainerResponse Class](#)

[ContainerResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Get Container Properties \(REST API\)](#)

[Get Container Metadata \(REST API\)](#)

[Set Container Metadata \(REST API\)](#)



ContainerResponse.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

```
Dim response As HttpWebResponse  
Dim returnValue As String  
  
returnValue = ContainerResponse.GetRequestId(response)
```

▣ Syntax

Visual Basic

```
Public Shared Function GetRequestId ( _  
    response As HttpWebResponse _  
) As String
```

C#

```
public static string GetRequestId (  
    HttpWebResponse response  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ContainerResponse Class](#)

[ContainerResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[The x-ms-request-id Header](#)

ContainerResponse.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.]

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

```
Dim response As HttpWebResponse  
Dim returnValue As ListContainersResponse  
  
returnValue = ContainerResponse.List(response)
```

▣ Syntax

Visual Basic

```
Public Shared Function List ( _  
    response As HttpWebResponse _  
) As ListContainersResponse
```

C#

```
public static ListContainersResponse List (  
    HttpWebResponse response  
)
```

C++

```
public:  
static ListContainersResponse^ List (  
    HttpWebResponse^ response  
)
```

J#

JScript

Parameters

response

Type: [System.Net.HttpWebResponse](#)

The web response.

Return Value

Type: [Microsoft.WindowsAzure.StorageClient.Protocol.ListContainersResponse](#)

An object that may be used for parsing data from the results of a container 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ContainerResponse Class](#)

[ContainerResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[List Containers \(REST API\)](#)

[Response](#)

Credentials 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 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

```
Dim instance As Credentials
```

☐ Syntax

Visual Basic

```
Public Class Credentials
```

C#

```
public class Credentials
```

C++

```
public ref class Credentials
```

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

Microsoft.WindowsAzure.StorageClient.Protocol.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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[Credentials Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Managing Access to Blobs and Containers](#)

Credentials 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 credentials used to sign a request against the storage services.

The following tables list the members exposed by the [Credentials](#) type.

▣ **Public Constructors**

	Name	Description
	Credentials	Overloaded.

[Top](#)

▣ Public Properties

	Name	Description
	AccountName	Gets the account name to be used in signing the request.

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Equals	(Inherited from Object)
	ExportBase64EncodedKey	Exports the value of the access key to a Base64-encoded string.
	ExportKey	Exports the value of the access key to an array of bytes.
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ See Also

Reference

[Credentials Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Managing Access to Blobs and Containers](#)

Credentials 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.]

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

Name	Description
Credentials (String, Byte[])	Initializes a new instance of the Credentials class
Credentials (String, String)	Initializes a new instance of the Credentials class

▣ See Also

Reference

[Credentials Class](#)

[Credentials Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Managing Access to Blobs and Containers](#)

[Managing Access to Blobs and Containers](#)

Credentials Constructor (String, 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.]

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 key As Byte()  
  
Dim instance As New Credentials(accountName, key)
```

▣ Syntax

Visual Basic

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

C#

```
public Credentials (  
    string accountName,  
    byte[] key  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[Credentials Class](#)

[Credentials Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Managing Access to Blobs and Containers](#)

[Managing Access to Blobs and Containers](#)

Credentials 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 [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, base64Ei
```

▣ Syntax

Visual Basic

```
Public Sub New ( _  
    accountName As String, _  
    base64EncodedKey As String _  
)
```

C#

```
public Credentials (  
    string accountName,  
    string base64EncodedKey  
)
```

C++

```
public:  
Credentials (  
    String^ accountName,  
    String^ base64EncodedKey  
)
```

J#

JScript

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**.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[Credentials Class](#)

[Credentials Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Managing Access to Blobs and Containers](#)

Credentials 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](#))**

	Name	Description
	Equals	(Inherited from Object)
	ExportBase64EncodedKey	Exports the value of the access key to a Base64-encoded string.
	ExportKey	Exports the value of the access key to an array of bytes.
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[Credentials Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Managing Access to Blobs and Containers](#)

Credentials.ExportBase64EncodedKey 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 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**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[Credentials Class](#)

[Credentials Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[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

```
Dim instance As Credentials  
Dim returnValue As Byte()  
  
returnValue = instance.ExportKey
```

▣ Syntax

Visual Basic

```
Public Function ExportKey As Byte()
```

C#

```
public byte[] ExportKey ()
```

C++

```
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**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[Credentials Class](#)

[Credentials Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Managing Access to Blobs and Containers](#)

Credentials 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

	Name	Description
	AccountName	Gets the account name to be used in signing the request.

▣ See Also

Reference

[Credentials Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Managing Access to Blobs and Containers](#)

Credentials.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 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

```
Dim instance As Credentials  
Dim value As String  
  
value = instance.AccountName
```

▣ Syntax

Visual Basic

```
Public Property AccountName As String
```

C#

```
public string AccountName { get; }
```

C++

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

J#

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**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[Credentials Class](#)

[Credentials Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Managing Access to Blobs and Containers](#)

GetBlockListResponse 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 return a block list.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

Usage

Visual Basic

```
Dim instance As GetBlockListResponse
```

▣ Syntax

Visual Basic

```
Public Class GetBlockListResponse  
    Inherits ResponseParsingBase(Of ListBlockItem)
```

C#

```
public class GetBlockListResponse : ResponseParsingBase
```

C++

```
public ref class GetBlockListResponse : 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

[Microsoft.WindowsAzure.StorageClient.Protocol.ResponseParsingBase](#)

Microsoft.WindowsAzure.StorageClient.Protocol.GetBlockListResponse

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[GetBlockListResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Block Blobs](#)

[Get Block List \(REST API\)](#)



GetBlockListResponse 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 an operation to return a block list.

The following tables list the members exposed by the [GetBlockListResponse](#) type.

☐ Protected Fields

	Name	Description
	<u>allObjectsParsed</u>	Indicates that all parsable objects have been consumed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>outstandingObjectsToParse</u>	Stores any objects that have not yet been parsed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>reader</u>	(Inherited from <u>ResponseParsingBase</u>)

[Top](#)

▣ **Public Properties (see also [Protected Properties](#))**

	Name	Description
	Blocks	Gets an enumerable collection of ListBlockItem objects from the response.

[Top](#)

▣ Protected Properties

	Name	Description
	<u>ObjectsToParse</u>	Gets the parsable objects. This method is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

[Top](#)

▣ Protected Methods

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)
	ParseXml	Overridden. Parses the XML response returned by an operation to retrieve a list of blocks.
	Variable	This method is reserved and should not be used. (Inherited from ResponseParsingBase)

[Top](#)

▣ See Also

Reference

[GetBlockListResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Block Blobs](#)

[Get Block List \(REST API\)](#)

GetBlockListResponse 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

	Name	Description
	<u>allObjectsParsed</u>	Indicates that all parsable objects have been consumed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>outstandingObjectsToParse</u>	Stores any objects that have not yet been parsed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>reader</u>	(Inherited from <u>ResponseParsingBase</u>)

▣ See Also

Reference

[GetBlockListResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Block Blobs](#)

[Get Block List \(REST API\)](#)

GetBlockListResponse 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](#))

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)
	ParseXml	Overridden. Parses the XML response returned by an operation to retrieve a list of blocks.
	Variable	This method is reserved and should not be used. (Inherited from ResponseParsingBase)

▣ See Also

Reference

[GetBlockListResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Block Blobs](#)

[Get Block List \(REST API\)](#)

GetBlockListResponse.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 retrieve a list of blocks.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
Dim returnValue As IEnumerable(Of ListBlockItem)  
returnValue = Me.ParseXml
```

▣ Syntax

Visual Basic

Protected Overrides Function ParseXml As **IEnumerable**

C#

protected override **IEnumerable**<**ListBlockItem**> ParseXi

C++

protected:
virtual **IEnumerable**<**ListBlockItem**^>^ ParseXml () ove

J#

JScript

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**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[GetBlockListResponse Class](#)

[GetBlockListResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Block Blobs](#)

[Get Block List \(REST API\)](#)

GetBlockListResponse 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](#))**

	Name	Description
	Blocks	Gets an enumerable collection of ListBlockItem objects from the response.

▣ Protected Properties

	Name	Description
	<u>ObjectsToParse</u>	Gets the parsable objects. This method is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)

▣ See Also

Reference

[GetBlockListResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Block Blobs](#)

[Get Block List \(REST API\)](#)

GetBlockListResponse.Blocks 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 [ListBlockItem](#) objects from the response.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
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#

```
public IEnumerable<ListBlockItem> Blocks { get; }
```

C++

```
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.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[GetBlockListResponse Class](#)

[GetBlockListResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Block Blobs](#)

[Get Block List \(REST API\)](#)

GetMessagesResponse 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 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

Visual Basic

```
Public Class GetMessagesResponse  
    Inherits ResponseParsingBase(Of QueueMessage)
```

C#

```
public class GetMessagesResponse : ResponseParsingBase
```

C++

```
public ref class GetMessagesResponse : 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

[Microsoft.WindowsAzure.StorageClient.Protocol.ResponseParsingBase](#)

Microsoft.WindowsAzure.StorageClient.Protocol.GetMessagesResponse

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[GetMessagesResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[List Queues](#)

[Operations on Queues](#)

GetMessagesResponse 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 an operation to get messages from a queue.

The following tables list the members exposed by the [GetMessagesResponse](#) type.

☐ Protected Fields

	Name	Description
	<u>allObjectsParsed</u>	Indicates that all parsable objects have been consumed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>outstandingObjectsToParse</u>	Stores any objects that have not yet been parsed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>reader</u>	(Inherited from <u>ResponseParsingBase</u>)

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▣ **Public Properties (see also [Protected Properties](#))**

	Name	Description
	Messages	Gets an enumerable collection of QueueMessage objects from the response.

[Top](#)

▣ Protected Properties

	Name	Description
	<u>ObjectsToParse</u>	Gets the parsable objects. This method is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

[Top](#)

▣ Protected Methods

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)
	ParseXml	Overridden. Parses the XML response returned by an operation to get messages from a queue.
	Variable	This method is reserved and should not be used. (Inherited from ResponseParsingBase)

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▣ See Also

Reference

[GetMessagesResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[List Queues](#)

[Operations on Queues](#)

GetMessagesResponse 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

	Name	Description
	<u>allObjectsParsed</u>	Indicates that all parsable objects have been consumed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>outstandingObjectsToParse</u>	Stores any objects that have not yet been parsed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>reader</u>	(Inherited from <u>ResponseParsingBase</u>)

▣ See Also

Reference

[GetMessagesResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[List Queues](#)

[Operations on Queues](#)

GetMessagesResponse 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](#))

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)
	ParseXml	Overridden. Parses the XML response returned by an operation to get messages from a queue.
	Variable	This method is reserved and should not be used. (Inherited from ResponseParsingBase)

▣ See Also

Reference

[GetMessagesResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
Dim returnValue As IEnumerable(Of QueueMessage)  
returnValue = Me.ParseXml
```

▣ Syntax

Visual Basic

```
Protected Overrides Function ParseXml As IEnumerable
```

C#

```
protected override IEnumerable<QueueMessage> ParseXml.
```

C++

```
protected:  
virtual IEnumerable<QueueMessage^>^ ParseXml () over
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[GetMessagesResponse Class](#)

[GetMessagesResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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](#))**

	Name	Description
	Messages	Gets an enumerable collection of QueueMessage objects from the response.

▣ Protected Properties

	Name	Description
	<u>ObjectsToParse</u>	Gets the parsable objects. This method is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)

▣ See Also

Reference

[GetMessagesResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
Dim instance As GetMessagesResponse  
Dim value As IEnumerable(Of QueueMessage)  
  
value = instance.Messages
```

▣ Syntax

Visual Basic

```
Public ReadOnly Property Messages As IEnumerable(Of (
```

C#

```
public IEnumerable<QueueMessage> Messages { get; }
```

C++

```
public:  
property 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[GetMessagesResponse Class](#)

[GetMessagesResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

[Microsoft.WindowsAzure.StorageClient.Protocol.ResponseParsingBase](#)

Microsoft.WindowsAzure.StorageClient.Protocol.GetPageRangesRespon

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[GetPageRangesResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Page Blobs](#)

[Get Page Ranges \(REST API\)](#)

GetPageRangesResponse 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 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

	Name	Description
	<u>allObjectsParsed</u>	Indicates that all parsable objects have been consumed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>outstandingObjectsToParse</u>	Stores any objects that have not yet been parsed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>reader</u>	(Inherited from <u>ResponseParsingBase</u>)

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▣ **Public Properties (see also [Protected Properties](#))**

	Name	Description
	PageRanges	Gets an enumerable collection of PageRange objects from the response.

[Top](#)

▣ Protected Properties

	Name	Description
	ObjectsToParse	Gets the parsable objects. This method is reserved and should not be used. (Inherited from ResponseParsingBase)

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☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

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Protected Methods

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)
	ParseXml	Overridden. Parses the XML response for an operation to get a range of pages for a page blob.
	Variable	This method is reserved and should not be used. (Inherited from ResponseParsingBase)

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▣ See Also

Reference

[GetPageRangesResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.]

☐ Protected Fields

	Name	Description
	<u>allObjectsParsed</u>	Indicates that all parsable objects have been consumed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>outstandingObjectsToParse</u>	Stores any objects that have not yet been parsed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>reader</u>	(Inherited from <u>ResponseParsingBase</u>)

▣ See Also

Reference

[GetPageRangesResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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](#))

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)
	ParseXml	Overridden. Parses the XML response for an operation to get a range of pages for a page blob.
	Variable	This method is reserved and should not be used. (Inherited from ResponseParsingBase)

▣ See Also

Reference

[GetPageRangesResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim returnValue 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[GetPageRangesResponse Class](#)

[GetPageRangesResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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](#))**

	Name	Description
	PageRanges	Gets an enumerable collection of PageRange objects from the response.

▣ Protected Properties

	Name	Description
	<u>ObjectsToParse</u>	Gets the parsable objects. This method is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)

▣ See Also

Reference

[GetPageRangesResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Page Blobs](#)

[Get Page Ranges \(REST API\)](#)

GetPageRangesResponse.PageRanges 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 [PageRange](#) objects from the response.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
Dim instance As GetPageRangesResponse  
Dim value As IEnumerable(Of PageRange)  
  
value = instance.PageRanges
```

▣ Syntax

Visual Basic

```
Public ReadOnly Property PageRanges As IEnumerable(Of
```

C#

```
public IEnumerable<PageRange> PageRanges { get; }
```

C++

```
public:  
property IEnumerable<PageRange^>^ PageRanges {  
    IEnumerable<PageRange^>^ get ();  
}
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[GetPageRangesResponse Class](#)

[GetPageRangesResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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 IListBlobEntry
```

☐ Syntax

Visual Basic

```
Public Interface IListBlobEntry
```

C#

```
public interface IListBlobEntry
```

C++

```
public interface class IListBlobEntry
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[IListBlobEntry Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[List Blobs \(REST API\)](#)

[Operations on Blobs](#)

IListBlobEntry Members

[See Also](#)



[This 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.

The following tables list the members exposed by the [IListBlobEntry](#) type.

▣ See Also

Reference

[IListBlobEntry Interface](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

Usage

Visual Basic

```
Dim instance As LeaseAction
```

☐ Syntax

Visual Basic

```
Public Enumeration LeaseAction
```

C#

```
public enum LeaseAction
```

C++

```
public enum class LeaseAction
```

J#

JScript

▣ Members

Member name	Description
Acquire	Acquire the lease.
Break	Break the lease.
Release	Release the lease.
Renew	Renew the lease.

▣ **Remarks**

For more details about this API, see the topics on the equivalent REST APIs in **See Also > Other Resources**.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Lease Container \(REST API\)](#)

[Lease Blob \(REST API\)](#)

ListBlobsResponse 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 a blob listing operation.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

Usage

Visual Basic

```
Dim instance As ListBlobsResponse
```

▣ Syntax

Visual Basic

```
Public Class ListBlobsResponse  
    Inherits ResponseParsingBase(Of IListBlobEnt
```

C#

```
public class ListBlobsResponse : ResponseParsingBase.
```

C++

```
public ref class ListBlobsResponse : public Response
```

J#

JScript

▣ Inheritance Hierarchy

System.Object

[Microsoft.WindowsAzure.StorageClient.Protocol.ResponseParsingBase](#)

Microsoft.WindowsAzure.StorageClient.Protocol.ListBlobsResponse

☐ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListBlobsResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)



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

	Name	Description
	<u>allObjectsParsed</u>	Indicates that all parsable objects have been consumed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>outstandingObjectsToParse</u>	Stores any objects that have not yet been parsed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>reader</u>	(Inherited from <u>ResponseParsingBase</u>)

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☐ **Public Properties (see also [Protected Properties](#))**

	Name	Description
	Blobs	Gets an enumerable collection of objects that implement IListBlobEntry from the response.
	Delimiter	Gets the Delimiter value provided for the listing operation from the XML response.
	ListingContext	Gets the listing context from the XML response.
	Marker	Gets the Marker value provided for the listing operation from the XML response.
	MaxResults	Gets the MaxResults value provided for the listing operation from the XML response.
	NextMarker	Gets the NextMarker value from the XML response, if the listing was not complete.
	Prefix	Gets the Prefix value provided for the listing operation from the XML response.

[Top](#)

▣ Protected Properties

	Name	Description
	ObjectsToParse	Gets the parsable objects. This method is reserved and should not be used. (Inherited from ResponseParsingBase)

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☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

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Protected Methods

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)
	ParseXml	Overridden. Parses the response XML for a blob listing operation.
	Variable	This method is reserved and should not be used. (Inherited from ResponseParsingBase)

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▣ See Also

Reference

[ListBlobsResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

	Name	Description
	<u>allObjectsParsed</u>	Indicates that all parsable objects have been consumed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>outstandingObjectsToParse</u>	Stores any objects that have not yet been parsed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>reader</u>	(Inherited from <u>ResponseParsingBase</u>)

▣ See Also

Reference

[ListBlobsResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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](#))

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)
	ParseXml	Overridden. Parses the response XML for a blob listing operation
	Variable	This method is reserved and should not be used. (Inherited from ResponseParsingBase)

▣ See Also

Reference

[ListBlobsResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

ListBlobsResponse.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 blob listing operation.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
Dim returnValue As IEnumerable(Of IListBlobEntry)  
returnValue = Me.ParseXml
```

▣ Syntax

Visual Basic

Protected Overrides Function ParseXml As **IEnumerable**

C#

protected override **IEnumerable**<**IListBlobEntry**> Parse

C++

protected:
virtual **IEnumerable**<**IListBlobEntry**> ParseXml () ov

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListBlobsResponse Class](#)

[ListBlobsResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Containers](#)

[List Blobs \(REST API\)](#)

ListBlobsResponse 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](#))**

	Name	Description
	Blobs	Gets an enumerable collection of objects that implement IListBlobEntry from the response.
	Delimiter	Gets the Delimiter value provided for the listing operation from the XML response.
	ListingContext	Gets the listing context from the XML response.
	Marker	Gets the Marker value provided for the listing operation from the XML response.
	MaxResults	Gets the MaxResults value provided for the listing operation from the XML response.
	NextMarker	Gets the NextMarker value from the XML response, if the listing was not complete.
	Prefix	Gets the Prefix value provided for the listing operation from the XML response.

▣ Protected Properties

	Name	Description
	<u>ObjectsToParse</u>	Gets the parsable objects. This method is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)

▣ See Also

Reference

[ListBlobsResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

ListBlobsResponse.Blobs 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 objects that implement [IListBlobEntry](#) from the 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 IEnumerable(Of IListBlobEntry)  
  
value = instance.Blobs
```

▣ Syntax

Visual Basic

```
Public ReadOnly Property Blobs As IEnumerable(Of ILi
```

C#

```
public IEnumerable<IListBlobEntry> Blobs { get; }
```

C++

```
public:  
property IEnumerable<IListBlobEntry^>^ Blobs {  
    IEnumerable<IListBlobEntry^>^ get ();  
}
```

J#

JScript

Property 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListBlobsResponse Class](#)

[ListBlobsResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

Visual Basic

```
Public ReadOnly Property Delimiter As String
```

C#

```
public string Delimiter { get; }
```

C++

```
public:  
property String^ Delimiter {  
    String^ get ();  
}
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListBlobsResponse Class](#)

[ListBlobsResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim instance As ListBlobsResponse  
Dim value As BlobListingContext  
  
value = instance.ListingContext
```

▣ Syntax

Visual Basic

```
Public ReadOnly Property ListingContext As BlobListin
```

C#

```
public BlobListingContext ListingContext { get; }
```

C++

```
public:  
property BlobListingContext^ ListingContext {  
    BlobListingContext^ get ();  
}
```

J#

JScript

Property Value

Type: [Microsoft.WindowsAzure.StorageClient.Protocol.BlobListingContext](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListBlobsResponse Class](#)

[ListBlobsResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

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.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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListBlobsResponse Class](#)

[ListBlobsResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListBlobsResponse Class](#)

[ListBlobsResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Public ReadOnly Property NextMarker As String
```

C#

```
public string NextMarker { get; }
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListBlobsResponse Class](#)

[ListBlobsResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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)

▣ Usage

Visual Basic

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListBlobsResponse Class](#)

[ListBlobsResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Enumerating Blob Resources \(REST API\)](#)

[Delimited Blob List](#)

[List Blobs \(REST API\)](#)

[List Containers \(REST API\)](#)

[XML Response Format](#)

ListContainersResponse 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 a container listing operation.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

Usage

Visual Basic

```
Dim instance As ListContainersResponse
```

▣ Syntax

Visual Basic

```
Public Class ListContainersResponse  
    Inherits ResponseParsingBase(Of BlobContainer)
```

C#

```
public class ListContainersResponse : ResponseParsingBase
```

C++

```
public ref class ListContainersResponse : public ResponseParsingBase
```

J#

JScript

▣ Inheritance Hierarchy

System.Object

[Microsoft.WindowsAzure.StorageClient.Protocol.ResponseParsingBase](#)

Microsoft.WindowsAzure.StorageClient.Protocol.ListContainersRespon

☐ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListContainersResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

ListContainersResponse 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 container listing operation.

The following tables list the members exposed by the [ListContainersResponse](#) type.

☐ Protected Fields

	Name	Description
	<u>allObjectsParsed</u>	Indicates that all parsable objects have been consumed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>outstandingObjectsToParse</u>	Stores any objects that have not yet been parsed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>reader</u>	(Inherited from <u>ResponseParsingBase</u>)

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☐ **Public Properties (see also [Protected Properties](#))**

	Name	Description
	Containers	Gets an enumerable collection of BlobContainerEntry objects from the response.
	ListingContext	Gets the listing context from the XML response.
	Marker	Gets the Marker value provided for the listing operation from the XML response.
	MaxResults	Gets the MaxResults value provided for the listing operation from the XML response.
	NextMarker	Gets the NextMarker value from the XML response, if the listing was not complete.
	Prefix	Gets the Prefix value provided for the listing operation from the XML response.

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▣ Protected Properties

	Name	Description
	ObjectsToParse	Gets the parsable objects. This method is reserved and should not be used. (Inherited from ResponseParsingBase)

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☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

[Top](#)

▣ Protected Methods

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)
	ParseXml	Overridden. Parses the response XML for a container listing operation.
	Variable	This method is reserved and should not be used. (Inherited from ResponseParsingBase)

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▣ See Also

Reference

[ListContainersResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.]

☐ Protected Fields

	Name	Description
	<u>allObjectsParsed</u>	Indicates that all parsable objects have been consumed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>outstandingObjectsToParse</u>	Stores any objects that have not yet been parsed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>reader</u>	(Inherited from <u>ResponseParsingBase</u>)

▣ See Also

Reference

[ListContainersResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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](#))

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)
	ParseXml	Overridden. Parses the response XML for a container listing operation.
	Variable	This method is reserved and should not be used. (Inherited from ResponseParsingBase)

▣ See Also

Reference

[ListContainersResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim returnValue As IEnumerable(Of BlobContainerEntry)  
returnValue = Me.ParseXml
```

▣ Syntax

Visual Basic

Protected Overrides Function ParseXml As **IEnumerable**

C#

protected override **IEnumerable**<**BlobContainerEntry**> ParseXml (

C++

protected:
virtual **IEnumerable**<**BlobContainerEntry**>^ ParseXml (

J#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListContainersResponse Class](#)

[ListContainersResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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](#))**

	Name	Description
	Containers	Gets an enumerable collection of BlobContainerEntry objects from the response.
	ListingContext	Gets the listing context from the XML response.
	Marker	Gets the Marker value provided for the listing operation from the XML response.
	MaxResults	Gets the MaxResults value provided for the listing operation from the XML response.
	NextMarker	Gets the NextMarker value from the XML response, if the listing was not complete.
	Prefix	Gets the Prefix value provided for the listing operation from the XML response.

▣ Protected Properties

	Name	Description
	<u>ObjectsToParse</u>	Gets the parsable objects. This method is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)

▣ See Also

Reference

[ListContainersResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ 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
```

C#

```
public IEnumerable<BlobContainerEntry> Containers {
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListContainersResponse Class](#)

[ListContainersResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim instance As ListContainersResponse  
Dim value As ListingContext  
  
value = instance.ListingContext
```

▣ Syntax

Visual Basic

```
Public ReadOnly Property ListingContext As ListingContext
```

C#

```
public ListingContext ListingContext { get; }
```

C++

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

J#

JScript

Property Value

Type: [Microsoft.WindowsAzure.StorageClient.Protocol.ListingContext](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListContainersResponse Class](#)

[ListContainersResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
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](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListContainersResponse Class](#)

[ListContainersResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListContainersResponse Class](#)

[ListContainersResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim instance As ListContainersResponse  
Dim value As String  
  
value = instance.NextMarker
```

▣ Syntax

Visual Basic

```
Public ReadOnly Property NextMarker As String
```

C#

```
public string NextMarker { get; }
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListContainersResponse Class](#)

[ListContainersResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
Dim instance As ListContainersResponse  
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListContainersResponse Class](#)

[ListContainersResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[List Containers \(REST API\)](#)

[Filtering List Results](#)

ListingContext 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 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

Visual Basic

```
Public Class ListingContext
```

C#

```
public class ListingContext
```

C++

```
public ref class ListingContext
```

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

Microsoft.WindowsAzure.StorageClient.Protocol.ListingContext

[Microsoft.WindowsAzure.StorageClient.Protocol.BlobListingContext](#)

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListingContext Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[List Containers \(REST API\)](#)

[Authorization](#)

[Request](#)

[Response](#)

ListingContext 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 listing context for enumeration operations.

The following tables list the members exposed by the [ListingContext](#) type.

▣ Public Constructors

Name	Description
ListingContext	Initializes a new instance of the ListingContext class.

[Top](#)

▣ **Public Properties**

	Name	Description
	<u>Marker</u>	Gets or sets the Marker value.
	<u>MaxResults</u>	Gets or sets the MaxResults value.
	<u>Prefix</u>	Gets or sets the Prefix value.

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

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▣ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ See Also

Reference

[ListingContext Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim prefix As String  
Dim maxResults As Nullable(Of Integer)  
  
Dim instance As New ListingContext(prefix, maxResults)
```

▣ Syntax

Visual Basic

```
Public Sub New ( _  
    prefix As String, _  
    maxResults As Nullable(Of Integer) _  
)
```

C#

```
public ListingContext (  
    string prefix,  
    Nullable<int> maxResults  
)
```

C++

```
public:  
ListingContext (  
    String^ prefix,  
    Nullable<int> maxResults  
)
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListingContext Class](#)

[ListingContext Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[List Containers \(REST API\)](#)

[Authorization](#)

[Request](#)

[Response](#)

ListingContext 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](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[ListingContext Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[List Containers \(REST API\)](#)

[Authorization](#)

[Request](#)

[Response](#)

ListingContext 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

	Name	Description
	<u>Marker</u>	Gets or sets the Marker value.
	<u>MaxResults</u>	Gets or sets the MaxResults value.
	<u>Prefix</u>	Gets or sets the Prefix value.

▣ See Also

Reference

[ListingContext Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[List Containers \(REST API\)](#)

[Authorization](#)

[Request](#)

[Response](#)

ListingContext.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 or sets the Marker value.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
Dim instance As ListingContext  
Dim value As String  
  
value = instance.Marker  
  
instance.Marker = value
```

▣ Syntax

Visual Basic

Public Property Marker As **String**

C#

```
public string Marker { get; set; }
```

C++

```
public:  
property String^ Marker {  
    String^ get ();  
    void set (String^ value);  
}
```

J#

JScript

Property Value

Type: [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListingContext Class](#)

[ListingContext Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListingContext Class](#)

[ListingContext Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[List Containers \(REST API\)](#)

[Enumerating Blob Resources \(REST API\)](#)

[Setting Maximum Results](#)

ListingContext.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 or sets the Prefix value.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
Dim instance As ListingContext  
Dim value As String  
  
value = instance.Prefix  
  
instance.Prefix = value
```

▣ Syntax

Visual Basic

```
Public Property Prefix As String
```

C#

```
public string Prefix { get; set; }
```

C++

```
public:  
property String^ Prefix {  
    String^ get ();  
    void set (String^ value);  
}
```

J#

JScript

Property Value

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListingContext Class](#)

[ListingContext Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[List Containers \(REST API\)](#)

[Enumerating Blob Resources \(REST API\)](#)

[Filtering List Results](#)

ListQueuesResponse 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 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 Response
```

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

[Microsoft.WindowsAzure.StorageClient.Protocol.ResponseParsingBase](#)

Microsoft.WindowsAzure.StorageClient.Protocol.ListQueuesResponse

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListQueuesResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

	Name	Description
	<u>allObjectsParsed</u>	Indicates that all parsable objects have been consumed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>outstandingObjectsToParse</u>	Stores any objects that have not yet been parsed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>reader</u>	(Inherited from <u>ResponseParsingBase</u>)

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▣ **Public Properties (see also [Protected Properties](#))**

	Name	Description
	ListingContext	Gets the listing context from the XML response.
	Marker	Gets the Marker value provided for the listing operation from the XML response.
	MaxResults	Gets the MaxResults value provided for the listing operation from the XML response.
	NextMarker	Gets the NextMarker value from the XML response, if the listing was not complete.
	Prefix	Gets the Prefix value provided for the listing operation from the XML response.
	Queues	Gets an enumerable collection of QueueEntry objects from the response.

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▣ Protected Properties

	Name	Description
	ObjectsToParse	Gets the parsable objects. This method is reserved and should not be used. (Inherited from ResponseParsingBase)

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☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

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☐ Protected Methods

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)
	ParseXml	Overridden. Parses the response XML for a queue listing operation.
	Variable	This method is reserved and should not be used. (Inherited from ResponseParsingBase)

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▣ See Also

Reference

[ListQueuesResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

	Name	Description
	<u>allObjectsParsed</u>	Indicates that all parsable objects have been consumed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>outstandingObjectsToParse</u>	Stores any objects that have not yet been parsed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>reader</u>	(Inherited from <u>ResponseParsingBase</u>)

▣ See Also

Reference

[ListQueuesResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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](#))

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)
	ParseXml	Overridden. Parses the response XML for a queue listing operation.
	Variable	This method is reserved and should not be used. (Inherited from ResponseParsingBase)

▣ See Also

Reference

[ListQueuesResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[List Queues](#)

ListQueuesResponse.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 queue listing operation.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
Dim returnValue As IEnumerable(Of QueueEntry)  
returnValue = Me.ParseXml
```

▣ Syntax

Visual Basic

Protected Overrides Function ParseXml As **IEnumerable**

C#

protected override **IEnumerable**<**QueueEntry**> ParseXml

C++

protected:
virtual **IEnumerable**<**QueueEntry**^>^ ParseXml () overrid

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListQueuesResponse Class](#)

[ListQueuesResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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](#))**

	Name	Description
	ListingContext	Gets the listing context from the XML response.
	Marker	Gets the Marker value provided for the listing operation from the XML response.
	MaxResults	Gets the MaxResults value provided for the listing operation from the XML response.
	NextMarker	Gets the NextMarker value from the XML response, if the listing was not complete.
	Prefix	Gets the Prefix value provided for the listing operation from the XML response.
	Queues	Gets an enumerable collection of QueueEntry objects from the response.

▣ Protected Properties

	Name	Description
	<u>ObjectsToParse</u>	Gets the parsable objects. This method is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)

▣ See Also

Reference

[ListQueuesResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
Dim instance As ListQueuesResponse  
Dim value As ListingContext  
  
value = instance.ListingContext
```

▣ Syntax

Visual Basic

```
Public ReadOnly Property ListingContext As ListingContext
```

C#

```
public ListingContext ListingContext { get; }
```

C++

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

J#

JScript

Property Value

Type: [Microsoft.WindowsAzure.StorageClient.Protocol.ListingContext](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListQueuesResponse Class](#)

[ListQueuesResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim instance As ListQueuesResponse  
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListQueuesResponse Class](#)

[ListQueuesResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListQueuesResponse Class](#)

[ListQueuesResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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)

▣ Usage

Visual Basic

```
Dim instance As ListQueuesResponse  
Dim value As String  
  
value = instance.NextMarker
```

▣ Syntax

Visual Basic

```
Public ReadOnly Property NextMarker As String
```

C#

```
public string NextMarker { get; }
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListQueuesResponse Class](#)

[ListQueuesResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[List Queues](#)

[Retrieving Partial List Results with Markers](#)

ListQueuesResponse.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)

▣ Usage

Visual Basic

```
Dim instance As ListQueuesResponse  
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListQueuesResponse Class](#)

[ListQueuesResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[List Queues](#)

[Filtering List Results](#)

ListQueuesResponse.Queues 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 [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#

```
public IEnumerable<QueueEntry> Queues { get; }
```

C++

```
public:  
property IEnumerable<QueueEntry^>^ Queues {  
    IEnumerable<QueueEntry^>^ get ();  
}
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ListQueuesResponse Class](#)

[ListQueuesResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

Usage

Visual Basic

```
Dim instance As LoggingOperations
```

☐ Syntax

Visual Basic

```
<FlagsAttribute> _  
Public Enumeration LoggingOperations
```

C#

```
[FlagsAttribute]  
public enum LoggingOperations
```

C++

```
[FlagsAttribute]  
public enum class LoggingOperations
```

J#

JScript

▣ Members

Member name	Description
All	Indicates whether all storage service operations should be logged.
Delete	Indicates whether all delete requests should be logged.
None	Indicates if no operations should be logged.
Read	Indicates whether read operations should be logged.
Write	Indicates whether write operations should be logged.

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Get Blob Service Properties](#)

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[Get Queue Service Properties](#)

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[Get Table Service Properties](#)

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LoggingProperties 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.]

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
```

☐ Syntax

Visual Basic

```
Public Class LoggingProperties
```

C#

```
public class LoggingProperties
```

C++

```
public ref class LoggingProperties
```

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

Microsoft.WindowsAzure.StorageClient.Protocol.LoggingProperties

☐ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[LoggingProperties Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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LoggingProperties 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.]

The logging properties for Windows Azure Storage Analytics.

The following tables list the members exposed by the [LoggingProperties](#) type.

▣ **Public Constructors**

	Name	Description
	LoggingProperties	

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▣ Public Properties

	Name	Description
	LoggingOperations	Gets the logged operations for an account's storage service.
	RetentionDays	Gets the number of days that the logging data will be retained.
	Version	Gets the version of analytics for the storage service.

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

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☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

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▣ See Also

Reference

[LoggingProperties Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

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[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)

▣ Usage

Visual Basic

```
Dim instance As New LoggingProperties
```


☐ Syntax

Visual Basic

```
Public Sub New
```

C#

```
public LoggingProperties ()
```

C++

```
public:  
LoggingProperties ()
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[LoggingProperties Class](#)

[LoggingProperties Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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[Get Queue Service Properties](#)

[Set Queue Service Properties](#)

[Get Table Service Properties](#)

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LoggingProperties 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](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[LoggingProperties Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Get Blob Service Properties](#)

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LoggingProperties 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

	Name	Description
	LoggingOperations	Gets the logged operations for an account's storage service.
	RetentionDays	Gets the number of days that the logging data will be retained.
	Version	Gets the version of analytics for the storage service.

▣ See Also

Reference

[LoggingProperties Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.LoggingOperations 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 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++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[LoggingProperties Class](#)

[LoggingProperties Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

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[Get Queue Service Properties](#)

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[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

```
Dim instance As LoggingProperties  
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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[LoggingProperties Class](#)

[LoggingProperties Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

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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

Visual Basic

Public Property Version As **String**

C#

```
public string Version { get; set; }
```

C++

```
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**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[LoggingProperties Class](#)

[LoggingProperties Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

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[Get Queue Service Properties](#)

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[Get Table Service Properties](#)

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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

Visual Basic

```
Public Enumeration MetricsLevel
```

C#

```
public enum MetricsLevel
```

C++

```
public enum class MetricsLevel
```

J#

JScript

▣ Members

Member name	Description
None	Indicates that no operations should be used to generate metrics.
Service	Indicates that only service operations should be used to generate metrics.
ServiceAndApi	Indicates that service and API operations should be used to generate metrics.

▣ **Remarks**

For more details about this API, see the topics on the equivalent REST APIs in **See Also > Other Resources**.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

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[Get Table Service Properties](#)

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MetricsProperties 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.]

Indicates the metrics 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 MetricsProperties
```

☐ 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

Microsoft.WindowsAzure.StorageClient.Protocol.MetricsProperties

☐ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[MetricsProperties Members](#)

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MetricsProperties 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.]

Indicates the metrics properties for Windows Azure Storage Analytics.

The following tables list the members exposed by the [MetricsProperties](#) type.

▣ **Public Constructors**

	Name	Description
	MetricsProperties	

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Public Properties

	Name	Description
	MetricsLevel	Gets the metrics level for the storage service.
	RetentionDays	Gets the number of days to retain data for metrics.
	Version	Indicates the version of Storage Analytics for the storage service.

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☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

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☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

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▣ See Also

Reference

[MetricsProperties Class](#)

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[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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

Usage

Visual Basic

```
Dim instance As New MetricsProperties
```

Syntax

Visual Basic

```
Public Sub New
```

C#

```
public MetricsProperties ()
```

C++

```
public:  
MetricsProperties ()
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[MetricsProperties Class](#)

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Metrics**Properties** **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](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[MetricsProperties Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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Metrics**Properties** **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

	Name	Description
	<u>MetricsLevel</u>	Gets the metrics level for the storage service.
	<u>RetentionDays</u>	Gets the number of days to retain data for metrics.
	<u>Version</u>	Indicates the version of Storage Analytics for the storage service.

▣ See Also

Reference

[MetricsProperties Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Public Property MetricsLevel As MetricsLevel
```

C#

```
public MetricsLevel MetricsLevel { get; set; }
```

C++

```
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**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[MetricsProperties Class](#)

[MetricsProperties Members](#)

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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](#)

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

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[MetricsProperties Class](#)

[MetricsProperties Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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[Get Table Service Properties](#)

[Set Table Service Properties](#)

MetricsProperties.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.]

Indicates the version of Storage 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 MetricsProperties  
Dim value As String  
  
value = instance.Version  
  
instance.Version = value
```

▣ Syntax

Visual Basic

Public Property Version As **String**

C#

```
public string Version { get; set; }
```

C++

```
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**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[MetricsProperties Class](#)

[MetricsProperties Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

Usage

Visual Basic

```
Dim instance As PageWrite
```

☐ Syntax

Visual Basic

```
Public Enumeration PageWrite
```

C#

```
public enum PageWrite
```

C++

```
public enum class PageWrite
```

J#

JScript

☐ **Members**

Member name	Description
Clear	Clear the page.
Update	Update the page with new data.

▣ **Remarks**

For more details about this API, see the topics on the equivalent REST APIs in **See Also > Other Resources**.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Page Blobs](#)

[Get Page Ranges \(REST API\)](#)

[Put Page \(REST API\)](#)

PeekMessagesResponse 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 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

```
Public Class PeekMessagesResponse  
    Inherits ResponseParsingBase(Of QueueMessage)
```

C#

```
public class PeekMessagesResponse : ResponseParsingBase
```

C++

```
public ref class PeekMessagesResponse : 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

[Microsoft.WindowsAzure.StorageClient.Protocol.ResponseParsingBase](#)

Microsoft.WindowsAzure.StorageClient.Protocol.PeekMessagesRespons

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[PeekMessagesResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Messages](#)

[Peek Messages](#)

PeekMessagesResponse 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 an operation to peek messages from a queue.

The following tables list the members exposed by the [PeekMessagesResponse](#) type.

☐ Protected Fields

	Name	Description
	<u>allObjectsParsed</u>	Indicates that all parsable objects have been consumed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>outstandingObjectsToParse</u>	Stores any objects that have not yet been parsed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>reader</u>	(Inherited from <u>ResponseParsingBase</u>)

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▣ **Public Properties (see also [Protected Properties](#))**

	Name	Description
	Messages	Gets an enumerable collection of QueueMessage objects from the response.

[Top](#)

▣ Protected Properties

	Name	Description
	ObjectsToParse	Gets the parsable objects. This method is reserved and should not be used. (Inherited from ResponseParsingBase)

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

[Top](#)

▣ Protected Methods

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)
	ParseXml	Overridden. Parses the XML response returned by an operation to get messages from a queue.
	Variable	This method is reserved and should not be used. (Inherited from ResponseParsingBase)

[Top](#)

▣ See Also

Reference

[PeekMessagesResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Messages](#)

[Peek Messages](#)

PeekMessagesResponse 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

	Name	Description
	<u>allObjectsParsed</u>	Indicates that all parsable objects have been consumed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>outstandingObjectsToParse</u>	Stores any objects that have not yet been parsed. This field is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)
	<u>reader</u>	(Inherited from <u>ResponseParsingBase</u>)

▣ See Also

Reference

[PeekMessagesResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Messages](#)

[Peek Messages](#)

PeekMessagesResponse 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](#))

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Dispose	Overloaded. (Inherited from ResponseParsingBase)
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)
	ParseXml	Overridden. Parses the XML response returned by an operation to get messages from a queue.
	Variable	This method is reserved and should not be used. (Inherited from ResponseParsingBase)

▣ See Also

Reference

[PeekMessagesResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
Dim returnValue As IEnumerable(Of QueueMessage)  
returnValue = Me.ParseXml
```

▣ Syntax

Visual Basic

Protected Overrides Function ParseXml As **IEnumerable**

C#

protected override **IEnumerable**<**QueueMessage**> ParseXml.

C++

protected:
virtual **IEnumerable**<**QueueMessage**^>^ ParseXml () over

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[PeekMessagesResponse Class](#)

[PeekMessagesResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Messages](#)

[Peek Messages](#)

PeekMessagesResponse 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](#))**

	Name	Description
	Messages	Gets an enumerable collection of QueueMessage objects from the response.

▣ Protected Properties

	Name	Description
	<u>ObjectsToParse</u>	Gets the parsable objects. This method is reserved and should not be used. (Inherited from <u>ResponseParsingBase</u>)

▣ See Also

Reference

[PeekMessagesResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Messages](#)

[Peek Messages](#)

PeekMessagesResponse.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.

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 (
```

C#

```
public IEnumerable<QueueMessage> Messages { get; }
```

C++

```
public:  
property 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[PeekMessagesResponse Class](#)

[PeekMessagesResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Messages](#)

[Peek Messages](#)

PutBlockListItem 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 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

```
Public Class PutBlockListItem
```

C#

```
public class PutBlockListItem
```

C++

```
public ref class PutBlockListItem
```

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

Microsoft.WindowsAzure.StorageClient.Protocol.PutBlockListItem

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[PutBlockListItem Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Block Blobs](#)

[Put Block \(REST API\)](#)

[Get Block List \(REST API\)](#)

[Put Block List \(REST API\)](#)

PutBlockListItem 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 block in a block list.

The following tables list the members exposed by the [PutBlockListItem](#) type.

▣ Public Constructors

Name	Description
PutBlockListItem	Initializes a new instance of the PutBlockListItem class.

[Top](#)

▣ Public Properties

	Name	Description
	Id	Gets the block ID.
	SearchMode	Gets a value that indicates which block lists to search for the block.

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

[Top](#)

▣ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ See Also

Reference

[PutBlockListItem Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim id As String  
Dim searchMode As BlockSearchMode  
  
Dim instance As New PutBlockListItem(id, searchMode)
```

▣ Syntax

Visual Basic

```
Public Sub New ( _  
    id As String, _  
    searchMode As BlockSearchMode _  
)
```

C#

```
public PutBlockListItem (  
    string id,  
    BlockSearchMode searchMode  
)
```

C++

```
public:  
PutBlockListItem (  
    String^ id,  
    BlockSearchMode searchMode  
)
```

J#

JScript

Parameters

id

Type: [System.String](#)

The block ID.

searchMode

Type: [Microsoft.WindowsAzure.StorageClient.Protocol.BlockSearchMode](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[PutBlockListItem Class](#)

[PutBlockListItem Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[PutBlockListItem Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Block Blobs](#)

[Put Block \(REST API\)](#)

[Get Block List \(REST API\)](#)

[Put Block List \(REST API\)](#)

PutBlockListItem 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

	Name	Description
	Id	Gets the block ID.
	SearchMode	Gets a value that indicates which block lists to search for the block.

▣ See Also

Reference

[PutBlockListItem Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
Dim instance As PutBlockListItem  
Dim value As String  
  
value = instance.Id
```

▣ Syntax

Visual Basic

```
Public Property Id As String
```

C#

```
public string Id { get; }
```

C++

```
public:  
property String^ Id {  
    String^ get ();  
}
```

J#

JScript

Property Value

Type: [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[PutBlockListItem Class](#)

[PutBlockListItem Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Block Blobs](#)

[Put Block \(REST API\)](#)

[Get Block List \(REST API\)](#)

[Put Block List \(REST API\)](#)

PutBlockListItem.SearchMode 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 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

```
Dim instance As PutBlockListItem  
Dim value As BlockSearchMode  
  
value = instance.SearchMode
```

▣ Syntax

Visual Basic

```
Public Property SearchMode As BlockSearchMode
```

C#

```
public BlockSearchMode SearchMode { get; }
```

C++

```
public:  
property BlockSearchMode SearchMode {  
    BlockSearchMode get ();  
}
```

J#

JScript

Property Value

Type: [Microsoft.WindowsAzure.StorageClient.Protocol.BlockSearchMode](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[PutBlockListItem Class](#)

[PutBlockListItem Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Block Blobs](#)

[Put Block \(REST API\)](#)

[Get Block List \(REST API\)](#)

[Put Block List \(REST API\)](#)

PutPageProperties 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 properties for writing to a page blob.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

Usage

Visual Basic

```
Dim instance As PutPageProperties
```

☐ Syntax

Visual Basic

```
Public Class PutPageProperties
```

C#

```
public class PutPageProperties
```

C++

```
public ref class PutPageProperties
```

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

Microsoft.WindowsAzure.StorageClient.Protocol.PutPageProperties

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[PutPageProperties Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Page Blobs](#)

[Get Page Ranges \(REST API\)](#)

[Put Page \(REST API\)](#)

PutPageProperties 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 properties for writing to a page blob.

The following tables list the members exposed by the [PutPageProperties](#) type.

▣ Public Constructors

Name	Description
PutPageProperties	Initializes a new instance of the PutPageProperties class.

[Top](#)

▣ **Public Properties**

	Name	Description
	<u>PageWrite</u>	Gets or sets the type of write operation.
	<u>Range</u>	Gets or sets the range of bytes to write to.

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ See Also

Reference

[PutPageProperties Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Page Blobs](#)

[Get Page Ranges \(REST API\)](#)

[Put Page \(REST API\)](#)

PutPageProperties 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 [PutPageProperties](#) class.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

Usage

Visual Basic

```
Dim instance As New PutPageProperties
```


Syntax

Visual Basic

```
Public Sub New
```

C#

```
public PutPageProperties ()
```

C++

```
public:  
PutPageProperties ()
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[PutPageProperties Class](#)

[PutPageProperties Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Page Blobs](#)

[Get Page Ranges \(REST API\)](#)

[Put Page \(REST API\)](#)

PutPageProperties 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](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[PutPageProperties Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Page Blobs](#)

[Get Page Ranges \(REST API\)](#)

[Put Page \(REST API\)](#)

PutPageProperties 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

	Name	Description
	PageWrite	Gets or sets the type of write operation.
	Range	Gets or sets the range of bytes to write to.

▣ See Also

Reference

[PutPageProperties Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Page Blobs](#)

[Get Page Ranges \(REST API\)](#)

[Put Page \(REST API\)](#)

PutPageProperties.PageWrite 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 type of write operation.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
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

Type: [Microsoft.WindowsAzure.StorageClient.Protocol.PageWrite](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[PutPageProperties Class](#)

[PutPageProperties Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

Visual Basic

```
Public Property Range As PageRange
```

C#

```
public PageRange Range { get; set; }
```

C++

```
public:  
property PageRange^ Range {  
    PageRange^ get ();  
    void set (PageRange^ value);  
}
```

J#

JScript

Property Value

Type: [Microsoft.WindowsAzure.StorageClient.PageRange](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[PutPageProperties Class](#)

[PutPageProperties Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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
```

☐ Syntax

Visual Basic

```
Public Class QueueEntry
```

C#

```
public class QueueEntry
```

C++

```
public ref class QueueEntry
```

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

Microsoft.WindowsAzure.StorageClient.Protocol.QueueEntry

☐ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueEntry Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Queue Service REST API](#)

[List Queues](#)

[Operations on Messages](#)

QueueEntry 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 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**

	Name	Description
	<u>Attributes</u>	Gets the queue's attributes.
	<u>Name</u>	Gets the name of the queue.

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☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

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☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

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▣ See Also

Reference

[QueueEntry Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Queue Service REST API](#)

[List Queues](#)

[Operations on Messages](#)

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](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[QueueEntry Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Queue Service REST API](#)

[List Queues](#)

[Operations on Messages](#)

QueueEntry 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

	Name	Description
	<u>Attributes</u>	Gets the queue's attributes.
	<u>Name</u>	Gets the name of the queue.

▣ See Also

Reference

[QueueEntry Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim instance As QueueEntry  
Dim value As QueueAttributes  
  
value = instance.Attributes
```

▣ Syntax

Visual Basic

```
Public Property Attributes As QueueAttributes
```

C#

```
public QueueAttributes Attributes { get; }
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueEntry Class](#)

[QueueEntry Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim instance As QueueEntry  
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 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueEntry Class](#)

[QueueEntry Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Queue Service REST API](#)

[List Queues](#)

[Operations on Messages](#)

QueueMessage 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 message retrieved from a queue.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

Usage

Visual Basic

```
Dim instance As QueueMessage
```

☐ Syntax

Visual Basic

```
Public Class QueueMessage
```

C#

```
public class QueueMessage
```

C++

```
public ref class QueueMessage
```

J#

JScript

▣ **Inheritance Hierarchy**

System.Object

Microsoft.WindowsAzure.StorageClient.Protocol.QueueMessage

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueMessage Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

QueueMessage 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 message retrieved from a queue.

The following tables list the members exposed by the [QueueMessage](#) type.

☐ Public Properties

	Name	Description
	DequeueCount	Gets the number of times this message has been dequeued.
	ExpirationTime	Gets the message expiration time.
	Id	Gets the message ID.
	InsertionTime	Gets the time the message was added to the queue.
	PopReceipt	Gets the pop receipt for the message.
	Text	Gets the text of the message.
	TimeNextVisible	Gets the time the message is next visible.

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☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

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☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ See Also

Reference

[QueueMessage Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

QueueMessage 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](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[QueueMessage Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

QueueMessage 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

	Name	Description
	DequeueCount	Gets the number of times this message has been dequeued.
	ExpirationTime	Gets the message expiration time.
	Id	Gets the message ID.
	InsertionTime	Gets the time the message was added to the queue.
	PopReceipt	Gets the pop receipt for the message.
	Text	Gets the text of the message.
	TimeNextVisible	Gets the time the message is next visible.

▣ See Also

Reference

[QueueMessage Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
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](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueMessage Class](#)

[QueueMessage Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

Visual Basic

```
Dim instance As QueueMessage  
Dim value As DateTime  
  
value = instance.ExpirationTime
```

▣ Syntax

Visual Basic

```
Public Property ExpirationTime As DateTime
```

C#

```
public DateTime ExpirationTime { get; }
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueMessage Class](#)

[QueueMessage Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim instance As QueueMessage  
Dim value As String  
  
value = instance.Id
```

▣ Syntax

Visual Basic

```
Public Property Id As String
```

C#

```
public string Id { get; }
```

C++

```
public:  
property String^ Id {  
    String^ get ();  
}
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueMessage Class](#)

[QueueMessage Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim instance As QueueMessage  
Dim value As DateTime  
  
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueMessage Class](#)

[QueueMessage Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
Dim instance As QueueMessage  
Dim value As String  
  
value = instance.PopReceipt
```

▣ Syntax

Visual Basic

```
Public Property PopReceipt As String
```

C#

```
public string PopReceipt { get; }
```

C++

```
public:  
property String^ PopReceipt {  
    String^ get ();  
}
```

J#

JScript

Property Value

Type: [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 (**Shared** in Visual Basic) members of this type are thread safe
Any instance members are not guaranteed to be thread safe.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueMessage Class](#)

[QueueMessage Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim instance As QueueMessage  
Dim value As String  
  
value = instance.Text
```

▣ Syntax

Visual Basic

```
Public Property Text As String
```

C#

```
public string Text { get; }
```

C++

```
public:  
property String^ Text {  
    String^ get ();  
}
```

J#

JScript

Property Value

Type: [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueMessage Class](#)

[QueueMessage Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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)

▣ Usage

Visual Basic

```
Dim instance As QueueMessage  
Dim value As Nullable(Of DateTime)  
  
value = instance.TimeNextVisible
```

▣ Syntax

Visual Basic

```
Public Property TimeNextVisible As Nullable(Of DateT...
```

C#

```
public Nullable<DateTime> TimeNextVisible { get; }
```

C++

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

J#

JScript

Property Value

Type: [System.Nullable](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueMessage Class](#)

[QueueMessage Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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)

Usage

Visual Basic

☐ Syntax

Visual Basic

```
Public NotInheritable Class QueueRequest
```

C#

```
public static class QueueRequest
```

C++

```
public ref class QueueRequest abstract sealed
```

J#

JScript

▣ **Inheritance Hierarchy**

System.Object

Microsoft.WindowsAzure.StorageClient.Protocol.QueueRequest

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)



QueueRequest 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 queue operations.

The following tables list the members exposed by the [QueueRequest](#) type.

Public Methods

	Name	Description
	AddMetadata	Overloaded.
	ClearMessages	Constructs a web request to clear all messages in the queue.
	Create	Constructs a web request to create a queue.
	Delete	Constructs a web request to delete a queue.
	DeleteMessage	Constructs a web request to delete the specified message.
	GenerateMessageRequestBody	Generates the message request body from a string containing the message.
	GetMessages	Constructs a web request to retrieve a specified number of messages.
	GetMetadata	Constructs a web request to return the user-defined metadata for the queue.
	GetServiceProperties	Gets the properties of an account's Queue service.
	List	Constructs a web request to return a listing of all queues in the storage account.
	PeekMessages	Constructs a web request to retrieve a specified number of messages without changing their visibility.
	PutMessage	Overloaded.
	SetMetadata	Constructs a web request to set user-defined metadata for the queue.
	SetServiceProperties	Sets the properties of an account's Queue service.
	SignRequest	Signs the request for Shared Key authentication.
	SignRequestForSharedKeyLite	Signs the request for Shared Key Lite authentication.

	UpdateMessage	Updates a queue message.
	WriteServiceProperties	Writes the Queue service properties to an output stream.

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▣ See Also

Reference

[QueueRequest Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

	Name	Description
	AddMetadata	Overloaded.
	ClearMessages	Constructs a web request to clear all messages in the queue.
	Create	Constructs a web request to create a queue.
	Delete	Constructs a web request to delete a queue.
	DeleteMessage	Constructs a web request to delete the specified message.
	GenerateMessageRequestBody	Generates the message request body from a string containing the message.
	GetMessages	Constructs a web request to retrieve a specified number of messages.
	GetMetadata	Constructs a web request to return the user-defined metadata for the queue.
	GetServiceProperties	Gets the properties of an account's Queue service.
	List	Constructs a web request to return a listing of all queues in the storage account.
	PeekMessages	Constructs a web request to retrieve a specified number of messages without changing their visibility.
	PutMessage	Overloaded.
	SetMetadata	Constructs a web request to set user-defined metadata for the queue.
	SetServiceProperties	Sets the properties of an account's Queue service.
	SignRequest	Signs the request for Shared Key authentication.
	SignRequestForSharedKeyLite	Signs the request for Shared Key Lite authentication.

	UpdateMessage	Updates a queue message.
	WriteServiceProperties	Writes the Queue service properties to an output stream.

▣ See Also

Reference

[QueueRequest Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

Name	Description
QueueRequest.AddMetadata (HttpRequest, NameValueCollection)	Adds user-defined metadata to the request as one or more name-value pairs.
QueueRequest.AddMetadata (HttpRequest, String, String)	Adds user-defined metadata to the request as a single name-value pair.

▣ See Also

Reference

[QueueRequest Class](#)

[QueueRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Get Queue Metadata](#)

[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.

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  
  
QueueRequest.AddMetadata(request, metadata)
```

▣ Syntax

Visual Basic

```
Public Shared Sub AddMetadata ( _  
    request As HttpRequest, _  
    metadata As NameValueCollection _  
)
```

C#

```
public static void AddMetadata (  
    HttpRequest request,  
    NameValueCollection metadata  
)
```

C++

```
public:  
static void AddMetadata (  
    HttpRequest^ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueRequest Class](#)

[QueueRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim request As HttpRequest  
Dim name As String  
Dim value As String
```

```
QueueRequest.AddMetadata(request, name, value)
```

▣ Syntax

Visual Basic

```
Public Shared Sub AddMetadata ( _  
    request As HttpRequest, _  
    name As String, _  
    value As String _  
)
```

C#

```
public static void AddMetadata (  
    HttpRequest 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueRequest Class](#)

[QueueRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.CleanMessages(uri, timeout)
```

▣ Syntax

Visual Basic

```
Public Shared Function ClearMessages ( _  
    uri As Uri, _  
    timeout As Integer _  
) As HttpRequest
```

C#

```
public static HttpRequest ClearMessages (  
    Uri uri,  
    int timeout  
)
```

C++

```
public:  
static HttpRequest^ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueRequest Class](#)

[QueueRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim uri As Uri  
Dim timeout As Integer  
Dim returnValue As HttpWebRequest  
  
returnValue = QueueRequest.Create(uri, timeout)
```

▣ Syntax

Visual Basic

```
Public Shared Function Create ( _  
    uri As Uri, _  
    timeout As Integer _  
) As HttpRequest
```

C#

```
public static HttpRequest Create (  
    Uri uri,  
    int timeout  
)
```

C++

```
public:  
static HttpRequest^ Create (  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueRequest Class](#)

[QueueRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Queue Service REST API](#)

[Create Queue](#)

[Delete Queue](#)

[Naming Queues and Metadata](#)

[Queue Service Error Codes](#)

QueueRequest.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 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

Visual Basic

```
Public Shared Function Delete ( _  
    uri As Uri, _  
    timeout As Integer _  
) As HttpRequest
```

C#

```
public static HttpRequest Delete (  
    Uri uri,  
    int timeout  
)
```

C++

```
public:  
static HttpRequest^ Delete (  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueRequest Class](#)

[QueueRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

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 popReceipt As String  
Dim returnValue As HttpWebRequest  
  
returnValue = QueueRequest.DeleteMessage(uri, timeout)
```

▣ Syntax

Visual Basic

```
Public Shared Function DeleteMessage ( _  
    uri As Uri, _  
    timeout As Integer, _  
    popReceipt As String _  
) As HttpRequest
```

C#

```
public static HttpRequest DeleteMessage (  
    Uri uri,  
    int timeout,  
    string popReceipt  
)
```

C++

```
public:  
static HttpRequest^ DeleteMessage (  
    Uri^ uri,  
    int timeout,  
    String^ popReceipt  
)
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueRequest Class](#)

[QueueRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Messages](#)

[Clear Messages](#)

[Delete Message](#)

[Get Messages](#)

[Peek Messages](#)

[Put Message](#)

[Update Message](#)

QueueRequest.GenerateMessageRequestBody 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.]

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

```
Dim message As String  
Dim returnValue As Byte()  
  
returnValue = QueueRequest.GenerateMessageRequestBody()
```

▣ Syntax

Visual Basic

```
Public Shared Function GenerateMessageRequestBody ( _  
    message As String _  
) As Byte()
```

C#

```
public static byte[] GenerateMessageRequestBody (   
    string message  
)
```

C++

```
public:  
static array<unsigned char>^ GenerateMessageRequestB  
(  
    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.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueRequest Class](#)

[QueueRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Put Message](#)

[Update Message](#)

QueueRequest.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.]

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

```
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

```
Public Shared Function GetMessages ( _  
    uri As Uri, _  
    timeout As Integer, _  
    numberOfMessages As Nullable(Of Integer), _  
    visibilityTimeout As Nullable(Of Integer) _  
) As HttpRequest
```

C#

```
public static HttpRequest GetMessages (  
    Uri uri,  
    int timeout,  
    Nullable<int> numberOfMessages,  
    Nullable<int> visibilityTimeout  
)
```

C++

```
public:  
static HttpRequest^ 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](#)

The number of messages to retrieve.

visibilityTimeout

Type: [System.Nullable](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueRequest Class](#)

[QueueRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

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.GetMetadata(uri, timeout)
```

▣ Syntax

Visual Basic

```
Public Shared Function GetMetadata ( _  
    uri As Uri, _  
    timeout As Integer _  
) As HttpRequest
```

C#

```
public static HttpRequest GetMetadata (  
    Uri uri,  
    int timeout  
)
```

C++

```
public:  
static HttpRequest^ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueRequest Class](#)

[QueueRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim uri As Uri  
Dim timeout As Integer  
Dim returnValue As HttpWebRequest  
  
returnValue = QueueRequest.GetServiceProperties(uri,
```

▣ Syntax

Visual Basic

```
Public Shared Function GetServiceProperties ( _  
    uri As Uri, _  
    timeout As Integer _  
) As HttpRequest
```

C#

```
public static HttpRequest GetServiceProperties (   
    Uri uri,   
    int timeout   
)
```

C++

```
public:   
static HttpRequest^ GetServiceProperties (   
    Uri^ uri,   
    int timeout   
)
```

J#

JScript

Parameters

uri

The absolute URI to the queue.

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueRequest Class](#)

[QueueRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

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 ListingContext  
Dim detailsIncluded As QueueListingDetails  
Dim returnValue As HttpWebRequest  
  
returnValue = QueueRequest.List(uri, timeout, listingContext, detailsIncluded)
```

▣ Syntax

Visual Basic

```
Public Shared Function List ( _  
    uri As Uri, _  
    timeout As Integer, _  
    listingContext As ListingContext, _  
    detailsIncluded As QueueListingDetails _  
) As HttpRequest
```

C#

```
public static HttpRequest List (  
    Uri uri,  
    int timeout,  
    ListingContext listingContext,  
    QueueListingDetails detailsIncluded  
)
```

C++

```
public:  
static HttpRequest^ 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

Type: [Microsoft.WindowsAzure.StorageClient.Protocol.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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueRequest Class](#)

[QueueRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

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 numberOfMessages As Nullable(Of Integer)  
Dim returnValue As HttpRequest  
  
returnValue = QueueRequest.PeekMessages(uri, timeout,
```

▣ Syntax

Visual Basic

```
Public Shared Function PeekMessages ( _  
    uri As Uri, _  
    timeout As Integer, _  
    numberOfMessages As Nullable(Of Integer) _  
) As HttpRequest
```

C#

```
public static HttpRequest PeekMessages (  
    Uri uri,  
    int timeout,  
    Nullable<int> numberOfMessages  
)
```

C++

```
public:  
static HttpRequest^ PeekMessages (  
    Uri^ uri,  
    int timeout,  
    Nullable<int> numberOfMessages  
)
```

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](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueRequest Class](#)

[QueueRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

Name	Description
QueueRequest.PutMessage (Uri, Int32, Nullable)	Constructs a web request to add a message to the queue.
QueueRequest.PutMessage (Uri, Int32, Nullable, Nullable)	Constructs a web request to add a message to the queue.

▣ See Also

Reference

[QueueRequest Class](#)

[QueueRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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 HttpRequest  
  
returnValue = QueueRequest.PutMessage(uri, timeout, messageTimeToLive)
```

▣ Syntax

Visual Basic

```
Public Shared Function PutMessage ( _  
    uri As Uri, _  
    timeout As Integer, _  
    messageTimeToLive As Nullable(Of Integer) _  
) As HttpRequest
```

C#

```
public static HttpRequest PutMessage (  
    Uri uri,  
    int timeout,  
    Nullable<int> messageTimeToLive  
)
```

C++

```
public:  
static HttpRequest^ PutMessage (  
    Uri^ uri,  
    int timeout,  
    Nullable<int> messageTimeToLive  
)
```

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](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueRequest Class](#)

[QueueRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

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 visibilityTimeout As Nullable(Of Integer)  
Dim returnValue As HttpWebRequest  
  
returnValue = QueueRequest.PutMessage(uri, timeout, 1
```

▣ Syntax

Visual Basic

```
Public Shared Function PutMessage ( _  
    uri As Uri, _  
    timeout As Integer, _  
    messageTimeToLive As Nullable(Of Integer), _  
    visibilityTimeout As Nullable(Of Integer) _  
) As HttpRequest
```

C#

```
public static HttpRequest PutMessage (  
    Uri uri,  
    int timeout,  
    Nullable<int> messageTimeToLive,  
    Nullable<int> visibilityTimeout  
)
```

C++

```
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](#)

The message time-to-live.

visibilityTimeout

Type: [System.Nullable](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueRequest Class](#)

[QueueRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Public Shared Function SetMetadata ( _  
    uri As Uri, _  
    timeout As Integer _  
) As HttpRequest
```

C#

```
public static HttpRequest SetMetadata (  
    Uri uri,  
    int timeout  
)
```

C++

```
public:  
static HttpRequest^ SetMetadata (  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueRequest Class](#)

[QueueRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Get Queue Metadata](#)

[Set Queue Metadata](#)

[Queue Service Error Codes](#)

QueueRequest.SetServiceProperties 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

```
Dim uri As Uri  
Dim timeout As Integer  
Dim returnValue As HttpWebRequest  
  
returnValue = QueueRequest.SetServiceProperties(uri,
```

▣ Syntax

Visual Basic

```
Public Shared Function SetServiceProperties ( _  
    uri As Uri, _  
    timeout As Integer _  
) As HttpRequest
```

C#

```
public static HttpRequest SetServiceProperties (   
    Uri uri,   
    int timeout   
)
```

C++

```
public:   
static HttpRequest^ SetServiceProperties (   
    Uri^ uri,   
    int timeout   
)
```

J#

JScript

Parameters

uri

The absolute URI to the queue.

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueRequest Class](#)

[QueueRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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 HttpRequest, _  
    credentials As Credentials _  
)
```

C#

```
public static void SignRequest (  
    HttpRequest request,  
    Credentials credentials  
)
```

C++

```
public:  
static void SignRequest (  
    HttpRequest^ request,  
    Credentials^ credentials  
)
```

J#

JScript

Parameters

request

Type: [System.Net.HttpWebRequest](#)

The web request.

credentials

Type: [Microsoft.WindowsAzure.StorageClient.Protocol.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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueRequest Class](#)

[QueueRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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 HttpWebRequest  
Dim credentials As Credentials  
  
QueueRequest.SignRequestForSharedKeyLite(request, cred
```

▣ Syntax

Visual Basic

```
Public Shared Sub SignRequestForSharedKeyLite ( _  
    request As HttpRequest, _  
    credentials As Credentials _  
)
```

C#

```
public static void SignRequestForSharedKeyLite (  
    HttpRequest request,  
    Credentials credentials  
)
```

C++

```
public:  
static void SignRequestForSharedKeyLite (  
    HttpRequest^ request,  
    Credentials^ credentials  
)
```

J#

JScript

Parameters

request

Type: [System.Net.HttpWebRequest](#)

The web request.

credentials

Type: [Microsoft.WindowsAzure.StorageClient.Protocol.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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueRequest Class](#)

[QueueRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
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

```
Public Shared Function UpdateMessage ( _  
    uri As Uri, _  
    timeout As Integer, _  
    popReceipt As String, _  
    visibilityTimeout As Integer _  
) As HttpRequest
```

C#

```
public static HttpRequest UpdateMessage (  
    Uri uri,  
    int timeout,  
    string popReceipt,  
    int visibilityTimeout  
)
```

C++

```
public:  
static HttpRequest^ 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 **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueRequest Class](#)

[QueueRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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, outp
```

▣ Syntax

Visual Basic

```
Public Shared Sub WriteServiceProperties ( _  
    properties As ServiceProperties, _  
    outputStream As Stream _  
)
```

C#

```
public static void WriteServiceProperties (  
    ServiceProperties properties,  
    Stream outputStream  
)
```

C++

```
public:  
static void WriteServiceProperties (  
    ServiceProperties^ properties,  
    Stream^ outputStream  
)
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueRequest Class](#)

[QueueRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Get Queue Service Properties](#)

[Set Queue Service Properties](#)

[Get Queue Metadata](#)

QueueResponse 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 parsing responses from queue operations.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

Usage

Visual Basic

☐ Syntax

Visual Basic

```
Public NotInheritable Class QueueResponse
```

C#

```
public static class QueueResponse
```

C++

```
public ref class QueueResponse abstract sealed
```

J#

JScript

▣ Inheritance Hierarchy

System.Object

Microsoft.WindowsAzure.StorageClient.Protocol.QueueResponse

☐ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)



QueueResponse 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 queue operations.

The following tables list the members exposed by the [QueueResponse](#) type.

Public Methods

	Name	Description
	GetApproximateMessageCount	Gets the approximate message count for the queue.
	GetError	Returns extended error information from the storage service, that is in addition to the HTTP status code returned with the response.
	GetMessages	Overloaded.
	GetMetadata	Overloaded.
	GetNextVisibleTime	Gets the time when the message will be visible.
	GetPopReceipt	Gets the pop receipt value from a web response.
	GetRequestId	Gets the request ID from the response.
	List	Overloaded.
	PeekMessages	Overloaded.
	ReadServiceProperties	Gets an account's Queue service properties from an input stream.

[Top](#)

▣ See Also

Reference

[QueueResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

	Name	Description
	GetApproximateMessageCount	Gets the approximate message count for the queue.
	GetError	Returns extended error information from the storage service, that is in addition to the HTTP status code returned with the response.
	GetMessages	Overloaded.
	GetMetadata	Overloaded.
	GetNextVisibleTime	Gets the time when the message will be visible.
	GetPopReceipt	Gets the pop receipt value from a web response.
	GetRequestId	Gets the request ID from the response.
	List	Overloaded.
	PeekMessages	Overloaded.
	ReadServiceProperties	Gets an account's Queue service properties from an input stream.

▣ See Also

Reference

[QueueResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim response As HttpWebResponse  
Dim returnValue As String  
  
returnValue = QueueResponse.GetApproximateMessageCoun
```

▣ Syntax

Visual Basic

```
Public Shared Function GetApproximateMessageCount ( _  
    response As HttpWebResponse _  
) As String
```

C#

```
public static string GetApproximateMessageCount (   
    HttpWebResponse response  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueResponse Class](#)

[QueueResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim response As HttpWebResponse  
Dim returnValue As StorageExtendedErrorInformation  
  
returnValue = QueueResponse.GetError(response)
```

▣ Syntax

Visual Basic

```
Public Shared Function GetError ( _  
    response As HttpWebResponse _  
) As StorageExtendedErrorInformation
```

C#

```
public static StorageExtendedErrorInformation GetError  
(  
    HttpWebResponse response  
)
```

C++

```
public:  
static StorageExtendedErrorInformation^ GetError (  
    HttpWebResponse^ response  
)
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueResponse Class](#)

[QueueResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

Name	Description
QueueResponse.GetMessages (Stream)	Parses the response from an operation to get messages from the queue.
QueueResponse.GetMessages (HttpWebResponse)	Parses the response from an operation to get messages from the queue.

▣ See Also

Reference

[QueueResponse Class](#)

[QueueResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Queue Service REST API](#)

[Operations on Messages](#)

[Get Messages](#)

[Peek Messages](#)

QueueResponse.GetMessages 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 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

Type: [Microsoft.WindowsAzure.StorageClient.Protocol.GetMessagesResponse](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueResponse Class](#)

[QueueResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
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

Type: [Microsoft.WindowsAzure.StorageClient.Protocol.GetMessagesResponse](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueResponse Class](#)

[QueueResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.]

☐ Overload List

Name	Description
QueueResponse.GetMetadata (HttpWebResponse)	Gets a collection of user-defined metadata from the response.
QueueResponse.GetMetadata (HttpWebResponse, String)	Gets an array of values for a specified name-value pair from a response that includes user-defined metadata.

▣ See Also

Reference

[QueueResponse Class](#)

[QueueResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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 As HttpWebResponse  
Dim returnValue As NameValueCollection  
  
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueResponse Class](#)

[QueueResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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, na
```


▣ Syntax

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueResponse Class](#)

[QueueResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim response As HttpWebResponse  
Dim returnValue As DateTime  
  
returnValue = QueueResponse.GetNextVisibleTime(respon
```


▣ Syntax

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueResponse Class](#)

[QueueResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Queue Service REST API](#)

[Get Messages](#)

[Put Message](#)



QueueResponse.GetPopReceipt 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 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 HttpWebResponse  
Dim returnValue As String  
  
returnValue = QueueResponse.GetPopReceipt(response)
```

▣ Syntax

Visual Basic

```
Public Shared Function GetPopReceipt ( _  
    response As HttpWebResponse _  
) As String
```

C#

```
public static string GetPopReceipt (  
    HttpWebResponse response  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueResponse Class](#)

[QueueResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim response As HttpWebResponse  
Dim returnValue As String  
  
returnValue = QueueResponse.GetRequestId(response)
```

▣ Syntax

Visual Basic

```
Public Shared Function GetRequestId ( _  
    response As HttpWebResponse _  
) As String
```

C#

```
public static string GetRequestId (  
    HttpWebResponse response  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueResponse Class](#)

[QueueResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

Name	Description
QueueResponse.List (Stream)	Parses the response for a queue listing operation.
QueueResponse.List (HttpWebResponse)	Parses the response for a queue listing operation.

▣ See Also

Reference

[QueueResponse Class](#)

[QueueResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Public Shared Function List ( _  
    stream As Stream _  
) As ListQueuesResponse
```

C#

```
public static ListQueuesResponse List (  
    Stream stream  
)
```

C++

```
public:  
static ListQueuesResponse^ List (  
    Stream^ stream  
)
```

J#

JScript

Parameters

stream

Type: [System.IO.Stream](#)

The response stream.

Return Value

Type: [Microsoft.WindowsAzure.StorageClient.Protocol.ListQueuesResponse](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueResponse Class](#)

[QueueResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
Dim response As HttpWebResponse  
Dim returnValue As ListQueuesResponse  
  
returnValue = QueueResponse.List(response)
```

▣ Syntax

Visual Basic

```
Public Shared Function List ( _  
    response As HttpWebResponse _  
) As ListQueuesResponse
```

C#

```
public static ListQueuesResponse List (  
    HttpWebResponse response  
)
```

C++

```
public:  
static ListQueuesResponse^ List (  
    HttpWebResponse^ response  
)
```

J#

JScript

Parameters

response

Type: [System.Net.HttpWebResponse](#)

The web response.

Return Value

Type: [Microsoft.WindowsAzure.StorageClient.Protocol.ListQueuesResponse](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueResponse Class](#)

[QueueResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

Name	Description
QueueResponse.PeekMessages (Stream)	Parses the response from an operation to peek messages from the queue.
QueueResponse.PeekMessages (HttpWebResponse)	Parses the response from an operation to peek messages from the queue.

▣ See Also

Reference

[QueueResponse Class](#)

[QueueResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
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](#)

The stream to parse.

Return Value

Type: [Microsoft.WindowsAzure.StorageClient.Protocol.PeekMessagesResponse](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueResponse Class](#)

[QueueResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim response As HttpWebResponse  
Dim returnValue As PeekMessagesResponse  
  
returnValue = QueueResponse.PeekMessages(response)
```

▣ Syntax

Visual Basic

```
Public Shared Function PeekMessages ( _  
    response As HttpWebResponse _  
) As PeekMessagesResponse
```

C#

```
public static PeekMessagesResponse PeekMessages (  
    HttpWebResponse response  
)
```

C++

```
public:  
static PeekMessagesResponse^ PeekMessages (  
    HttpWebResponse^ response  
)
```

J#

JScript

Parameters

response

Type: [System.Net.HttpWebResponse](#)

The web response.

Return Value

Type: [Microsoft.WindowsAzure.StorageClient.Protocol.PeekMessagesResponse](#)

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueResponse Class](#)

[QueueResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim inputStream As Stream  
Dim returnValue As ServiceProperties  
  
returnValue = QueueResponse.ReadServiceProperties(in|
```

▣ Syntax

Visual Basic

```
Public Shared Function ReadServiceProperties ( _  
    inputStream As Stream _  
) As ServiceProperties
```

C#

```
public static ServiceProperties ReadServiceProperties(  
    (  
        Stream inputStream  
    )  
)
```

C++

```
public:  
static ServiceProperties^ ReadServiceProperties (   
    Stream^ inputStream  
)
```

J#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[QueueResponse Class](#)

[QueueResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Queue Service REST API](#)

[Get Queue Service Properties](#)

[Set Queue Service Properties](#)

ResourceConsumedException 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.]

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

```
Dim instance As ResourceConsumedException
```

☐ Syntax

Visual Basic

```
<SerializableAttribute> _  
Public Class ResourceConsumedException  
    Inherits Exception
```

C#

```
[SerializableAttribute]  
public class ResourceConsumedException : Exception
```

C++

```
[SerializableAttribute]  
public ref class ResourceConsumedException : public I
```

J#

JScript

▣ **Inheritance Hierarchy**

System.Object

System.Exception

Microsoft.WindowsAzure.StorageClient.Protocol.ResourceConsumedEx

☐ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ResourceConsumedException Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)



ResourceConsumedException Members

[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.]

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](#))**

	Name	Description
	ResourceConsumedException	Overloaded.

[Top](#)

▣ Protected Constructors

	Name	Description
	ResourceConsumedException	Overloaded.

[Top](#)

☐ **Public Properties (see also [Protected Properties](#))**

	Name	Description
	Data	(Inherited from Exception)
	HelpLink	(Inherited from Exception)
	InnerException	(Inherited from Exception)
	Message	(Inherited from Exception)
	Source	(Inherited from Exception)
	StackTrace	(Inherited from Exception)
	TargetSite	(Inherited from Exception)

[Top](#)

▣ Protected Properties

	Name	Description
	HResult	(Inherited from Exception)

[Top](#)

☐ **Public Methods (see also [Protected Methods](#))**

	Name	Description
	Equals	(Inherited from Object)
	GetBaseException	(Inherited from Exception)
	GetHashCode	(Inherited from Object)
	GetObjectData	(Inherited from Exception)
	GetType	(Inherited from Exception)
	ToString	Overridden. (Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

[Top](#)

▣ Protected Events

	Name	Description
	SerializeObjectState	(Inherited from Exception)

[Top](#)

▣ See Also

Reference

[ResourceConsumedException Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

Name	Description
ResourceConsumedException ()	Initializes a new instance of the ResourceConsumedException class.
ResourceConsumedException (SerializationInfo, StreamingContext)	Initializes a new instance of the ResourceConsumedException class.
ResourceConsumedException (String)	Initializes a new instance of the ResourceConsumedException class.
ResourceConsumedException (String, Exception)	Initializes a new instance of the ResourceConsumedException class.

▣ See Also

Reference

[ResourceConsumedException Class](#)

[ResourceConsumedException Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
Dim instance As New ResourceConsumedException
```

☐ Syntax

Visual Basic

```
Public Sub New
```

C#

```
public ResourceConsumedException ()
```

C++

```
public:  
ResourceConsumedException ()
```

J#

JScript

▣ **Remarks**

The default constructor initializes any fields to their default values.

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ResourceConsumedException Class](#)

[ResourceConsumedException Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim info As SerializationInfo  
Dim context As StreamingContext  
  
Dim instance As New ResourceConsumedException(info, c
```

▣ Syntax

Visual Basic

```
Protected Sub New ( _  
    info As SerializationInfo, _  
    context As StreamingContext _  
)
```

C#

```
protected ResourceConsumedException (   
    SerializationInfo info,   
    StreamingContext context   
)
```

C++

```
protected:   
ResourceConsumedException (   
    SerializationInfo^ info,   
    StreamingContext context   
)
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ResourceConsumedException Class](#)

[ResourceConsumedException Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
Dim message As String
```

```
Dim instance As New ResourceConsumedException(message)
```

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ResourceConsumedException Class](#)

[ResourceConsumedException Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim message As String  
Dim innerException As Exception  
  
Dim instance As New ResourceConsumedException(message,
```

▣ Syntax

Visual Basic

```
Public Sub New ( _  
    message As String, _  
    innerException As Exception _  
)
```

C#

```
public ResourceConsumedException (   
    string message,   
    Exception innerException   
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ResourceConsumedException Class](#)

[ResourceConsumedException Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

ResourceConsumedException 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](#))**

	Name	Description
	Equals	(Inherited from Object)
	GetBaseException	(Inherited from Exception)
	GetHashCode	(Inherited from Object)
	GetObjectData	(Inherited from Exception)
	GetType	(Inherited from Exception)
	ToString	Overridden. (Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[ResourceConsumedException Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)



ResourceConsumedException 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](#))**

	Name	Description
	Data	(Inherited from Exception)
	HelpLink	(Inherited from Exception)
	InnerException	(Inherited from Exception)
	Message	(Inherited from Exception)
	Source	(Inherited from Exception)
	StackTrace	(Inherited from Exception)
	TargetSite	(Inherited from Exception)

Protected Properties

	Name	Description
	HResult	(Inherited from Exception)

▣ See Also

Reference

[ResourceConsumedException Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

ResourceConsumedException 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

	Name	Description
	SerializeObjectState	(Inherited from Exception)

▣ See Also

Reference

[ResourceConsumedException Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

Visual Basic

```
<EditorBrowsableAttribute(EditorBrowsableState.Never  
Public MustInherit Class ResponseParsingBase(Of T)  
    Implements IDisposable
```

C#

```
[EditorBrowsableAttribute(EditorBrowsableState.Never  
public abstract class ResponseParsingBase<T> : IDisposable
```

C++

```
[EditorBrowsableAttribute(EditorBrowsableState::Never  
generic<typename T>  
public ref class ResponseParsingBase abstract : IDisposable
```

J#

JScript

GenericParameters

T

The type to be parsed.

▣ **Inheritance Hierarchy**

System.Object

Microsoft.WindowsAzure.StorageClient.Protocol.ResponseParsingBase

[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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ResponseParsingBase Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)



ResponseParsingBase Members

[See Also](#) [Methods](#) [Fields](#) [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 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

	Name	Description
	<u>allObjectsParsed</u>	Indicates that all parsable objects have been consumed. This field is reserved and should not be used.
	<u>outstandingObjectsToParse</u>	Stores any objects that have not yet been parsed. This field is reserved and should not be used.
	<u>reader</u>	

[Top](#)

▣ Protected Properties

	Name	Description
	ObjectsToParse	Gets the parsable objects. This method is reserved and should not be used.

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Dispose	Overloaded.
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Dispose	Overloaded.
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)
	ParseXml	Parses the XML response. This method is reserved and should not be used.
	Variable	This method is reserved and should not be used.

[Top](#)

▣ See Also

Reference

[ResponseParsingBase Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

	Name	Description
	<u>allObjectsParsed</u>	Indicates that all parsable objects have been consumed. This field is reserved and should not be used.
	<u>outstandingObjectsToParse</u>	Stores any objects that have not yet been parsed. This field is reserved and should not be used.
	<u>reader</u>	

▣ See Also

Reference

[ResponseParsingBase Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim value As Boolean  
  
value = Me.allObjectsParsed  
  
Me.allObjectsParsed = value
```


☐ Syntax

Visual Basic

```
Protected allObjectsParsed As Boolean
```

C#

```
protected bool allObjectsParsed
```

C++

```
protected:  
bool allObjectsParsed
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ResponseParsingBase Class](#)

[ResponseParsingBase Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim value As IList(Of T)  
value = Me.outstandingObjectsToParse  
Me.outstandingObjectsToParse = value
```

▣ Syntax

Visual Basic

```
Protected outstandingObjectsToParse As IList(Of T)
```

C#

```
protected IList<T> outstandingObjectsToParse
```

C++

```
protected:  
IList<T>^ outstandingObjectsToParse
```

J#

JScript

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ResponseParsingBase Class](#)

[ResponseParsingBase Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ResponseParsingBase Class](#)

[ResponseParsingBase Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

ResponseParsingBase 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](#))

	Name	Description
	Dispose	Overloaded.
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Dispose	Overloaded.
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)
	ParseXml	Parses the XML response. This method is reserved and should not be used.
	Variable	This method is reserved and should not be used.

▣ See Also

Reference

[ResponseParsingBase Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.]

☐ Overload List

Name	Description
ResponseParsingBase.Dispose()	Performs application-defined tasks associated with freeing, releasing, or resetting unmanaged resources.
ResponseParsingBase.Dispose(Boolean)	Performs application-defined tasks associated with freeing, releasing, or resetting unmanaged resources, and optional managed resources.

▣ See Also

Reference

[ResponseParsingBase Class](#)

[ResponseParsingBase Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim instance As ResponseParsingBase(Of T)  
instance.Dispose
```

☐ Syntax

Visual Basic

```
Public Sub Dispose
```

C#

```
public void Dispose ()
```

C++

```
public:  
virtual void Dispose () sealed
```

J#

JScript

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ResponseParsingBase Class](#)

[ResponseParsingBase Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
Dim disposing As Boolean
```

```
Me.Dispose(disposing)
```

▣ Syntax

Visual Basic

```
Protected Overridable Sub Dispose ( _  
    disposing As Boolean _  
)
```

C#

```
protected virtual void Dispose (  
    bool disposing  
)
```

C++

```
protected:  
virtual void Dispose (  
    bool disposing  
)
```

J#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ResponseParsingBase Class](#)

[ResponseParsingBase Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim returnValue As IEnumerable(Of T)  
returnValue = Me.ParseXml
```

▣ Syntax

Visual Basic

```
Protected MustOverride Function ParseXml As IEnumeral
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ResponseParsingBase Class](#)

[ResponseParsingBase Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ResponseParsingBase Class](#)

[ResponseParsingBase Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

	Name	Description
	<u>ObjectsToParse</u>	Gets the parsable objects. This method is reserved and should not be used.

▣ See Also

Reference

[ResponseParsingBase Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)



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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
Dim value As IEnumerable(Of T)  
value = Me.ObjectsToParse
```

▣ Syntax

Visual Basic

```
Protected ReadOnly Property ObjectsToParse As IEnumerable
```

C#

```
protected IEnumerable<T> ObjectsToParse { get; }
```

C++

```
protected:  
property IEnumerable<T>^ ObjectsToParse {  
    IEnumerable<T>^ get ();  
}
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ResponseParsingBase Class](#)

[ResponseParsingBase Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

ServiceProperties 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.]

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

Visual Basic

```
Public Class ServiceProperties
```

C#

```
public class ServiceProperties
```

C++

```
public ref class ServiceProperties
```

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

Microsoft.WindowsAzure.StorageClient.Protocol.ServiceProperties

☐ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ServiceProperties Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

[SetServiceProperties](#)

Other Resources

[Setting and Retrieving Properties and Metadata for Blob Resources \(REST API\)](#)

[Get Blob Service Properties](#)

[Set Blob Service Properties](#)

ServiceProperties 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.]

Specifies the logging, metrics, and default service version for a storage service.

The following tables list the members exposed by the [ServiceProperties](#) type.

▣ **Public Constructors**

	Name	Description
	ServiceProperties	

[Top](#)

Public Properties

	Name	Description
	DefaultServiceVersion	Specifies the default storage service version for all requests made to a storage service.
	Logging	Gets the logging properties for a storage service.
	Metrics	Gets the metrics properties for a storage service.

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

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▣ See Also

Reference

[ServiceProperties Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

[SetServiceProperties](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

Usage

Visual Basic

```
Dim instance As New ServiceProperties
```

☐ Syntax

Visual Basic

```
Public Sub New
```

C#

```
public ServiceProperties ()
```

C++

```
public:  
ServiceProperties ()
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ServiceProperties Class](#)

[ServiceProperties Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Setting and Retrieving Properties and Metadata for Blob Resources \(REST API\)](#)

[Get Blob Service Properties](#)

[Set Blob Service Properties](#)

ServiceProperties 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](#))

	Name	Description
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[ServiceProperties Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

[SetServiceProperties](#)

Other Resources

[Setting and Retrieving Properties and Metadata for Blob Resources \(REST API\)](#)

[Get Blob Service Properties](#)

[Set Blob Service Properties](#)

ServiceProperties 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

	Name	Description
	DefaultServiceVersion	Specifies the default storage service version for all requests made to a storage service.
	Logging	Gets the logging properties for a storage service.
	Metrics	Gets the metrics properties for a storage service.

▣ See Also

Reference

[ServiceProperties Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

[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

```
Dim instance As ServiceProperties  
Dim value As String  
  
value = instance.DefaultServiceVersion  
instance.DefaultServiceVersion = value
```

▣ Syntax

Visual Basic

```
Public Property DefaultValue As String
```

C#

```
public string DefaultValue { get; set; }
```

C++

```
public:  
property String^ DefaultValue {  
    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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ServiceProperties Class](#)

[ServiceProperties Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim instance As ServiceProperties  
Dim value As LoggingProperties  
  
value = instance.Logging  
instance.Logging = value
```

▣ Syntax

Visual Basic

Public Property Logging As **LoggingProperties**

C#

```
public LoggingProperties Logging { get; set; }
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ServiceProperties Class](#)

[ServiceProperties Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
Dim instance As ServiceProperties  
Dim value As MetricsProperties  
  
value = instance.Metrics  
  
instance.Metrics = value
```

▣ Syntax

Visual Basic

```
Public Property Metrics As MetricsProperties
```

C#

```
public MetricsProperties Metrics { get; set; }
```

C++

```
public:  
property 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[ServiceProperties Class](#)

[ServiceProperties Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Setting and Retrieving Properties and Metadata for Blob Resources \(REST API\)](#)

[Get Blob Service Properties](#)

[Set Blob Service Properties](#)

SharedKeyCanonicalizer 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 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

Visual Basic

```
Public NotInheritable Class SharedKeyCanonicalizer  
    Inherits CanonicalizationStrategy
```

C#

```
public sealed class SharedKeyCanonicalizer : CanonicalizationStrategy
```

C++

```
public ref class SharedKeyCanonicalizer sealed : public 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

[Microsoft.WindowsAzure.StorageClient.Protocol.CanonicalizationStrategy](#)

Microsoft.WindowsAzure.StorageClient.Protocol.SharedKeyCanonicali:

▣ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[SharedKeyCanonicalizer Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Authentication Schemes](#)

SharedKeyCanonicalizer 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 requests against the Blob or Queue services under the Shared Key authentication scheme.

The following tables list the members exposed by the [SharedKeyCanonicalizer](#) type.

▣ Public Constructors

	Name	Description
	SharedKeyCanonicalizer	

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	CanonicalizeHttpRequest	Overridden. Canonicalizes the HTTP request.
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

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▣ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

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▣ See Also

Reference

[SharedKeyCanonicalizer Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Authentication Schemes](#)

SharedKeyCanonicalizer 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 [SharedKeyCanonicalizer](#) Class.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
Dim instance As New SharedKeyCanonicalizer
```

Syntax

Visual Basic

```
Public Sub New
```

C#

```
public SharedKeyCanonicalizer ()
```

C++

```
public:  
SharedKeyCanonicalizer ()
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[SharedKeyCanonicalizer Class](#)

[SharedKeyCanonicalizer Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Authentication Schemes](#)

SharedKeyCanonicalizer 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](#))**

	Name	Description
	CanonicalizeHttpRequest	Overridden. Canonicalizes the HTTP request.
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[SharedKeyCanonicalizer Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
Dim instance As SharedKeyCanonicalizer  
Dim request As HttpWebRequest  
Dim accountName As String  
Dim returnValue As String  
  
returnValue = instance.CanonicalizeHttpRequest(reque:
```


▣ Syntax

Visual Basic

```
Public Overrides Function CanonicalizeHttpRequest ( _  
    request As HttpRequest, _  
    accountName As String _  
) As String
```

C#

```
public override string CanonicalizeHttpRequest (  
    HttpRequest request,  
    string accountName  
)
```

C++

```
public:  
virtual String^ CanonicalizeHttpRequest (  
    HttpRequest^ request,  
    String^ accountName  
) override
```

J#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[SharedKeyCanonicalizer Class](#)

[SharedKeyCanonicalizer Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Authentication Schemes](#)

SharedKeyLiteCanonicalizer 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 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

```
Dim instance As SharedKeyLiteCanonicalizer
```


▣ Syntax

Visual Basic

```
Public NotInheritable Class SharedKeyLiteCanonicalizer  
    Inherits CanonicalizationStrategy
```

C#

```
public sealed class SharedKeyLiteCanonicalizer : Can
```

C++

```
public ref class SharedKeyLiteCanonicalizer sealed :
```

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

[Microsoft.WindowsAzure.StorageClient.Protocol.CanonicalizationStrategy](#)

Microsoft.WindowsAzure.StorageClient.Protocol.SharedKeyLiteCanoni

☐ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[SharedKeyLiteCanonicalizer Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[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

	Name	Description
	SharedKeyLiteCanonicalizer	

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	CanonicalizeHttpRequest	Overridden. Canonicalizes the HTTP request.
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

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☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

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▣ See Also

Reference

[SharedKeyLiteCanonicalizer Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

Usage

Visual Basic

```
Dim instance As New SharedKeyLiteCanonicalizer
```

Syntax

Visual Basic

```
Public Sub New
```

C#

```
public SharedKeyLiteCanonicalizer ()
```

C++

```
public:  
SharedKeyLiteCanonicalizer ()
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[SharedKeyLiteCanonicalizer Class](#)

[SharedKeyLiteCanonicalizer Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Authentication Schemes](#)

SharedKeyLiteCanonicalizer 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](#))**

	Name	Description
	CanonicalizeHttpRequest	Overridden. Canonicalizes the HTTP request.
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[SharedKeyLiteCanonicalizer Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Authentication Schemes](#)

SharedKeyLiteCanonicalizer.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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
Dim instance As SharedKeyLiteCanonicalizer  
Dim request As HttpRequest  
Dim accountName As String  
Dim returnValue As String  
  
returnValue = instance.CanonicalizeHttpRequest(request)
```

▣ Syntax

Visual Basic

```
Public Overrides Function CanonicalizeHttpRequest ( _  
    request As HttpRequest, _  
    accountName As String _  
) As String
```

C#

```
public override string CanonicalizeHttpRequest (  
    HttpRequest request,  
    string accountName  
)
```

C++

```
public:  
virtual String^ CanonicalizeHttpRequest (  
    HttpRequest^ request,  
    String^ accountName  
) override
```

J#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[SharedKeyLiteCanonicalizer Class](#)

[SharedKeyLiteCanonicalizer Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Authentication Schemes](#)

SharedKeyLiteTableCanonicalizer 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 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

```
Dim instance As SharedKeyLiteTableCanonicalizer
```

▣ Syntax

Visual Basic

```
Public NotInheritable Class SharedKeyLiteTableCanonicalizer  
    Inherits CanonicalizationStrategy
```

C#

```
public sealed class SharedKeyLiteTableCanonicalizer
```

C++

```
public ref class SharedKeyLiteTableCanonicalizer sealed
```

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

[Microsoft.WindowsAzure.StorageClient.Protocol.CanonicalizationStrategy](#)

Microsoft.WindowsAzure.StorageClient.Protocol.SharedKeyLiteTableC

☐ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[SharedKeyLiteTableCanonicalizer Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Authentication Schemes](#)

SharedKeyLiteTableCanonicalizer 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 Table service for use with the Shared Key Lite authentication scheme.

The following tables list the members exposed by the [SharedKeyLiteTableCanonicalizer](#) type.

▣ Public Constructors

	Name	Description
	SharedKeyLiteTableCanonicalizer	

[Top](#)

☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	CanonicalizeHttpRequest	Overridden. Canonicalizes the HTTP request.
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

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▣ See Also

Reference

[SharedKeyLiteTableCanonicalizer Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Authentication Schemes](#)

SharedKeyLiteTableCanonicalizer 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 [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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[SharedKeyLiteTableCanonicalizer Class](#)

[SharedKeyLiteTableCanonicalizer Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.]

☐ **Public Methods (see also [Protected Methods](#))**

	Name	Description
	CanonicalizeHttpRequest	Overridden. Canonicalizes the HTTP request.
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[SharedKeyLiteTableCanonicalizer Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Authentication Schemes](#)

SharedKeyLiteTableCanonicalizer.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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
Dim instance As SharedKeyLiteTableCanonicalizer  
Dim request As HttpRequest  
Dim accountName As String  
Dim returnValue As String  
  
returnValue = instance.CanonicalizeHttpRequest(request)
```

▣ Syntax

Visual Basic

```
Public Overrides Function CanonicalizeHttpRequest ( _  
    request As HttpRequest, _  
    accountName As String _  
) As String
```

C#

```
public override string CanonicalizeHttpRequest (  
    HttpRequest request,  
    string accountName  
)
```

C++

```
public:  
virtual String^ CanonicalizeHttpRequest (  
    HttpRequest^ request,  
    String^ accountName  
) override
```

J#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[SharedKeyLiteTableCanonicalizer Class](#)

[SharedKeyLiteTableCanonicalizer Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Authentication Schemes](#)

SharedKeyTableCanonicalizer 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 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

```
Dim instance As SharedKeyTableCanonicalizer
```

☐ Syntax

Visual Basic

```
Public NotInheritable Class SharedKeyTableCanonicaliz  
    Inherits CanonicalizationStrategy
```

C#

```
public sealed class SharedKeyTableCanonicalizer : Can
```

C++

```
public ref class SharedKeyTableCanonicalizer sealed
```

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

[Microsoft.WindowsAzure.StorageClient.Protocol.CanonicalizationStrategy](#)

Microsoft.WindowsAzure.StorageClient.Protocol.SharedKeyTableCano

☐ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[SharedKeyTableCanonicalizer Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Authentication Schemes](#)

SharedKeyTableCanonicalizer 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 Table service for use with the Shared Key authentication scheme.

The following tables list the members exposed by the [SharedKeyTableCanonicalizer](#) type.

▣ Public Constructors

	Name	Description
	SharedKeyTableCanonicalizer	

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☐ **Public Methods** (see also [Protected Methods](#))

	Name	Description
	CanonicalizeHttpRequest	Overridden. Canonicalizes the HTTP request.
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

[Top](#)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

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▣ See Also

Reference

[SharedKeyTableCanonicalizer Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

Usage

Visual Basic

```
Dim instance As New SharedKeyTableCanonicalizer
```

Syntax

Visual Basic

```
Public Sub New
```

C#

```
public SharedKeyTableCanonicalizer ()
```

C++

```
public:  
SharedKeyTableCanonicalizer ()
```

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[SharedKeyTableCanonicalizer Class](#)

[SharedKeyTableCanonicalizer Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Authentication Schemes](#)

SharedKeyTableCanonicalizer 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](#))**

	Name	Description
	CanonicalizeHttpRequest	Overridden. Canonicalizes the HTTP request.
	Equals	(Inherited from Object)
	GetHashCode	(Inherited from Object)
	GetType	(Inherited from Object)
	ToString	(Inherited from Object)

☐ Protected Methods

	Name	Description
	Finalize	(Inherited from Object)
	MemberwiseClone	(Inherited from Object)

▣ See Also

Reference

[SharedKeyTableCanonicalizer Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Authentication Schemes](#)

SharedKeyTableCanonicalizer.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.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

▣ Usage

Visual Basic

```
Dim instance As SharedKeyTableCanonicalizer  
Dim request As HttpRequest  
Dim accountName As String  
Dim returnValue As String  
  
returnValue = instance.CanonicalizeHttpRequest(request)
```

▣ Syntax

Visual Basic

```
Public Overrides Function CanonicalizeHttpRequest ( _  
    request As HttpRequest, _  
    accountName As String _  
) As String
```

C#

```
public override string CanonicalizeHttpRequest (  
    HttpRequest request,  
    string accountName  
)
```

C++

```
public:  
virtual String^ CanonicalizeHttpRequest (  
    HttpRequest^ request,  
    String^ accountName  
) override
```

J#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[SharedKeyTableCanonicalizer Class](#)

[SharedKeyTableCanonicalizer Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Authentication Schemes](#)

TableRequest 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 table operations.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

Usage

Visual Basic

☐ Syntax

Visual Basic

```
Public NotInheritable Class TableRequest
```

C#

```
public static class TableRequest
```

C++

```
public ref class TableRequest abstract sealed
```

J#

JSript

▣ **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

	Name	Description
	GetServiceProperties	Gets the properties of an account's Table service.
	SetServiceProperties	Sets the properties of an account's Table service.
	SignRequest	Signs a request to the Table service by using the specified credentials.
	SignRequestForSharedKeyLite	Signs a request to the Table service by using the specified credentials.
	WriteServiceProperties	Writes the Table service properties to an output stream.

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▣ See Also

Reference

[TableRequest Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Table Service REST API](#)

[Operations on the Account \(Table Service\)](#)

[Operations on Tables](#)

TableRequest 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

	Name	Description
	<u>GetServiceProperties</u>	Gets the properties of an account's Table service.
	<u>SetServiceProperties</u>	Sets the properties of an account's Table service.
	<u>SignRequest</u>	Signs a request to the Table service by using the specified credentials.
	<u>SignRequestForSharedKeyLite</u>	Signs a request to the Table service by using the specified credentials.
	<u>WriteServiceProperties</u>	Writes the Table service properties to an output stream.

▣ See Also

Reference

[TableRequest Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Table Service REST API](#)

[Operations on the Account \(Table Service\)](#)

[Operations on Tables](#)

TableRequest.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 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 HttpWebRequest  
  
returnValue = TableRequest.GetServiceProperties(uri,
```

▣ Syntax

Visual Basic

```
Public Shared Function GetServiceProperties ( _  
    uri As Uri, _  
    timeout As Integer _  
) As HttpRequest
```

C#

```
public static HttpRequest GetServiceProperties (   
    Uri uri,   
    int timeout   
)
```

C++

```
public:   
static HttpRequest^ 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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableRequest Class](#)

[TableRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Table Service REST API](#)

[Get Table Service Properties](#)

[Operations on the Account \(Table Service\)](#)

[Operations on Tables](#)

TableRequest.SetServiceProperties 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 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 HttpWebRequest  
  
returnValue = TableRequest.SetServiceProperties(uri,
```

▣ Syntax

Visual Basic

```
Public Shared Function SetServiceProperties ( _  
    uri As Uri, _  
    timeout As Integer _  
) As HttpRequest
```

C#

```
public static HttpRequest SetServiceProperties (   
    Uri uri,   
    int timeout   
)
```

C++

```
public:   
static HttpRequest^ 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 **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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableRequest Class](#)

[TableRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Table Service REST API](#)

[Set Table Service Properties](#)

[Operations on the Account \(Table Service\)](#)

[Operations on Tables](#)

TableRequest.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 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

```
Dim request As HttpRequest  
Dim credentials As Credentials
```

```
TableRequest.SignRequest(request, credentials)
```

▣ Syntax

Visual Basic

```
Public Shared Sub SignRequest ( _  
    request As HttpRequest, _  
    credentials As Credentials _  
)
```

C#

```
public static void SignRequest (  
    HttpRequest request,  
    Credentials credentials  
)
```

C++

```
public:  
static void SignRequest (  
    HttpRequest^ request,  
    Credentials^ credentials  
)
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableRequest Class](#)

[TableRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.

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
```

```
TableRequest.SignRequestForSharedKeyLite(request, cred
```

▣ Syntax

Visual Basic

```
Public Shared Sub SignRequestForSharedKeyLite ( _  
    request As HttpRequest, _  
    credentials As Credentials _  
)
```

C#

```
public static void SignRequestForSharedKeyLite (  
    HttpRequest request,  
    Credentials credentials  
)
```

C++

```
public:  
static void SignRequestForSharedKeyLite (  
    HttpRequest^ request,  
    Credentials^ credentials  
)
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableRequest Class](#)

[TableRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim properties As ServiceProperties  
Dim outputStream As Stream
```

```
TableRequest.WriteServiceProperties(properties, output)
```

▣ Syntax

Visual Basic

```
Public Shared Sub WriteServiceProperties ( _  
    properties As ServiceProperties, _  
    outputStream As Stream _  
)
```

C#

```
public static void WriteServiceProperties (  
    ServiceProperties properties,  
    Stream outputStream  
)
```

C++

```
public:  
static void WriteServiceProperties (  
    ServiceProperties^ properties,  
    Stream^ outputStream  
)
```

J#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableRequest Class](#)

[TableRequest Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Table Service REST API](#)

[Operations on the Account \(Table Service\)](#)

[Operations on Tables](#)

TableResponse 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 parsing responses from Table operations.

Namespace: Microsoft.WindowsAzure.StorageClient.Protocol

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

Usage

Visual Basic

☐ Syntax

Visual Basic

```
Public NotInheritable Class TableResponse
```

C#

```
public static class TableResponse
```

C++

```
public ref class TableResponse abstract sealed
```

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

Microsoft.WindowsAzure.StorageClient.Protocol.TableResponse

☐ Thread Safety

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

▣ **Platforms**

Development Platforms

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

	Name	Description
	GetError	Returns extended error information from the storage service in addition to the HTTP status code returned with the response.
	GetRequestId	Gets the request ID from the response.
	ReadServiceProperties	Gets an account's Table service properties from an input stream.

[Top](#)

▣ See Also

Reference

[TableResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Tables](#)

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TableResponse 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

	Name	Description
	GetError	Returns extended error information from the storage service in addition to the HTTP status code returned with the response.
	GetRequestId	Gets the request ID from the response.
	ReadServiceProperties	Gets an account's Table service properties from an input stream.

▣ See Also

Reference

[TableResponse Class](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

Other Resources

[Operations on Tables](#)

[Create Table](#)

[Operations on Entities](#)

TableResponse.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 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

```
Dim response As HttpWebResponse  
Dim returnValue As StorageExtendedErrorInformation  
  
returnValue = TableResponse.GetError(response)
```

▣ Syntax

Visual Basic

```
Public Shared Function GetError ( _  
    response As HttpWebResponse _  
) As StorageExtendedErrorInformation
```

C#

```
public static StorageExtendedErrorInformation GetError  
(  
    HttpWebResponse response  
)
```

C++

```
public:  
static StorageExtendedErrorInformation^ GetError (  
    HttpWebResponse^ response  
)
```

J#

JScript

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableResponse Class](#)

[TableResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim response As HttpWebResponse  
Dim returnValue As String  
  
returnValue = TableResponse.GetRequestId(response)
```

▣ Syntax

Visual Basic

```
Public Shared Function GetRequestId ( _  
    response As HttpWebResponse _  
) As String
```

C#

```
public static string GetRequestId (  
    HttpWebResponse response  
)
```

C++

```
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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableResponse Class](#)

[TableResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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

```
Dim inputStream As Stream  
Dim returnValue As ServiceProperties  
  
returnValue = TableResponse.ReadServiceProperties(in|
```

▣ Syntax

Visual Basic

```
Public Shared Function ReadServiceProperties ( _  
    inputStream As Stream _  
) As ServiceProperties
```

C#

```
public static ServiceProperties ReadServiceProperties(  
    (  
        Stream inputStream  
    )  
)
```

C++

```
public:  
static ServiceProperties^ ReadServiceProperties (   
    Stream^ inputStream  
)
```

J#

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

Windows Vista, Windows 7, Windows Server 2008, Windows 8.1, Windows Server 2012 R2, Windows 8 and Windows Server 2012

▣ See Also

Reference

[TableResponse Class](#)

[TableResponse Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)

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.]

The following table lists the classes derived from [Microsoft.WindowsAzure.StorageClient.Protocol.ResponseParsingBase](#).

▣ Derived Classes

Class	D
Microsoft.WindowsAzure.StorageClient.Protocol.AccessPolicyResponse	
Microsoft.WindowsAzure.StorageClient.Protocol.GetBlockListResponse	
Microsoft.WindowsAzure.StorageClient.Protocol.GetMessagesResponse	
Microsoft.WindowsAzure.StorageClient.Protocol.GetPageRangesResponse	
Microsoft.WindowsAzure.StorageClient.Protocol.ListBlobsResponse	
Microsoft.WindowsAzure.StorageClient.Protocol.ListContainersResponse	
Microsoft.WindowsAzure.StorageClient.Protocol.ListQueuesResponse	
Microsoft.WindowsAzure.StorageClient.Protocol.PeekMessagesResponse	

▣ See Also

Reference

[ResponseParsingBase Class](#)

[ResponseParsingBase Members](#)

[Microsoft.WindowsAzure.StorageClient.Protocol Namespace](#)
