<table>
<thead>
<tr>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CloudBlob::BeginSnapshot</strong></td>
</tr>
<tr>
<td><code>(AsyncCallback, Object)</code></td>
</tr>
<tr>
<td><code>(AsyncCallback^, Object^)</code></td>
</tr>
<tr>
<td><code>(AsyncCallback, Object)</code></td>
</tr>
</tbody>
</table>

**C#**

**See Also**
Begins an asynchronous operation to create a snapshot of the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginSnapshot(
    AsyncCallback callback,
    object state
)
```

C++  
```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginSnapshot(
    AsyncCallback* callback,
    Object* state
)
```

F#  
```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginSnapshot :
    callback:AsyncCallback -> ICancellableAsyncResult
[<DoesServiceRequestAttribute>]
override BeginSnapshot :
    callback:AsyncCallback -> ICancellableAsyncResult
```

VB  
```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function BeginSnapshot (  
```
See Also

BeginSnapshot_ Overload
CloudBlob Class

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## Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BlobContainerPermissions</td>
<td>Represents the permissions for a container.</td>
</tr>
<tr>
<td>BlobContainerProperties</td>
<td>Represents the system properties for a container.</td>
</tr>
<tr>
<td>BlobContinuationToken</td>
<td>Represents a continuation token for listing operations.</td>
</tr>
<tr>
<td>BlobProperties</td>
<td>Represents the system properties for a blob.</td>
</tr>
</tbody>
</table>
## Interfaces

<table>
<thead>
<tr>
<th>Interface</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ICloudBlob</strong></td>
<td>An interface required for Windows Azure blob types. The <code>CloudBlockBlob</code> and <code>CloudPageBlob</code> classes implement the <code>ICloudBlob</code> interface.</td>
</tr>
<tr>
<td><strong>IListBlobItem</strong></td>
<td>Represents an item that may be returned by a blob listing operation.</td>
</tr>
<tr>
<td>Enumeration</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>BlobContainerPublicAccessType</td>
<td>Specifies the level of public access that is allowed on the container.</td>
</tr>
<tr>
<td>BlobListingDetails</td>
<td>Specifies which items to include when listing a set of blobs.</td>
</tr>
<tr>
<td>BlobType</td>
<td>The type of a blob.</td>
</tr>
<tr>
<td>BlockListingFilter</td>
<td>Indicates whether to list only committed blocks, only uncommitted blocks, or all blocks.</td>
</tr>
<tr>
<td>BlockSearchMode</td>
<td>Indicates which block lists should be searched to find a specified block.</td>
</tr>
<tr>
<td>ContainerListingDetails</td>
<td>Specifies which details to include when listing the containers in this storage account.</td>
</tr>
<tr>
<td>ICancellableAsyncResult Interface</td>
<td>C#</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>----</td>
</tr>
<tr>
<td>See Also</td>
<td></td>
</tr>
</tbody>
</table>
Represents the status of an asynchronous operation and provides support for cancellation.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#
public interface ICancellableAsyncResult : IAsyncResult

C++
public interface class ICancellableAsyncResult

F#
type ICancellableAsyncResult =
    interface
        interface IAsyncResult
    end

VB
Public Interface ICancellableAsyncResult
    Inherits IAsyncResult
## Properties

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>AsyncStateAsyncStateAsyncStateAsyncState</td>
</tr>
<tr>
<td>AsyncWaitHandleAsyncWaitHandleAsyncWaitHandleAsyncWaitHandle</td>
</tr>
<tr>
<td>CompletedSynchronouslyCompletedSynchronouslyCompletedSynchronouslyCompletedSynchronously</td>
</tr>
<tr>
<td>IsCompletedIsCompletedIsCompletedIsCompleted</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🔄 Cancel()</td>
<td>Cancels the asynchronous operation.</td>
</tr>
</tbody>
</table>
See Also

Microsoft.WindowsAzure.Storage Namespace

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<table>
<thead>
<tr>
<th>CloudBlob::BeginSnapshot Method</th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
</tr>
</thead>
</table>

See Also
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>BeginSnapshot(AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to create a snapshot of the blob.</td>
</tr>
<tr>
<td><code>BeginSnapshot(IDictionary&lt;String, String&gt;, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to create a snapshot of the blob.</td>
</tr>
</tbody>
</table>
See Also

CloudBlob Class

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<table>
<thead>
<tr>
<th>CloudBlob Class</th>
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</thead>
<tbody>
<tr>
<td>See Also</td>
</tr>
</tbody>
</table>

C# C++ F# VB
Represents a blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://msdn.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System..Object

Microsoft.WindowsAzure.Storage.Blob..CloudBlockBlob
## Syntax

**C#**

```csharp
public class CloudBlob : IListBlobItem
```

**C++**

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

**F#**

```fsharp
type CloudBlob =
    class
        interface IListBlobItem
    end
```

**VB**

```vbnet
Public Class CloudBlob
    Implements IListBlobItem
```
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CloudBlob(StorageUri, Nullable&lt;DateTimeOffset&gt;, StorageCredentials)</strong>(StorageUri^, Nullable&lt;DateTimeOffset&gt;, StorageCredentials^)</td>
<td>Initializes a new instance of the <strong>CloudBlob</strong> class using an absolute URI to the blob.</td>
</tr>
<tr>
<td><strong>CloudBlob(Uri)(Uri)(Uri)</strong></td>
<td>Initializes a new instance of the <strong>CloudBlob</strong> class using an absolute URI to the blob.</td>
</tr>
<tr>
<td><strong>(StorageUri, Nullable&lt;DateTimeOffset&gt;, StorageCredentials)(StorageUri^, Nullable&lt;DateTimeOffset&gt;, StorageCredentials^)</strong></td>
<td>Initializes a new instance of the <strong>CloudBlob</strong> class using an absolute URI to the blob.</td>
</tr>
<tr>
<td><strong>Initializes a new instance of the <strong>CloudBlob</strong> class using an absolute URI to the blob.</strong></td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>BlobType</td>
</tr>
<tr>
<td>------</td>
<td>----------</td>
</tr>
<tr>
<td></td>
<td>Container</td>
</tr>
<tr>
<td></td>
<td>CopyState</td>
</tr>
<tr>
<td></td>
<td>IsSnapshot</td>
</tr>
<tr>
<td></td>
<td>Metadata</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>AbortCopyAsync(String)(String^)(String)(String)</td>
</tr>
<tr>
<td>AbortCopyAsync(String, AccessCondition, BlobRequestOptions, OperationContext)</td>
</tr>
<tr>
<td>AbortCopyAsync(String, AccessCondition^, BlobRequestOptions^, OperationContext^)</td>
</tr>
<tr>
<td>AbortCopyAsync(String, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)</td>
</tr>
</tbody>
</table>
Thread Safety

Any public static \textit{(Shared in Visual Basic)} members of this type are thread safe. Any instance members are not guaranteed to be thread safe.
See Also


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<table>
<thead>
<tr>
<th>BlobContainerPermissions Class</th>
<th>See Also</th>
</tr>
</thead>
</table>

C# C++ F# VB
Represents the permissions for a container.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System:::Object

Syntax

C#  
```csharp
public sealed class BlobContainerPermissions
```

C++  
```cpp
public ref class BlobContainerPermissions sealed
```

F#  
```fsharp
[<Sealed>]
type BlobContainerPermissions = class end
```

VB  
```vbnet
Public NotInheritable Class BlobContainerPermissions
```
## Constructors

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

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>PublicAccess</td>
</tr>
<tr>
<td>PublicAccess</td>
</tr>
<tr>
<td>PublicAccess</td>
</tr>
<tr>
<td>PublicAccess</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>SharedAccessPolicies</td>
</tr>
<tr>
<td>SharedAccessPolicies</td>
</tr>
<tr>
<td>SharedAccessPolicies</td>
</tr>
<tr>
<td>SharedAccessPolicies</td>
</tr>
<tr>
<td>SharedAccessPolicies</td>
</tr>
</tbody>
</table>

```
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals( Object ) (Object)</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetHashCode()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetType()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>ToString()</td>
<td>(Inherited from Object.)</td>
</tr>
</tbody>
</table>
Thread Safety

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


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<table>
<thead>
<tr>
<th>BlobContainerProperties Class</th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Represents the system properties for a container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Inheritance Hierarchy**

System:::Object

Syntax

C#  
public sealed class BlobContainerProperties

C++  
public ref class BlobContainerProperties sealed

F#  
[<Sealed>]
type BlobContainerProperties = class end

VB  
Public NotInheritable Class BlobContainerProperties
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BlobContainerProperties()()()</td>
<td></td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETag</td>
<td>Gets the ETag value for the container.</td>
</tr>
<tr>
<td>LastModified</td>
<td>Gets the container's last-modified time.</td>
</tr>
<tr>
<td>LeaseDuration</td>
<td>Gets the container's lease duration.</td>
</tr>
<tr>
<td>LeaseState</td>
<td>Gets the container's lease state.</td>
</tr>
</tbody>
</table>
### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals(Object)(Object^)(Object)(Object)</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetHashCode()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetType()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>ToString()</td>
<td>(Inherited from Object.)</td>
</tr>
</tbody>
</table>
Thread Safety

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


Return to top
Represents a continuation token for listing operations.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System..Object

Microsoft.WindowsAzure.Storage.Blob..BlobContinuationToken
Syntax

C#  
```csharp
public sealed class BlobContinuationToken : IContinuationToken,
    IXmlSerializable
```

C++
```cpp
public ref class BlobContinuationToken sealed :
    IXmlSerializable
```

F#
```fsharp
[<Sealed>]
type BlobContinuationToken =
    class
        interface IContinuationToken
        interface IXmlSerializable
    end
```

VB
```vbnet
Public NotInheritable Class BlobContinuationToken
    Implements IContinuationToken, IXmlSerializabl
```
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BlobContinuationToken</td>
<td></td>
</tr>
</tbody>
</table>
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NextMarker</strong></td>
<td>Gets or sets the next marker for continuing results for <strong>ICloudBlob</strong> enumeration operation.</td>
</tr>
<tr>
<td><strong>TargetLocation</strong></td>
<td>Gets or sets the storage location that the continuation token applies to.</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Equals(Object)(Object)(Object)(Object)</code></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><code>GetHashCode()()()</code></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td><code>GetSchema()</code></td>
<td>Gets an XML representation of an object.</td>
</tr>
<tr>
<td><code>GetType()</code></td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>Generate serializable continuation</td>
<td></td>
</tr>
</tbody>
</table>

Generates a serializable continuation token from its XML representation.
Remarks

**BlobContinuationToken** continuation tokens are used in methods that return a **BlobResultSegment** object, such as `!:CloudBlobDirectory.ListBlobsSegmented(BlobContinuationToken)`.

Refer to the topic's target id should not be empty. Article id: d65600df-7f07-4175-95bc-038e26176be5, link: `!:CloudBlobDirectory.ListBlobsSegmented(BlobContinuationToken)`.
**Thread Safety**

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

See Also
Represents an encryption policy for performing envelope encryption/decryption of Azure blobs.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](#)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System:::Object

Syntax

C#  
public sealed class BlobEncryptionPolicy

C++  
public ref class BlobEncryptionPolicy sealed

F#  
[<Sealed>]
type BlobEncryptionPolicy = class end

VB  
Public NotInheritable Class BlobEncryptionPolicy
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BlobEncryptionPolicy(IKey, IKeyResolver)(IKey^, IKeyResolver^)(IKey, IKeyResolver)</td>
<td>Initializes a new instance of the <strong>BlobEncryptionPolicy</strong> class with the specified key and resolver.</td>
</tr>
</tbody>
</table>
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KeyKeyKeyKeyKey</td>
<td>An object of type IKey that is used to wrap/unwrap the content key during encryption.</td>
</tr>
<tr>
<td>KeyResolverKeyResolverKeyResolverKeyResolverKeyResolver</td>
<td>Gets or sets the key resolver used to select the correct key for decrypting existing blobs.</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals(Object)(Object^)(Object)(Object)</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetHashCode()()()()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetType()()()()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>ToString()()()()</td>
<td>(Inherited from Object.)</td>
</tr>
</tbody>
</table>
Thread Safety

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


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<table>
<thead>
<tr>
<th>BlobProperties Class</th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Represents the system properties for a blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System..Object
Syntax

C#  
public sealed class BlobProperties

C++  
public ref class BlobProperties sealed

F#  
[<Sealed>]  
type BlobProperties = class end

VB  
Public NotInheritable Class BlobProperties
### Constructors

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BlobProperties()()()()</td>
</tr>
<tr>
<td>AppendBlobCommittedBlockCount</td>
</tr>
<tr>
<td>-------------------------------</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals(Object)(Object^)(Object)(Object)</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetHashCode()()()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetType()()()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>ToString()()()</td>
<td>(Inherited from Object.)</td>
</tr>
</tbody>
</table>
Thread Safety

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


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BlobRequestOptions Class

See Also
Represents a set of timeout and retry policy options that may be specified for a request against the Blob service.

**Namespace:**  [Microsoft.Windows Azure.Storage.Blob](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System..Object

Microsoft.WindowsAzure.Storage.Blob..BlobRequestOptions
## Syntax

### C#
```csharp
public sealed class BlobRequestOptions : IRequestOptions
```

### C++
```cpp
public ref class BlobRequestOptions sealed : IRequestOptions
```

### F#
```fsharp
[<Sealed>]
type BlobRequestOptions =
    class
        interface IRequestOptions
    end
```

### VB
```vbnet
Public NotInheritable Class BlobRequestOptions
    Implements IRequestOptions
```

# Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BlobRequestOptions()()()()</td>
<td>Initializes a new instance of the BlobRequestOptions class.</td>
</tr>
<tr>
<td>Properties</td>
<td></td>
</tr>
<tr>
<td>----------------------------------------</td>
<td></td>
</tr>
<tr>
<td>AbsorbConditionalErrorsOnRetry</td>
<td></td>
</tr>
<tr>
<td>DisableContentMD5Validation</td>
<td></td>
</tr>
<tr>
<td>EncryptionPolicy</td>
<td></td>
</tr>
<tr>
<td>LocationMode</td>
<td></td>
</tr>
<tr>
<td>MaximumExecutionTime</td>
<td></td>
</tr>
<tr>
<td>ParallelOperationThreadCount</td>
<td></td>
</tr>
</tbody>
</table>
# Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="Object" alt="Equals" />(Object^)(Object)(Object)</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td><img src="0000" alt="GetHashCode" /></td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td><img src="0000" alt="GetType" /></td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td><img src="0000" alt="ToString" /></td>
<td>(Inherited from Object.)</td>
</tr>
</tbody>
</table>
Thread Safety

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


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<table>
<thead>
<tr>
<th>BlobResultSegment Class</th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Represents a segment of `ILastBlobItem` results, with continuation information for pagination scenarios.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System..Object
Syntax

C#  
public sealed class BlobResultSegment

C++  
public ref class BlobResultSegment sealed

F#  
[<Sealed>]
type BlobResultSegment = class end

VB  
Public NotInheritable Class BlobResultSegment
## Properties

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ContinuationToken</td>
</tr>
<tr>
<td>ContinuationToken</td>
</tr>
<tr>
<td>ContinuationToken</td>
</tr>
<tr>
<td>ContinuationToken</td>
</tr>
<tr>
<td>ContinuationToken</td>
</tr>
<tr>
<td>Results</td>
</tr>
<tr>
<td>Results</td>
</tr>
<tr>
<td>Results</td>
</tr>
<tr>
<td>Results</td>
</tr>
</tbody>
</table>
# Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals(Object)(Object^)(Object)(Object)</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetHashCode()()()()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetType()()()()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>ToString()()()()</td>
<td>(Inherited from Object.)</td>
</tr>
</tbody>
</table>
Thread Safety

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


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<table>
<thead>
<tr>
<th>ILIstBlobItem Interface</th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Represents an item that may be returned by a blob listing operation.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```
public interface IListBlobItem
```

C++  
```
public interface class IListBlobItem
```

F#  
```
type IListBlobItem = interface end
```

VB  
```
Public Interface IListBlobItem
```
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Container" /> Container</td>
<td>Gets the blob item's container.</td>
</tr>
<tr>
<td><img src="image" alt="Parent" /> Parent</td>
<td>Gets the blob item's parent virtual directory.</td>
</tr>
<tr>
<td><img src="image" alt="StorageUri" /> StorageUri</td>
<td>Gets the blob item's URIs for both the primary and secondary locations.</td>
</tr>
<tr>
<td><img src="image" alt="Uri" /> Uri</td>
<td>Gets the URI to the blob item, at the primary location.</td>
</tr>
</tbody>
</table>
See Also


Return to top
CloudAppendBlob Class

See Also
Represents an append blob, a type of blob where blocks of data are always committed to the end of the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System:::Object


Syntax

C#  
public class CloudAppendBlob : CloudBlob, ICloudBlob

C++  
public ref class CloudAppendBlob : CloudBlob, ICloudBlob

F#  
type CloudAppendBlob =
    class
        inherit CloudBlob
        interface ICloudBlob
        interface IListBlobItem
    end

VB  
Public Class CloudAppendBlob
    Inherits CloudBlob
    Implements ICloudBlob, IListBlobItem
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CloudAppendBlob(StorageUri, Nullable&lt;DateTimeOffset&gt;, StorageCredentials)(StorageUri^, Nullable&lt;DateTimeOffset&gt;, StorageCredentials^)(StorageUri, Nullable(Of DateTimeOffset), StorageCredentials)</strong></td>
<td>Initializes a new instance of the CloudAppendBlob class using an absolute URI to the blob.</td>
</tr>
<tr>
<td><strong>CloudAppendBlob(Uri)(Uri^)(Uri)(Uri)</strong></td>
<td>Initializes a new instance of the CloudAppendBlob class using an absolute URI to the blob.</td>
</tr>
<tr>
<td><strong>CloudAppendBlob(Uri, Nullable&lt;DateTimeOffset&gt;, StorageCredentials)(Uri^, Nullable&lt;DateTimeOffset&gt;, StorageCredentials^)(Uri, Nullable&lt;DateTimeOffset&gt;, StorageCredentials^)(Uri, Nullable(Of DateTimeOffset), StorageCredentials)</strong></td>
<td>Initializes a new instance of the CloudAppendBlob class using an absolute URI to the blob.</td>
</tr>
<tr>
<td>Name</td>
<td>BlobType</td>
</tr>
<tr>
<td>--------</td>
<td>----------</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>Container</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>CopyState</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>IsSnapshot</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>AbortCopyAsync(String)(String^)(String)(String)</code></td>
<td></td>
</tr>
<tr>
<td><code>AbortCopyAsync(String, AccessCondition, BlobRequestOptions, OperationContext)</code></td>
<td></td>
</tr>
<tr>
<td><code>AbortCopyAsync(String, AccessCondition, BlobRequestOptions^, OperationContext^)(String, AccessCondition, AccessCondition^, BlobRequestOptions, OperationContext)</code></td>
<td></td>
</tr>
<tr>
<td><code>AbortCopyAsync(String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</code></td>
<td></td>
</tr>
<tr>
<td><code>AbortCopyAsync(String, CancellationToken)(String^, CancellationToken)</code></td>
<td></td>
</tr>
</tbody>
</table>
Thread Safety

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


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CloudBlobClient Class
Provides a client-side logical representation of the Windows Azure Blob service. This client is used to configure and execute requests against the Blob service.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System...Object
  Microsoft.WindowsAzure.Storage.Blob...CloudBlobClient
Syntax

C#  
public class CloudBlobClient

C++  
public ref class CloudBlobClient

F#  
type CloudBlobClient = class end

VB  
Public Class CloudBlobClient
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CloudBlobClient(StorageUri, StorageCredentials)</strong></td>
<td>Initializes a new instance of the <em>CloudBlobClient</em> class using the specified Blob service endpoint and account credentials.</td>
</tr>
<tr>
<td><strong>CloudBlobClient(Uri)(Uri)(Uri)(Uri)</strong></td>
<td>Initializes a new instance of the <em>CloudBlobClient</em> class using the specified Blob service endpoint and anonymous credentials.</td>
</tr>
<tr>
<td><strong>CloudBlobClient(Uri, StorageCredentials)(Uri^, StorageCredentials^)(Uri, StorageCredentials)(Uri, StorageCredentials)</strong></td>
<td>Initializes a new instance of the <em>CloudBlobClient</em> class using the specified Blob service endpoint and account credentials.</td>
</tr>
<tr>
<td>Name</td>
<td></td>
</tr>
<tr>
<td>----------------------</td>
<td></td>
</tr>
<tr>
<td>AuthenticationScheme</td>
<td></td>
</tr>
<tr>
<td>BaseUri</td>
<td></td>
</tr>
<tr>
<td>BufferManager</td>
<td></td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BeginGetBlobReferenceFromServer(StorageUri, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>BeginGetBlobReferenceFromServer(Uri, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
</tr>
<tr>
<td>BeginGetBlobReferenceFromServer(Uri, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>BeginGetBlobReferenceFromServer(Uri, AsyncCallback, Object)</td>
</tr>
<tr>
<td>BeginGetServiceProperties(AsyncCallback, Object)</td>
<td>BeginGetServiceProperties(BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
</tr>
</tbody>
</table>
Remarks

The service client encapsulates the endpoint or endpoints for the Blob service. If the service client will be used for authenticated access, it also encapsulates the credentials for accessing 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.
See Also


Return to top
<table>
<thead>
<tr>
<th>CloudBlobContainer Class</th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
</tr>
</thead>
</table>

See Also
Represents a container in the Windows Azure Blob service.

Inheritance Hierarchy

System:::Object
Syntax

C#  
public class CloudBlobContainer

C++  
public ref class CloudBlobContainer

F#  
type CloudBlobContainer = class end

VB  
Public Class CloudBlobContainer
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CloudBlobContainer(StorageUri, StorageCredentials)(StorageUri^, StorageCredentials^)(StorageUri, StorageCredentials)</td>
<td>Initializes a new instance of the CloudBlobContainer class.</td>
</tr>
<tr>
<td>CloudBlobContainer(Uri)(Uri^)(Uri)(Uri)</td>
<td>Initializes a new instance of the CloudBlobContainer class.</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metadata</td>
<td>Gets the container's metadata.</td>
</tr>
<tr>
<td>Name</td>
<td>Gets the name of the container.</td>
</tr>
<tr>
<td>Properties</td>
<td>Gets the container's system properties.</td>
</tr>
<tr>
<td>ServiceClient</td>
<td>Gets the Blob service client for the container.</td>
</tr>
<tr>
<td>Name</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
<td>-------------</td>
</tr>
<tr>
<td>AcquireLeaseAsync(Nullable&lt;TimeSpan&gt;, String)(Nullable&lt;TimeSpan&gt;, String)</td>
<td></td>
</tr>
<tr>
<td>AcquireLeaseAsync(Nullable&lt;TimeSpan&gt;, String, AccessCondition, (Nullable&lt;TimeSpan&gt;, String, AccessCondition, BlobRequestOptions, OperationContext)</td>
<td></td>
</tr>
</tbody>
</table>
Thread Safety

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


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<table>
<thead>
<tr>
<th><strong>CloudBlobDirectory Class</strong></th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Represents a virtual directory of blobs, designated by a delimiter character.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System::Object

Syntax

C#  
```csharp
public class CloudBlobDirectory : IListBlobItem
```

C++  
```cpp
public ref class CloudBlobDirectory : IListBlobItem
```

F#  
```fsharp
type CloudBlobDirectory =
    class
        interface IListBlobItem
    end
```

VB  
```vbnet
Public Class CloudBlobDirectory
    Implements IListBlobItem
```
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Container</td>
<td>Gets the container for the virtual directory.</td>
</tr>
<tr>
<td>Parent</td>
<td>Gets the parent directory for the virtual directory.</td>
</tr>
<tr>
<td>Prefix</td>
<td>Gets the prefix.</td>
</tr>
<tr>
<td>ServiceClient</td>
<td>Gets the Blob service client for the virtual directory.</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
</table>
| BeginListBlobsSegmented | **BeginListBlobsSegmented***(BlobContinuationToken, AsyncCallback, Object)***
| BeginListBlobsSegmented | **BeginListBlobsSegmented***(Boolean, BlobListingDetails, Nullable<int>, BlobContinuationToken, BlobRequestOptions, OperationContext, AsyncCallback, Object)***

*Bold denotes the method name.*
**Remarks**

Containers, which are encapsulated as [CloudBlobContainer](https://aka.ms/CloudBlobContainer) objects, hold directories, and directories hold block blobs and page blobs. Directories can also contain sub-directories.
**Thread Safety**

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


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<thead>
<tr>
<th>CloudBlobStream Class</th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Represents a stream for writing to a blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://example.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System...Object
  System.IO...Stream
    Microsoft.WindowsAzure.Storage.Blob...CloudBlobStream
Syntax

C#  

```csharp
public abstract class CloudBlobStream : Stream
```

C++  

```cpp
public ref class CloudBlobStream abstract : Stream
```

F#  

```fsharp
[<AbstractClass>]
type CloudBlobStream =
    class
        inherit Stream
    end
```

VB  

```vbnet
Public MustInherit Class CloudBlobStream
    Inherits Stream
```


## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CloudBlobStream</td>
<td></td>
</tr>
</tbody>
</table>
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CanRead</td>
<td>(Inherited from Stream)</td>
</tr>
<tr>
<td>CanSeek</td>
<td>(Inherited from Stream)</td>
</tr>
<tr>
<td>CanTimeout</td>
<td>(Inherited from Stream)</td>
</tr>
<tr>
<td>CanWrite</td>
<td>(Inherited from Stream)</td>
</tr>
<tr>
<td>Length</td>
<td>(Inherited from Stream)</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BeginCommit(AsyncCallback, Object)</strong>(AsyncCallback^, Object^)</td>
</tr>
<tr>
<td><strong>BeginFlush(AsyncCallback, Object)</strong>(AsyncCallback^, Object^)</td>
</tr>
<tr>
<td>BeginRead(Byte[], Int32, Int32, AsyncCallback, Object)(array&lt;Byte&gt; AsyncCallback^, Object^)(Byte[], Int32, Int32, AsyncCallback, Object)</td>
</tr>
<tr>
<td>BeginWrite(Byte[], Int32, Int32, AsyncCallback, Object)(array&lt;Byte&gt; AsyncCallback^, Object^)(Byte[], Int32, Int32, AsyncCallback, Object)</td>
</tr>
</tbody>
</table>
Thread Safety

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


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<table>
<thead>
<tr>
<th>CloudBlockBlob Class</th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Represents a blob that is uploaded as a set of blocks.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System..Object
  Microsoft.WindowsAzure.Storage.Blob..CloudBlockBlob
Syntax

C#  
```csharp
public class CloudBlockBlob : CloudBlob, ICloudBlob, IListBlobItem
```

C++  
```cpp
public ref class CloudBlockBlob : CloudBlob, ICloudBlob, IListBlobItem
```

F#  
```fsharp
type CloudBlockBlob =
    class
        inherit CloudBlob
        interface ICloudBlob
        interface IListBlobItem
    end
```

VB  
```vbnet
Public Class CloudBlockBlob
    Inherits CloudBlob
    Implements ICloudBlob, IListBlobItem
```
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CloudBlockBlob(StorageUri, Nullable&lt;DateTimeOffset&gt;, StorageCredentials)</strong> (StorageUri^, Nullable&lt;DateTimeOffset&gt;, StorageCredentials^) (StorageUri, Nullable&lt;DateTimeOffset&gt;, StorageCredentials)</td>
<td>Initializes a new instance of the <strong>CloudBlockBlob</strong> class using an absolute URI to the blob.</td>
</tr>
<tr>
<td><strong>CloudBlockBlob(Uri)(Uri^)(Uri)(Uri)</strong></td>
<td>Initializes a new instance of the <strong>CloudBlockBlob</strong> class using an absolute URI to the blob.</td>
</tr>
<tr>
<td><strong>CloudBlockBlob(Uri, Nullable&lt;DateTimeOffset&gt;, StorageCredentials)</strong> (Uri^, Nullable&lt;DateTimeOffset&gt;, StorageCredentials^) (Uri, Nullable(Of DateTimeOffset), StorageCredentials)</td>
<td>Initializes a new instance of the <strong>CloudBlockBlob</strong> class using an absolute URI to the blob.</td>
</tr>
<tr>
<td>Name</td>
<td>BlobType</td>
</tr>
<tr>
<td>------</td>
<td>----------</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>Container</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>CopyState</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>IsSnapshot</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Methods

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>AbortCopyAsync(String)(String^)(String)(String)</td>
</tr>
<tr>
<td>AbortCopyAsync(String, AccessCondition, BlobRequestOptions, OperationContext)</td>
</tr>
<tr>
<td>AbortCopyAsync(String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</td>
</tr>
</tbody>
</table>
Thread Safety

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


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CloudPageBlob Class

See Also
Represents a Windows Azure page blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/Azure/azure-storage-net)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System...Object
  Microsoft.WindowsAzure.Storage.Blob...CloudBlob
  Microsoft.WindowsAzure.Storage.Blob...CloudPageBlob
Syntax

C#  
```csharp
public class CloudPageBlob : CloudBlob, ICloudBlob, IListBlobItem
```

C++  
```cpp
public ref class CloudPageBlob : CloudBlob, ICloudBlob, IListBlobItem
```

F#  
```fsharp
type CloudPageBlob =
    class
        inherit CloudBlob
        interface ICloudBlob
        interface IListBlobItem
    end
```

VB  
```vbnet
Public Class CloudPageBlob
    Inherits CloudBlob
    Implements ICloudBlob, IListBlobItem
```
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudPageBlob(StorageUri, Nullable&lt;DateTimeOffset&gt;, StorageCredentials)</code> (StorageUri^, Nullable&lt;DateTimeOffset&gt;, StorageCredentials^) (StorageUri, Nullable(Of DateTimeOffset), StorageCredentials)</td>
<td>Initializes a new instance of the <code>CloudPageBlob</code> class using an absolute URI to the blob.</td>
</tr>
<tr>
<td><code>CloudPageBlob(Uri)(Uri^)(Uri)(Uri)</code></td>
<td></td>
</tr>
<tr>
<td><code>CloudPageBlob(Uri, Nullable&lt;DateTimeOffset&gt;, StorageCredentials)</code> (Uri^, Nullable&lt;DateTimeOffset&gt;, StorageCredentials^) (Uri, Nullable(Of DateTimeOffset), StorageCredentials)</td>
<td>Initializes a new instance of the <code>CloudPageBlob</code> class using an absolute URI to the blob.</td>
</tr>
<tr>
<td>Name</td>
<td>BlobType</td>
</tr>
<tr>
<td>--------</td>
<td>----------</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>Container</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>CopyState</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>IsSnapshot</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AbortCopyAsync(String)(String^)(String)(String)</td>
<td></td>
</tr>
<tr>
<td>AbortCopyAsync(String, AccessCondition, BlobRequestOptions, OperationContext)</td>
<td></td>
</tr>
<tr>
<td>AbortCopyAsync(String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</td>
<td></td>
</tr>
</tbody>
</table>
Thread Safety

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


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Represents a segment of CloudBlobContainer results and contains continuation and pagination information.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System::Object
Syntax

C#  
```
public sealed class ContainerResultSegment
```  

C++  
```
public ref class ContainerResultSegment sealed
```  

F#  
```
[<Sealed>]
type ContainerResultSegment = class end
```  

VB  
```
Public NotInheritable Class ContainerResultSegment
```
## Properties

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ContinuationToken ContinuationToken ContinuationToken ContinuationToken ContinuationToken ContinuationToken</td>
</tr>
<tr>
<td>Results Results Results Results Results Results Results Results</td>
</tr>
</tbody>
</table>

## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals(EqualityComparer&lt;T&gt;, T)</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetHashCode()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetType()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>ToString()</td>
<td>(Inherited from Object.)</td>
</tr>
</tbody>
</table>
Thread Safety

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


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Represents the attributes of a copy operation.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System:::Object
Syntax

C#  
```csharp
public sealed class CopyState
```

C++  
```c++
public ref class CopyState sealed
```

F#  
```fsharp
[<Sealed>]
type CopyState = class end
```

VB  
```vbnet
Public NotInheritable Class CopyState
```
# Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CopyState()()()()</td>
<td></td>
</tr>
<tr>
<td>BytesCopied</td>
<td>BytesCopied</td>
</tr>
<tr>
<td>------------</td>
<td>-------------</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>CompletionTime</td>
<td>CompletionTime</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>CopyId</td>
<td>CopyId</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Source</td>
<td>Source</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals(Object)(Object)(Object)(Object)</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetHashCode()()()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetType()()()()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>ToString()()()()</td>
<td>(Inherited from Object.)</td>
</tr>
</tbody>
</table>
Thread Safety

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

<table>
<thead>
<tr>
<th>ListBlockItem Class</th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Represents a block retrieved from the blob's block list.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://docs.microsoft.com/en-us/previous-versions/3wbf7ws8
gy2c1007(v=azure.10))  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System:::Object

Microsoft.WindowsAzure.Storage.Blob:::ListBlockItem
Syntax

C#

```csharp
public sealed class ListBlockItem
```

C++

```cpp
public ref class ListBlockItem sealed
```

F#

```fsharp
[<Sealed>]
type ListBlockItem = class end
```

VB

```vbnet
Public NotInheritable Class ListBlockItem
```
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="Image" alt="" /> ListBlockItem()()()</td>
<td></td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Committed</td>
<td>Gets a value indicating whether or not the block has been committed.</td>
</tr>
<tr>
<td>Length</td>
<td>Gets the size of block in bytes.</td>
</tr>
<tr>
<td>Name</td>
<td>Gets the name of the block.</td>
</tr>
</tbody>
</table>
### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals(Object)(Object^)(Object)(Object)</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetHashCode()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetType()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>ToString()</td>
<td>(Inherited from Object.)</td>
</tr>
</tbody>
</table>
Thread Safety

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


Return to top
PageDiffRange Class

See Also
Represents a range of pages in a page blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System..::..Object
## Syntax

**C#**

```csharp
public sealed class PageDiffRange : PageRange
```

**C++**

```cpp
public ref class PageDiffRange sealed : PageRange
```

**F#**

```fsharp
[<Sealed>]
type PageDiffRange =
    class
        inherit PageRange
    end
```

**VB**

```vbnet
Public NotInheritable Class PageDiffRange
    Inherits PageRange
```

---

**C++**

```cpp
public ref class PageDiffRange sealed : PageRange
```

**F#**

```fsharp
[<Sealed>]
type PageDiffRange =
    class
        inherit PageRange
    end
```

**VB**

```vbnet
Public NotInheritable Class PageDiffRange
    Inherits PageRange
```
**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PageDiffRange(Int64, Int64, Boolean)(Int64, Int64, Boolean)(Int64, Int64, Boolean)</td>
<td>Initializes a new instance of the PageDiffRange class</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>EndOffset</td>
</tr>
<tr>
<td>IsClearedPageRange</td>
</tr>
<tr>
<td>StartOffset</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals(Object)(Object^)(Object)(Object)</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetHashCode()()()()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetType()()()()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td><strong>ToString(0000)</strong></td>
<td>Returns the content of the page range as a string. (Inherited from PageRange.)</td>
</tr>
</tbody>
</table>
Thread Safety

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


Return to top
<table>
<thead>
<tr>
<th>PageRange Class</th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
</tr>
</thead>
</table>

See Also
Represents a range of pages in a page blob.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System:::Object


Syntax

C#  
public class PageRange

C++  
public ref class PageRange

F#  
type PageRange = class end

VB  
Public Class PageRange
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PageRange(Int64, Int64)(Int64, Int64)</code></td>
<td>Initializes a new instance of the <code>PageRange</code> class.</td>
</tr>
</tbody>
</table>
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EndOffsetEndOffsetEndOffsetEndOffset</td>
<td>Gets the ending offset of the page range.</td>
</tr>
<tr>
<td>StartOffsetStartOffsetStartOffsetStartOffset</td>
<td>Gets the starting offset of the page range.</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals(Object)(Object^)(Object)(Object)</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>Finalize()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetHashCode()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetType()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>MemberwiseClone()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td></td>
<td>Returns the content of the page range as a string.</td>
</tr>
</tbody>
</table>
**Thread Safety**

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


Return to top
<table>
<thead>
<tr>
<th>SharedAccessBlobHeaders Class</th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Represents the optional headers that can be returned with blobs accessed using SAS.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System.<>.Object

Syntax

C#  
```csharp
public sealed class SharedAccessBlobHeaders
```

C++  
```cpp
public ref class SharedAccessBlobHeaders sealed
```

F#  
```fsharp
[<Sealed>]
type SharedAccessBlobHeaders = class end
```

VB  
```vbnet
Public NotInheritable Class SharedAccessBlobHea
```
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>SharedAccessBlobHeaders()()()</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>SharedAccessBlobHeaders(SharedAccessBlobHeaders)(SharedAccessBlobHeaders)</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CacheControl</td>
</tr>
<tr>
<td>ContentDisposition</td>
</tr>
<tr>
<td>ContentEncoding</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Equals(Object)(Object^)(Object)(Object)</code></td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td><code>GetHashCode()</code></td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td><code>GetType()</code></td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td><code>ToString()</code></td>
<td>(Inherited from Object.)</td>
</tr>
</tbody>
</table>
Thread Safety

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


Return to top
<table>
<thead>
<tr>
<th>SharedAccessBlobPolicies Class</th>
<th>See Also</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td>C++</td>
</tr>
</tbody>
</table>
Represents the collection of shared access policies defined for a container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System:::Object

Syntax

C#  
```
public sealed class SharedAccessBlobPolicies : 
    ICollection<KeyValuePair<string, SharedAccessBlobPolicy>>, IEnumerable
```

C++  
```
public ref class SharedAccessBlobPolicies sealed 
    ICollection<KeyValuePair<String^, SharedAccessBlobPolicy^>>, Enumerable
```

F#  
```
[<Sealed>]
type SharedAccessBlobPolicies = 
    class
        interface IDictionary<string, SharedAccessBlobPolicy>
        interface ICollection<KeyValuePair<string, SharedAccessBlobPolicy>>
        interface IEnumerable
    end
```

VB  
```
Public NotInheritable Class SharedAccessBlobPolicies Implements IDictionary(Of String, SharedAccessBlobPolicy), Enumerable(Of KeyValuePair(Of String, SharedAccessBlobPolicy))
```


Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SharedAccessBlobPolicies</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Count</td>
<td>Gets the number of key/value pairs contained in the shared access policies collection.</td>
</tr>
<tr>
<td>IsReadOnly</td>
<td>Gets a value indicating whether the collection of shared access policies is read-only.</td>
</tr>
<tr>
<td>Item[String]</td>
<td>Gets or sets the SharedAccessBlobPolicy item associated with the specified key.</td>
</tr>
<tr>
<td>Keys</td>
<td>Gets a collection containing the keys in the shared access policies collection.</td>
</tr>
<tr>
<td>Name</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
<td>-------------</td>
</tr>
<tr>
<td><strong>Add(KeyValuePair&lt;String, SharedAccessBlobPolicy&gt;)(KeyValuePair&lt;String^, SharedAccessBlobPolicy^&gt;)(KeyValuePair&lt;String, SharedAccessBlobPolicy&gt;)(KeyValuePair(Of String, SharedAccessBlobPolicy))</strong></td>
<td>Adds the specified key and SharedAccessBlobPolicy stored in a KeyValuePair&lt;TKey, TValue&gt;, to the shared access policy.</td>
</tr>
<tr>
<td><strong>Clear()</strong></td>
<td>Removes all keys and SharedAccessBlobPolicy from the shared access policy.</td>
</tr>
<tr>
<td><strong>Contains(KeyValuePair&lt;String, SharedAccessBlobPolicy&gt;)(KeyValuePair&lt;String^, SharedAccessBlobPolicy^&gt;)(KeyValuePair&lt;String, SharedAccessBlobPolicy&gt;)(KeyValuePair(Of String, SharedAccessBlobPolicy))</strong></td>
<td>Determines whether the collection of shared access policies contains the specified KeyValuePair&lt;TKey, TValue&gt; object.</td>
</tr>
</tbody>
</table>
## Explicit Interface Implementations

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>IEnumerable::&lt;&gt;..GetEnumerator()</code></td>
<td>Returns an enumerator that iterates through the collection of shared access policies.</td>
</tr>
</tbody>
</table>
**Thread Safety**

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


Return to top
SharedAccessBlobPolicy Class

See Also
Represents a shared access policy, which specifies the start time, expiry time, and permissions for a shared access signature.

Inheritance Hierarchy

System..Object
Syntax

C#  
public sealed class SharedAccessBlobPolicy

C++
public ref class SharedAccessBlobPolicy sealed

F#
[<Sealed>]
type SharedAccessBlobPolicy = class end

VB
Public NotInheritable Class SharedAccessBlobPolicy
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>SharedAccessBlobPolicy()</code></td>
<td>Initializes a new instance of the <code>SharedAccessBlobPolicy</code> class.</td>
</tr>
<tr>
<td>Name</td>
<td></td>
</tr>
<tr>
<td>-------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Permissions Permissions</td>
<td></td>
</tr>
<tr>
<td>SharedAccessExpireTime</td>
<td></td>
</tr>
<tr>
<td>SharedAccessStartTime</td>
<td></td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Equals(Object)(Object^)(Object)(Object)</code></td>
</tr>
<tr>
<td><code>GetHashCode()</code></td>
</tr>
<tr>
<td><code>GetType()</code></td>
</tr>
<tr>
<td><code>PermissionsFromString(String)(String^)(String)(String)</code></td>
</tr>
<tr>
<td><code>PermissionsToString(SharedAccessBlobPermissions)(SharedAccessB...</code></td>
</tr>
</tbody>
</table>
Thread Safety

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


Return to top
ICloudBlob Interface

See Also


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**
```csharp
public interface ICloudBlob : IListBlobItem
```

**C++**
```cpp
public interface class ICloudBlob : IListBlobItem
```

**F#**
```fsharp
type ICloudBlob =
    interface
        interface IListBlobItem
    end
```

**VB**
```vbnet
Public Interface ICloudBlob
    Inherits IListBlobItem
```
<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BlobType BlobType BlobType BlobType</td>
</tr>
<tr>
<td>Container Container Container Container</td>
</tr>
<tr>
<td>CopyState CopyState CopyState CopyState</td>
</tr>
<tr>
<td>IsSnapshot IsSnapshot IsSnapshot IsSnapshot</td>
</tr>
</tbody>
</table>
# Methods

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>AbortCopyAsync(String)(String^)(String)(String)</td>
</tr>
<tr>
<td>AbortCopyAsync(String, AccessCondition, BlobRequestOptions, OperationContext^)(String, AccessCondition, BlobRequestOptions, OperationContext)</td>
</tr>
<tr>
<td>AbortCopyAsync(String, AccessCondition, BlobRequestOptions^, OperationContext^)(String, AccessCondition, BlobRequestOptions, OperationContext)</td>
</tr>
</tbody>
</table>
See Also


Return to top
BlobContainerPublicAccessType Enumeration

See Also
Specifies the level of public access that is allowed on the container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public enum BlobContainerPublicAccessType

C++  
public enum class BlobContainerPublicAccessType

F#  
type BlobContainerPublicAccessType

VB  
Public Enumeration BlobContainerPublicAccessType
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blob</td>
<td>Blob-level public access. Anonymous clients can read blob data within this container, but not container data.</td>
</tr>
<tr>
<td>Container</td>
<td>Container-level public access. Anonymous clients can read container and blob data.</td>
</tr>
<tr>
<td>Off</td>
<td>No public access. Only the account owner can read resources in this container.</td>
</tr>
</tbody>
</table>
See Also


Return to top
BlobListingDetails Enumeration

See Also
Specifies which items to include when listing a set of blobs.

This enumeration has a FlagsAttribute attribute that allows a bitwise combination of its member values.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

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

C++

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

F#

```fsharp
[<FlagsAttribute>]
type BlobListingDetails
```

VB

```vbnet
<FlagsAttribute>
Public Enumeration BlobListingDetails
```
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>List all available committed blobs, uncommitted blobs, and snapshots, and return all metadata and copy status for those blobs.</td>
</tr>
<tr>
<td>Copy</td>
<td>Include copy properties in the listing.</td>
</tr>
<tr>
<td>Metadata</td>
<td>Retrieve blob metadata for each blob returned in the listing.</td>
</tr>
<tr>
<td>None</td>
<td>List only committed blobs, and do not return blob metadata.</td>
</tr>
<tr>
<td>Snapshots</td>
<td>List committed blobs and blob snapshots.</td>
</tr>
</tbody>
</table>
See Also


Return to top
<table>
<thead>
<tr>
<th>BlobType Enumeration</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
</tr>
</tbody>
</table>
The type of a blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```
public enum BlobType
```

C++  
```
public enum class BlobType
```

F#  
```
type BlobType
```

VB  
```
Public Enumeration BlobType
```
# Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AppendBlob</td>
<td>An append blob.</td>
</tr>
<tr>
<td>BlockBlob</td>
<td>A block blob.</td>
</tr>
<tr>
<td>PageBlob</td>
<td>A page blob.</td>
</tr>
<tr>
<td>Unspecified</td>
<td>Not specified.</td>
</tr>
</tbody>
</table>
See Also


Return to top
Indicates whether to list only committed blocks, only uncommitted blocks, or all blocks.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public enum BlockListingFilter</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public enum class BlockListingFilter</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>type BlockListingFilter</code></td>
</tr>
<tr>
<td>VB</td>
<td><code>Public Enumeration BlockListingFilter</code></td>
</tr>
</tbody>
</table>
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>Both committed and uncommitted blocks.</td>
</tr>
<tr>
<td>Committed</td>
<td>Committed blocks.</td>
</tr>
<tr>
<td>Uncommitted</td>
<td>Uncommitted blocks.</td>
</tr>
</tbody>
</table>
See Also


Return to top
BlockSearchMode Enumeration

See Also
Indicates which block lists should be searched to find a specified block.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/Azure/azure-storage-sdk-for-net)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public enum BlockSearchMode</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public enum class BlockSearchMode</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>type BlockSearchMode</code></td>
</tr>
<tr>
<td>VB</td>
<td><code>Public Enumeration BlockSearchMode</code></td>
</tr>
</tbody>
</table>
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Committed</td>
<td>Search the committed block list only.</td>
</tr>
<tr>
<td>Latest</td>
<td>Search the uncommitted block list first, and if the block is not found there, search the committed block list.</td>
</tr>
<tr>
<td>Uncommitted</td>
<td>Search the uncommitted block list only.</td>
</tr>
</tbody>
</table>
See Also


Return to top
ContainerListingDetails Enumeration

See Also
Specifies which details to include when listing the containers in this storage account.

This enumeration has a FlagsAttribute attribute that allows a bitwise combination of its member values.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>[FlagsAttribute]</code>&lt;br&gt;<code>public enum ContainerListingDetails</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>[FlagsAttribute]</code>&lt;br&gt;<code>public enum class ContainerListingDetails</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>[&lt;FlagsAttribute&gt;]</code>&lt;br&gt;<code>type ContainerListingDetails</code></td>
</tr>
<tr>
<td>VB</td>
<td><code>&lt;FlagsAttribute&gt;</code>&lt;br&gt;<code>Public Enumeration ContainerListingDetails</code></td>
</tr>
</tbody>
</table>
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>Retrieve all available details.</td>
</tr>
<tr>
<td>Metadata</td>
<td>Retrieve container metadata.</td>
</tr>
<tr>
<td>None</td>
<td>No additional details.</td>
</tr>
</tbody>
</table>
See Also


Return to top
CopyStatus Enumeration

See Also
Represents the status of a copy blob operation.

**Namespace**: Microsoft.WindowsAzure.Storage.Blob

## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public enum CopyStatus</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public enum class CopyStatus</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>type CopyStatus</code></td>
</tr>
<tr>
<td>VB</td>
<td><code>Public Enumeration CopyStatus</code></td>
</tr>
</tbody>
</table>
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aborted</td>
<td>The copy operation has been aborted.</td>
</tr>
<tr>
<td>Failed</td>
<td>The copy operation encountered an error.</td>
</tr>
<tr>
<td>Invalid</td>
<td>The copy status is invalid.</td>
</tr>
<tr>
<td>Pending</td>
<td>The copy operation is pending.</td>
</tr>
<tr>
<td>Success</td>
<td>The copy operation succeeded.</td>
</tr>
</tbody>
</table>
See Also


Return to top
DeleteSnapshotsOption Enumeration

See Also
The set of options describing delete operation.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public enum DeleteSnapshotsOption</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public enum class DeleteSnapshotsOption</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>type DeleteSnapshotsOption</code></td>
</tr>
<tr>
<td>VB</td>
<td><code>Public Enumeration DeleteSnapshotsOption</code></td>
</tr>
</tbody>
</table>
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DeleteSnapshotsOnly</td>
<td>Delete the blob's snapshots only.</td>
</tr>
<tr>
<td>IncludeSnapshots</td>
<td>Delete the blob and its snapshots.</td>
</tr>
<tr>
<td>None</td>
<td>Delete the blob only. If the blob has snapshots, this option will result in an error from the service</td>
</tr>
</tbody>
</table>
See Also


Return to top
LeaseAction Enumeration

See Also
Describes actions that can be performed on a lease.

### Syntax

**C#**

```csharp
public enum LeaseAction
```

**C++**

```cpp
public enum class LeaseAction
```

**F#**

```fsharp
type LeaseAction
```

**VB**

```vbnet
Public Enumeration LeaseAction
```
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acquire</td>
<td>Acquire the lease.</td>
</tr>
<tr>
<td>Break</td>
<td>Break the lease.</td>
</tr>
<tr>
<td>Change</td>
<td>Change the lease ID.</td>
</tr>
<tr>
<td>Release</td>
<td>Release the lease.</td>
</tr>
<tr>
<td>Renew</td>
<td>Renew the lease.</td>
</tr>
</tbody>
</table>
See Also


Return to top
LeaseDuration Enumeration

See Also
The lease duration of a resource.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://msdn.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public enum LeaseDuration

C++  
public enum class LeaseDuration

F#  
type LeaseDuration

VB  
Public Enumeration LeaseDuration
Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed</td>
<td>The lease duration is finite.</td>
</tr>
<tr>
<td>Infinite</td>
<td>The lease duration is infinite.</td>
</tr>
<tr>
<td>Unspecified</td>
<td>The lease duration is not specified.</td>
</tr>
</tbody>
</table>
See Also


Return to top
LeaseState Enumeration

See Also
The lease state of a resource.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public enum LeaseState</code></td>
<td></td>
</tr>
<tr>
<td>C++</td>
<td><code>public enum class LeaseState</code></td>
<td></td>
</tr>
<tr>
<td>F#</td>
<td><code>type LeaseState</code></td>
<td></td>
</tr>
<tr>
<td>VB</td>
<td><code>Public Enumeration LeaseState</code></td>
<td></td>
</tr>
<tr>
<td>Member name</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>Available</td>
<td>The lease is in the Available state.</td>
<td></td>
</tr>
<tr>
<td>Breaking</td>
<td>The lease is in the Breaking state.</td>
<td></td>
</tr>
<tr>
<td>Broken</td>
<td>The lease is in the Broken state.</td>
<td></td>
</tr>
<tr>
<td>Expired</td>
<td>The lease is in the Expired state.</td>
<td></td>
</tr>
<tr>
<td>Leased</td>
<td>The lease is in the Leased state.</td>
<td></td>
</tr>
<tr>
<td>Unspecified</td>
<td>The lease state is not specified.</td>
<td></td>
</tr>
</tbody>
</table>
See Also


Return to top
LeaseStatus Enumeration

See Also
The lease status of a resource.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public enum LeaseStatus
```

C++

```cpp
public enum class LeaseStatus
```

F#

```fsharp
type LeaseStatus
```

VB

```vbnet
Public Enumeration LeaseStatus
```
Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Locked</td>
<td>The resource is locked.</td>
</tr>
<tr>
<td>Unlocked</td>
<td>The resource is available to be locked.</td>
</tr>
<tr>
<td>Unspecified</td>
<td>The lease status is not specified.</td>
</tr>
</tbody>
</table>
See Also


Return to top
<table>
<thead>
<tr>
<th>SequenceNumberAction Enumeration</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
</tr>
</tbody>
</table>
Describes actions that can be performed on a page blob sequence number.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public enum SequenceNumberAction

C++  
public enum class SequenceNumberAction

F#  
type SequenceNumberAction

VB  
Public Enumeration SequenceNumberAction
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Increment</strong></td>
<td>Increments the value of the sequence number by 1.</td>
</tr>
<tr>
<td><strong>Max</strong></td>
<td>Sets the sequence number to be the higher of the value included with the request and the value currently stored for the blob.</td>
</tr>
<tr>
<td><strong>Update</strong></td>
<td>Sets the sequence number to the value included with the request.</td>
</tr>
</tbody>
</table>
See Also


Return to top
SharedAccessBlobPermissions Enumeration

See Also
Specifies the set of possible permissions for a shared access policy.

This enumeration has a FlagsAttribute attribute that allows a bitwise combination of its member values.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[FlagsAttribute]
public enum SharedAccessBlobPermissions

C++  
[FlagsAttribute]
public enum class SharedAccessBlobPermissions

F#  
[<FlagsAttribute>]
type SharedAccessBlobPermissions

VB  
<FlagsAttribute>
Public Enumeration SharedAccessBlobPermissions
<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add</td>
<td>Add access granted.</td>
</tr>
<tr>
<td>Create</td>
<td>Create access granted.</td>
</tr>
<tr>
<td>Delete</td>
<td>Delete access granted for blobs.</td>
</tr>
<tr>
<td>List</td>
<td>List access granted.</td>
</tr>
<tr>
<td>None</td>
<td>No shared access granted.</td>
</tr>
<tr>
<td>Read</td>
<td>Read access granted.</td>
</tr>
</tbody>
</table>
See Also


Return to top
<table>
<thead>
<tr>
<th>Microsoft.WindowsAzure.Storage Namespace</th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
</tr>
</thead>
</table>
## Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AccessCondition</strong></td>
<td>Represents a set of access conditions used for operations against storage services.</td>
</tr>
<tr>
<td><strong>CloudStorageAccount</strong></td>
<td>Represents a Windows Azure Storage account.</td>
</tr>
<tr>
<td><strong>DoesServiceRequestAttribute</strong></td>
<td>Specifies the method will make one or more requests to the storage service.</td>
</tr>
</tbody>
</table>
### Interfaces

<table>
<thead>
<tr>
<th>Interface</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBufferManager</td>
<td>An interface that allows clients to provide a buffer manager to a given service client. This interface is patterned after the <code>System.ServiceModel.Channels.BufferManager</code> class.</td>
</tr>
<tr>
<td>ICancellableAsyncResult</td>
<td>Represents the status of an asynchronous operation and provides support for cancellation.</td>
</tr>
<tr>
<td>IContinuationToken</td>
<td>An interface required for continuation token types.</td>
</tr>
<tr>
<td>IRequestOptions</td>
<td>An interface required for request option types.</td>
</tr>
</tbody>
</table>
# Enumerations

<table>
<thead>
<tr>
<th>Enumeration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AuthenticationScheme</td>
<td>Specifies the authentication scheme used to sign HTTP requests.</td>
</tr>
<tr>
<td>LogLevel</td>
<td>Specifies what messages to output to the log.</td>
</tr>
<tr>
<td>SharedAccessAccountPermissions</td>
<td>Specifies the set of possible permissions for a shared access account policy.</td>
</tr>
<tr>
<td>SharedAccessAccountResourceTypes</td>
<td>Specifies the set of possible signed resource types for a shared access account policy.</td>
</tr>
</tbody>
</table>
ICancellableAsyncResult...Cancel Method (0)000
See Also
Cancels the asynchronous operation.

**Namespace:**  [Microsoft.WindowsAzure.Storage](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>void Cancel()</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>void Cancel()</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>abstract Cancel : unit -&gt; unit</code></td>
</tr>
<tr>
<td>VB</td>
<td><code>Sub Cancel</code></td>
</tr>
</tbody>
</table>
See Also

ICancellableAsyncResult Interface
Microsoft.WindowsAzure.Storage Namespace

Return to top
CloudBlob..::.BeginSnapshot Method
(AsyncCallback, Object)(AsyncCallback^, Object^)(AsyncCallback, Object)(AsyncCallback, Object)

See Also
Begins an asynchronous operation to create a snapshot of the blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancelableAsyncResult BeginSnapshot(
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancelableAsyncResult* BeginSnapshot(
    AsyncCallback* callback,
    Object* state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginSnapshot :
    callback:AsyncCallback *
    state:Object -> ICancelableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginSnapshot :
    callback:AsyncCallback *
    state:Object -> ICancelableAsyncResult
```

VB

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function BeginSnapshot (callback As AsyncCallback, state As Object) As ICancelableAsyncResult
```
See Also

- BeginSnapshot_ Overload
- CloudBlob Class

Return to top
CloudBlob::BeginSnapshot Method

See Also
Begins an asynchronous operation to create a snapshot of the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginSnapshot(
    IDictionary<string, string> metadata,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginSnapshot(
    IDictionary<String^, String^>^ metadata,
    AccessCondition^ accessCondition,
   _blobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]
abstract BeginSnapshot :
    metadata:IDictionary<string, string> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
See Also

BeginSnapshot_ Overload
CloudBlob Class

Return to top
CloudBlob Constructor (StorageUri, Nullable<DateTimeOffset>, StorageCredentials)
(StorageUri^, Nullable<DateTimeOffset>, StorageCredentials^)
(StorageUri, Nullable<DateTimeOffset>, StorageCredentials)
(StorageUri, Nullable(Of DateTimeOffset), StorageCredentials)

See Also
Initializes a new instance of the `CloudBlob` class using an absolute URI to the blob.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public CloudBlob(
    StorageUri blobAbsoluteUri,
    Nullable<DateTimeOffset> snapshotTime,
    StorageCredentials credentials)
```

C++

```cpp
public:
CloudBlob(
    StorageUri^ blobAbsoluteUri,
    Nullable<DateTimeOffset> snapshotTime,
    StorageCredentials^ credentials)
```

F#

```fsharp
new : blobAbsoluteUri:StorageUri *
    snapshotTime:Nullable<DateTimeOffset>*
    credentials:StorageCredentials -> CloudBlob
```

VB

```vb
Public Sub New (  
    blobAbsoluteUri As StorageUri,
    snapshotTime As Nullable(Of DateTimeOffset),
    credentials As StorageCredentials
)  
```
See Also

CloudBlob Overload
CloudBlob Class

Return to top
<table>
<thead>
<tr>
<th>CloudBlob Constructor (Uri)(Uri^)(Uri)(Uri)</th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Initializes a new instance of the CloudBlob class using an absolute URI to the blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public CloudBlob(
    Uri blobAbsoluteUri
)
```

C++  

```cpp
public:
CloudBlob(
    Uri^ blobAbsoluteUri
)
```

F#  

```fsharp
new :
    blobAbsoluteUri:Uri -> CloudBlob
```

VB  

```vbnet
Public Sub New (  
    blobAbsoluteUri As Uri  
)
```

Parameters

(blobAbsoluteUri  
Type: System.Uri System::Uri
A Uri specifying the absolute URI to the blob.)
See Also

CloudBlob Overload
CloudBlob Class

Return to top
CloudBlob Constructor (Uri, Nullable<DateTimeOffset>, StorageCredentials)
(Uri^, Nullable<DateTimeOffset>, StorageCredentials^)(Uri, Nullable<DateTimeOffset>, StorageCredentials)(Uri, Nullable(Of DateTimeOffset), StorageCredentials)

See Also
 Initializes a new instance of the CloudBlob class using an absolute URI to the blob.

Syntax

C#

```csharp
public CloudBlob(
    Uri blobAbsoluteUri,
    Nullable<DateTimeOffset> snapshotTime,
    StorageCredentials credentials
)
```

C++

```cpp
public:
    CloudBlob(
        Uri^ blobAbsoluteUri,
        Nullable<DateTimeOffset> snapshotTime,
        StorageCredentials^ credentials
    )
```

F#

```fsharp
new :
    blobAbsoluteUri:Uri *
    snapshotTime:Nullable<DateTimeOffset> *
    credentials:StorageCredentials -> CloudBlob
```

VB

```vbnet
Public Sub New (  
    blobAbsoluteUri As Uri,  
    snapshotTime As Nullable(Of DateTimeOffset),  
    credentials As StorageCredentials)
```

See Also

CloudBlob Overload
CloudBlob Class

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<table>
<thead>
<tr>
<th>CloudBlob Constructor (Uri, StorageCredentials)</th>
<th>C# C++ F# VB</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Uri^, StorageCredentials^)(Uri, StorageCredentials)(Uri, StorageCredentials)</td>
<td></td>
</tr>
</tbody>
</table>

See Also
Initializes a new instance of the **CloudBlob** class using an absolute URI to the blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public CloudBlob(
    Uri blobAbsoluteUri,
    StorageCredentials credentials
)
```

C++

```cpp
public:
CloudBlob(
    Uri^ blobAbsoluteUri,
    StorageCredentials^ credentials
)
```

F#

```fsharp
new :
    blobAbsoluteUri:Uri *
    credentials:StorageCredentials -> CloudBlob
```

VB

```vbnet
Public Sub New ( 
    blobAbsoluteUri As Uri,
    credentials As StorageCredentials
)
```

Parameters

`blobAbsoluteUri`
See Also

CloudBlob Overload
CloudBlob Class

Return to top
See Also
Gets the type of the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public BlobType BlobType { get; internal set; }

C++
public: BlobType BlobType {
    virtual BlobType get() sealed;
    internal: virtual void set(BlobType value)
}

F#
abstract BlobType : BlobType with get, internal
override BlobType : BlobType with get, internal

VB
Public Property BlobType As BlobType
    Get
        Friend Set
End Property

Property Value

Type:  
A BlobTypeBlobTypeBlobTypeBlobType enumeration value.
See Also

**CloudBlob Class**  
**Microsoft.WindowsAzure.Storage.Blob Namespace**

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<table>
<thead>
<tr>
<th>CloudBlob.Container Property</th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
</tr>
</thead>
<tbody>
<tr>
<td>PropertyCloudBlob:::Container PropertyCloudBlob.Container Property</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

See Also
Gets a `CloudBlobContainer` object representing the blob's container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public CloudBlobContainer Container { get; }
```

C++

```cpp
public:
    property CloudBlobContainer^ Container {
        virtual CloudBlobContainer^ get() sealed
    }
```

F#

```fsharp
abstract Container : CloudBlobContainer with get
override Container : CloudBlobContainer with get
```

VB

```vbnet
Public ReadOnly Property Container As CloudBlobContainer
```

Property Value

Type:


A `CloudBlobContainer` object.

Implements

`IListBlobItem.ContainerIListBlobItem::ContainerIListBlobItem.Container`
See Also

CloudBlob Class

Return to top
| CloudBlob.CopyState | Property
|---------------------|---------|
| CloudBlob::CopyState | Property
| CloudBlob.CopyState Property | CloudBlob.CopyState

See Also
Gets the state of the most recent or pending copy operation.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public CopyState CopyState { get; }
```

C++

```cpp
public:
property CopyState^ CopyState {
    virtual CopyState^ get() sealed;
}
```

F#

```fsharp
abstract CopyState : CopyState with get
override CopyState : CopyState with get
```

VB

```vbnet
Public Readonly Property CopyState As CopyState
```

Property Value

Type:


A `CopyState` object containing the copy state, or `null` if there is no copy state for the blob.
See Also

CloudBlob Class

Return to top
CloudBlob.IsSnapshot

**Property**

See Also
Gets a value indicating whether this blob is a snapshot.

Syntax

C#  
```csharp
public bool IsSnapshot { get; }
```

C++  
```cpp
public:
    property bool IsSnapshot {
        virtual bool get() sealed;
    }
```

F#  
```fsharp
abstract IsSnapshot : bool with get
override IsSnapshot : bool with get
```

VB  
```vbnet
Public ReadOnly Property IsSnapshot As Boolean
```

Property Value

Type: `System.Boolean`
`true` if this blob is a snapshot; otherwise, `false`. 
See Also

CloudBlob Class

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See Also
Gets the user-defined metadata for the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```
public IDictionary<string, string> Metadata { get; }
```

C++  
```
public:
property IDictionary<String^, String^>^ Metadata
virtual IDictionary<String^, String^>^ Metadata
```  

F#  
```
abstract Metadata : IDictionary<string, string>
override Metadata : IDictionary<string, string>
```  

VB  
```
Public ReadOnly Property Metadata As IDictionary
```  

**Property Value**

Type:  
`System.Collections.Generic.IDictionary<String, String>`  
An `IDictionary<TKey, TValue>` object containing the blob's metadata as a collection of name-value pairs.
See Also

CloudBlob Class

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C# C++ F# VB
Gets the name of the blob.

Syntax

C#  
```csharp
public string Name { get; private set; }
```

C++  
```cpp
public:
property String^ Name {
    virtual String^ get() sealed;
    private: virtual void set(String^ value)
}
```

F#  
```fsharp
abstract Name : string with get, private set
override Name : string with get, private set
```

VB  
```vbnet
Public Property Name As String
        Get
        Private Set
End Property
```

Property Value

Type: System.String

A string containing the name of the blob.
See Also

CloudBlob Class

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See Also
Gets the CloudBlobDirectory object representing the virtual parent directory for the blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public CloudBlobDirectory Parent { get; }
```

C++
```cpp
public:
property CloudBlobDirectory^ Parent {
    virtual CloudBlobDirectory^ get() sealed
}
```

F#
```fsharp
abstract Parent : CloudBlobDirectory with get
override Parent : CloudBlobDirectory with get
```

VB
```vbnet
Public ReadOnly Property Parent As CloudBlobDirectory
```

Property Value

Type:  
A `CloudBlobDirectory` object.

Implements

- `IListBlobItem.Parent`  
- `IListBlobItem::Parent`
See Also

CloudBlob Class

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See Also
Gets the blob's system properties.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

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

C++

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

F#

```fsharp
abstract Properties : BlobProperties with get
override Properties : BlobProperties with get
```

VB

```vbnet
Public ReadOnly Property Properties As BlobProperties
```

Property Value

Type:

See Also

CloudBlob Class

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See Also
Gets the CloudBlobClient object that represents the Blob service.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#
```csharp
public CloudBlobClient ServiceClient { get; private;
```

C++
```cpp
public:
    CloudBlobClient^ ServiceClient { 
        virtual CloudBlobClient^ get() sealed;
        private: virtual void set(CloudBlobClient^ value)
    }
```

F#
```fsharp
abstract ServiceClient : CloudBlobClient with
override ServiceClient : CloudBlobClient with
```

VB
```vbnet
Public Property ServiceClient As CloudBlobClient
    Get
    Private Set
End Property
```

Property Value

Type:

A CloudBlobClient object.
See Also

CloudBlob Class

Return to top
CloudBlob.SnapshotQualifiedStorageUri Property

See Also
Gets the blob's URI for both the primary and secondary locations, including query string information if the blob is a snapshot.

Syntax

C#  
public StorageUri SnapshotQualifiedStorageUri {
}

C++  
public:
property StorageUri^ SnapshotQualifiedStorageUri {
    virtual StorageUri^ get() sealed;
}

F#  
abstract SnapshotQualifiedStorageUri : StorageUri
override SnapshotQualifiedStorageUri : StorageUri

VB  
Public ReadOnly Property SnapshotQualifiedStorageUri

Property Value

Type:  
Microsoft.WindowsAzure.Storage.StorageUri
An object of type StorageUri containing the blob's URIs for both the primary and secondary locations, including snapshot query information if the blob is a snapshot.
See Also

CloudBlob Class

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See Also
Gets the absolute URI to the blob, including query string information if the blob is a snapshot.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public Uri SnapshotQualifiedUri { get; }

C++  
public:  
property Uri^ SnapshotQualifiedUri {  
    virtual Uri^ get() sealed;
}

F#  
abstract SnapshotQualifiedUri : Uri with get  
override SnapshotQualifiedUri : Uri with get

VB  
Public ReadOnly Property SnapshotQualifiedUri As  

Property Value

Type: System.Uri System::Uri^ System.Uri System.Uri  
A Uri specifying the absolute URI to the blob, including snapshot query information if the blob is a snapshot.
See Also

CloudBlob Class

Return to top
CloudBlob.SnapshotTime Property

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

Syntax

C#  
```csharp
public Nullable<DateTimeOffset> SnapshotTime {
    get; }  
```

C++  
```cpp
public:
    Nullable<DateTimeOffset> SnapshotTime {
        virtual Nullable<DateTimeOffset> get();
        private:
            virtual void set(Nullable<DateTimeOffset> value);
    }
```

F#  
```fsharp
abstract SnapshotTime : Nullable<DateTimeOffset>
override SnapshotTime : Nullable<DateTimeOffset>
```

VB  
```vbnet
Public Property SnapshotTime As Nullable(Of DateTimeOffset)
    Get
        Private Set
    End Property
```

Property Value

Type:  

```csharp
System.Nullable<DateTimeOffset> System::Nullable<DateTimeOffset>
```

A DateTimeOffset containing the blob’s snapshot time if the blob is a snapshot; otherwise, **null**.
Remarks

If the blob is not a snapshot, the value of this property is `null`.
See Also

CloudBlob Class

Return to top
CloudBlob.StorageUri
Property

See Also
Gets the blob's URIs for both the primary and secondary locations.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public StorageUri StorageUri { get; }
```

C++  

```cpp
public:
property StorageUri^ StorageUri {
    virtual StorageUri^ get() sealed;
}
```

F#  

```fsharp
abstract StorageUri : StorageUri with get
override StorageUri : StorageUri with get
```

VB  

```vbnet
Public ReadOnly Property StorageUri As StorageUri
```

Property Value

Type:  

`Microsoft.WindowsAzure.Storage.StorageUri`  

An object of type `StorageUri` containing the blob's URIs for both the primary and secondary locations.

Implements
See Also

CloudBlob Class

Return to top
CloudBlob.StreamMinimumReadSizeInBytes Property

See Also
Gets or sets the minimum number of bytes to buffer when reading from a blob stream.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public int StreamMinimumReadSizeInBytes { get; set; }
```  

C++  
```cpp
public:
  property int StreamMinimumReadSizeInBytes {
    virtual int get() sealed;
    virtual void set(int value) sealed;
  }
```  

F#  
```fsharp
abstract StreamMinimumReadSizeInBytes : int with override StreamMinimumReadSizeInBytes : int with
```  

VB  
```vb
Public Property StreamMinimumReadSizeInBytes As
```  

**Property Value**

Type: [System.Int32][System::Int32][System.Int32][System.Int32]

The minimum number of bytes to buffer, being at least 16 KB.
See Also

CloudBlob Class

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See Also
Gets the blob's URI for the primary location.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

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

C++

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

F#

```fsharp
abstract Uri : Uri with get
override Uri : Uri with get
```

VB

```vbnet
Public ReadOnly Property Uri As Uri
```

Property Value

Type: `System.Uri`<br>`System::Uri`<br>`System.Uri`<br>`System.Uri`<br>
A Uri specifying the absolute URI to the blob at the primary location.

Implements

`IListBlobItem.Uri`<br>`IListBlobItem::Uri`<br>`IListBlobItem.Uri`<br>`IListBlobItem.Uri`
See Also

CloudBlob Class

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See Also
Initiates an asynchronous operation to abort an ongoing blob copy operation.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task AbortCopyAsync(
    string copyId
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task^ AbortCopyAsync(
    String^ copyId
)

F#  
[<DoesServiceRequestAttribute>]
abstract AbortCopyAsync :
    copyId:string -> Task
[<DoesServiceRequestAttribute>]
override AbortCopyAsync :
    copyId:string -> Task

VB  
<DoesServiceRequestAttribute>
Public Overridable Function AbortCopyAsync (  
    copyId As String
) As Task
See Also

AbortCopyAsync Overload
CloudBlob Class

Return to top
See Also
Initiates an asynchronous operation to abort an ongoing blob copy operation.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```
[DoesServiceRequestAttribute]
public virtual Task AbortCopyAsync(
    string copyId,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext)
```

C++

```
public:
[DoesServiceRequestAttribute]
virtual Task^ AbortCopyAsync(
    String^ copyId,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext)
```

F#

```
[<DoesServiceRequestAttribute>]
abstract AbortCopyAsync :
    copyId:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task

[<DoesServiceRequestAttribute>]
override AbortCopyAsync :
    copyId:string *
See Also

AbortCopyAsync Overload
CloudBlob Class

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CloudBlob::AbortCopyAsync Method (String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(String^, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)(String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to abort an ongoing blob copy operation.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/Microsoft/storage-sdk/blob/master/docs/)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]  
public virtual Task AbortCopyAsync(
    string copyId,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++

public:

[DoesServiceRequestAttribute]
virtual Task^ AbortCopyAsync(
    String^ copyId,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract AbortCopyAsync :
    copyId:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken *
See Also

AbortCopyAsync Overload
CloudBlob Class

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CloudBlob:::AbortCopyAsync Method (String, CancellationToken)(String^, CancellationToken)(String, CancellationToken)(String, CancellationToken)

See Also
Initiates an asynchronous operation to abort an ongoing blob copy operation.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task AbortCopyAsync(
    string copyId,
    CancellationToken cancellationToken
)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task^ AbortCopyAsync(
    String^ copyId,
    CancellationToken cancellationToken
)

F#  

[<DoesServiceRequestAttribute>]
abstract AbortCopyAsync :
    copyId:string *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override AbortCopyAsync :
    copyId:string *
    cancellationToken:CancellationToken ->

VB  

<DoesServiceRequestAttribute>
Public Overridable Function AbortCopyAsync (
See Also

AbortCopyAsync Overload
CloudBlob Class

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See Also
Initiates an asynchronous operation to acquire a lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<string> AcquireLeaseAsync(
    Nullable<TimeSpan> leaseTime,
    string proposedLeaseId = null
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ AcquireLeaseAsync(
    Nullable<TimeSpan> leaseTime,
    String^ proposedLeaseId = null
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract AcquireLeaseAsync :
    leaseTime:Nullable<TimeSpan> *
    proposedLeaseId:string = null  ->  Task<string>

[<DoesServiceRequestAttribute>]
override AcquireLeaseAsync :
    leaseTime:Nullable<TimeSpan> *
    proposedLeaseId:string = null  ->  Task<string>
```

VB

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function AcquireLeaseAsync
```
See Also

AcquireLeaseAsync_Overload
CloudBlob Class

Return to top
**CloudBlob::AcquireLeaseAsync Method**

(C#)

```csharp
(Nullable<TimeSpan>, String, AccessCondition, BlobRequestOptions, OperationContext)
```

(++)

```cpp
(Nullable<TimeSpan>, String, AccessCondition, BlobRequestOptions, OperationContext)
```

(F#)

```fsharp
(Nullable<TimeSpan>, String, AccessCondition, BlobRequestOptions, OperationContext)
```

(VB)

```vbnet
(Nullable(Of TimeSpan), String, AccessCondition, BlobRequestOptions, OperationContext)
```

See Also
Initiates an asynchronous operation to acquire a lease on this blob.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<string> AcquireLeaseAsync(
    Nullable<TimeSpan> leaseTime,
    string proposedLeaseId,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++  
public:  
[DoesServiceRequestAttribute]
virtual Task<String^>^ AcquireLeaseAsync(
    Nullable<TimeSpan> leaseTime,
    String^ proposedLeaseId,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#  
[<DoesServiceRequestAttribute>]
abstract AcquireLeaseAsync :
    leaseTime:Nullable<TimeSpan> *  
    proposedLeaseId:string *  
    accessCondition:AccessCondition *  
    options:BlobRequestOptions *  
    operationContext:OperationContext *
See Also

AcquireLeaseAsync_Overload
CloudBlob Class

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CloudBlob...AcquireLeaseAsync Method

(Nullable<TimeSpan>, String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(Nullable<TimeSpan>, String^, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)
(Nullable<TimeSpan>, String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(Nullable(Of TimeSpan), String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to acquire a lease on this blob.

Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<string> AcquireLeaseAsync(
    Nullable<TimeSpan> leaseTime,
    string proposedLeaseId,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ AcquireLeaseAsync(
    Nullable<TimeSpan> leaseTime,
    String^ proposedLeaseId,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract AcquireLeaseAsync :
    leaseTime:Nullable<TimeSpan> *
    proposedLeaseId:string *
    accessCondition:AccessCondition *
```
See Also

AcquireLeaseAsync_Overload
CloudBlob Class

Return to top
CloudBlob:::AcquireLeaseAsync Method

C#  

C++  

F#  

VB

(Nullable<TimeSpan>, String, CancellationToken)
(Nullable<TimeSpan>, String^, CancellationToken)
(Nullable<TimeSpan>, String, CancellationToken)(Nullable(Of TimeSpan), String, CancellationToken)

See Also
Initiates an asynchronous operation to acquire a lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task<string> AcquireLeaseAsync(
    Nullable<TimeSpan> leaseTime,
    string proposedLeaseId,
    CancellationToken cancellationToken
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ AcquireLeaseAsync(
    Nullable<TimeSpan> leaseTime,
    String^ proposedLeaseId,
    CancellationToken cancellationToken
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract AcquireLeaseAsync :
    leaseTime:Nullable<TimeSpan> *
    proposedLeaseId:string *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override AcquireLeaseAsync :
    leaseTime:Nullable<TimeSpan> *
    proposedLeaseId:string *
    cancellationToken:CancellationToken ->
```
See Also

AcquireLeaseAsync_Overload
CloudBlob Class

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**CloudBlob**: BeginAbortCopy Method

```csharp
public static void BeginAbortCopy
    (String name, AccessCondition accessCondition,
     BlobRequestOptions options, OperationContext context,
     AsyncCallback callback, Object state);
```

```c++
void BeginAbortCopy
    (std::wstring name, const AccessCondition& accessCondition,
     const BlobRequestOptions& options, const OperationContext& context,
     AsyncCallback callback, void* state);
```

```fsharp
member CloudBlob.BeginAbortCopy
    : string * AccessCondition * BlobRequestOptions * OperationContext * AsyncCallback * Object -> unit
```

```vbnet
Public Shared Sub BeginAbortCopy
    (name As String, accessCondition As AccessCondition, options As BlobRequestOptions,
     context As OperationContext, callback As AsyncCallback, state As Object)
End Sub
```

**See Also**
Begins an asynchronous operation to abort an ongoing blob copy operation.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginAbortCopy(
    string copyId,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++  
public:  
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginAbortCopy(
    String^ copyId,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#  
[<DoesServiceRequestAttribute>]
abstract BeginAbortCopy :  
    copyId:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    state:Object *
See Also

- BeginAbortCopy Overload
- CloudBlob Class

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CloudBlob::BeginAbortCopy Method (String, AsyncCallback, Object)(String^, AsyncCallback^, Object^)(String, AsyncCallback, Object)(String, AsyncCallback, Object)

See Also
Begins an asynchronous operation to abort an ongoing blob copy operation.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginAbortCopy(
    string copyId,
    AsyncCallback callback,
    object state
)

C++
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginAbortCopy(
    String^ copyId,
    AsyncCallback^ callback,
    Object^ state
)

F#
[<DoesServiceRequestAttribute>]
abstract BeginAbortCopy :
    copyId:string *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginAbortCopy :
    copyId:string *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
See Also

- BeginAbortCopy Overload
- CloudBlob Class

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CloudBlob::BeginAcquireLease Method
(Nullable<TimeSpan>, String, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(Nullable<TimeSpan>, String^, AccessCondition^,
BlobRequestOptions^, OperationContext^, AsyncCallback^,
Object^)(Nullable<TimeSpan>, String, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(Nullable(Of TimeSpan), String, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)
See Also
Begins an asynchronous operation to acquire a lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginAcquireLease(
    Nullable<TimeSpan> leaseTime,
    string proposedLeaseId,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginAcquireLease(
    Nullable<TimeSpan> leaseTime,
    String^ proposedLeaseId,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginAcquireLease :
    leaseTime:Nullable<TimeSpan> *
```
See Also

- BeginAcquireLease Overload
- CloudBlob Class

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See Also
Begins an asynchronous operation to acquire a lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginAcquireLease(
    Nullable<TimeSpan> leaseTime,
    string proposedLeaseId,
    AsyncCallback callback,
    object state
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginAcquireLease(
    Nullable<TimeSpan> leaseTime,
    String^ proposedLeaseId,
    AsyncCallback^ callback,
    Object^ state
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginAcquireLease :
    leaseTime:Nullable<TimeSpan> *
    proposedLeaseId:string *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginAcquireLease :
    leaseTime:Nullable<TimeSpan> *
```
See Also

BeginAcquireLease Overload
CloudBlob Class

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CloudBlob::BeginBreakLease Method
(Nullable<TimeSpan>, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(Nullable<TimeSpan>, AccessCondition^,
BlobRequestOptions^, OperationContext^, AsyncCallback^,
Object^)(Nullable<TimeSpan>, AccessCondition, 
BlobRequestOptions, OperationContext, AsyncCallback, 
Object)(Nullable(Of TimeSpan), AccessCondition, 
BlobRequestOptions, OperationContext, AsyncCallback, 
Object)
See Also
Begins an asynchronous operation to break the current lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginBreakLease(
    Nullable<TimeSpan> breakPeriod,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginBreakLease(
    Nullable<TimeSpan> breakPeriod,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginBreakLease :
    breakPeriod:Nullable<TimeSpan> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
```
See Also

- BeginBreakLease_Overload
- CloudBlob Class

Return to top
CloudBlob::<..BeginBreakLease Method
(Nullable<TimeSpan>, AsyncCallback, Object)
(Nullable<TimeSpan>, AsyncCallback^, Object^)
(Nullable<TimeSpan>, AsyncCallback, Object)(Nullable(Of TimeSpan), AsyncCallback, Object)

See Also
Begins an asynchronous operation to break the current lease on this blob.

Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginBreakLease(
    Nullable<TimeSpan> breakPeriod,
    AsyncCallback callback,
    object state
)

C++  
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginBreakLease(
    Nullable<TimeSpan> breakPeriod,
    AsyncCallback^ callback,
    Object^ state
)

F#  
[<DoesServiceRequestAttribute>]
abstract BeginBreakLease :
    breakPeriod:Nullable<TimeSpan> *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginBreakLease :
    breakPeriod:Nullable<TimeSpan> *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
See Also

BeginBreakLease Overload
CloudBlob Class

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See Also
Begins an asynchronous operation to change the lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginChangeLease(
    string proposedLeaseId,
    AccessCondition accessCondition,
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginChangeLease(
    String* proposedLeaseId,
    AccessCondition* accessCondition,
    AsyncCallback* callback,
    Object* state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginChangeLease :
    proposedLeaseId:string *
    accessCondition:AccessCondition *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginChangeLease :
    proposedLeaseId:string *
    accessCondition:AccessCondition *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
See Also

- BeginChangeLease_Overload
- CloudBlob Class

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See Also
Begins an asynchronous operation to change the lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginChangeLease(
    string proposedLeaseId,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++

```
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginChangeLease(
    String^ proposedLeaseId,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```
[<DoesServiceRequestAttribute>]
abstract BeginChangeLease :
    proposedLeaseId:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    ```
See Also

BeginChangeLease Overload
CloudBlob Class

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CloudBlob:::BeginDelete Method (AsyncCallback, Object)(AsyncCallback^, Object^)
(AsyncCallback, Object)(AsyncCallback, Object)
See Also
Begins an asynchronous operation to delete the blob.


Syntax

C#  

[DoesServiceRequestAttribute]

public virtual ICancellableAsyncResult BeginDelete(
    AsyncCallback callback,
    object state
)

C++

public:
[DoesServiceRequestAttribute]

virtual ICancellableAsyncResult* BeginDelete(
    AsyncCallback* callback,
    Object* state
)

F#

[<DoesServiceRequestAttribute>]

abstract BeginDelete :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]

override BeginDelete :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

VB

<DoesServiceRequestAttribute>

Public Overridable Function BeginDelete (}
See Also

BeginDelete_ Overload
CloudBlob Class

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See Also
Begins an asynchronous operation to delete the blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDelete(
    DeleteSnapshotsOption deleteSnapshotsOption,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginDelete(
    DeleteSnapshotsOption deleteSnapshotsOption,
    AccessCondition* accessCondition,
    BlobRequestOptions* options,
    OperationContext* operationContext,
    AsyncCallback* callback,
    Object* state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]  
abstract BeginDelete :  
    deleteSnapshotsOption:DeleteSnapshotsOption *  
    accessCondition:AccessCondition *  
    options:BlobRequestOptions *  
    callback:AsyncCallback *  
    state:object *  
    ICancellableAsyncResult -> unit
```
See Also

BeginDelete_Overload
CloudBlob Class

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See Also
Begins an asynchronous request to delete the blob if it already exists.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDeleteIfExists(AsyncCallback callback, object state)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginDeleteIfExists(AsyncCallback* callback, Object* state)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginDeleteIfExists : callback:AsyncCallback * state:Object -> ICancellableAsyncResult
[<DoesServiceRequestAttribute>]
override BeginDeleteIfExists : callback:AsyncCallback * state:Object -> ICancellableAsyncResult
```

VB  

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function BeginDeleteIfExists
```
See Also

BeginDeleteIfExists_Overload
CloudBlob Class

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CloudBlob::<..BeginDeleteIfExists Method
(DeleteSnapshotsOption, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(DeleteSnapshotsOption, AccessCondition^,
BlobRequestOptions^, OperationContext^, AsyncCallback^,
Object^)(DeleteSnapshotsOption, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(DeleteSnapshotsOption, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)

See Also
Begins an asynchronous request to delete the blob if it already exists.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDeleteIfExists(DeleteSnapshotsOption deleteSnapshotsOption, AccessCondition accessCondition, BlobRequestOptions options, OperationContext operationContext, AsyncCallback callback, object state)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDeleteIfExists(DeleteSnapshotsOption deleteSnapshotsCondition, AccessCondition^ accessCondition, BlobRequestOptions^ options, OperationContext^ operationContext, AsyncCallback^ callback, Object^ state)

F#

[<DoesServiceRequestAttribute>]
abstract BeginDeleteIfExists : deleteSnapshotsOption:DeleteSnapshotsOption * accessCondition:AccessCondition * options:BlobRequestOptions *
See Also

BeginDeleteIfExists_Overload
CloudBlob Class

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CloudBlob::BeginDownloadRangeToByteArray Method (Byte[], Int32, Nullable<Int64>, Nullable<Int64>, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)(array<Byte>^, Int32, Nullable<Int64>, Nullable<Int64>, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)(Byte[], Int32, Nullable<Int64>, Nullable<Int64>, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)(Byte(), Int32, Nullable(Of Int64), Nullable(Of Int64), AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to download a range of bytes from a blob to a byte array.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDownloadRangeToByteArray(
    byte[] target,
    int index,
    Nullable<long> blobOffset,
    Nullable<long> length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDownloadRangeToByteArray(
    array<unsigned char>^ target,
    int index,
    Nullable<long long> blobOffset,
    Nullable<long long> length,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginDownloadRangeToByteArray : 
```
See Also

BeginDownloadRangeToByteArray Overload
CloudBlob Class

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CloudBlob::BeginDownloadRangeToByteArray Method (Byte[], Int32, Nullable<Int64>, Nullable<Int64>, AsyncCallback, Object)(array<Byte>^, Int32, Nullable<Int64>, Nullable<Int64>, AsyncCallback^, Object^)(Byte[], Int32, Nullable<Int64>, Nullable<Int64>, AsyncCallback, Object)(Byte(), Int32, Nullable(Of Int64), Nullable(Of Int64), AsyncCallback, Object)

See Also
Begins an asynchronous operation to download a range of bytes from a blob to a byte array.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDownloadRangeToByteArray(
    byte[] target,
    int index,
    Nullable<long> blobOffset,
    Nullable<long> length,
    AsyncCallback callback,
    object state
)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDownloadRangeToByteArray(
    array<unsigned char>^ target,
    int index,
    Nullable<long long> blobOffset,
    Nullable<long long> length,
    AsyncCallback^ callback,
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]
abstract BeginDownloadRangeToByteArray :
    target:byte[] *
    index:int *
    blobOffset:Nullable<int64> *
    length:Nullable<int64> *
    callback:AsyncCallback *
    state:Object *
See Also

- BeginDownloadRangeToByteArray_ Overload
- CloudBlob Class

Return to top
CloudBlob::BeginDownloadRangeToStream Method (Stream, Nullable<Int64>, Nullable<Int64>, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)(Stream^, Nullable<Int64>, Nullable<Int64>, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)(Stream, Nullable<Int64>, Nullable<Int64>, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)(Stream, Nullable(Of Int64), Nullable(Of Int64), AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to download a range of bytes from a blob to a stream.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDownloadRangeToStream(
    Stream target,
    Nullable<long> offset,
    Nullable<long> length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++  
public:
    [DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDownloadRangeToStream(
    Stream^ target,
    Nullable<long long> offset,
    Nullable<long long> length,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#  
[<DoesServiceRequestAttribute>]
abstract BeginDownloadRangeToStream : target:Stream *
    offset:Nullable<int64>*
    length:Nullable<int64>*
    accessCondition:AccessCondition
    options:BlobRequestOptions
    operationContext:OperationContext
    callback:AsyncCallback
    state:Object

See Also

BeginDownloadRangeToStream Overload
CloudBlob Class

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CloudBlob::BeginDownloadRangeToStream

Method (Stream, Nullable<Int64>, Nullable<Int64>, AsyncCallback, Object)(Stream^, Nullable<Int64>, Nullable<Int64>, AsyncCallback^, Object^)(Stream, Nullable<Int64>, Nullable<Int64>, AsyncCallback, Object)(Stream, Nullable(Of Int64), Nullable(Of Int64), AsyncCallback, Object)

See Also
Begins an asynchronous operation to download a range of bytes from a blob to a stream.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://microsoft.windowsazure.storage.blob)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDownloadRangeToStream(
    Stream target,
    Nullable<long> offset,
    Nullable<long> length,
    AsyncCallback callback,  
    object state
)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDownloadRangeToStream(
    Stream^ target,
    Nullable<long> offset,
    Nullable<long> length,
    AsyncCallback^ callback,  
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]
abstract BeginDownloadRangeToStream : 
    target:Stream *
    offset:Nullable<int64> *
    length:Nullable<int64> *
    callback:AsyncCallback *
    state:Object * -> ICancellableAsyncResult
See Also

BeginDownloadRangeToStream_ Overload
CloudBlob Class

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CloudBlob...BeginDownloadToByteArray Method
(ByteArray, Int32, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(array<Byte>^, Int32, AccessCondition^,
BlobRequestOptions^, OperationContext^, AsyncCallback^,
Object^)(Byte[], Int32, AccessCondition, BlobRequestOptions,
OperationContext, AsyncCallback, Object)(Byte(), Int32,
AccessCondition, BlobRequestOptions, OperationContext,
AsyncCallback, Object)

See Also
Begins an asynchronous operation to download the contents of a blob to a byte array.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDownloadToByteArray(
    byte[] target,
    int index,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDownloadToByteArray(
    array<unsigned char>^ target,
    int index,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginDownloadToByteArray : target:byte[] *
```
See Also

BeginDownloadToByteArray_Overload
CloudBlob Class

Return to top
CloudBlob::BeginDownloadToByteArray Method

C#  C++  F#  VB

(Byte[], Int32, AsyncCallback, Object)
(array<Byte>^, Int32, AsyncCallback^, Object^)(Byte[], Int32, AsyncCallback, Object)(Byte(), Int32, AsyncCallback, Object)

See Also
Begins an asynchronous operation to download the contents of a blob to a byte array.

Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDownloadToByteArray(
    byte[] target,
    int index,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDownloadToByteArray(
    array<unsigned char>^ target,
    int index,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginDownloadToByteArray :
    target:byte[] *
    index:int *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginDownloadToByteArray :
    target:byte[] *
```
See Also

BeginDownloadToByteArray_Overload
CloudBlob Class

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CloudBlob::BeginDownloadToFile Method
(String, FileMode, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(String^, FileMode, AccessCondition^,
BlobRequestOptions^, OperationContext^, AsyncCallback^,
Object^)(String, FileMode, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(String, FileMode, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)

See Also
Begins an asynchronous operation to download the contents of a blob to a file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDownloadToFile(
    string path,
    FileMode mode,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDownloadToFile(
    String^ path,
    FileMode mode,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginDownloadToFile :
    path: string *
    mode: FileMode *
    accessCondition: AccessCondition *
    options: BlobRequestOptions *
    operationContext: OperationContext *
    callback: AsyncCallback *
    state: object *
See Also

BeginDownloadToFile Overload
CloudBlob Class

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CloudBlob.:::BeginDownloadToFile Method
(String, FileMode, AsyncCallback, Object)
(String^, FileMode, AsyncCallback^, Object^)(String, FileMode, AsyncCallback, Object)(String, FileMode, AsyncCallback, Object)

See Also
Begins an asynchronous operation to download the contents of a blob to a file.


**Syntax**

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDownloadToFile(
    string path,
    FileMode mode,
    AsyncCallback callback,
    object state
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginDownloadToFile(
    String^ path,
    FileMode mode,
    AsyncCallback^ callback,
    Object^ state
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginDownloadToFile :
    path:string *
    mode:FileMode *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginDownloadToFile :
    path:string *
```
See Also

BeginDownloadToFile_ Overload
CloudBlob Class

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CloudBlob::BeginDownloadToStream Method

C# C++ F# VB


See Also
Begins an asynchronous operation to download the contents of a blob to a stream.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDownloadToStream(
    Stream target,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDownloadToStream(
    Stream^ target,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginDownloadToStream :
    target:Stream *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
See Also

BeginDownloadToStream_Overload
CloudBlob Class

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BeginDownloadToStream Method (Stream, AsyncCallback, Object)(Stream^, AsyncCallback^, Object^)(Stream, AsyncCallback, Object) (Stream, AsyncCallback, Object)

See Also
Begins an asynchronous operation to download the contents of a blob to a stream.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]

public virtual ICancellableAsyncResult BeginDownloadToStream(
  Stream target,
  AsyncCallback callback,
  object state
)

C++  

public:

[DoesServiceRequestAttribute]

virtual ICancellableAsyncResult* BeginDownloadToStream(
  Stream* target,
  AsyncCallback* callback,
  Object* state
)

F#  

[<DoesServiceRequestAttribute>]

abstract BeginDownloadToStream : 
  target:Stream -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]

override BeginDownloadToStream : 
  target:Stream -> ICancellableAsyncResult
See Also

BeginDownloadToStream_Overload
CloudBlob Class

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See Also
Begins an asynchronous request to check existence of the blob.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginExists(AsyncCallback callback, object state)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginExists(AsyncCallback^ callback, Object^ state)

F#

[<DoesServiceRequestAttribute>]
abstract BeginExists :
    callback : AsyncCallback *
    state : Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginExists :
    callback : AsyncCallback *
    state : Object -> ICancellableAsyncResult

VB

<DoesServiceRequestAttribute>
Public Overridable Function BeginExists (
See Also

BeginExists Overload
CloudBlob Class

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CloudBlob::<BeginExists Method
(BlobRequestOptions, OperationContext,
AsyncCallback, Object)(BlobRequestOptions^,
OperationContext^, AsyncCallback^, Object^)
(BlobRequestOptions, OperationContext, AsyncCallback,
Object)(BlobRequestOptions, OperationContext,
AsyncCallback, Object)
See Also
Begins an asynchronous request to check existence of the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginExists(BlobRequestOptions options,
OperationContext operationContext,
AsyncCallback callback,
object state)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginExists(
    BlobRequestOptions* options,
    OperationContext* operationContext,
    AsyncCallback* callback,
    Object* state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginExists :
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginExists :
    options:BlobRequestOptions *
```
See Also

BeginExists Overload
CloudBlob Class

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CloudBlob::BeginFetchAttributes Method

(C::AccessCondition, BlobRequestOptions,
OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to populate the blob's properties and metadata.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginFetchAttributes(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginFetchAttributes(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginFetchAttributes :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object * -> ICancellableAsyncResult
```
See Also

BeginFetchAttributes Overload
CloudBlob Class

Return to top
CloudBlob..::.BeginFetchAttributes Method
(AsyncCallback, Object)(AsyncCallback^, Object^)(AsyncCallback, Object)(AsyncCallback, Object)

See Also
Begins an asynchronous operation to populate the blob's properties and metadata.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginFetchAttributes(
    AsyncCallback callback, 
    object state
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginFetchAttributes(
    AsyncCallback* callback, 
    Object* state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginFetchAttributes : 
    callback:AsyncCallback -> 
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginFetchAttributes : 
    callback:AsyncCallback -> 
    state:Object -> ICancellableAsyncResult
```

VB  

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function BeginFetchAttributes
```
See Also

BeginFetchAttributes_ Overload
CloudBlob Class

Return to top
CloudBlob:::BeginOpenRead Method

(CacheCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to open a stream for reading from the blob

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/Azure/azure-storage-net)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginOpenRead(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginOpenRead(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]
abstract BeginOpenRead :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object * -> ICancellableAsyncResult
Remarks

On the Stream object returned by the EndOpenRead method, the EndRead method must be called exactly once for every BeginRead call. Failing to end the read process before beginning another read process can cause unexpected behavior.

Note that this method always makes a call to the BeginFetchAttributes method under the covers.

Set the StreamMinimumReadSizeInBytes property before calling this method to specify the minimum number of bytes to buffer when reading from the stream. The value must be at least 16 KB.
See Also

BeginOpenRead Overload
CloudBlob Class

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See Also
Begins an asynchronous operation to open a stream for reading from the blob


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginOpenRead(
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginOpenRead(
    AsyncCallback^ callback,
    Object^ state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginOpenRead :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginOpenRead :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```

VB  

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function BeginOpenRead (  
```
Remarks

On the Stream object returned by the EndOpenRead method, the EndRead method must be called exactly once for every BeginRead call. Failing to end the read process before beginning another read process can cause unexpected behavior.

Note that this method always makes a call to the BeginFetchAttributes method under the covers.

Set the StreamMinimumReadSizeInBytes property before calling this method to specify the minimum number of bytes to buffer when reading from the stream. The value must be at least 16 KB.
See Also

BeginOpenRead_Overload
CloudBlob Class

Return to top
CloudBlob::BeginReleaseLease Method (AccessCondition, AsyncCallback, Object)
(AccessCondition^, AsyncCallback^, Object^)
(AccessCondition, AsyncCallback, Object)(AccessCondition, AsyncCallback, Object)
See Also
Begins an asynchronous operation to release the lease on this blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginReleaseLease(AccessCondition accessCondition, AsyncCallback callback, object state)

C++  
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginReleaseLease(AccessCondition^ accessCondition, AsyncCallback^ callback, Object^ state)

F#  
[<DoesServiceRequestAttribute>]
abstract BeginReleaseLease :
    accessCondition:AccessCondition *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginReleaseLease :
    accessCondition:AccessCondition *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
See Also

BeginReleaseLease Overload
CloudBlob Class

Return to top
CloudBlob::BeginReleaseLease Method

C# C++ F# VB

(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to release the lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginReleaseLease(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginReleaseLease(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginReleaseLease :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```

See Also

BeginReleaseLease Overload
CloudBlob Class

Return to top
CloudBlob..::.BeginRenewLease Method

(C::AccessCondition, AsyncCallback, Object)

(ACCESSCONDITION^, ASYNCCALLBACK^, OBJECT^)

(ACCESSCONDITION, ASYNCCALLBACK, OBJECT)(ACCESSCONDITION, ASYNCCALLBACK, OBJECT)

See Also
Begins an asynchronous operation to renew a lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginRenewLease(
    AccessCondition accessCondition,
    AsyncCallback callback,
    object state
)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginRenewLease(
    AccessCondition^ accessCondition,
    AsyncCallback^ callback,
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]
abstract BeginRenewLease :
    accessCondition:AccessCondition *
callback:AsyncCallback *
state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginRenewLease :
    accessCondition:AccessCondition *
callback:AsyncCallback *
state:Object -> ICancellableAsyncResult
See Also

BeginRenewLease_Overload
CloudBlob Class

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CloudBlob::BeginRenewLease Method

(ACCESSCONDITION, BLOBREQUESTOPTIONS, OPERATIONCONTEXT, ASYNCCALLBACK, OBJECT)

See Also
Begins an asynchronous operation to renew a lease on this blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginRenewLease(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginRenewLease(
    AccessCondition* accessCondition,
    BlobRequestOptions* options,
    OperationContext* operationContext,
    AsyncCallback* callback,
    Object* state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginRenewLease :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
See Also

BeginRenewLease_Overload
CloudBlob Class

Return to top
CloudBlob:::BeginSetMetadata Method
(ACCESSCONDITION, BLOBREQUESTOPTIONS, OPERATIONCONTEXT, ASCNCALLBACK, OBJECT)(ACCESSCONDITION^, BLOBREQUESTOPTIONS^, OPERATIONCONTEXT^, ASCNCALLBACK^, OBJECT^)(ACCESSCONDITION, BLOBREQUESTOPTIONS, OPERATIONCONTEXT, ASCNCALLBACK, OBJECT)(ACCESSCONDITION, BLOBREQUESTOPTIONS, OPERATIONCONTEXT, ASCNCALLBACK, OBJECT)
See Also
Begins an asynchronous operation to update the blob's metadata.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginSetMetadata(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginSetMetadata(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginSetMetadata :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
See Also

- BeginSetMetadata_Overload
- CloudBlob Class

Return to top
CloudBlob::BeginSetMetadata Method
(AsyncCallback, Object)(AsyncCallback^, Object^)(AsyncCallback, Object)(AsyncCallback, Object)

See Also
Begins an asynchronous operation to update the blob's metadata.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginSetMetadata(AsyncCallback callback, object state)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginSetMetadata(AsyncCallback^ callback, Object^ state)

F#

[<DoesServiceRequestAttribute>]
abstract BeginSetMetadata : callback:AsyncCallback * state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginSetMetadata : callback:AsyncCallback * state:Object -> ICancellableAsyncResult

VB

<DoesServiceRequestAttribute>
Public Overridable Function BeginSetMetadata (callback As AsyncCallback, state As Object) As ICancellableAsyncResult
See Also

BeginSetMetadata_Overload
CloudBlob Class

Return to top
CloudBlob..::.BeginSetProperties Method
(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to update the blob's properties.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginSetProperties(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
);
```

C++

```cpp
public:

[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginSetProperties(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
);
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginSetProperties :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
See Also

- BeginSetProperties Overload
- CloudBlob Class

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</table>
Begins an asynchronous operation to update the blob's properties.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]  
public virtual ICancelableAsyncResult BeginSetProperties(AsyncCallback callback, object state)
)

C++  

public:  
[DoesServiceRequestAttribute]  
virtual ICancelableAsyncResult^ BeginSetProperties(AsyncCallback^ callback, Object^ state)
)

F#  

[<DoesServiceRequestAttribute>]  
abstract BeginSetProperties :  
    callback:AsyncCallback *  
    state:Object -> ICancelableAsyncResult
[<DoesServiceRequestAttribute>]  
override BeginSetProperties :  
    callback:AsyncCallback *  
    state:Object -> ICancelableAsyncResult

VB  

<DoesServiceRequestAttribute>  
Public Overridable Function BeginSetProperties
See Also

- BeginSetProperties_Overload
- CloudBlob Class

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See Also
Begins an asynchronous operation to start copying another blob's contents, properties, and metadata to this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginStartCopy(
    Uri source,
    AccessCondition sourceAccessCondition,
    AccessCondition destAccessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++  
```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginStartCopy(
    Uri^ source,
    AccessCondition^ sourceAccessCondition,
    AccessCondition^ destAccessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#  
```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginStartCopy : 
    source:Uri * 
```
See Also

BeginCopy Overload
CloudBlob Class

Return to top
CloudBlob::BeginStartCopy Method (Uri, AsyncCallback, Object)(Uri^, AsyncCallback^, Object^)(Uri, AsyncCallback, Object)(Uri, AsyncCallback, Object)

See Also
Begins an asynchronous operation to start copying another blob's contents, properties, and metadata to this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginStartCopy(
    Uri source,
    AsyncCallback callback,
    object state
)
```

C++  

```
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginStartCopy(
    Uri* source,
    AsyncCallback* callback,
    Object* state
)
```

F#  

```
[<DoesServiceRequestAttribute>]
abstract BeginStartCopy : 
    source:Uri *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginStartCopy : 
    source:Uri *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
See Also

BeginStartCopy Overload
CloudBlob Class

Return to top
CloudBlob:::BreakLeaseAsync Method
(Nullable<TimeSpan>)(Nullable<TimeSpan>)
(Nullable<TimeSpan>)(Nullable(Of TimeSpan))
See Also
Initiates an asynchronous operation to break the current lease on this blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<TimeSpan> BreakLeaseAsync(
    Nullable<TimeSpan> breakPeriod
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<TimeSpan> BreakLeaseAsync(
    Nullable<TimeSpan> breakPeriod
)

F#  
[<DoesServiceRequestAttribute>]
abstract BreakLeaseAsync :
    breakPeriod:Nullable<TimeSpan> -> Task
[<DoesServiceRequestAttribute>]
override BreakLeaseAsync :
    breakPeriod:Nullable<TimeSpan> -> Task

VB  
<DoesServiceRequestAttribute>
Public Overridable Function BreakLeaseAsync ( 
    breakPeriod As Nullable(Of TimeSpan)
) As Task(Of TimeSpan)
See Also

BreakLeaseAsync_Overload
CloudBlob Class

Return to top
CloudBlob::BreakLeaseAsync Method
(Nullable<TimeSpan>, AccessCondition,
BlobRequestOptions, OperationContext)(Nullable<TimeSpan>,
AccessCondition^, BlobRequestOptions^, OperationContext^)
(Nullable<TimeSpan>, AccessCondition, BlobRequestOptions,
OperationContext)(Nullable(Of TimeSpan), AccessCondition,
BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to break the current lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task<TimeSpan> BreakLeaseAsync(
    Nullable<TimeSpan> breakPeriod,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<TimeSpan> BreakLeaseAsync(
    Nullable<TimeSpan> breakPeriod,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BreakLeaseAsync :
    breakPeriod:Nullable<TimeSpan> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<TimeSpan>

[<DoesServiceRequestAttribute>]
override BreakLeaseAsync :
    breakPeriod:Nullable<TimeSpan> *
```
See Also

BreakLeaseAsync_Overload
CloudBlob Class

Return to top
CloudBlob:::BreakLeaseAsync Method
(Nullable<TimeSpan>, AccessCondition,
BlobRequestOptions, OperationContext, CancellationToken)
(Nullable<TimeSpan>, AccessCondition^,
BlobRequestOptions^, OperationContext^, CancellationToken)
(Nullable<TimeSpan>, AccessCondition, BlobRequestOptions,
OperationContext, CancellationToken)(Nullable(Of TimeSpan), AccessCondition, BlobRequestOptions,
OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to break the current lease on this blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/Azure/azure-sdk-for-net/tree/master/sdk/storage/azure-storage-blob/)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task<TimeSpan> BreakLeaseAsync(
    Nullable<TimeSpan> breakPeriod,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<TimeSpan>^ BreakLeaseAsync(
    Nullable<TimeSpan>^ breakPeriod,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BreakLeaseAsync :
    breakPeriod:Nullable<TimeSpan> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken -> Task<TimeSpan>
```

```fsharp
[<DoesServiceRequestAttribute>]
override BreakLeaseAsync :
    breakPeriod:Nullable<TimeSpan> *
```
See Also

BreakLeaseAsync_Overload
CloudBlob Class

Return to top
See Also
Initiates an asynchronous operation to break the current lease on this blob.

Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<TimeSpan> BreakLeaseAsync(
    Nullable<TimeSpan> breakPeriod,
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<TimeSpan> BreakLeaseAsync(
    Nullable<TimeSpan> breakPeriod,
    CancellationToken cancellationToken
)
```

F#

```
[<DoesServiceRequestAttribute>]
abstract BreakLeaseAsync :
    breakPeriod:Nullable<TimeSpan> *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override BreakLeaseAsync :
    breakPeriod:Nullable<TimeSpan> *
    cancellationToken:CancellationToken ->
```

VB

```
<DoesServiceRequestAttribute>
Public Overridable Function BreakLeaseAsync (  
```
See Also

BreakLeaseAsync_Overload
CloudBlob Class

Return to top
CloudBlob::ChangeLeaseAsync Method (String, AccessCondition)(String^, AccessCondition^)(String, AccessCondition)(String, AccessCondition)

See Also
Initiates an asynchronous operation to change the lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<string> ChangeLeaseAsync(
    string proposedLeaseId,
    AccessCondition accessCondition
)

C++
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ ChangeLeaseAsync(
    String^ proposedLeaseId,
    AccessCondition^ accessCondition
)

F#
[<DoesServiceRequestAttribute>]
abstract ChangeLeaseAsync :
    proposedLeaseId:string *
    accessCondition:AccessCondition -> Task<string>
[<DoesServiceRequestAttribute>]
override ChangeLeaseAsync :
    proposedLeaseId:string *
    accessCondition:AccessCondition -> Task<string>

VB  
<DoesServiceRequestAttribute>
Public Overridable Function ChangeLeaseAsync (  
    proposedLeaseId As String,
    accessCondition As AccessCondition  
) As Task(Of String)
See Also

- ChangeLeaseAsync Overload
- CloudBlob Class

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See Also
Initiates an asynchronous operation to change the lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task<string> ChangeLeaseAsync(
    string proposedLeaseId,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ ChangeLeaseAsync(
    String^ proposedLeaseId,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract ChangeLeaseAsync :
    proposedLeaseId:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<string>

[<DoesServiceRequestAttribute>]
override ChangeLeaseAsync :
    proposedLeaseId:string *
```
See Also

ChangeLeaseAsync Overload
CloudBlob Class

Return to top
CloudBlob::ChangeLeaseAsync Method (String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(String^, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)(String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to change the lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task<string> ChangeLeaseAsync(
    string proposedLeaseId,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ ChangeLeaseAsync(
    string^ proposedLeaseId,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract ChangeLeaseAsync :
    proposedLeaseId:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->
    Task<string>
[<DoesServiceRequestAttribute>]
override ChangeLeaseAsync :
    proposedLeaseId:string *
See Also

- ChangeLeaseAsync Overload
- CloudBlob Class

Return to top

See Also
Initiates an asynchronous operation to change the lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task<string> ChangeLeaseAsync(
    string proposedLeaseId,
    AccessCondition accessCondition,
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ ChangeLeaseAsync(
    String^ proposedLeaseId,
    AccessCondition^ accessCondition,
    CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract ChangeLeaseAsync :
    proposedLeaseId:string *
    accessCondition:AccessCondition *
    cancellationToken:CancellationTokenToken ->

[<DoesServiceRequestAttribute>]
override ChangeLeaseAsync :
    proposedLeaseId:string *
    accessCondition:AccessCondition *
    cancellationToken:CancellationTokenToken ->

See Also

ChangeLeaseAsync_Overload
CloudBlob Class

Return to top
CloudBlob:..DeleteAsync Method (0000)

See Also
Initiates an asynchronous operation to delete the blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task DeleteAsync()

C++
public:
[DoesServiceRequestAttribute]
virtual Task^ DeleteAsync()

F#  
[<DoesServiceRequestAttribute>]
abstract DeleteAsync : unit -> Task
[<DoesServiceRequestAttribute>]
override DeleteAsync : unit -> Task

VB
<DoesServiceRequestAttribute>
Public Overridable Function DeleteAsync As Task

Return Value

Type:
System.Threading.Tasks.Task
A Task object that represents the asynchronous operation.
See Also

DeleteAsync_Overload
CloudBlob Class

Return to top
CloudBlob:::DeleteAsync Method (CancellationToken)(CancellationToken)(CancellationToken)

See Also
Initiates an asynchronous operation to delete the blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task DeleteAsync(  
    CancellationToken cancellationToken  
)

C++
public:
[DoesServiceRequestAttribute]
virtual Task^ DeleteAsync(  
    CancellationToken cancellationToken  
)

F#
[#<DoesServiceRequestAttribute>]
abstract DeleteAsync :  
    cancellationToken:CancellationToken ->
[#<DoesServiceRequestAttribute>]
override DeleteAsync :  
    cancellationToken:CancellationToken ->

VB
<DoesServiceRequestAttribute>
Public Overridable Function DeleteAsync (  
    cancellationToken As CancellationToken  
) As Task
See Also

DeleteAsync_Overload
CloudBlob Class

Return to top
CloudBlob::<..DeleteAsync Method
(DeleteSnapshotsOption, AccessCondition,
BlobRequestOptions, OperationContext)
(DeleteSnapshotsOption, AccessCondition^,
BlobRequestOptions^, OperationContext^)
(DeleteSnapshotsOption, AccessCondition,
BlobRequestOptions, OperationContext)
(DeleteSnapshotsOption, AccessCondition,
BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to delete the blob.

### Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task DeleteAsync(
    DeleteSnapshotsOption deleteSnapshotsOption,
    AccessCondition accessCondition,
    BlobRequestOptions options, 
    OperationContext operationContext
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ DeleteAsync(
    DeleteSnapshotsOption^ deleteSnapshotsOption,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options, 
    OperationContext^ operationContext
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract DeleteAsync :
    deleteSnapshotsOption:DeleteSnapshotsOption *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task

[<DoesServiceRequestAttribute>]
override DeleteAsync :
    deleteSnapshotsOption:DeleteSnapshotsOption *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task
```
See Also

DeleteAsync_Overload
CloudBlob Class

Return to top
CloudBlob::DeleteAsync Method
(DeleteSnapshotsOption, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(DeleteSnapshotsOption, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)
(DeleteSnapshotsOption, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(DeleteSnapshotsOption, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to delete the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task DeleteAsync(
    DeleteSnapshotsOption deleteSnapshotsOption,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++

```cpp
public:

[DoesServiceRequestAttribute]
virtual Task^ DeleteAsync(
    DeleteSnapshotsOption^ deleteSnapshotsOption,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract DeleteAsync :
    deleteSnapshotsOption:DeleteSnapshotsOption *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken -> Task
```
See Also

DeleteAsync_Overload
CloudBlob Class

Return to top
CloudBlob:::DeleteIfExistsAsync Method (0000)

See Also
Initiates an asynchronous operation to delete the blob if it already exists.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<bool> DeleteIfExistsAsync()
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<bool> ^ DeleteIfExistsAsync()
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract DeleteIfExistsAsync : unit -> Task<bool>
[<DoesServiceRequestAttribute>]
override DeleteIfExistsAsync : unit -> Task<bool>
```

VB

```vb
<DoesServiceRequestAttribute>
Public Overridable Function DeleteIfExistsAsync
```

Return Value

Type:

```csharp
System.Threading.Tasks.Task<bool>
```

A Task<TResult>(Of TResult) object of type bool that represents the asynchronous operation.
See Also

DeleteIfExistsAsync Overload
CloudBlob Class

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| CloudBlob::<...DeleteIfExistsAsync Method(CancellationToken)(CancellationToken)(CancellationToken) | See Also | C# | C++ | F# | VB |
Initiates an asynchronous operation to delete the blob if it already exists.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<bool> DeleteIfExistsAsync(
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<bool>^ DeleteIfExistsAsync(
    CancellationToken cancellationToken
)

F#  
[<DoesServiceRequestAttribute>]  
abstract DeleteIfExistsAsync : 
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override DeleteIfExistsAsync : 
    cancellationToken:CancellationToken ->

VB

<DoesServiceRequestAttribute>
Public Overridable Function DeleteIfExistsAsync
    cancellationToken As CancellationToken
) As Task(Of Boolean)
See Also

DeleteIfExistsAsync Overload
CloudBlob Class

Return to top
CloudBlob.:::DeleteIfExistsAsync Method
(DeleteSnapshotsOption, AccessCondition, BlobRequestOptions, OperationContext)
(DeleteSnapshotsOption, AccessCondition^, BlobRequestOptions^, OperationContext^)
(DeleteSnapshotsOption, AccessCondition, BlobRequestOptions, OperationContext)
(DeleteSnapshotsOption, AccessCondition, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to delete the blob if it already exists.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<bool> DeleteIfExistsAsync(
    DeleteSnapshotsOption deleteSnapshotsOption,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task<bool>^ DeleteIfExistsAsync(
    DeleteSnapshotsOption^ deleteSnapshotsOption,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#  
[<DoesServiceRequestAttribute>]
abstract DeleteIfExistsAsync :
    deleteSnapshotsOption:DeleteSnapshotsOption *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<bool>

[<DoesServiceRequestAttribute>]
override DeleteIfExistsAsync :
    deleteSnapshotsOption:DeleteSnapshotsOption *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<bool>
See Also

DeleteIfExistsAsync_Overload
CloudBlob Class

Return to top
CloudBlob..::.DeleteIfExistsAsync Method (DeleteSnapshotsOption, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(DeleteSnapshotsOption, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)
(DeleteSnapshotsOption, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(DeleteSnapshotsOption, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to delete the blob if it already exists.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://aka.ms/StorageBlob)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<bool> DeleteIfExistsAsync(
    DeleteSnapshotsOption deleteSnapshotsOption,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<bool>^ DeleteIfExistsAsync(
    DeleteSnapshotsOption^ deleteSnapshotsOption,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract DeleteIfExistsAsync :
    deleteSnapshotsOption:DeleteSnapshotsOption *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken *
```
See Also

DeleteIfExistsAsync_ Overload
CloudBlob Class

Return to top
CloudBlob::DownloadRangeToByteArrayAsync

See Also
Initiates an asynchronous operation to download a range of bytes from a blob to a byte array.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```c#
[DoesServiceRequestAttribute]
public virtual Task<int> DownloadRangeToByteArrayAsync(
    byte[] target,
    int index,
    Nullable<long> blobOffset,
    Nullable<long> length
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<int>^ DownloadRangeToByteArrayAsync(
    array<unsigned char>^ target,
    int index,
    Nullable<long> blobOffset,
    Nullable<long> length
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadRangeToByteArrayAsync :
    target:byte[] *
    index:int *
    blobOffset:Nullable<int64> *
    length:Nullable<int64> -> Task<int>

[<DoesServiceRequestAttribute>]
override DownloadRangeToByteArrayAsync :
    target:byte[] *
```
See Also

DownloadRangeToByteArrayAsync Overload
CloudBlob Class

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CloudBlob::DownloadRangeToByteArrayAsync Method (Byte[], Int32, Nullable<Int64>, Nullable<Int64>, AccessCondition, BlobRequestOptions, OperationContext)(array<Byte>^, Int32, Nullable<Int64>, Nullable<Int64>, AccessCondition^, BlobRequestOptions^, OperationContext^)(Byte[], Int32, Nullable<Int64>, Nullable<Int64>, AccessCondition, BlobRequestOptions, OperationContext)(Byte(), Int32, Nullable(Of Int64), Nullable(Of Int64), AccessCondition, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to download a range of bytes from a blob to a byte array.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<int> DownloadRangeToByteArrayAsync(
    byte[] target,
    int index,
    Nullable<long> blobOffset,
    Nullable<long> length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<int>^ DownloadRangeToByteArrayAsync(
    array<unsigned char>^ target,
    int index,
    Nullable<long long> blobOffset,
    Nullable<long long> length,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadRangeToByteArrayAsync : target:byte[] *
CloudBlob..DownloadRangeToByteArrayAsync (Byte[], Int32, Nullable<Int64>, Nullable<Int64>, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to download a range of bytes from a blob to a byte array.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<int> DownloadRangeToByteArrayAsync(
    byte[] target,
    int index,
    Nullable<long> blobOffset,
    Nullable<long> length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken)
```

C++  

```cpp
public:

[DoesServiceRequestAttribute]
virtual Task<int>^ DownloadRangeToByteArrayAsync(
    array<unsigned char>^ target,
    int index,
    Nullable<long long> blobOffset,
    Nullable<long long> length,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
```
See Also

DownloadRangeToByteArrayAsync Overload
CloudBlob Class

Return to top
CloudBlob..::.DownloadRangeToByteArrayAsync Method (Byte[], Int32, Nullable<Int64>, Nullable<Int64>, CancellationToken)(array<Byte>^, Int32, Nullable<Int64>, Nullable<Int64>, CancellationToken)(Byte[], Int32, Nullable<Int64>, Nullable<Int64>, CancellationToken)(Byte(), Int32, Nullable(Of Int64), Nullable(Of Int64), CancellationToken)

See Also
Initiates an asynchronous operation to download a range of bytes from a blob to a byte array.


C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task<int> DownloadRangeToByteArrayAsync(
    byte[] target,
    int index,
    Nullable<long> blobOffset,
    Nullable<long> length,
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<int> ^ DownloadRangeToByteArrayAsync(
    array<unsigned char>^ target,
    int index,
    Nullable<long long> blobOffset,
    Nullable<long long> length,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadRangeToByteArrayAsync :
    target:byte[] *
    index:int *
    blobOffset:Nullable<int64> *
    length:Nullable<int64> *
    cancellationToken:CancellationToken
```
See Also

DownloadRangeToByteArrayAsync Overload
CloudBlob Class

Return to top
CloudBlob.:..DownloadRangeToStreamAsync

Method (Stream, Nullable<Int64>, Nullable<Int64>)(Stream^, Nullable<Int64>, Nullable<Int64>)(Stream, Nullable<Int64>, Nullable<Int64>)(Stream, Nullable(Of Int64), Nullable(Of Int64))

See Also
Initiates an asynchronous operation to download a range of bytes from a blob to a stream.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task DownloadRangeToStreamAsync(
    Stream target,
    Nullable<long> offset,
    Nullable<long> length
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ DownloadRangeToStreamAsync(
    Stream^ target,
    Nullable<long long> offset,
    Nullable<long long> length
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadRangeToStreamAsync : target:Stream *
    offset:Nullable<int64> *
    length:Nullable<int64> -> Task
[<DoesServiceRequestAttribute>]
override DownloadRangeToStreamAsync : target:Stream *
    offset:Nullable<int64> *
    length:Nullable<int64> -> Task
```
See Also

DownloadRangeToStreamAsync _ Overload
CloudBlob Class

Return to top
CloudBlob::DownloadRangeToStreamAsync

Method (Stream, Nullable<int64>,
Nullable<int64>, AccessCondition, BlobRequestOptions,
OperationContext)(Stream^, Nullable<int64>,
Nullable<int64>, AccessCondition^, BlobRequestOptions^,
OperationContext^)(Stream, Nullable<int64>,
Nullable<int64>, AccessCondition, BlobRequestOptions,
OperationContext)(Stream, Nullable(Of Int64), Nullable(Of Int64), AccessCondition, BlobRequestOptions,
OperationContext)

See Also
Initiates an asynchronous operation to download a range of bytes from a blob to a stream.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task DownloadRangeToStreamAsync(
    Stream target,
    Nullable<long> offset,
    Nullable<long> length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

**C++**

```csharp
public:
[DoesServiceRequestAttribute]
virtual Task^ DownloadRangeToStreamAsync(
    Stream^ target,
    Nullable<long long> offset,
    Nullable<long long> length,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadRangeToStreamAsync :
    target:Stream *
    offset:Nullable<int64> *
    length:Nullable<int64> *
```
See Also

DownloadRangeToStreamAsync Overload
CloudBlob Class

Return to top
See Also
Initiates an asynchronous operation to download a range of bytes from a blob to a stream.

Syntax

C#

```
[DoesServiceRequestAttribute]
public virtual Task DownloadRangeToStreamAsync(
    Stream target,
    Nullable<long> offset,
    Nullable<long> length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken)
```

C++

```
public:
[DoesServiceRequestAttribute]
virtual Task^ DownloadRangeToStreamAsync(
    Stream^ target,
    Nullable<long long> offset,
    Nullable<long long> length,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken)
```

F#

```
[<DoesServiceRequestAttribute>]
abstract DownloadRangeToStreamAsync : 
    target:Stream * 
    offset:Nullable<int64> * 
    length:Nullable<int64> * 
    accessCondition:AccessCondition * 
    options:BlobRequestOptions * 
    operationContext:OperationContext * 
    cancellationToken:CancellationToken -> unit
```
See Also

DownloadRangeToStreamAsync_Overload
CloudBlob Class

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CloudBlob::DownloadRangeToStreamAsync Method (Stream, Nullable<Int64>, Nullable<Int64>, CancellationToken)(Stream^, Nullable<Int64>, Nullable<Int64>, CancellationToken)(Stream, Nullable<Int64>, Nullable<Int64>, CancellationToken)(Stream, Nullable(Of Int64), Nullable(Of Int64), CancellationToken)

See Also
Initiates an asynchronous operation to download a range of bytes from a blob to a stream.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

#### C#
```csharp
[DoesServiceRequestAttribute]
public virtual Task DownloadRangeToStreamAsync(
    Stream target,
    Nullable<long> offset,
    Nullable<long> length,
    CancellationToken cancellationToken)
```

#### C++
```cpp
public:
    [DoesServiceRequestAttribute]
virtual Task^ DownloadRangeToStreamAsync(
    Stream^ target,
    Nullable<long> offset,
    Nullable<long> length,
    CancellationToken cancellationToken)
```

#### F#
```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadRangeToStreamAsync :
    target:Stream *
    offset:Nullable<int64> *
    length:Nullable<int64> *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override DownloadRangeToStreamAsync :
    target:Stream *
```
See Also

DownloadRangeToStreamAsync Overload
CloudBlob Class

Return to top
**CloudBlob::DownloadToByteArrayAsync Method**  
(C#) (C++) (F#) (VB)

[Byte[], Int32] (array<Byte>^, Int32) (Byte[], Int32) (Byte(), Int32)

[See Also](#)
Initiates an asynchronous operation to download the contents of a blob to a byte array.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
[DoesServiceRequestAttribute]
public virtual Task<int> DownloadToByteArrayAsync(
    byte[] target,
    int index
)
```

C++  
```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<int> DownloadToByteArrayAsync(
    array<unsigned char> target,
    int index
)
```

F#  
```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadToByteArrayAsync :
    target:byte[] *
    index:int -> Task<int>
[<DoesServiceRequestAttribute>]
override DownloadToByteArrayAsync :
    target:byte[] *
    index:int -> Task<int>
```

VB  
```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function DownloadToByteArrayAsync(
    target As Byte(),
    index As Integer)
As Task(Of Integer)
```
See Also

- DownloadToByteArrayAsync_Overload
- CloudBlob Class

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CloudBlob::DownloadToByteArrayAsync Method

C# C++ F# VB
(Byte[], Int32, AccessCondition,
BlobRequestOptions, OperationContext)(array<Byte>^, Int32,
AccessCondition^, BlobRequestOptions^, OperationContext^)
(Byte[], Int32, AccessCondition, BlobRequestOptions,
OperationContext)(Byte(), Int32, AccessCondition,
BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to download the contents of a blob to a byte array.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<int> DownloadToByteArrayAsync(  
byte[] target,  
int index,  
AccessCondition accessCondition,  
BlobRequestOptions options,  
OperationContext operationContext
)

C++  
public:  
[DoesServiceRequestAttribute]  
virtual Task<int>^ DownloadToByteArrayAsync(  
array<unsigned char>^ target,  
int index,  
AccessCondition^ accessCondition,  
BlobRequestOptions^ options,  
OperationContext^ operationContext
)

F#  
[<DoesServiceRequestAttribute>]  
abstract DownloadToByteArrayAsync :  
target:byte[] * 
index:int * 
accessCondition:AccessCondition * 
options:BlobRequestOptions * 
operationContext:OperationContext *
See Also

DownloadToByteArrayAsync_Overload
CloudBlob Class

Return to top
See Also
Initiates an asynchronous operation to download the contents of a blob to a byte array.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<int> DownloadToByteArrayAsync(
    byte[] target,
    int index,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<int>^ DownloadToByteArrayAsync(
    array<unsigned char>^ target,
    int index,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadToByteArrayAsync :
    target:byte[] *
    index:int *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken * -> Task<int>
```
See Also

DownloadToByteArrayAsync_Overload
CloudBlob Class

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CloudBlob::DownloadToByteArrayAsync Method

C#  C++  F#  VB
(Byte[],  Int32,  CancellationToken)(array<Byte>^,
Int32,  CancellationToken)(Byte[],  Int32,  CancellationToken)
(Byte(),  Int32,  CancellationToken)

See Also
Initiates an asynchronous operation to download the contents of a blob to a byte array.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]  
public virtual Task<int> DownloadToByteArrayAsync(
    byte[] target,
    int index,
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<int>^ DownloadToByteArrayAsync(
    array<unsigned char>^ target,
    int index,
    CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract DownloadToByteArrayAsync :
    target:byte[] *
    index:int *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override DownloadToByteArrayAsync :
    target:byte[] *
    index:int *
    cancellationToken:CancellationToken ->
See Also

DownloadToByteArrayAsync_Overload
CloudBlob Class

Return to top
CloudBlob.DownloadToFileAsync Method (String, FileMode)(String^, FileMode)(String, FileMode)(String, FileMode)

See Also
Initiates an asynchronous operation to download the contents of a blob to a file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task DownloadToFileAsync(
    string path,
    FileMode mode
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task^ DownloadToFileAsync(
    String^ path,
    FileMode mode
)

F#  
[<DoesServiceRequestAttribute>]
abstract DownloadToFileAsync :
    path:string *
    mode:FileMode -> Task
[<DoesServiceRequestAttribute>]
override DownloadToFileAsync :
    path:string *
    mode:FileMode -> Task

VB  
<DoesServiceRequestAttribute>
Public Overridable Function DownloadToFileAsync
    path As String,
    mode As FileMode
    As Task
See Also

DownloadToFileAsync Overload
CloudBlob Class

Return to top
CloudBlob..DownloadToFileAsync Method

C#:
```
 public static Task DownloadToFileAsync(string containerName, string blobName, string localFile, FileMode mode, FileAccess access, BlobRequestOptions options, OperationContext context);
```

C++:
```
 Azure::Storage::CloudBlobBlobBlockBlob::DownloadToFileAsync(std::wstring containerName, std::wstring blobName, std::wstring localFile, std::shared_ptr<Azure::Storage::FileMode> mode, std::shared_ptr<Azure::Storage::FileAccess> access, std::shared_ptr<Azure::Storage::BlobRequestOptions> options, Azure::Core::OperationContext operationContext);
```

F#:
```
 let azurestoragecloudblobblockblobdownloadtofileasync containerName blobName localFile mode access options operationContext =
```

VB:
```
 Public Shared Function DownloadToFileAsync(containerName As String, blobName As String, localFile As String, FileMode mode, FileAccess access, BlobRequestOptions options, OperationContext context) As Task
```

See Also
Initiates an asynchronous operation to download the contents of a blob to a file.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task DownloadToFileAsync(
    string path,
    FileMode mode,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task^ DownloadToFileAsync(
    String^ path,
    FileMode mode,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#  

[<DoesServiceRequestAttribute>]
abstract DownloadToFileAsync :
    path:string *
    mode:FileMode *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
See Also

DownloadToFileAsync_Overload
CloudBlob Class

Return to top
CloudBlob::DownloadToFileAsync Method (String, FileMode, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(String^, FileMode, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)(String, FileMode, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(String, FileMode, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to download the contents of a blob to a file.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task DownloadToFileAsync(
    string path,
    FileMode mode,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task DownloadToFileAsync(
    String^ path,
    FileMode mode,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadToFileAsync :
    path:string *
    mode:FileMode *
    accessCondition:AccessCondition *
```

See Also

DownloadToFileAsync Overload
CloudBlob Class

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CloudBlob::DownloadToFileAsync Method

C#++F#VB

(String, FileMode, CancellationToken)(String^,
FileMode, CancellationToken)(String, FileMode,
CancellationToken)(String, FileMode, CancellationToken)

See Also
Initiates an asynchronous operation to download the contents of a blob to a file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task DownloadToFileAsync(
    string path,
    FileMode mode,
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ DownloadToFileAsync(
    String^ path,
    FileMode mode,
    CancellationToken cancellationToken
)

F#  

[<DoesServiceRequestAttribute>]
abstract DownloadToFileAsync :
    path:string *
    mode:FileMode *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override DownloadToFileAsync :
    path:string *
    mode:FileMode *
    cancellationToken:CancellationToken ->
See Also

- DownloadToFileAsync_Overload
- CloudBlob Class

Return to top
CloudBlob::DownloadToStreamAsync Method (Stream)(Stream^)(Stream)(Stream)

See Also
Initiates an asynchronous operation to download the contents of a blob to a stream.


Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task DownloadToStreamAsync(
    Stream target
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ DownloadToStreamAsync(
    Stream^ target
)

F#

[<DoesServiceRequestAttribute>]
abstract DownloadToStreamAsync :
    target:Stream -> Task
[<DoesServiceRequestAttribute>]
override DownloadToStreamAsync :
    target:Stream -> Task

VB

<DoesServiceRequestAttribute>
Public Overridable Function DownloadToStreamAs
    target As Stream
) As Task
See Also

DownloadToStreamAsync Overload
CloudBlob Class

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CloudBlob::DownloadToStreamAsync Method


See Also
Initiates an asynchronous operation to download the contents of a blob to a stream.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task DownloadToStreamAsync(
    Stream target,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task^ DownloadToStreamAsync(
    Stream^ target,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#  
[<DoesServiceRequestAttribute>]
abstract DownloadToStreamAsync : 
    target:Stream *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task

[<DoesServiceRequestAttribute>]
override DownloadToStreamAsync : 
    target:Stream *
See Also

DownloadToStreamAsync_Overload
CloudBlob Class

Return to top
CloudBlob::DownloadToStreamAsync Method
(Stream, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(Stream^, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)
(See Also)
Initiates an asynchronous operation to download the contents of a blob to a stream.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob

**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task DownloadToStreamAsync(
    Stream target,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++

public:

[DoesServiceRequestAttribute]
virtual Task^ DownloadToStreamAsync(
    Stream^ target,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract DownloadToStreamAsync :
    target:Stream *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken *
See Also

DownloadToStreamAsync_ Overload
CloudBlob Class

Return to top
CloudBlob..::.DownloadToStreamAsync Method
(Stream, CancellationToken)(Stream^,
CancellationToken)(Stream, CancellationToken)(Stream,
CancellationToken)

See Also
Initiates an asynchronous operation to download the contents of a blob to a stream.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task DownloadToStreamAsync(
    Stream target,
    CancellationToken cancellationToken
)

C++
public:
[DoesServiceRequestAttribute]
virtual Task^ DownloadToStreamAsync(
    Stream^ target,
    CancellationToken cancellationToken
)

F#
[<DoesServiceRequestAttribute>]
abstract DownloadToStreamAsync :
    target:Stream *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override DownloadToStreamAsync :
    target:Stream *
    cancellationToken:CancellationToken ->

VB
<DoesServiceRequestAttribute>
Public Overridable Function DownloadToStreamAsync As


See Also

DownloadToStreamAsync Overload
CloudBlob Class

Return to top
CloudBlob::..EndAbortCopy Method
(IAsyncResult)(IAsyncResult^)(IAsyncResult)
(IAsyncResult)

See Also
Ends an asynchronous operation to abort an ongoing blob copy operation.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public virtual void EndAbortCopy(
    IAsyncResult asyncResult
)
```

C++

```cpp
public:
    virtual void EndAbortCopy(
        IAsyncResult^ asyncResult
    )
```

F#

```fsharp
abstract EndAbortCopy : 
    asyncResult:IAsyncResult -> unit
override EndAbortCopy : 
    asyncResult:IAsyncResult -> unit
```

VB

```vbnet
Public Overridable Sub EndAbortCopy ( 
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`

Type:

- `System.IAsyncResult`
- `System::IAsyncResult^`
See Also

CloudBlob Class

Return to top
CloudBlob::..EndAcquireLease Method
(IAasyncResult)(IAasyncResult^)(IAasyncResult)
(IAasyncResult)

See Also
Ends an asynchronous operation to acquire a lease on this blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/Microsoft/WindowsAzureStorageDotNetSDK)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public virtual string EndAcquireLease( 
    IAsyncResult asyncResult
)
```

C++  
```cpp
public:
    virtual String^ EndAcquireLease( 
    IAsyncResult^ asyncResult
)
```

F#  
```fsharp
abstract EndAcquireLease :
    asyncResult:IAsyncResult -> string
```
```fsharp
override EndAcquireLease :
    asyncResult:IAsyncResult -> string
```

VB  
```vbnet
Public Overridable Function EndAcquireLease ( 
    asyncResult As IAsyncResult
) As String
```

Parameters

`asyncResult`  
Type:  
`System.IAsyncResult`
See Also

CloudBlob Class

Return to top
CloudBlob.EndBreakLease Method

(IAasyncResult)(IAasyncResult^)(IAasyncResult)

See Also
Ends an asynchronous operation to break the current lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```
public virtual TimeSpan EndBreakLease(
    IAsyncResult asyncResult
)
```

C++
```
public:
virtual TimeSpan EndBreakLease(
    IAsyncResult* asyncResult
)
```

F#
```
abstract EndBreakLease :
    asyncResult:IAsyncResult -> TimeSpan
override EndBreakLease :
    asyncResult:IAsyncResult -> TimeSpan
```

VB
```
Public Overridable Function EndBreakLease (  
    asyncResult As IAsyncResult
) As TimeSpan
```

Parameters

`asyncResult`
Type:  
`System.IAsyncResult`
See Also

CloudBlob Class

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Ends an asynchronous operation to change the lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public virtual string EndChangeLease(
    IAsyncResult asyncResult
)
```

C++

```cpp
public:
virtual String^ EndChangeLease(
    IAsyncResult^ asyncResult
)
```

F#

```fsharp
abstract EndChangeLease :
    asyncResult:IAsyncResult -> string
override EndChangeLease :
    asyncResult:IAsyncResult -> string
```

VB

```vb
Public Overridable Function EndChangeLease (  
    asyncResult As IAsyncResult
) As String
```

Parameters

*asyncResult*

Type:

[System::IAsyncResult][1] System::IAsyncResult

[1]: System::IAsyncResult
See Also

CloudBlob Class

Return to top
CloudBlob::EndDelete Method (IAsyncResult)(IAsyncResult^)(IAsyncResult)(IAsyncResult)

See Also
Ends an asynchronous operation to delete the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public virtual void EndDelete(
    IAsyncResult asyncResult
)
```

C++  

```cpp
public:
    virtual void EndDelete(
        IAsyncResult^ asyncResult
    )
```

F#  

```fsharp
abstract EndDelete :
    asyncResult:IAsyncResult -> unit
override EndDelete :
    asyncResult:IAsyncResult -> unit
```

VB  

```vb
Public Overridable Sub EndDelete (  
    asyncResult As IAsyncResult
)
```

Parameters

- `asyncResult`  
  Type:  
  System.IAsyncResultSystem::IAsyncResult^System.IAsyncResultSystem::IAsyncResult
See Also

CloudBlob Class

Return to top
CloudBlob::EndDeleteIfExists Method (IAsyncResult)(IAsyncResult^)(IAsyncResult)
See Also
Returns the result of an asynchronous request to delete the blob if it already exists.

Syntax

C#

```csharp
public virtual bool EndDeleteIfExists(
    IAsyncResult asyncResult
)
```

C++

```cpp
public:
virtual bool EndDeleteIfExists(
    IAsyncResult^ asyncResult
)
```

F#

```fsharp
abstract EndDeleteIfExists : 
    asyncResult:IAsyncResult -> bool
override EndDeleteIfExists : 
    asyncResult:IAsyncResult -> bool
```

VB

```vb
Public Overridable Function EndDeleteIfExists(
    asyncResult As IAsyncResult
) As Boolean
```

Parameters

`asyncResult`

Type: `System.IAsyncResult`
See Also

CloudBlob Class

Return to top
CloudBlob::<...EndDownloadRangeToByteArray (IAsyncResult)(IAsyncResult^)
See Also
Ends an asynchronous operation to download a range of bytes from a blob to a byte array.

dl)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**
```csharp
public virtual int EndDownloadRangeToByteArray(IAsyncResult asyncResult)
```

**C++**
```cpp
public:
virtual int EndDownloadRangeToByteArray(IAsyncResult^ asyncResult)
```

**F#**
```fsharp
abstract EndDownloadRangeToByteArrray :
    asyncResult:IAsyncResult -> int
override EndDownloadRangeToByteArrray :
    asyncResult:IAsyncResult -> int
```

**VB**
```vbnet
Public Overridable Function EndDownloadRangeToByteArrray(asyncResult As IAsyncResult)
    As Integer
```

### Parameters

*asyncResult*  
Type: [System.IAsyncResult](https://docs.microsoft.com/en-us/dotnet/api/system.iasyncresult)
See Also

CloudBlob Class

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CloudBlob..:..EndDownloadRangeToStream Method

C# C++ F# VB
(IAasyncResult)(IAasyncResult^)(IAasyncResult)
(IAasyncResult)

See Also
Ends an asynchronous operation to download a range of bytes from a blob to a stream.

Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
public virtual void EndDownloadRangeToStream(
    IAsyncResult asyncResult
)
```

**C++**

```cpp
public:
    virtual void EndDownloadRangeToStream(
        IAsyncResult^ asyncResult
    )
```

**F#**

```fsharp
abstract EndDownloadRangeToStream :
    asyncResult:IAasyncResult -> unit

override EndDownloadRangeToStream :
    asyncResult:IAasyncResult -> unit
```

**VB**

```vb
Public Overridable Sub EndDownloadRangeToStream(
    asyncResult As IAsyncResult
)
```

**Parameters**

`asyncResult`

*Type:*

```csharp
System.IAsyncResult
```

```cpp
System::IAsyncResult
```
See Also

CloudBlob Class

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</table>
Ends an asynchronous operation to download the contents of a blob to a byte array.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public virtual int EndDownloadToByteArray(  
    IAsyncResult asyncResult
)
```

C++  

```cpp
public:  
virtual int EndDownloadToByteArray(  
    IAsyncResult^ asyncResult
)
```

F#  

```fsharp
abstract EndDownloadToByteArray :  
    asyncResult:IAsyncResult -> int
override EndDownloadToByteArray :  
    asyncResult:IAsyncResult -> int
```

VB  

```vb
Public Overridable Function EndDownloadToByteArray(  
    asyncResult As IAsyncResult
) As Integer
```

Parameters

`asyncResult`  
Type:  
`System.IAsyncResult`

`System::IAsyncResult`

`System.IAsyncResult^`
See Also

CloudBlob Class

Return to top
CloudBlob:::EndDownloadToFile Method
(IAasyncResult)(IAasyncResult^)(IAasyncResult)
(IAasyncResult)

See Also
Ends an asynchronous operation to download the contents of a blob to a file.

Syntax

C#

```csharp
public virtual void EndDownloadToFile(
    IAsyncResult asyncResult
)
```

C++

```cpp
public:
virtual void EndDownloadToFile(
    IAsyncResult^ asyncResult
)
```

F#

```fsharp
abstract EndDownloadToFile :
    asyncResult:IAsyncResult -> unit
override EndDownloadToFile :
    asyncResult:IAsyncResult -> unit
```

VB

```vbnet
Public Overridable Sub EndDownloadToFile (  
    asyncResult As IAsyncResult
)
```

Parameters

asyncResult

Type:
System.IAsyncResultSystem::IAsyncResult^System.IAsyncResultSystem::IAsyncResult
See Also

CloudBlob Class

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See Also
Ends an asynchronous operation to download the contents of a blob to a stream.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public virtual void EndDownloadToStream(
    IAsyncResult asyncResult
)
```

C++

```cpp
public:
    virtual void EndDownloadToStream(
    IAsyncResult^ asyncResult
)
```

F#

```fsharp
abstract EndDownloadToStream :
    asyncResult:IAsyncResult -> unit

override EndDownloadToStream :
    asyncResult:IAsyncResult -> unit
```

VB

```vb
Public Overridable Sub EndDownloadToStream ( 
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`
Type: System.IAsyncResult

System.IAsyncResultSystem::IAsyncResult^System.IAsyncResultSystem::IAsyncResultSystem::IAsyncResult
See Also

CloudBlob Class

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See Also
Returns the asynchronous result of the request to check existence of the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public virtual bool EndExists(
    IAsyncResult asyncResult
)
```

C++

```cpp
public:
virtual bool EndExists(
    IAsyncResult^ asyncResult
)
```

F#

```fsharp
abstract EndExists :
    asyncResult:IAsyncResult -> bool
override EndExists :
    asyncResult:IAsyncResult -> bool
```

VB

```vbnet
Public Overridable Function EndExists ( 
    asyncResult As IAsyncResult 
) As Boolean
```

Parameters

- `asyncResult` Type: `System.IAsyncResult` or `System::IAsyncResult` or `System.IAsyncResult^`
See Also

CloudBlob Class

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See Also
Ends an asynchronous operation to populate the blob's properties and metadata.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

**C#**

```csharp
public virtual void EndFetchAttributes(
    IAsyncResult asyncResult
)
```

**C++**

```cpp
public:
    virtual void EndFetchAttributes(
        IAsyncResult^ asyncResult
    )
```

**F#**

```fsharp
abstract EndFetchAttributes :
    asyncResult:IAsyncResult -> unit
override EndFetchAttributes :
    asyncResult:IAsyncResult -> unit
```

**VB**

```vb
Public Overridable Sub EndFetchAttributes ( 
    asyncResult As IAsyncResult
)
```

### Parameters

**asyncResult**

- **Type:** `System.IAsyncResult` or `System::IAsyncResult` or `System::IAsyncResult^` or `System.IAsyncResult`

- An IAsyncResult that references the pending asynchronous operation.
See Also

CloudBlob Class

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CloudBlob:::EndOpenRead Method (IAsyncResult) [C# C++ F# VB]
(IAasyncResult^)(IAasyncResult)(IAasyncResult)
See Also
Ends an asynchronous operation to open a stream for reading from the blob.

Syntax

C#

```csharp
public virtual Stream EndOpenRead(IAsyncResult asyncResult)
```

C++

```cpp
public:
virtual Stream^ EndOpenRead(IAsyncResult^ asyncResult)
```

F#

```fsharp
abstract EndOpenRead : asyncResult:IAsyncResult -> Stream
override EndOpenRead : asyncResult:IAsyncResult -> Stream
```

VB

```vbnet
Public Overridable Function EndOpenRead (asyncResult As IAsyncResult) As Stream
```

Parameters

`asyncResult`

Type:

- `System.IAsyncResult`
- `System::IAsyncResult`
- `System.IAsyncResult^`
Remarks

On the Stream object returned by this method, the EndRead method must be called exactly once for every BeginRead call. Failing to end the read process before beginning another read process can cause unexpected behavior.
See Also

CloudBlob Class

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**See Also**
Ends an asynchronous operation to release the lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
public virtual void EndReleaseLease(
    IAsyncResult asyncResult
)
```

**C++**

```cpp
public:
virtual void EndReleaseLease(
    IAsyncResult^ asyncResult
)
```

**F#**

```fsharp
abstract EndReleaseLease :
    asyncResult:IAsyncResult -> unit
override EndReleaseLease :
    asyncResult:IAsyncResult -> unit
```

**VB**

```vbnet
Public Overridable Sub EndReleaseLease (asyncResult As IAsyncResult)
```

### Parameters

**asyncResult**

Type:

- `System.IAsyncResult`
- `System::IAsyncResult`
- `System.IAsyncResult`
See Also

CloudBlob Class

Return to top
CloudBlob:::..EndRenewLease Method (IAsyncResult)(IAsyncResult^)(IAsyncResult) (IAsyncResult)

See Also
Ends an asynchronous operation to renew a lease on this blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
public virtual void EndRenewLease(
    IAsyncResult asyncResult
)
```

**C++**

```cpp
public:
    virtual void EndRenewLease(
        IAsyncResult^ asyncResult
    )
```

**F#**

```fsharp
abstract EndRenewLease :
    asyncResult:IAsyncResult -> unit

override EndRenewLease :
    asyncResult:IAsyncResult -> unit
```

**VB**

```vb
Public Overridable Sub EndRenewLease (  
    asyncResult As IAsyncResult  
)
```

### Parameters

*asyncResult*

Type: 

`System.IAsyncResult` | `System::IAsyncResult` | `System.IAsyncResult^`
See Also

CloudBlob Class

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Ends an asynchronous operation to update the blob's metadata.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#
```csharp
public virtual void EndSetMetadata(
    IAsyncResult asyncResult
)
```

C++
```cpp
public:
virtual void EndSetMetadata(
    IAsyncResult^ asyncResult
)
```

F#
```fsharp
abstract EndSetMetadata :
    asyncResult:IAsyncResult -> unit
override EndSetMetadata :
    asyncResult:IAsyncResult -> unit
```

VB
```vbnet
Public Overridable Sub EndSetMetadata (  
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`  
Type:  
`System.IAsyncResult`
See Also

CloudBlob Class

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See Also
Ends an asynchronous operation to update the blob's properties.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public virtual void EndSetProperties(
    IAsyncResult asyncResult
)
```

C++  
```cpp
public:
    virtual void EndSetProperties(
    IAsyncResult^ asyncResult
)
```

F#  
```fsharp
abstract EndSetProperties :
    asyncResult:IAasyncResult -> unit
override EndSetProperties :
    asyncResult:IAasyncResult -> unit
```

VB  
```vb
Public Overridable Sub EndSetProperties (  
    asyncResult As IAsyncResult
)
```

Parameters

asyncResult  
Type:  
```csharp
System.IAsyncResult
```

```cpp
System::IAsyncResult
```

```fsharp
System.IAsyncResult
```

```vb
System.IAsyncResult
```
See Also

CloudBlob Class

Return to top
EndSnapshot Method (IAsyncResult)

See Also
Ends an asynchronous operation to create a snapshot of the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public virtual CloudBlob EndSnapshot(
    IAsyncResult asyncResult
)
```

C++  
```cpp
public:
    virtual CloudBlob^ EndSnapshot(
        IAsyncResult^ asyncResult
    )
```

F#  
```fsharp
abstract EndSnapshot :
    asyncResult:IAsyncResult -> CloudBlob
override EndSnapshot :
    asyncResult:IAsyncResult -> CloudBlob
```

VB  
```vbnet
Public Overridable Function EndSnapshot (    asyncResult As IAsyncResult
) As CloudBlob
```

Parameters

`asyncResult`
Type:  
`System.IAsyncResultSystem::IAsyncResult^System.IAsyncResultSystem.IAsyncResult`
See Also

CloudBlob Class

Return to top
CloudBlob.....EndStartCopy Method (IAsyncResult) C# C++ F# VB (IAsyncResult^)(IAsyncResult)(IAsyncResult)

See Also
Ends an asynchronous operation to start copying another blob's contents, properties, and metadata to this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public virtual string EndStartCopy(
  IAsyncResult asyncResult
)
```

C++
```cpp
public:
virtual String^ EndStartCopy(
  IAsyncResult^ asyncResult
)
```

F#
```fsharp
abstract EndStartCopy :
  asyncResult:IAasyncResult -> string
override EndStartCopy :
  asyncResult:IAasyncResult -> string
```

VB
```vbnet
Public Overridable Function EndStartCopy (  
  asyncResult As IAsyncResult
) As String
```

Parameters

`asyncResult`
Type:
```csharp
System.IAsyncResult
```
Remarks

This method fetches the blob's ETag, last-modified time, and part of the copy state. The copy ID and copy status fields are fetched, and the rest of the copy state is cleared.
See Also

CloudBlob Class

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See Also
Initiates an asynchronous operation to check existence of the blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://microsoft.windowsazure.storage.blob)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task<bool> ExistsAsync()

C++

public:
[DoesServiceRequestAttribute]
virtual Task<bool>^ ExistsAsync()

F#

[<DoesServiceRequestAttribute>]
abstract ExistsAsync : unit -> Task<bool>
[<DoesServiceRequestAttribute>]
override ExistsAsync : unit -> Task<bool>

VB

<DoesServiceRequestAttribute>
Public Overridable Function ExistsAsync As Task

Return Value

Type:


A Task<TResult>(Of TResult) object of type boolean that represents the asynchronous operation.
See Also

ExistsAsync_Overload
CloudBlob Class

Return to top
CloudBlob::ExistsAsync Method
(BlobRequestOptions, OperationContext)
(BlobRequestOptions^, OperationContext^)
(BlobRequestOptions, OperationContext)(BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to check existence of the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task<bool> ExistsAsync(
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<bool> ExistsAsync(
    BlobRequestOptions options,
    OperationContext operationContext
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract ExistsAsync :
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<bool>

[<DoesServiceRequestAttribute>]
override ExistsAsync :
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<bool>
```

VB

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function ExistsAsync (
See Also

ExistsAsync_Overload
CloudBlob Class

Return to top
CloudBlob..:..ExistsAsync Method
(BlobRequestOptions, OperationContext,
CancellationToken)(BlobRequestOptions^, OperationContext^,
CancellationToken)(BlobRequestOptions, OperationContext,
CancellationToken)(BlobRequestOptions, OperationContext,
CancellationToken)

See Also
Initiates an asynchronous operation to check existence of the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task<bool> ExistsAsync(  
    BlobRequestOptions options,  
    OperationContext operationContext,  
    CancellationToken cancellationToken  
)

C++  

public:  
[DoesServiceRequestAttribute]  
virtual Task<bool> ExistsAsync(  
    BlobRequestOptions options,  
    OperationContext operationContext,  
    CancellationToken cancellationToken  
)

F#  

[<DoesServiceRequestAttribute>]
abstract ExistsAsync :  
    options:BlobRequestOptions *  
    operationContext:OperationContext *  
    cancellationToken:CancellationToken  ->  

[<DoesServiceRequestAttribute>]
override ExistsAsync :  
    options:BlobRequestOptions *  
    operationContext:OperationContext *  
    cancellationToken:CancellationToken  ->  

See Also

- ExistsAsync_Overload
- CloudBlob Class

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Initiates an asynchronous operation to check existence of the blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<bool> ExistsAsync(
    CancellationToken cancellationToken
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<bool> ExistsAsync(
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract ExistsAsync :
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override ExistsAsync :
    cancellationToken:CancellationToken ->
```

VB  

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function ExistsAsync (  
    cancellationToken As CancellationToken
) As Task(Of Boolean)
```


See Also

ExistsAsync_Overload
CloudBlob Class

Return to top
CloudBlob..::.FetchAttributesAsync Method (0) (0) C# C++ F# VB

See Also
Initiates an asynchronous operation to populate the blob's properties and metadata.

**Namespace:** [Microsoft.WindowsAzure.Storage.Blob](https://docs.microsoft.com/en-us/azure/storage/blobs/)  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task FetchAttributesAsync()
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ FetchAttributesAsync()
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract FetchAttributesAsync : unit -> Task
[<DoesServiceRequestAttribute>]
override FetchAttributesAsync : unit -> Task
```

VB  

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function FetchAttributesAsync
```

Return Value

Type:  

```csharp
System.Threading.Tasks.Task
```

A Task object that represents the asynchronous operation.
See Also

FetchAttributesAsync_Overload
CloudBlob Class

Return to top

See Also
Initiates an asynchronous operation to populate the blob's properties and metadata.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task FetchAttributesAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ FetchAttributesAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract FetchAttributesAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task

[<DoesServiceRequestAttribute>]
override FetchAttributesAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task
```
See Also

- FetchAttributesAsync_Overload
- CloudBlob Class

Return to top
CloudBlob::FetchAttributesAsync Method

(ACCESSCONDITION, BlobRequestOptions,
OperationContext, CancellationToken)

(ACCESSCONDITION^, BlobRequestOptions^, OperationContext^, CancellationToken)

(ACCESSCONDITION, BlobRequestOptions, OperationContext,
CancellationToken)

See Also
Initiates an asynchronous operation to populate the blob's properties and metadata.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task FetchAttributesAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ FetchAttributesAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract FetchAttributesAsync : 
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override FetchAttributesAsync : 
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->
See Also

FetchAttributesAsync_Overload
CloudBlob Class

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See Also
Initiates an asynchronous operation to populate the blob's properties and metadata.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task FetchAttributesAsync(
    CancellationToken cancellationToken
)

C++
public:
[DoesServiceRequestAttribute]
virtual Task^ FetchAttributesAsync(
    CancellationToken cancellationToken
)

F#
[<DoesServiceRequestAttribute>]
abstract FetchAttributesAsync :
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override FetchAttributesAsync :
    cancellationToken:CancellationToken ->

VB
<DoesServiceRequestAttribute>
Public Overridable Function FetchAttributesAsync :
    cancellationToken As CancellationToken As Task
See Also

FetchAttributesAsync_Overload
CloudBlob Class

Return to top
See Also
Returns a shared access signature for the blob.

**Namespace:**  

**Assembly:**  
**Syntax**

**C#**

```csharp
public string GetSharedAccessSignature(
    SharedAccessBlobPolicy policy
)
```

**C++**

```cpp
public:
    virtual String^ GetSharedAccessSignature(
        SharedAccessBlobPolicy^ policy
    ) sealed
```

**F#**

```fsharp
abstract GetSharedAccessSignature :
    policy:SharedAccessBlobPolicy -> string
override GetSharedAccessSignature :
    policy:SharedAccessBlobPolicy -> string
```

**VB**

```vbnet
Public Function GetSharedAccessSignature (policy As SharedAccessBlobPolicy)
    As String
```

**Parameters**

*policy*

**Remarks**

The query string returned includes the leading question mark.
See Also

GetSharedAccessSignature_ Overload
CloudBlob Class

Return to top
CloudBlob..::.GetSharedAccessSignature Method
(SharedAccessBlobPolicy,
SharedAccessBlobHeaders)(SharedAccessBlobPolicy^,
SharedAccessBlobHeaders^)(SharedAccessBlobPolicy,
SharedAccessBlobHeaders)

See Also
Returns a shared access signature for the blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://aka.ms/winazure-storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public string GetSharedAccessSignature(
    SharedAccessBlobPolicy policy,
    SharedAccessBlobHeaders headers
)
```

C++  
```cpp
public:
  virtual String^ GetSharedAccessSignature(
    SharedAccessBlobPolicy^ policy,
    SharedAccessBlobHeaders^ headers
  ) sealed
```

F#  
```fsharp
abstract GetSharedAccessSignature : 
  policy:SharedAccessBlobPolicy * 
  headers:SharedAccessBlobHeaders -> string
override GetSharedAccessSignature : 
  policy:SharedAccessBlobPolicy * 
  headers:SharedAccessBlobHeaders -> string
```

VB  
```vbnet
Public Function GetSharedAccessSignature ( 
    policy As SharedAccessBlobPolicy, 
    headers As SharedAccessBlobHeaders 
) As String
```
See Also

GetSharedAccessSignature Overload
CloudBlob Class

Return to top

See Also
Returns a shared access signature for the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public string GetSharedAccessSignature(
    SharedAccessBlobPolicy policy,
    SharedAccessBlobHeaders headers,
    string groupPolicyIdentifier
)
```

C++  

```cpp
public:
virtual String^ GetSharedAccessSignature(
    SharedAccessBlobPolicy^ policy,
    SharedAccessBlobHeaders^ headers,
    String^ groupPolicyIdentifier
) sealed
```

F#  

```fsharp
abstract GetSharedAccessSignature :
    policy:SharedAccessBlobPolicy *
    headers:SharedAccessBlobHeaders *
    groupPolicyIdentifier:string -> string

override GetSharedAccessSignature :
    policy:SharedAccessBlobPolicy *
    headers:SharedAccessBlobHeaders *
    groupPolicyIdentifier:string -> string
```

VB  

```vb
Public Function GetSharedAccessSignature (  
    policy As SharedAccessBlobPolicy,
```
See Also

GetSharedAccessSignature_Overload
CloudBlob Class

Return to top
CloudBlob..::.GetSharedAccessSignature Method  
(SharedAccessBlobPolicy, 
SharedAccessBlobHeaders, String, 
Nullable<SharedAccessProtocol>, IPAddressOrRange) 
(SharedAccessBlobPolicy^, SharedAccessBlobHeaders^, 
String^, Nullable<SharedAccessProtocol>, 
IPAddressOrRange^)(SharedAccessBlobPolicy, 
SharedAccessBlobHeaders, String, 
Nullable<SharedAccessProtocol>, IPAddressOrRange) 
(SharedAccessBlobPolicy, SharedAccessBlobHeaders, String, 
Nullable(Of SharedAccessProtocol), IPAddressOrRange) 
See Also
Returns a shared access signature for the blob.

**Namespace:** [Microsoft.WindowsAzure.Storage.Blob](http://example.com)

**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
public string GetSharedAccessSignature(
    SharedAccessBlobPolicy policy,
    SharedAccessBlobHeaders headers,
    string groupPolicyIdentifier,
    Nullable<SharedAccessProtocol> protocols,
    IPAddressOrRange ipAddressOrRange
)
```

**C++**

```cpp
public:
    virtual String^ GetSharedAccessSignature(
        SharedAccessBlobPolicy^ policy,
        SharedAccessBlobHeaders^ headers,
        String^ groupPolicyIdentifier,
        Nullable<SharedAccessProtocol> protocols,
        IPAddressOrRange^ ipAddressOrRange
    ) sealed
```

**F#**

```fsharp
abstract GetSharedAccessSignature :
    policy:SharedAccessBlobPolicy *
    headers:SharedAccessBlobHeaders *
    groupPolicyIdentifier:string *
    protocols:Nullable<SharedAccessProtocol> *
    ipAddressOrRange:IPAddressOrRange -> string

override GetSharedAccessSignature :
    policy:SharedAccessBlobPolicy *
    headers:SharedAccessBlobHeaders *
    groupPolicyIdentifier:string *
    protocols:Nullable<SharedAccessProtocol> *
    ipAddressOrRange:IPAddressOrRange -> string
```
See Also

GetSharedAccessSignature Overload
CloudBlob Class

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See Also
Returns a shared access signature for the blob.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public string GetSharedAccessSignature(
    SharedAccessBlobPolicy policy,
    string groupPolicyIdentifier
)
```

C++  

```c++
public:
virtual String^ GetSharedAccessSignature(
    SharedAccessBlobPolicy^ policy,
    String^ groupPolicyIdentifier
) sealed
```

F#  

```fsharp
abstract GetSharedAccessSignature :
    policy:SharedAccessBlobPolicy *
    groupPolicyIdentifier:string -> string
override GetSharedAccessSignature :
    policy:SharedAccessBlobPolicy *
    groupPolicyIdentifier:string -> string
```

VB  

```vbnet
Public Function GetSharedAccessSignature (  
    policy As SharedAccessBlobPolicy,
    groupPolicyIdentifier As String
) As String
```
Remarks

The query string returned includes the leading question mark.
See Also

GetSharedAccessSignature_Overload
CloudBlob Class

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See Also
Initiates an asynchronous operation to open a stream for reading from the blob.

## Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task<Stream> OpenReadAsync()
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<Stream^>^ OpenReadAsync()
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract OpenReadAsync : unit -> Task<Stream>
[<DoesServiceRequestAttribute>]
override OpenReadAsync : unit -> Task<Stream>
```

**VB**

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function OpenReadAsync As Task(...)
```

## Return Value

Type:

```
System.Threading.Tasks.Task(Stream)
```

A `Task<TResult>` object of type `Stream` that represents the asynchronous operation.
Remarks

On the Stream object returned by this method, the EndRead method must be called exactly once for every BeginRead call. Failing to end the read process before beginning another read process can cause unexpected behavior.

Note that this method always makes a call to the FetchAttributesAsync method under the covers.

Set the StreamMinimumReadSizeInBytes property before calling this method to specify the minimum number of bytes to buffer when reading from the stream. The value must be at least 16 KB.
See Also

OpenReadAsync Overload
CloudBlob Class

Return to top
CloudBlob::OpenReadAsync Method
(AccessCondition, BlobRequestOptions, OperationContext)
(AccessCondition^, BlobRequestOptions^, OperationContext^)
(AccessCondition, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to open a stream for reading from the blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<Stream> OpenReadAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<Stream^>^ OpenReadAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract OpenReadAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<Stream>

[<DoesServiceRequestAttribute>]
override OpenReadAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<Stream>
```
Remarks

On the Stream object returned by this method, the EndRead method must be called exactly once for every BeginRead call. Failing to end the read process before beginning another read process can cause unexpected behavior.

Note that this method always makes a call to the FetchAttributesAsync method under the covers.

Set the StreamMinimumReadSizeInBytes property before calling this method to specify the minimum number of bytes to buffer when reading from the stream. The value must be at least 16 KB.
See Also

OpenReadStream_Overload
CloudBlob Class

Return to top
CloudBlob::..OpenReadAsync Method

(AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)

See Also
Initiates an asynchronous operation to open a stream for reading from the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task<Stream> OpenReadAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<Stream^>^ OpenReadAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract OpenReadAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override OpenReadAsync :
    accessCondition:AccessCondition *
**Remarks**

On the Stream object returned by this method, the EndRead method must be called exactly once for every BeginRead call. Failing to end the read process before beginning another read process can cause unexpected behavior.

Note that this method always makes a call to the `FetchAttributesAsync` method under the covers.

Set the `StreamMinimumReadSizeInBytes` property before calling this method to specify the minimum number of bytes to buffer when reading from the stream. The value must be at least 16 KB.
See Also

OpenReadAsync Overload
CloudBlob Class

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See Also
Initiates an asynchronous operation to open a stream for reading from the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task<Stream> OpenReadAsync(
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<Stream^>^ OpenReadAsync(
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract OpenReadAsync :
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override OpenReadAsync :
    cancellationToken:CancellationToken ->
```

VB

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function OpenReadAsync (    cancellationToken As CancellationToken
) As Task(Of Stream)
```
Remarks

On the Stream object returned by this method, the EndRead method must be called exactly once for every BeginRead call. Failing to end the read process before beginning another read process can cause unexpected behavior.

Note that this method always makes a call to the `FetchAttributesAsync` method under the covers.

Set the `StreamMinimumReadSizeInBytes` property before calling this method to specify the minimum number of bytes to buffer when reading from the stream. The value must be at least 16 KB.
See Also

OpenReadAsync Overload
CloudBlob Class

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C# C++ F# VB
Initiates an asynchronous operation to release the lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task ReleaseLeaseAsync(
    AccessCondition accessCondition
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task^ ReleaseLeaseAsync(
    AccessCondition^ accessCondition
)

F#  
[<DoesServiceRequestAttribute>]
abstract ReleaseLeaseAsync : 
    accessCondition:AccessCondition -> Task
[<DoesServiceRequestAttribute>]
override ReleaseLeaseAsync : 
    accessCondition:AccessCondition -> Task

VB  
<DoesServiceRequestAttribute>
Public Overridable Function ReleaseLeaseAsync
    (accessCondition As AccessCondition
) As Task
See Also

ReleaseLeaseAsync_Overload
CloudBlob Class

Return to top
CloudBlob::ReleaseLeaseAsync Method

C# C++ F# VB

(AccessCondition, BlobRequestOptions, OperationContext)(AccessCondition^, BlobRequestOptions^, OperationContext^)
(AccessCondition, BlobRequestOptions, OperationContext)(AccessCondition, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to release the lease on this blob.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task ReleaseLeaseAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ ReleaseLeaseAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract ReleaseLeaseAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task

[<DoesServiceRequestAttribute>]
override ReleaseLeaseAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task```

**VB**

```vbnet
<DoesServiceRequestAttribute>
```
See Also

ReleaseLeaseAsync Overload
CloudBlob Class

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See Also
Initiates an asynchronous operation to release the lease on this blob.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task ReleaseLeaseAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ ReleaseLeaseAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract ReleaseLeaseAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override ReleaseLeaseAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->
```
See Also

ReleaseLeaseAsync_Overload
CloudBlob Class

Return to top
CloudBlob...ReleaseLeaseAsync Method
(AccessCondition, CancellationToken)
(AccessCondition^, CancellationToken)(AccessCondition, CancellationToken)
See Also
Initiates an asynchronous operation to release the lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task ReleaseLeaseAsync(
    AccessCondition accessCondition,
    CancellationToken cancellationToken
)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task^ ReleaseLeaseAsync(
    AccessCondition^ accessCondition,
    CancellationToken cancellationToken
)

F#  

[<DoesServiceRequestAttribute>]
abstract ReleaseLeaseAsync :
    accessCondition:AccessCondition *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override ReleaseLeaseAsync :
    accessCondition:AccessCondition *
    cancellationToken:CancellationToken ->

VB  

<DoesServiceRequestAttribute>
Public Overridable Function ReleaseLeaseAsync

    accessCondition As AccessCondition,
    cancellationToken As CancellationToken
    As Task
See Also

- ReleaseLeaseAsync Overload
- CloudBlob Class

Return to top

See Also
Initiates an asynchronous operation to renew a lease on this blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://msdn.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task RenewLeaseAsync(
    AccessCondition accessCondition
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task^ RenewLeaseAsync(
    AccessCondition^ accessCondition
)

F#  
[<DoesServiceRequestAttribute>]
abstract RenewLeaseAsync :
    accessCondition:AccessCondition -> Task
[<DoesServiceRequestAttribute>]
override RenewLeaseAsync :
    accessCondition:AccessCondition -> Task

VB  
<DoesServiceRequestAttribute>
Public Overridable Function RenewLeaseAsync (  
    accessCondition As AccessCondition
) As Task
See Also

RenewLeaseAsync Overload
CloudBlob Class

Return to top
CloudBlob:::RenewLeaseAsync Method (AccessCondition, BlobRequestOptions, OperationContext) (AccessCondition^, BlobRequestOptions^, OperationContext^) (AccessCondition, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to renew a lease on this blob.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task RenewLeaseAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ RenewLeaseAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract RenewLeaseAsync :
    accessCondition : AccessCondition *
    options : BlobRequestOptions *
    operationContext : OperationContext -> Task

[<DoesServiceRequestAttribute>]
override RenewLeaseAsync :
    accessCondition : AccessCondition *
    options : BlobRequestOptions *
    operationContext : OperationContext -> Task
```
See Also

- RenewLeaseAsync_ Overload
- CloudBlob Class

Return to top
CloudBlob:::RenewLeaseAsync Method

C# C++ F# VB

(AccessCondition, BlobRequestOptions,
OperationContext, CancellationToken)
(AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)
(AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to renew a lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task RenewLeaseAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task^ RenewLeaseAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#  
[<DoesServiceRequestAttribute>]
abstract RenewLeaseAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override RenewLeaseAsync :
    accessCondition:AccessCondition *
See Also

RenewLeaseAsync_ Overload
CloudBlob Class

Return to top
CloudBlob:::RenewLeaseAsync Method
(ACCESS_CONDITION, CANCELLATION_TOKEN)
(ACCESS_CONDITION^, CANCELLATION_TOKEN)(ACCESS_CONDITION, CANCELLATION_TOKEN)

See Also
Initiates an asynchronous operation to renew a lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task RenewLeaseAsync(
    AccessCondition accessCondition,
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ RenewLeaseAsync(
    AccessCondition^ accessCondition,
    CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract RenewLeaseAsync :
    accessCondition:AccessCondition *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override RenewLeaseAsync :
    accessCondition:AccessCondition *
    cancellationToken:CancellationToken ->

VB

<DoesServiceRequestAttribute>
Public Overridable Function RenewLeaseAsync (}
See Also

RenewLeaseAsync_ Overload
CloudBlob Class

Return to top
Initiates an asynchronous operation to update the blob's metadata.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/Azure/azure-storage-net)

**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task SetMetadataAsync()

C++  
public:
[DoesServiceRequestAttribute]
virtual Task^ SetMetadataAsync()

F#  
[<DoesServiceRequestAttribute>]
abstract SetMetadataAsync : unit -> Task
[<DoesServiceRequestAttribute>]
override SetMetadataAsync : unit -> Task

VB  
<DoesServiceRequestAttribute>
Public Overridable Function SetMetadataAsync As

Return Value

Type:
A Task object that represents the asynchronous operation.
See Also

SetMetadataAsync Overload
CloudBlob Class

Return to top
CloudBlob:::SetMetadataAsync Method

(API, BlobRequestOptions, OperationContext)(API, BlobRequestOptions, OperationContext)(API, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to update the blob's metadata.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task SetMetadataAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task^ SetMetadataAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#  

[<DoesServiceRequestAttribute>]
abstract SetMetadataAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task

[<DoesServiceRequestAttribute>]
override SetMetadataAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task
See Also

* SetMetadataAsync Overload
* CloudBlob Class

Return to top
CloudBlob:::..SetMetadataAsync Method

(ACCESSCONDITION, BLOBREQUESTOPTIONS,
OPERATIONCONTEXT, CANCELLATIONTOKEN)

(ACCESSCONDITION\(^\wedge\),
BLOBREQUESTOPTIONS\(^\wedge\), OPERATIONCONTEXT\(^\wedge\), CANCELLATIONTOKEN)

(ACCESSCONDITION, BLOBREQUESTOPTIONS, OPERATIONCONTEXT,
CANCELLATIONTOKEN)

See Also
Initiates an asynchronous operation to update the blob's metadata.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task SetMetadataAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ SetMetadataAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract SetMetadataAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override SetMetadataAsync :
    accessCondition:AccessCondition *
See Also

SetMetadataAsync Overload
CloudBlob Class

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</table>

See Also
Initiates an asynchronous operation to update the blob's metadata.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task SetMetadataAsync(
    CancellationToken cancellationToken
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ SetMetadataAsync(
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract SetMetadataAsync :
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override SetMetadataAsync :
    cancellationToken:CancellationToken ->
```

VB  

```vb
<DoesServiceRequestAttribute>
Public Overridable Function SetMetadataAsync (  
    cancellationToken As CancellationToken
) As Task
```
See Also

SetMetadataAsync_ Overload
CloudBlob Class

Return to top
See Also
Initiates an asynchronous operation to update the blob's properties.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

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<td>C#</td>
<td><code>[DoesServiceRequestAttribute] public virtual Task SetPropertiesAsync()</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: [DoesServiceRequestAttribute] virtual Task^ SetPropertiesAsync()</code></td>
</tr>
</tbody>
</table>
| F#       | `[<DoesServiceRequestAttribute>] abstract SetPropertiesAsync : unit -> Task`  
            `[<DoesServiceRequestAttribute>] override SetPropertiesAsync : unit -> Task` |
| VB       | `<DoesServiceRequestAttribute> Public Overridable Function SetPropertiesAsync` |

### Return Value

Type:  

System.Threading.Tasks.Task

A Task object that represents the asynchronous operation.
See Also

SetPropertiesAsync Overload
CloudBlob Class

Return to top
CloudBlob...SetPropertiesAsync Method

C#  
++  
F#  
VB


See Also
Initiates an asynchronous operation to update the blob's properties.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task SetPropertiesAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task^ SetPropertiesAsync( 
    AccessCondition^ accessCondition, 
    BlobRequestOptions^ options, 
    OperationContext^ operationContext
)

F#  
[<DoesServiceRequestAttribute>]
abstract SetPropertiesAsync : 
    accessCondition:AccessCondition * 
    options:BlobRequestOptions * 
    operationContext:OperationContext -> Task

[<DoesServiceRequestAttribute>]
override SetPropertiesAsync : 
    accessCondition:AccessCondition * 
    options:BlobRequestOptions * 
    operationContext:OperationContext -> Task
See Also

SetPropertiesAsync Overload
CloudBlob Class

Return to top
CloudBlob:::..SetPropertiesAsync Method
(AccessCondition, BlobRequestOptions, 
OperationContext, CancellationToken)(AccessCondition^, 
BlobRequestOptions^, OperationContext^, CancellationToken) 
(AccessCondition, BlobRequestOptions, OperationContext, 
CancellationToken)(AccessCondition, BlobRequestOptions, 
OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to update the blob's properties.

**Namespace:**  

**Assembly:**  
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task SetPropertiesAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ SetPropertiesAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#  

[<DoesServiceRequestAttribute>]
abstract SetPropertiesAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override SetPropertiesAsync :
    accessCondition:AccessCondition *

See Also

SetPropertiesAsync_Overload
CloudBlob Class

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<tr>
<td>CloudBlob::..SetPropertiesAsync Method (CancellationToken)(CancellationToken) (CancellationToken) (CancellationToken)</td>
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</tr>
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</table>

See Also
Initiates an asynchronous operation to update the blob's properties.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task SetPropertiesAsync(  
    CancellationToken cancellationToken
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ SetPropertiesAsync(  
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract SetPropertiesAsync :
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override SetPropertiesAsync :
    cancellationToken:CancellationToken ->
```

VB  

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function SetPropertiesAsync(  
    cancellationToken As CancellationToken
) As Task
```
See Also

SetPropertiesAsync Overload
CloudBlob Class

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<th>CloudBlob::..SnapshotAsync Method ()()()</th>
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</table>
Initiates an asynchronous operation to create a snapshot of the blob.

### Syntax

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<tr>
<td><code>[DoesServiceRequestAttribute]</code>&lt;br&gt;<code>public virtual Task&lt;CloudBlob&gt; SnapshotAsync()</code></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>C++</th>
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<tbody>
<tr>
<td><code>public:</code>&lt;br&gt;<code>[DoesServiceRequestAttribute]&lt;br&gt;</code>virtual Task&lt;CloudBlob^&gt;^ SnapshotAsync()`</td>
<td></td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>F#</th>
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</table>

<table>
<thead>
<tr>
<th>VB</th>
<th>Copy Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>&lt;DoesServiceRequestAttribute&gt;</code>&lt;br&gt;<code>Public Overridable Function SnapshotAsync As Task</code></td>
<td></td>
</tr>
</tbody>
</table>

### Return Value

Type:<br>System.Threading.Tasks.Task`<`CloudBlob`> System.Threading.Tasks::Task`<`A Task`<`TResult`>`<`TResult`>`<`Of`<TResult`>` object of type `CloudBlob` that represents the asynchronous operation.
See Also

- `SnapshotAsync_Overload`
- `CloudBlob Class`

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<td><code>CloudBlob.NameSpaceSnapshotAsync</code></td>
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<tr>
<td><code>SnapshotAsync(CancellationToken)</code></td>
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See Also
Initiates an asynchronous operation to create a snapshot of the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task<CloudBlob> SnapshotAsync(
    CancellationToken cancellationToken
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<CloudBlob^>^ SnapshotAsync(
    CancellationToken cancellationToken
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract SnapshotAsync :
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override SnapshotAsync :
    cancellationToken:CancellationToken ->
```

**VB**

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function SnapshotAsync (  
    cancellationToken As CancellationToken
) As Task(Of CloudBlob)
```
See Also

SnapshotAsync_ Overload
CloudBlob Class

Return to top
CloudBlob::SnapshotAsync Method
(IDictionary<String, String>, AccessCondition,
BlobRequestOptions, OperationContext)
(IDictionary<String^, String^>, AccessCondition^, BlobRequestOptions^,
OperationContext^)
(IDictionary(Of String, String), AccessCondition, BlobRequestOptions, OperationContext)
See Also
Initiates an asynchronous operation to create a snapshot of the blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/Azure/azure-sdk-for-net/blob/master/services/Storage/Blob/)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task<CloudBlob> SnapshotAsync(
    IDictionary<string, string> metadata,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<CloudBlob^>^ SnapshotAsync(
    IDictionary<String^, String^>^ metadata,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract SnapshotAsync :
    metadata:IDictionary<string, string> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<CloudBlob>

[<DoesServiceRequestAttribute>]
override SnapshotAsync :
    metadata:IDictionary<string, string> *
```

```
See Also

SnapshotAsync Overload
CloudBlob Class

Return to top
CloudBlob:::SnapshotAsync Method  
(IDictionary<String, String>, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)  
(IDictionary<String^, String^>, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)  
(IDictionary(Of String, String), AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)  
See Also
Initiates an asynchronous operation to create a snapshot of the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<CloudBlob> SnapshotAsync(
    IDictionary<string, string> metadata,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<CloudBlob^> SnapshotAsync(
    IDictionary<String^, String^>^ metadata,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract SnapshotAsync :
    metadata:IDictionary<string, string>*
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken
```
See Also

SnapshotAsync_Overload
CloudBlob Class

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See Also
Initiates an asynchronous operation to start copying another blob's contents, properties, and metadata to this blob.

Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    Uri source
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ StartCopyAsync(
    Uri^ source
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract StartCopyAsync : 
    source:Uri -> Task<string>
[<DoesServiceRequestAttribute>]
override StartCopyAsync : 
    source:Uri -> Task<string>
```

VB

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function StartCopyAsync ( 
    source As Uri 
) As Task(Of String)
```
See Also

StartCopyAsync_Overload
CloudBlob Class

Return to top

See Also
Initiates an asynchronous operation to start copying another blob's contents, properties, and metadata to this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    Uri source,
    AccessCondition sourceAccessCondition,
    AccessCondition destAccessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ StartCopyAsync(
    Uri^ source,
    AccessCondition^ sourceAccessCondition,
    AccessCondition^ destAccessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#

[<DoesServiceRequestAttribute>]
abstract StartCopyAsync :
    source:Uri *
    sourceAccessCondition:AccessCondition
    destAccessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext

See Also

StartCopyAsync_Overload
CloudBlob Class

Return to top
CloudBlob::...StartCopyAsync Method (Uri, AccessCondition, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(Uri^, AccessCondition^, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken^)
(Uri, AccessCondition, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(Uri, AccessCondition, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to start copying another blob's contents, properties, and metadata to this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    Uri source,
    AccessCondition sourceAccessCondition,
    AccessCondition destAccessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ StartCopyAsync(
    Uri^ source,
    AccessCondition^ sourceAccessCondition,
    AccessCondition^ destAccessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#  

[<DoesServiceRequestAttribute>]
abstract StartCopyAsync : 
    source:Uri *
    sourceAccessCondition:AccessCondition
    destAccessCondition:AccessCondition *
See Also

StartCopyAsync_Overload
CloudBlob Class

Return to top
CloudBlob...StartCopyAsync Method (Uri, CancellationToken)(Uri^, CancellationToken)(Uri, CancellationToken)

See Also
Initiates an asynchronous operation to start copying another blob's contents, properties, and metadata to this blob.

Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    Uri source,
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ StartCopyAsync(
    Uri^ source,
    CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract StartCopyAsync :
    source:Uri *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override StartCopyAsync :
    source:Uri *
    cancellationToken:CancellationToken ->

VB

<DoesServiceRequestAttribute>
Public Overridable Function StartCopyAsync (}
See Also

StartCopyAsync Overload
CloudBlob Class

Return to top
| BlobContainerPermissions Constructor ()() | C# | C++ | F# | VB |
| See Also |
Initializes a new instance of the `BlobContainerPermissions` class.


Syntax

C#

```csharp
public BlobContainerPermissions()
```

C++

```cpp
public:
BlobContainerPermissions()
```

F#

```fsharp
new : unit -> BlobContainerPermissions
```

VB

```vbnet
Public Sub New
```
See Also

BlobContainerPermissions Class

Return to top
BlobContainerPermissions.PublicAccess Property

See Also
Gets or sets the public access setting for the container.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

---

**C#**

```csharp
public BlobContainerPublicAccessType PublicAccess {
    get;
    set;
}
```

**C++**

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

**F#**

```fsharp
member PublicAccess : BlobContainerPublicAccessType
```

**VB**

```vb
Public Property PublicAccess As BlobContainerPublicAccessType
```

---

**Property Value**

Type:


A `BlobContainerPublicAccessType` enumeration value.
See Also

BlobContainerPermissions Class

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See Also
Gets the set of shared access policies for the container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public SharedAccessBlobPolicies SharedAccessPolicies {
    get;
}
```

C++  
```cpp
public:
    property SharedAccessBlobPolicies^ SharedAccessPolicies
        SharedAccessBlobPolicies^ get();
        private: void set(SharedAccessBlobPolicies^ value);
```  

F#  
```fsharp
member SharedAccessPolicies : SharedAccessBlobPolicies
```  

VB  
```vb
Public Property SharedAccessPolicies As SharedAccessBlobPolicies
    Get
    Private Set
End Property
```  

Property Value

Type:  
See Also

BlobContainerPermissions Class

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See Also
Gets the ETag value for the container.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
public string ETag { get; internal set; }
```

**C++**

```cpp
public:
property String^ ETag {
    String^ get();
    internal: void set(String^ value);
}
```

**F#**

```fsharp
member ETag : string with get, internal set
```

**VB**

```vb
Public Property ETag As String
    Get
        Friend Set
End Property
```

### Property Value

Type: `System.String`<br>
A string containing the container's quoted ETag value.
See Also

BlobContainerProperties Class

Return to top
BlobContainerProperties.LastModified
Property
BlobContainerProperties::LastModified
Property
BlobContainerProperties::LastModified
Property
BlobContainerProperties::LastModified Property

See Also
Gets the container's last-modified time.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

C#  
```csharp
public Nullable<DateTimeOffset> LastModified {
    get; }  
```

C++  
```cpp
public:
property Nullable<DateTimeOffset> LastModified
    Nullable<DateTimeOffset> get();
    internal: void set(Nullable<DateTimeOffset> value);
}  
```

F#  
```fsharp
member LastModified : Nullable<DateTimeOffset>  
```

VB  
```vbnet
Public Property LastModified As Nullable(Of DateTimeOffset)
Get
    Friend Set
End Property
```

**Property Value**

Type:

System.Nullable<DateTimeOffset>

A DateTimeOffset containing the container's last-modified time, in UTC format.
See Also

BlobContainerProperties Class

Return to top
BlobContainerProperties.LeaseDuration  C#  C++  F#  VB
Property BlobContainerProperties::LeaseDuration  Property BlobContainerProperties.LeaseDuration  Property
See Also
Gets the container's lease duration.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public LeaseDuration LeaseDuration { get; internal

C++

```

```cpp
public:

```

```cpp
property LeaseDuration LeaseDuration {

```

```cpp
LeaseDuration get();

```

```cpp
internal: void set(LeaseDuration value);

```

F#

```fsharp
member LeaseDuration : LeaseDuration with get,
```

VB

```vbnet
Public Property LeaseDuration As LeaseDuration

```

```vbnet
Get

```

```vbnet
Friend Set

```

```vbnet
End Property

Property Value

Type:

```csharp

```

A `LeaseDuration` object that indicates the container's lease duration.
See Also

BlobContainerProperties Class

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Gets the container's lease state.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public LeaseState LeaseState { get; internal set; }
```

C++  
```cpp
public:
    property LeaseState LeaseState {
        LeaseState get();
        internal: void set(LeaseState value);
    }
```

F#  
```fsharp
member LeaseState : LeaseState with get, internal
```

VB  
```vbnet
Public Property LeaseState As LeaseState
    Get
        Friend Set
    End Property
```

Property Value

Type:  

A `LeaseState` object that indicates the container's lease state.
See Also

BlobContainerProperties Class

Return to top
BlobContainerProperties.LeaseStatus
Property
BlobContainerProperties::LeaseStatus
Property
BlobContainerProperties.LeaseStatus	Property
See Also
Gets the container's lease status.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

C#  
```csharp
public LeaseStatus LeaseStatus { get; internal
```

C++  
```cpp
public:
property LeaseStatus LeaseStatus { 
LeaseStatus get();
internal: void set(LeaseStatus value);
}
```

F#  
```fsharp
member LeaseStatus : LeaseStatus with get, inte
```

VB  
```vb
Public Property LeaseStatus As LeaseStatus
Get
Friend Set
End Property
```

**Property Value**

Type:  

A `LeaseStatus` object that indicates the container's lease status.
See Also

BlobContainerProperties Class

Return to top
| BlobContinuationToken Constructor ()()() | C# | C++ | F# | VB |
| See Also | | | | |
### Syntax

**C#**

```csharp
public BlobContinuationToken()
```

**C++**

```cpp
public:
BlobContinuationToken()
```

**F#**

```fsharp
new : unit -> BlobContinuationToken
```

**VB**

```vbnet
Public Sub New
```
See Also

BlobContinuationToken Class

Return to top
BlobContinuationToken.NextMarker

See Also
Gets or sets the next marker for continuing results for `ICloudBlob` enumeration operations.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://www.microsoft.com/
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
public string NextMarker { get; set; }
```

**C++**

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

**F#**

```fsharp
member NextMarker : string with get, set
```

**VB**

```vbnet
Public Property NextMarker As String
```

**Property Value**

Type: `System.String`  
A string containing the NextMarker value.
See Also

BlobContinuationToken Class

Return to top
BlobContinuationToken.TargetLocation  C#  C++  F#  VB
Property BlobContinuationToken::TargetLocation
Property BlobContinuationToken::TargetLocation
Property BlobContinuationToken::TargetLocation  Property
See Also
Gets or sets the storage location that the continuation token applies to.

dn946570.aspx)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public Nullable<StorageLocation> TargetLocation {
    get;
    set;
}
```

C++  
```cpp
public:
property Nullable<StorageLocation> TargetLocation {
    virtual Nullable<StorageLocation> get();
    virtual void set(Nullable<StorageLocation> value);
}
```

F#  
```fsharp
abstract TargetLocation : Nullable<StorageLocation>
override TargetLocation : Nullable<StorageLocation>
```

VB  
```vbnet
Public Property TargetLocation As Nullable(Of StorageLocation)
```

Property Value

Type:
- `System.Nullable<StorageLocation>`

A `StorageLocation` enumeration value.

Implements
See Also

BlobContinuationToken Class

Return to top
BlobContinuationToken.:::GetSchema Method ()

See Also
Gets an XML representation of an object.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public XmlSchema GetSchema()
```

C++  

```cpp
public:
virtual XmlSchema^ GetSchema() sealed
```

F#  

```fsharp
abstract GetSchema : unit -> XmlSchema
override GetSchema : unit -> XmlSchema
```

VB  

```vbnet
Public Function GetSchema As XmlSchema
```

Return Value

Type:

```csharp
```

An XmlSchema that describes the XML representation of the object that is produced by the WriteXml method and consumed by the ReadXml method.

Implements

```csharp
IXmlSerializable
```

```csharp
...GetSchema()()
```
See Also

BlobContinuationToken Class

Return to top
BlobContinuationToken::..ReadXml Method
(XmlReader)(XmlReader^)(XmlReader)
(XmlReader)
See Also
Generates a serializable continuation token from its XML representation.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
public void ReadXml(
    XmlReader reader
)
```

**C++**

```cpp
public:
virtual void ReadXml(
    XmlReader^ reader
) sealed
```

**F#**

```fsharp
abstract ReadXml :
    reader:XmlReader -> unit

override ReadXml :
    reader:XmlReader -> unit
```

**VB**

```vbnet
Public Sub ReadXml (    
    reader As XmlReader
)
```

### Parameters

*reader*

Type:

```csharp
System.Xml.XmlReader
```

```cpp
System::Xml::XmlReader
```

```fsharp
System.Xml.XmlReader
```

```vbnet
System.Xml.XmlReader
```
See Also

BlobContinuationToken Class

Return to top
BlobContinuationToken.

See Also
Converts a serializable continuation token into its XML representation.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public void WriteXml(
    XmlWriter writer
)
```

C++

```cpp
public:
virtual void WriteXml(
    XmlWriter^ writer
) sealed
```

F#

```fsharp
abstract WriteXml : 
    writer:XmlWriter -> unit
override WriteXml :
    writer:XmlWriter -> unit
```

VB

```vbnet
Public Sub WriteXml ( 
    writer As XmlWriter
)
```

Parameters

`writer`

Type:

```
System.Xml.XmlWriterSyatem.Xml::XmlWriter^System.Xml.XmlWriter
```
See Also

BlobContinuationToken Class

Return to top
BlobEncryptionPolicy Constructor (IKey, IKeyResolver)(IKey^, IKeyResolver^)(IKey, IKeyResolver)(IKey, IKeyResolver)

See Also
Initializes a new instance of the `BlobEncryptionPolicy` class with the specified key and resolver.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/Azure/azure-storage-net)

Syntax

C#  
```csharp
public BlobEncryptionPolicy(
    IKey key,
    IKeyResolver keyResolver
)
```

C++  
```cpp
public:
BlobEncryptionPolicy(
    IKey^ key,
    IKeyResolver^ keyResolver
)
```

F#  
```fsharp
new :
    key:IKey *
    keyResolver:IKeyResolver -> BlobEncryptionPolicy
```

VB  
```vbnet
Public Sub New (  
    key As IKey,  
    keyResolver As IKeyResolver  
)
```

Parameters

*key*
Remarks

If the generated policy is to be used for encryption, users are expected to provide a key at the minimum. The absence of key will cause an exception be thrown during encryption. If the generated policy is intended to be used decryption, users can provide a key resolver. The client library will: 1. Invoke the key resolver, if specified, to get the key. 2. If resolver is not specified but a key is specified, the client library will match the key ID against the key at use the key.
See Also

BlobEncryptionPolicy Class

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See Also
An object of type IKey that is used to wrap/unwrap the content key during encryption.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public IKey Key { get; private set; }
```

C++

```cpp
public:
    property IKey^ Key {
        IKey^ get();
        private: void set(IKey^ value);
    }
```

F#

```fsharp
member Key : IKey with get, private set
```

VB

```vbnet
Public Property Key As IKey
    Get
    Private Set
End Property
```

Property Value

Type:

```csharp
Microsoft.Azure.KeyVault.Core.IKey
```
See Also

BlobEncryptionPolicy Class

Return to top
Gets or sets the key resolver used to select the correct key for decrypting existing blobs.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public IKeyResolver KeyResolver { get; private set; }
```

C++  

```cpp
public:
property IKeyResolver^ KeyResolver {
    IKeyResolver^ get();
    private: void set(IKeyResolver^ value);
}
```

F#  

```fsharp
member KeyResolver : IKeyResolver with get, private
```

VB  

```vb
Public Property KeyResolver As IKeyResolver
Get
Private Set
End Property
```

Property Value

Type:

`Microsoft.Azure.KeyVault.Core.IKeyResolver`  
A resolver that returns an IKey, given a key ID.
See Also

BlobEncryptionPolicy Class

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See Also
Initializes a new instance of the **BlobProperties** class.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**
```
public BlobProperties()
```

**C++**
```
public:
BlobProperties()
```

**F#**
```
new : unit -> BlobProperties
```

**VB**
```
Public Sub New
```
See Also

BlobProperties Overload
BlobProperties Class

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See Also
Initializes a new instance of the BlobProperties class based on an existing instance.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

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

**C++**

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

**F#**

```fsharp
new : other:BlobProperties -> BlobProperties
```

**VB**

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

**Parameters**

*other*


A BlobProperties object.
Remarks

Lease-related properties will not be cloned, because a lease associated with the base blob is not copied to the snapshot.
See Also

BlobProperties Overload
BlobProperties Class

Return to top
BlobProperties.AppendBlobCommittedBlockCount  

Property BlobProperties::AppendBlobCommittedBlockCount

Property BlobProperties.AppendBlobCommittedBlockCount

Property BlobProperties.AppendBlobCommittedBlockCount

See Also
If the blob is an append blob, gets the number of committed blocks.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public Nullable<int> AppendBlobCommittedBlockCount {
    get;
}
```

C++  
```cpp
public:
    property Nullable<int> AppendBlobCommittedBlockCount {
        Nullable<int> get();
        internal: void set(Nullable<int> value);
    }
```

F#  
```fsharp
member AppendBlobCommittedBlockCount : Nullable<int>
```

VB  
```vbnet
Public Property AppendBlobCommittedBlockCount As Get

    Friend Set

End Property
```

Property Value

Type:  

```
```

An integer containing the number of committed blocks.
See Also

BlobProperties Class

Return to top
BlobProperties.BlobType Property

See Also
Gets the type of the blob.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public BlobType BlobType { get; internal set; }
```

C++  

```cpp
public:
property BlobType BlobType {
    BlobType get();
    internal: void set(BlobType value);
}
```

F#  

```fsharp
member BlobType : BlobType with get, internal set
```

VB  

```vb
Public Property BlobType As BlobType
    Get
    Friend Set
End Property
```

Property Value

Type:  


A `BlobType` object that indicates the type of the blob.
See Also

BlobProperties Class

Return to top
BlobProperties.CacheControl Property

See Also
Gets or sets the cache-control value stored for the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

    public string CacheControl { get; set; }

C++

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

F#

    member CacheControl : string with get, set

VB

    Public Property CacheControl As String

Property Value

Type:  System.String System::String^ System.String System.String

A string containing the blob's cache-control value.
See Also

BlobProperties Class

Return to top
BlobProperties.ContentDisposition Property

See Also
Gets or sets the content-disposition value stored for the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  Copy Code
public string ContentDisposition { get; set; }

C++  Copy Code
public:
property String^ ContentDisposition {  
    String^ get();  
    void set(String^ value);  
}

F#  Copy Code
member ContentDisposition : string with get, set

VB  Copy Code
Public Property ContentDisposition As String

Property Value

Type: System.String\System::String^\System.String\System.String
A string containing the blob's content-disposition value.
Remarks

If this property has not been set for the blob, it returns null.
See Also

BlobProperties Class

Return to top
BlobProperties.ContentEncoding
Property
BlobProperties::ContentEncoding
Property
BlobProperties.ContentEncoding Property

See Also
Gets or sets the content-encoding value stored for the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

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

**C++**

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

**F#**

```fsharp
member ContentEncoding : string with get, set
```

**VB**

```vb
Public Property ContentEncoding As String
```

### Property Value

Type: `System.String`, `String^`, `System.String`, `System::String`  
A string containing the blob's content-encoding value.
Remarks

If this property has not been set for the blob, it returns \texttt{null}.
See Also

BlobProperties Class

Return to top
BlobProperties.ContentLanguage

See Also
Gets or sets the content-language value stored for the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public string ContentLanguage { get; set; }
```

C++  
```cpp
public:
    property String^ ContentLanguage {
        String^ get();
        void set(String^ value);
    }
```

F#  
```fsharp
member ContentLanguage : string with get, set
```

VB  
```vbnet
Public Property ContentLanguage As String
```

Property Value

Type:  
```System.String```

A string containing the blob's content-language value.
Remarks

If this property has not been set for the blob, it returns \texttt{null}.
See Also

BlobProperties Class

Return to top
BlobProperties.ContentMD5 Property
See Also
Gets or sets the content-MD5 value stored for the blob.

Syntax

C#  
```csharp
public string ContentMD5 { get; set; }
```

C++  
```cpp
public:
property String^ ContentMD5 {
    String^ get();
    void set(String^ value);
}
```

F#  
```fsharp
member ContentMD5 : string with get, set
```

VB  
```vbnet
Public Property ContentMD5 As String
```

Property Value

Type: System.String

A string containing the blob's content-MD5 hash.
See Also

BlobProperties Class

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See Also
Gets or sets the content-type value stored for the blob.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public string ContentType { get; set; }
```

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

F#  
```fsharp
member ContentType : string with get, set
```

VB  
```vbnet
Public Property ContentType As String
```

Property Value

Type: `System.String`  
A string containing the blob's content-type value.
Remarks

If this property has not been set for the blob, it returns null.
See Also

BlobProperties Class

Return to top
BlobProperties.ETag Property

See Also
Gets the blob's ETag value.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public string ETag { get; internal set; }

C++  
public:  
property String^ ETag {  
   String^ get();  
   internal: void set(String^ value);  
}

F#  
member ETag : string with get, internal set

VB  
Public Property ETag As String  
   Get  
   Friend Set  
End Property

Property Value

Type: System.String
A string containing the blob's ETag value.
See Also

BlobProperties Class

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See Also
Gets the last-modified time for the blob, expressed as a UTC value.

Syntax

C#  
```csharp
public Nullable<DateTimeOffset> LastModified { }
```

C++  
```cpp
public:
    Nullable<DateTimeOffset> LastModified
    Nullable<DateTimeOffset> get();
    internal: void set(Nullable<DateTimeOffset> value);
}
```

F#  
```fsharp
member LastModified : Nullable<DateTimeOffset>
```

VB  
```vbnet
Public Property LastModified As Nullable(Of DateTimeOffset)
    Get
    Friend Set
End Property
```

Property Value

Type:

[System.Nullable(Of DateTimeOffset)]

A DateTimeOffset containing the blob's last-modified time, in UTC format.
See Also

BlobProperties Class

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Gets the blob's lease duration.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public LeaseDuration LeaseDuration { get; internal
```

C++  
```cpp
public:
property LeaseDuration LeaseDuration {
LeaseDuration get();
internal: void set(LeaseDuration value);
}
```

F#  
```fsharp
member LeaseDuration : LeaseDuration with get,
```

VB  
```vbnet
Public Property LeaseDuration As LeaseDuration
Get
Friend Set
End Property
```

Property Value

Type:  

A `LeaseDuration` object that indicates the blob's lease duration.
See Also

BlobProperties Class

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See Also
Gets the blob's lease state.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://go.microsoft.com/fwlink/?LinkID=306366)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#
```csharp
public LeaseState LeaseState { get; internal set; }
```

C++
```cpp
public:
property LeaseState LeaseState {
    LeaseState get();
    internal: void set(LeaseState value);
}
```

F#
```fsharp
member LeaseState : LeaseState with get, internal
```

VB
```vbnet
Public Property LeaseState As LeaseState
    Get
        Friend Set
    End Property
```

Property Value

Type:

```
```

A `LeaseState` object that indicates the blob's lease state.
See Also

BlobProperties Class

Return to top
BlobProperties.LeaseStatus Property

See Also
Gets the blob's lease status.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
public LeaseStatus LeaseStatus { get; internal set; }
```

**C++**

```cpp
public:

property LeaseStatus LeaseStatus {
    LeaseStatus get();
    internal: void set(LeaseStatus value);
}
```

**F#**

```fsharp
member LeaseStatus : LeaseStatus with get, internal
```

**VB**

```vb
Public Property LeaseStatus As LeaseStatus
    Get
    Friend Set
End Property
```

**Property Value**

Type: 


A `LeaseStatus` object that indicates the blob's lease status.
See Also

BlobProperties Class

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**See Also**
Gets the size of the blob, in bytes.

Syntax

C#  
public long Length { get; internal set; }

C++  
public:
property long long Length {
  long long get();
  internal: void set(long long value);
}

F#  
member Length : int64 with get, internal set

VB  
Public Property Length As Long
    Get
    Friend Set
End Property

Property Value

Type: System.Int64
A long value containing the blob's size in bytes.
See Also

BlobProperties Class

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See Also
If the blob is a page blob, gets the blob's current sequence number.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public Nullable<long> PageBlobSequenceNumber {
    get; 
}
```

C++  
```cpp
public:

    property Nullable<long long> PageBlobSequenceNumber
        Nullable<long long> get();
    internal: void set(Nullable<long long> value);
};
```

F#  
```fsharp
member PageBlobSequenceNumber : Nullable<int64> 
```

VB  
```vbnet
Public Property PageBlobSequenceNumber As Nullable(Int64)
    Get
        Friend Set
    End Property
```

Property Value

Type:  
```csharp
System_nullable<int64>
```

A long containing the blob's current sequence number.
See Also

BlobProperties Class

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Initializes a new instance of the `BlobRequestOptions` class.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
**public** BlobRequestOptions()

C++  
**public**: BlobRequestOptions()

F#  
**new**: unit -> BlobRequestOptions

VB  
**Public Sub New**
See Also

BlobRequestOptions Class

Return to top
BlobRequestOptions.AbsorbConditionalErrorsOnRetry
Property

See Also
Gets or sets a value that indicates whether a conditional failure should be absorbed on a retry attempt for the request.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
public Nullable<bool> AbsorbConditionalErrorsOnRetry {
    get;
    set;
}
```

**C++**

```cpp
public:
property Nullable<bool> AbsorbConditionalErrorsOnRetry {
    Nullable<bool> get();
    void set(Nullable<bool> value);
}
```

**F#**

```fsharp
member AbsorbConditionalErrorsOnRetry : Nullable<bool>
```

**VB**

```vbnet
Public Property AbsorbConditionalErrorsOnRetry
```

**Property Value**

Type:

- `System.Nullable<Boolean>`
- `System::Nullable<Boolean>`
- `System.Nullable<`
Remarks

This option is used only by the CloudAppendBlob object in the UploadFrom* methods and the BlobWriteStream methods. By default, it set to false. Set this option to true only for single writer scenarios. Setting this option to true in a multi-writer scenario may lead to corrupted blob data.
See Also

BlobRequestOptions Class

Return to top
BlobRequestOptions.DisableContentMD5Validation

Property BlobRequestOptions::DisableContentMD5Validation

Property BlobRequestOptions.DisableContentMD5Validation

See Also
**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public Nullable<bool> DisableContentMD5Validation {
    get;
    set;
}
```

C++  
```cpp
public:
    property Nullable<bool> DisableContentMD5Validation {
        Nullable<bool> get();
        void set(Nullable<bool> value);
    }
```

F#  
```fsharp
member DisableContentMD5Validation : Nullable<bool>
```

VB  
```vbnet
Public Property DisableContentMD5Validation As Nullable(Of Boolean)
```

Property Value

Type:

- `System.Nullable<Bool>`
- `System::Nullable<Bool>`
- `System.Nullable<Bool>`
Remarks

This property is not supported for Windows Phone.
See Also

BlobRequestOptions Class

Return to top
BlobRequestOptions.EncryptionPolicy

Property BlobRequestOptions::EncryptionPolicy

Property BlobRequestOptions.EncryptionPolicy Property

See Also
Gets or sets the encryption policy for the request.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public BlobEncryptionPolicy EncryptionPolicy {
    get;
    set;
}
```

C++  
```cpp
public:
    property BlobEncryptionPolicy^ EncryptionPolicy
    {
        BlobEncryptionPolicy^ get();
        void set(BlobEncryptionPolicy^ value);
    }
```

F#  
```fsharp
member EncryptionPolicy : BlobEncryptionPolicy
```

VB  
```vbnet
Public Property EncryptionPolicy As BlobEncryptionPolicy
```

Property Value

Type:  
```csharp
```

An object of type  
```csharp
EncryptionPolicy
```

An object of type  
```csharp
EncryptionPolicy
```

An object of type  
```csharp
EncryptionPolicy
```

An object of type  
```csharp
EncryptionPolicy
```

An object of type  
```csharp
EncryptionPolicy
```
See Also

BlobRequestOptions Class

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BlobRequestOptions.LocationMode

Property

See Also
Gets or sets the location mode of the request.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public Nullable<LocationMode> LocationMode { get; set; }
```

C++  
```cpp
public:
property Nullable<LocationMode> LocationMode {
    virtual Nullable<LocationMode> get() sealed
    virtual void set(Nullable<LocationMode> value)
}
```

F#  
```fsharp
abstract LocationMode : Nullable<LocationMode>
override LocationMode : Nullable<LocationMode>
```

VB  
```vbnet
Public Property LocationMode As Nullable(Of LocationMode)
```

Property Value

Type: 
- `System.Nullable<LocationMode>`

A `LocationMode` enumeration value indicating the location mode of the request.
See Also

BlobRequestOptions Class

Return to top
See Also
Gets or sets the maximum execution time across all potential retries for the request.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public Nullable<TimeSpan> MaximumExecutionTime {
    get;
    set;
}
```

C++  
```cpp
public:
    Nullable<TimeSpan> MaximumExecutionTime {
        virtual Nullable<TimeSpan> get()sealed
        virtual void set(Nullable<TimeSpan> value)
    }
```

F#  
```fsharp
abstract MaximumExecutionTime : Nullable<TimeSpan>
override MaximumExecutionTime : Nullable<TimeSpan>
```

VB  
```vbnet
Public Property MaximumExecutionTime As Nullable(TimeSpan)
```

**Property Value**

Type:  
```
System.Nullable<TimeSpan>
```

A TimeSpan representing the maximum execution time for retries for the request.

**Implements**
See Also

BlobRequestOptions Class

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See Also
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 in size.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://microsoft.windowsazure.storage.blob)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public Nullable<int> ParallelOperationThreadCount {
    get;
    set;
}
```

C++

```cpp
public:
    property Nullable<int> ParallelOperationThreadCount {
        Nullable<int> get();
        void set(Nullable<int> value);
    }
```

F#

```fsharp
member ParallelOperationThreadCount : Nullable<int>
```

VB

```vb
Public Property ParallelOperationThreadCount As Nullable\(Int32\)
```

Property Value

Type:

`System.Nullable<Int32>`

An integer value indicating the number of parallel blob upload operations that may proceed.
See Also

BlobRequestOptions Class

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See Also
Gets or sets the maximum size of a blob in bytes that may be uploaded as a single blob.

Syntax

**C#**
```
public Nullable<long> SingleBlobUploadThresholdInBytes {
    get;
    set;
}
```

**C++**
```
public:
property Nullable<long long> SingleBlobUploadThresholdInBytes {
    Nullable<long long> get();
    void set(Nullable<long long> value);
}
```

**F#**
```
member SingleBlobUploadThresholdInBytes : Nullable<int64>
```

**VB**
```
Public Property SingleBlobUploadThresholdInBytes
```

**Property Value**

Type: `System.Nullable<Int64>`

A long indicating the maximum size of a blob, in bytes, that may be uploaded as a single blob, ranging from between 1 and 64 MB inclusive.
See Also

BlobRequestOptions Class

Return to top
See Also
Gets or sets a value to indicate whether data written and read by the client library should be encrypted.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public Nullable<bool> RequireEncryption { get; }

C++  
public:
property Nullable<bool> RequireEncryption {
    virtual Nullable<bool> get() sealed;
    virtual void set(Nullable<bool> value);
}

F#  
abstract RequireEncryption : Nullable<bool> with
override RequireEncryption : Nullable<bool> with

VB  
Public Property RequireEncryption As Nullable(bool)

Property Value

Type:  
System.Nullable<Boolean>System::Nullable<Boolean>System::Nullable

Use true to specify that data should be encrypted/decrypted for all transactions; otherwise, false.

Implements
See Also

BlobRequestOptions Class

Return to top
BlobRequestOptions.RetryPolicy

Property BlobRequestOptions::RetryPolicy
Property BlobRequestOptions.RetryPolicy

See Also
Gets or sets the retry policy for the request.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://docs.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

**C#**

```csharp
public IRetryPolicy RetryPolicy { get; set; }
```

**C++**

```cpp
public:
property IRetryPolicy^ RetryPolicy {
    virtual IRetryPolicy^ get() sealed;
    virtual void set(IRetryPolicy^ value)
}
```

**F#**

```fsharp
abstract RetryPolicy : IRetryPolicy with get, set,
override RetryPolicy : IRetryPolicy with get, set,
```

**VB**

```vbnet
Public Property RetryPolicy As IRetryPolicy
```

## Property Value

Type:


An object of type `IRetryPolicy`.

## Implements
See Also

BlobRequestOptions Class

Return to top
BlobRequestOptions.ServerTimeout Property

See Also
Gets or sets the server timeout interval for the request.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public Nullable<TimeSpan> ServerTimeout { get; set; }
```

C++  
```cpp
public:
    property Nullable<TimeSpan> ServerTimeout {
        virtual Nullable<TimeSpan> get();
        virtual void set(Nullable<TimeSpan> value);
    }
```

F#  
```fsharp
abstract ServerTimeout : Nullable<TimeSpan> with override ServerTimeout : Nullable<TimeSpan> with
```

VB  
```vb
Public Property ServerTimeout As Nullable(Of TimeSpan)
```

Property Value

Type:
`System.Nullable<TimeSpan>`

A TimeSpan containing the server timeout interval for the request.

Implements
See Also

BlobRequestOptions Class

Return to top
BlobRequestOptions.StoreBlobContentMD5 C# C++ F# VB
Property BlobRequestOptions::StoreBlobContentMD5
Property BlobRequestOptions.StoreBlobContentMD5
Property BlobRequestOptions.StoreBlobContentMD5 Property
See Also
Syntax

C#  
```csharp
public Nullable<bool> StoreBlobContentMD5 { get; set; }
```

C++  
```cpp
public:
property Nullable<bool> StoreBlobContentMD5 {
    Nullable<bool> get();
    void set(Nullable<bool> value);
}
```

F#  
```fsharp
member StoreBlobContentMD5 : Nullable<bool> with
```

VB  
```vbnet
Public Property StoreBlobContentMD5 As Nullable<bool>
```

Property Value

Type:
```csharp
System.Nullable<Bool>
```
Remarks

This property is not supported for Windows Phone.
See Also

- BlobRequestOptions Class

Return to top
BlobRequestOptions.UseTransactionalMD5 Property

See Also
**Namespace:**  Microsoft.WindowsAzure.Storage.Blob

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
public Nullable<bool> UseTransactionalMD5 { get; set; }
```

**C++**

```cpp
public:
    property Nullable<bool> UseTransactionalMD5 { 
        Nullable<bool> get();
        void set(Nullable<bool> value);
    }
```

**F#**

```fsharp
member UseTransactionalMD5 : Nullable<bool> with
```

**VB**

```vbnet
Public Property UseTransactionalMD5 As Nullable(ByVal _Nullable__Nullable	System
```

**Property Value**

Type:

- `System.Nullable<Boolean>`
- `System::Nullable<Boolean>`
- `System.Nullable<bool>`
Remarks

This property is not supported for Windows Phone.
See Also

BlobRequestOptions Class

Return to top
BlobResultSegment.ContinuationToken
Property
BlobResultSegment::ContinuationToken
Property
BlobResultSegment.ContinuationToken
Property
See Also
Gets the continuation token used to retrieve the next segment of \n\texttt{IListBlobItem} results. Returns \texttt{null} if there are no more results.

\textbf{Namespace:} \hspace{1em} \texttt{Microsoft.WindowsAzure.Storage.Blob}  \\
\textbf{Assembly:} \hspace{1em} \texttt{Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)}
### Syntax

**C#**

```csharp
public BlobContinuationToken ContinuationToken {
    get;
}
```

**C++**

```cpp
public:
    property BlobContinuationToken^ ContinuationToken {
        BlobContinuationToken^ get();
        private: void set(BlobContinuationToken^ value);
    }
```

**F#**

```fsharp
member ContinuationToken : BlobContinuationToken
```

**VB**

```vbnet
Public Property ContinuationToken As BlobContinuationToken
    Get
    Private Set
End Property
```

### Property Value

Type:

  #](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage.blob.blobcontinuatontoken)

A `BlobContinuationToken` object.
See Also

BlobResultSegment Class

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**See Also**
Gets an enumerable collection of `ILlistBlobItem` results.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public IEnumerable<IListBlobItem> Results { get; }
```

C++

```cpp
public:

    property IEnumerable<IListBlobItem^>^ Results {
        IEnumerable<IListBlobItem^>^ get();
        private: void set(IEnumerable<IListBlobItem^>^ value);
    }
```

F#

```fsharp
member Results : IEnumerable<IListBlobItem> with
```

VB

```vbnet
Public Property Results As IEnumerable(Of IListBlobItem)
    Get
    Private Set
End Property
```

Property Value

Type:

```fsharp
System.Collections.Generic(IEnumerable<IListBlobItem>) System.Collections.Generic::IEnumerable
```

An enumerable collection of `IListBlobItem` objects.
See Also

BlobResultSegment Class

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See Also
Gets the blob item's container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
CloudBlobContainer Container { get; }
```

C++

```cpp
property CloudBlobContainer^ Container {
    CloudBlobContainer^ get();
}
```

F#

```fsharp
abstract Container : CloudBlobContainer with get
```

VB

```vbnet
ReadOnly Property Container As CloudBlobContainer
```

Property Value

Type:


A `CloudBlobContainer` object.
See Also

IListBlobItem Interface

Return to top
**ILBlobItem.Parent**

**Property**

**ILBlobItem::Parent**

**Property**

See Also
Gets the blob item's parent virtual directory.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
CloudBlobDirectory Parent { get; }

C++  
property CloudBlobDirectory^ Parent 
    CloudBlobDirectory^ get();

F#  
abstract Parent : CloudBlobDirectory with get

VB  
ReadOnly Property Parent As CloudBlobDirectory

Property Value

Type:  
A CloudBlobDirectory object.
See Also

IListBlobItem Interface

Return to top
IListBlobItem::StorageUri Property

See Also
GETS THE BLOB ITEM'S URIS FOR BOTH THE PRIMARY AND SECONDARY LOCATIONS.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

StorageUri StorageUri { get; }

C++

property StorageUri^ StorageUri {  
    StorageUri^ get();  
}

F#

abstract StorageUri : StorageUri with get

VB

ReadOnly Property StorageUri As StorageUri

Property Value

Type:

Microsoft.WindowsAzure.Storage.StorageUri

An object of type StorageUri containing the blob item's URIs for both the primary and secondary locations.
See Also

IListBlobItem Interface

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See Also
Gets the URI to the blob item, at the primary location.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
Uri Uri { get; }
```

C++  
```cpp
property Uri^ Uri { 
    Uri^ get();
}
```

F#  
```fsharp
abstract Uri : Uri with get
```

VB  
```vbnet
ReadOnly Property Uri As Uri
```

Property Value

Type: System.UriSystem::Uri^System.UriSystem.Uri
The Uri for the blob item.
See Also

IListBlobItem Interface

Return to top
CloudAppendBlob Constructor (StorageUri, Nullable<DateTimeOffset>, StorageCredentials)
(StorageUri, Nullable<DateTimeOffset>, StorageCredentials)
(StorageUri, Nullable(Of DateTimeOffset), StorageCredentials)

See Also
Initializes a new instance of the `CloudAppendBlob` class using an absolute URI to the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public CloudAppendBlob(
    StorageUri blobAbsoluteUri,
    Nullable<DateTimeOffset> snapshotTime,
    StorageCredentials credentials
)
```

C++  
```cpp
public:
CloudAppendBlob(
    StorageUri^ blobAbsoluteUri,
    Nullable<DateTimeOffset> snapshotTime,
    StorageCredentials^ credentials
)
```

F#  
```fsharp
new :
    blobAbsoluteUri:StorageUri *
    snapshotTime:Nullable<DateTimeOffset>*
    credentials:StorageCredentials -> Cloud
```

VB  
```vbnet
Public Sub New (  
    blobAbsoluteUri As StorageUri,
    snapshotTime As Nullable(Of DateTimeOffset),
    credentials As StorageCredentials
)
```
See Also

CloudAppendBlob Overload
CloudAppendBlob Class

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<th>CloudAppendBlob Constructor (Uri)(Uri^)(Uri)</th>
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Initializes a new instance of the `CloudAppendBlob` class using an absolute URI to the blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public CloudAppendBlob(
    Uri blobAbsoluteUri
)
```

C++  
```cpp
public:
CloudAppendBlob(
    Uri^ blobAbsoluteUri
)
```

F#  
```fsharp
new :
    blobAbsoluteUri:Uri -> CloudAppendBlob
```

VB  
```vbnet
Public Sub New (  
    blobAbsoluteUri As Uri
)
```

Parameters

`blobAbsoluteUri`  
Type: System.Uri

A Uri specifying the absolute URI to the blob.
See Also

CloudAppendBlob Overload
CloudAppendBlob Class

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CloudAppendBlob Constructor (Uri, Nullable<DateTimeOffset>, StorageCredentials)
(Uri^, Nullable<DateTimeOffset>, StorageCredentials^)(Uri, Nullable<DateTimeOffset>, StorageCredentials)(Uri, Nullable(Of DateTimeOffset), StorageCredentials)

See Also
Initializes a new instance of the CloudAppendBlob class using an absolute URI to the blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public CloudAppendBlob(
    Uri blobAbsoluteUri,
    Nullable<DateTimeOffset> snapshotTime,
    StorageCredentials credentials
)
```

C++

```cpp
public:
CloudAppendBlob(
    Uri^ blobAbsoluteUri,
    Nullable<DateTimeOffset> snapshotTime,
    StorageCredentials^ credentials
)
```

F#

```fsharp
new :
    blobAbsoluteUri:Uri *
    snapshotTime:Nullable<DateTimeOffset> *
    credentials:StorageCredentials -> CloudAppendBlob
```

VB

```vbnet
Public Sub New (  
    blobAbsoluteUri As Uri,  
    snapshotTime As Nullable(Of DateTimeOffset),  
    credentials As StorageCredentials  
)
See Also

CloudAppendBlob Overload
CloudAppendBlob Class

Return to top
CloudAppendBlob Constructor (Uri, StorageCredentials)(Uri, StorageCredentials)
(Uri^, StorageCredentials^)
(Uri, StorageCredentials)(Uri, StorageCredentials)

See Also
Initializes a new instance of the CloudAppendBlob class using an absolute URI to the blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

public CloudAppendBlob(
    Uri blobAbsoluteUri,
    StorageCredentials credentials
)

C++

public:
CloudAppendBlob(
    Uri^ blobAbsoluteUri,
    StorageCredentials^ credentials
)

F#

new :
    blobAbsoluteUri:Uri *
    credentials:StorageCredentials -> Cloud

VB

Public Sub New (  
    blobAbsoluteUri As Uri,  
    credentials As StorageCredentials
)

Parameters

blobAbsoluteUri
See Also

CloudAppendBlob Overload
CloudAppendBlob Class

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**CloudAppendBlob.StreamWriteSizeInBytes**

**C#**

**Property**

`CloudAppendBlob::StreamWriteSizeInBytes`

**Property**

`CloudAppendBlob.StreamWriteSizeInBytes`

**Property**

`CloudAppendBlob.StreamWriteSizeInBytes` **Property**

**See Also**
Gets or sets the number of bytes to buffer when writing to an append blob stream.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public int StreamWriteSizeInBytes { get; set; }
```

C++

```cpp
public:
property int StreamWriteSizeInBytes {
    virtual int get() sealed;
    virtual void set(int value) sealed;
}
```

F#

```fsharp
abstract StreamWriteSizeInBytes : int with get
override StreamWriteSizeInBytes : int with get
```

VB

```vbnet
Public Property StreamWriteSizeInBytes As Integer
```

Property Value

Type: `System.Int32`

The size of a block, in bytes, ranging from between 16 KB and 4 MB inclusive.

Implements
See Also

CloudAppendBlob Class

Return to top
CloudAppendBlob::..AppendBlockAsync Method
(Stream, String)(Stream^, String^)(Stream, String)(Stream, String)

See Also
Initiates an asynchronous operation to commit a new block of data to the end of the blob.

Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<long> AppendBlockAsync(
    Stream blockData,
    string contentMD5 = null
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<long long>^ AppendBlockAsync(
    Stream^ blockData,
    String^ contentMD5 = null
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract AppendBlockAsync : 
    blockData:Stream * 
    contentMD5:string = null -> Task<int64>

[<DoesServiceRequestAttribute>]
override AppendBlockAsync : 
    blockData:Stream * 
    contentMD5:string = null -> Task<int64>
```

VB

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function AppendBlockAsync (<
```
Remarks

Clients may send the Content-MD5 header for a given Append Block operation as a means to ensure transactional integrity over the wire. The contentMD5 parameter permits clients who already have access to a pre-computed MD5 value for a given byte range to provide it. If the `P:BlobRequestOptions.UseTransactionalMd5` Referenced topic's target id should not be empty, Article id: b943c0a2-7750-4f23-aa15-3c124cace28c, link: `P:BlobRequestOptions.UseTransactionalMd5`, property is set to true and the contentMD5 parameter is set to null, then the client library will calculate the MD5 value internally.
See Also

AppendBlockAsync_Overload
CloudAppendBlob Class

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CloudAppendBlob:::...AppendBlockAsync Method

C#  
C++  
F#  
VB

(Stream, String, AccessCondition, 
BlobRequestOptions, OperationContext)(Stream^, String^, 
AccessCondition^, BlobRequestOptions^, OperationContext^)

See Also
Initiates an asynchronous operation to commit a new block of data to the end of the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task<long> AppendBlockAsync(
    Stream blockData,
    string contentMD5,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<long long>^ AppendBlockAsync(
    Stream^ blockData,
    String^ contentMD5,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract AppendBlockAsync :
    blockData:Stream  *
    contentMD5:string  *
    accessCondition:AccessCondition  *
    options:BlobRequestOptions  *
    operationContext:OperationContext  *
```
Remarks

Clients may send the Content-MD5 header for a given Append Block operation as a means to ensure transactional integrity over the wire. The contentMD5 parameter permits clients who already have access to a pre-computed MD5 value for a given byte range to provide it. If the P:BlobRequestOptions.UseTransactionalMd5Referenced topic's target id should not be empty. Article id: 2ed7eb05-d99d-496c-b7c8-f74edf7181b9, link: P:BlobRequestOptions.UseTransactionalMd5, property is set to true and the contentMD5 parameter is set to null, then the client library will calculate the MD5 value internally.
See Also

- AppendBlockAsync_Overload
- CloudAppendBlob Class

Return to top
See Also
Initiates an asynchronous operation to commit a new block of data to the end of the blob.

Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task<long> AppendBlockAsync(
    Stream blockData,
    string contentMD5,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<long long>^ AppendBlockAsync(
    Stream^ blockData,
    String^ contentMD5,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract AppendBlockAsync :
    blockData:Stream *
    contentMD5:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken * -> Task<int64>
```
Remarks

Clients may send the Content-MD5 header for a given Append Block operation as a means to ensure transactional integrity over the wire. The contentMD5 parameter permits clients who already have access to a pre-computed MD5 value for a given byte range to provide it. If the P:BlobRequestOptions.UseTransactionalMd5Referenced topic's target id should not be empty. Article id: 5895296e-eec7-4324-b71c-493ced07fb95, link: P:BlobRequestOptions.UseTransactionalMd5, property is set to true and the contentMD5 parameter is set to null, then the client library will calculate the MD5 value internally.
See Also

AppendBlockAsync_Overload
CloudAppendBlob Class

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CloudAppendBlob:::AppendBlockAsync Method

See Also
Initiates an asynchronous operation to commit a new block of data to the end of the blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task<long> AppendBlockAsync(
    Stream blockData,
    string contentMD5,
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<long long>^ AppendBlockAsync(
    Stream^ blockData,
    String^ contentMD5,
    CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract AppendBlockAsync :
    blockData:Stream *
    contentMD5:string *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override AppendBlockAsync :
    blockData:Stream *
    contentMD5:string *
    cancellationToken:CancellationToken ->
Remarks

Clients may send the Content-MD5 header for a given Put Block operation as a means to ensure transactional integrity over the wire. The contentMD5 parameter permits clients who already have access to a pre-computed MD5 value for a given byte range to provide it. If the `P:BlobRequestOptions.UseTransactionalMd5` property is set to `true` and the contentMD5 parameter is set to `null`, then the client library will calculate the MD5 value internally.
See Also

AppendBlockAsync Overload
CloudAppendBlob Class

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<tr>
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<td>CloudAppendBlob:::AppendFromByteArrayAsync</td>
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<tr>
<td>VB</td>
<td>CloudAppendBlob:::AppendFromByteArrayAsync</td>
<td>array[Byte], Int32, Int32</td>
</tr>
</tbody>
</table>

See Also
Initiates an asynchronous operation to append the contents of a byte array to an append blob. Recommended only for single-writer scenarios.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task AppendFromByteArrayAsync(
    byte[] buffer,
    int index,
    int count
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ AppendFromByteArrayAsync(
    array<unsigned char>^ buffer,
    int index,
    int count
)

F#

[<DoesServiceRequestAttribute>]
abstract AppendFromByteArrayAsync :
    buffer:byte[] *
    index:int *
    count:int -> Task

[<DoesServiceRequestAttribute>]
override AppendFromByteArrayAsync :
    buffer:byte[] *
    index:int *
    count:int -> Task
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios.
See Also

AppendFromByteArrayAsync overloaded
CloudAppendBlob Class

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CloudAppendBlob:::AppendFromByteArrayAsync(C#, C++, F#, VB)
See Also
Initiates an asynchronous operation to append the contents of a byte array to an append blob. This API should be used strictly in a single writer scenario because the API internally uses the append-offset conditional header to avoid duplicate blocks which does not work in a multiple writer scenario.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task AppendFromByteArrayAsync(
    byte[] buffer,
    int index,
    int count,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ AppendFromByteArrayAsync(
    array<unsigned char>^ buffer,
    int index,
    int count,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#

[<DoesServiceRequestAttribute>]
abstract AppendFromByteArrayAsync :
    buffer:byte[] *
    index:int *
    count:int *
Remarks

If you have a single-writer scenario, see [AbsorbConditionalErrorsOnRetry](#AbsorbConditionalErrorsOnRetry) to determine whether setting this flag to true is acceptable for your scenario.
See Also

AppendFromByteArrayAsync Overload
CloudAppendBlob Class

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CloudAppendBlob:::AppendFromByteArrayAsync C#++F#VB
Method (Byte[], Int32, Int32, AccessCondition,
BlobRequestOptions, OperationContext, CancellationToken)
(array<Byte>^, Int32, Int32, AccessCondition^,
BlobRequestOptions^, OperationContext^, CancellationToken)
(Byte[], Int32, Int32, AccessCondition, BlobRequestOptions,
OperationContext, CancellationToken)(Byte(), Int32, Int32,
AccessCondition, BlobRequestOptions, OperationContext,
CancellationToken)
See Also
Initiates an asynchronous operation to upload the contents of a byte array to an append blob. This API should be used strictly in a single writer scenario because the API internally uses the append-offset conditional header to avoid duplicate blocks which does not work in a multiple writer scenario.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task AppendFromByteArrayAsync(
    byte[] buffer,
    int index,
    int count,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ AppendFromByteArrayAsync(
    array<unsigned char>^ buffer,
    int index,
    int count,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract AppendFromByteArrayAsync :
    buffer:byte[] *
```

Remarks

If you have a single-writer scenario, see AbsorbConditionalErrorsOnRetry to determine whether setting this flag to true is acceptable for your scenario.
See Also

AppendFromByteArrayAsync_Overload
CloudAppendBlob Class

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CloudAppendBlob::<...AppendFromByteArrayAsync

C# C++ F# VB

Method (Byte[], Int32, Int32, CancellationToken)


See Also
Initiates an asynchronous operation to append the contents of a byte array to an append blob. Recommended only for single-writer scenarios.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task AppendFromByteArrayAsync(
    byte[] buffer,
    int index,
    int count,
    CancellationToken cancellationToken
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ AppendFromByteArrayAsync(
    array<unsigned char>^ buffer,
    int index,
    int count,
    CancellationToken cancellationToken
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract AppendFromByteArrayAsync :
    buffer:byte[] *
    index:int *
    count:int *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override AppendFromByteArrayAsync :
    buffer:byte[] *
```
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios.
See Also

AppendFromByteArrayAsync_Overload
CloudAppendBlob Class

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See Also
Initiates an asynchronous operation to append a file to an append blob. Recommended only for single-writer scenarios.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task AppendFromFileAsync(
    string path
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ AppendFromFileAsync(
    String^ path
)

F#

[<DoesServiceRequestAttribute>]
abstract AppendFromFileAsync : path:string -> Task
[<DoesServiceRequestAttribute>]
override AppendFromFileAsync : path:string -> Task

VB

<DoesServiceRequestAttribute>
Public Overridable Function AppendFromFileAsync(
    path As String
) As Task
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios.
See Also

AppendFromFileSync_Overload
CloudAppendBlob Class

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CloudAppendBlob:::AppendFromFileAsync Method (String, AccessCondition, BlobRequestOptions, OperationContext)(String^, AccessCondition^, BlobRequestOptions^, OperationContext^) (String, AccessCondition, BlobRequestOptions, OperationContext)(String, AccessCondition, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to append a file to an append blob. Recommended only for single-writer scenarios.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task AppendFromFileAsync(
    string path,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ AppendFromFileAsync(
    String^ path,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract AppendFromFileAsync :
    path:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task

[<DoesServiceRequestAttribute>]
override AppendFromFileAsync :
    path:string *
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see AbsorbConditionalErrorsOnRetry to determine whether setting this flag to true is acceptable for your scenario.
See Also

AppendFromFileAsync Overload
CloudAppendBlob Class

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CloudAppendBlob:::AppendFromFileAsync
Method (String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(String^, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)(String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to append a file to an append blob. Recommended only for single-writer scenarios.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task AppendFromFileAsync(  
    string path,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++  
public:  
[DoesServiceRequestAttribute]
virtual Task^ AppendFromFileAsync(  
    String^ path,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#  
[<DoesServiceRequestAttribute>]
abstract AppendFromFileAsync :  
    path:string *  
    accessCondition:AccessCondition *  
    options:BlobRequestOptions *  
    operationContext:OperationContext *  
    cancellationToken:CancellationToken *
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see AbsorbConditionalErrorsOnRetry to determine whether setting this flag to true is acceptable for your scenario.
See Also

AppendFromFileAsync Overload
CloudAppendBlob Class

Return to top
See Also
Initiates an asynchronous operation to append a file to an append blob. Recommended only for single-writer scenarios.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task AppendFromFileAsync(
    string path,
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ AppendFromFileAsync(
    String^ path,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract AppendFromFileAsync :
    path:string *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override AppendFromFileAsync :
    path:string *
    cancellationToken:CancellationToken ->
```

VB

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function AppendFromFileAsync
```
**Remarks**

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios.
See Also

AppendFromFileSync_Overload
CloudAppendBlob Class

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CloudAppendBlob::AppendFromStreamAsync Method (Stream)(Stream^)(Stream)(Stream)

See Also
Initiates an asynchronous operation to append a stream to an append blob. Recommended only for single-writer scenarios.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/Azure/azure-storage-dotnet)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task AppendFromStreamAsync(
    Stream source
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ AppendFromStreamAsync(
    Stream^ source
)

F#

[<DoesServiceRequestAttribute>]
abstract AppendFromStreamAsync : 
    source:Stream -> Task
[<DoesServiceRequestAttribute>]
override AppendFromStreamAsync : 
    source:Stream -> Task

VB

<DoesServiceRequestAttribute>
Public Overridable Function AppendFromStreamAs	
    source As Stream
) As Task
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios.
See Also

- AppendFromStreamAsync Overload
- CloudAppendBlob Class

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CloudAppendBlob:::AppendFromStreamAsync C#C++F#VB

Method (Stream, AccessCondition, BlobRequestOptions, OperationContext)(Stream^, AccessCondition^, BlobRequestOptions^, OperationContext^)

See Also
Initiates an asynchronous operation to append a stream to an append blob. Recommended only for single-writer scenarios.

Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task AppendFromStreamAsync(
    Stream source,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task^ AppendFromStreamAsync(
    Stream^ source,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#  

[<DoesServiceRequestAttribute>]
abstract AppendFromStreamAsync : 
    source:Stream *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> T

[<DoesServiceRequestAttribute>]
override AppendFromStreamAsync : 
    source:Stream *
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see AbsorbConditionalErrorsOnRetry to determine whether setting this flag to true is acceptable for your scenario.
See Also

AppendFromStreamAsync Overload
CloudAppendBlob Class

Return to top
CloudAppendBlob:::AppendFromStreamAsync Method (Stream, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to append a stream to an append blob. Recommended only for single-writer scenarios.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task AppendFromStreamAsync(
    Stream source,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task^ AppendFromStreamAsync(
    Stream^ source,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#  

[<DoesServiceRequestAttribute>]
abstract AppendFromStreamAsync :
    source:Stream  *
    accessCondition:AccessCondition  *
    options:BlobRequestOptions  *
    operationContext:OperationContext  *
    cancellationToken:CancellationToken  ->  Task
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see AbsorbConditionalErrorsOnRetry to determine whether setting this flag to true is acceptable for your scenario.
See Also

AppendFromStreamAsync Overload
CloudAppendBlob Class

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See Also
Initiates an asynchronous operation to append a stream to an append blob. Recommended only for single-writer scenarios.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task AppendFromStreamAsync(
    Stream source,
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ AppendFromStreamAsync(
    Stream^ source,
    CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract AppendFromStreamAsync :
    source:Stream *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override AppendFromStreamAsync :
    source:Stream *
    cancellationToken:CancellationToken ->

VB

<DoesServiceRequestAttribute>
Public Overridable Function AppendFromStreamAs...
**Remarks**

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios.
See Also

 AppendixFromStreamAsync_Overload
 CloudAppendBlob Class

Return to top
CloudAppendBlob:::AppendFromStreamAsync

Method (Stream, Int64)(Stream^, Int64)(Stream, Int64)

See Also
Initiates an asynchronous operation to append a stream to an append blob. Recommended only for single-writer scenarios.

**Namespace:** [Microsoft.WindowsAzure.Storage.Blob](https://www.microsoft.com)

**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#:

```csharp
[DoesServiceRequestAttribute]
public virtual Task AppendFromStreamAsync(
    Stream source,
    long length
)
```

C++:

```cpp
public:
    [DoesServiceRequestAttribute]
virtual Task^ AppendFromStreamAsync(
    Stream^ source,
    long long length
)
```

F#:

```fsharp
[<DoesServiceRequestAttribute>]
abstract AppendFromStreamAsync : 
    source:Stream * 
    length:int64 -> Task 

[<DoesServiceRequestAttribute>]
override AppendFromStreamAsync : 
    source:Stream * 
    length:int64 -> Task
```

VB:

```vb
<DoesServiceRequestAttribute>
Public Overridable Function AppendFromStreamAsync As 
```
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios.
See Also

- AppendFromStreamAsync overloaded
- CloudAppendBlob Class

Return to top
CloudAppendBlob::AppendFromStreamAsync Method
(Stream, Int64, AccessCondition,
BlobRequestOptions, OperationContext)(Stream^, Int64,
AccessCondition^, BlobRequestOptions^, OperationContext^)
(Stream, Int64, AccessCondition, BlobRequestOptions,
OperationContext)(Stream, Int64, AccessCondition,
BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to append a stream to an append blob. Recommended only for single-writer scenarios.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task AppendFromStreamAsync(
    Stream source,
    long length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ AppendFromStreamAsync(
    Stream^ source,
    long long length,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#

[<DoesServiceRequestAttribute>]
abstract AppendFromStreamAsync :
    source:Stream *
    length:int64 *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see `AbsorbConditionalErrorsOnRetry` to determine whether setting this flag to `true` is acceptable for your scenario.
See Also

AppendFromStreamAsync overload
CloudAppendBlob Class

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CloudAppendBlob::AppendFromStreamAsync

See Also
Initiates an asynchronous operation to append a stream to an append blob. Recommended only for single-writer scenarios.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```
[DoesServiceRequestAttribute]
public virtual Task AppendFromStreamAsync(
    Stream source,
    long length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken)
```

C++  
```
public:
[DoesServiceRequestAttribute]
virtual Task^ AppendFromStreamAsync(
    Stream^ source,
    long length,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken)
```

F#  
```
[<DoesServiceRequestAttribute>]
abstract AppendFromStreamAsync :
    source:Stream *
    length:int64 *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationType:CancellationToken *
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see AbsorbConditionalErrorsOnRetry to determine whether setting this flag to true is acceptable for your scenario.
See Also

- AppendFromStreamAsync_Overload
- CloudAppendBlob Class

Return to top
CloudAppendBlob..::..AppendFromStreamAsync (Stream, Int64, CancellationToken) (Stream^, Int64, CancellationToken) (Stream, Int64, CancellationToken) (Stream, Int64, CancellationToken)

See Also
Initiates an asynchronous operation to append a stream to an append blob. Recommended only for single-writer scenarios.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task AppendFromStreamAsync(
    Stream source,
    long length,
    CancellationToken cancellationToken
)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task^ AppendFromStreamAsync(
    Stream^ source,
    long long length,
    CancellationToken cancellationToken
)

F#  

[<DoesServiceRequestAttribute>]
abstract AppendFromStreamAsync :
    source:Stream *
    length:int64 *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override AppendFromStreamAsync :
    source:Stream *
    length:int64 *
    cancellationToken:CancellationToken ->
**Remarks**

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios.
See Also

AppendFromStreamAsync Overload
CloudAppendBlob Class

Return to top
CloudAppendBlob:::..AppendTextAsync Method (String)(String^)(String)(String)

See Also
Initiates an asynchronous operation to append a string of text to an append blob. This API should be used strictly in a single writer scenario because the API internally uses the append-offset conditional header to avoid duplicate blocks which does not work in a multiple writer scenario.

Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task AppendTextAsync(
    string content
)
```

C++  

```
public:
[DoesServiceRequestAttribute]
virtual Task^ AppendTextAsync(
    String^ content
)
```

F#  

```
[<DoesServiceRequestAttribute>]
abstract AppendTextAsync : content:string -> Task
[<DoesServiceRequestAttribute>]
override AppendTextAsync : content:string -> Task
```

VB  

```
<DoesServiceRequestAttribute>
Public Overridable Function AppendTextAsync (content As String) As Task
```
See Also

AppendTextAsync_Overload
CloudAppendBlob Class

Return to top
CloudAppendBlob:::AppendTextAsync Method

C# C++ F# VB

(String, CancellationToken)(String^, CancellationToken)(String, CancellationToken)(String, CancellationToken)

See Also
Initiates an asynchronous operation to append a string of text to an append blob. This API should be used strictly in a single writer scenario because the API internally uses the append-offset conditional header to avoid duplicate blocks which does not work in a multiple writer scenario.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task AppendTextAsync(
    string content,
    CancellationToken cancellationToken
)
```

C++  

```c++
public:
[DoesServiceRequestAttribute]
virtual Task^ AppendTextAsync(
    String^ content,
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract AppendTextAsync :
    content:string *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override AppendTextAsync :
    content:string *
    cancellationToken:CancellationToken ->
```

VB  

```vb
<DoesServiceRequestAttribute>
Public Overridable Function AppendTextAsync (    content As String,    cancellationToken As CancellationToken
) As Task
```
See Also

AppendTextAsync_Overload
CloudAppendBlob Class

Return to top
CloudAppendBlob:::AppendTextAsync Method

C# C++ F# VB

(String, Encoding, AccessCondition, BlobRequestOptions, OperationContext)(String^, Encoding^, AccessCondition^, BlobRequestOptions^, OperationContext^)

See Also
Initiates an asynchronous operation to append a string of text to an append blob. This API should be used strictly in a single writer scenario because the API internally uses the append-offset conditional header to avoid duplicate blocks which does not work in a multiple writer scenario.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```
[DoesServiceRequestAttribute]
public virtual Task AppendTextAsync(
    string content,
    Encoding encoding,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext)
```

**C++**

```
public:
[DoesServiceRequestAttribute]
virtual Task^ AppendTextAsync(
    String^ content,
    Encoding^ encoding,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext)
```

**F#**

```
[<DoesServiceRequestAttribute>]
abstract AppendTextAsync :
    content:string *
    encoding:Encoding *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task
```
Remarks

If you have a single-writer scenario, see AbsorbConditionalErrorsOnRetry to determine whether setting this flag to true is acceptable for your scenario.
See Also

AppendTextAsync_Overload
CloudAppendBlob Class

Return to top
CloudAppendBlob:::AppendTextAsync Method

C# C++ F# VB

[String, Encoding, AccessCondition,
BlobRequestOptions, OperationContext, CancellationToken]
(String^, Encoding^, AccessCondition^,
BlobRequestOptions^, OperationContext^, CancellationToken)
(String, Encoding, AccessCondition, BlobRequestOptions,
OperationContext, CancellationToken)(String, Encoding,
AccessCondition, BlobRequestOptions, OperationContext,
CancellationToken)

See Also
Initiates an asynchronous operation to append a string of text to an append blob. This API should be used strictly in a single writer scenario because the API internally uses the append-offset conditional header to avoid duplicate blocks which does not work in a multiple writer scenario.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task AppendTextAsync(
    string content,
    Encoding encoding,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ AppendTextAsync(
    String^ content,
    Encoding^ encoding,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract AppendTextAsync :
    content:string *
    encoding:Encoding *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellation:OperationContext -> Task
```
Remarks

If you have a single-writer scenario, see AbsorbConditionalErrorsOnRetry to determine whether setting this flag to true is acceptable for your scenario.
See Also

AppendTextAsync_Overload
CloudAppendBlob Class

Return to top
**CloudAppendBlob.::BeginAppendBlock Method**

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See Also
Begins an asynchronous operation to commit a new block of data to the end of the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginAppendBlock(
    Stream blockData,
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginAppendBlock(
    Stream* blockData,
    AsyncCallback* callback,
    Object* state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginAppendBlock : 
    blockData:Stream ->
    callback:AsyncCallback ->
    state:Object ->
    ICancellableAsyncResult
```

```fsharp
[<DoesServiceRequestAttribute>]
override BeginAppendBlock : 
    blockData:Stream ->
    callback:AsyncCallback ->
    state:Object ->
    ICancellableAsyncResult
```
See Also

BeginAppendBlock_Overload  
CloudAppendBlob Class  

Return to top
CloudAppendBlob::BeginAppendBlock Method

C#  
C++  
F#  
VB

(Stream, String, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)
(Stream^, String^, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)
(Stream, String, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)
(Stream, String, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to commit a new block of data to the end of the blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginAppendBlock(
    Stream blockData,
    string contentMD5,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

**C++**

```cpp
public:
    [DoesServiceRequestAttribute]
    virtual ICancellableAsyncResult^ BeginAppendBlock(
    Stream^ blockData,
    String^ contentMD5,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
    )
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginAppendBlock : 
    blockData:Stream 
```
Remarks

Clients may send the Content-MD5 header for a given Append Block operation as a means to ensure transactional integrity over the wire. The contentMD5 parameter permits clients who already have access to a pre-computed MD5 value for a given byte range to provide it. If the P:BlobRequestOptions.UseTransactionalMd5Referenced topic's target id should not be empty. Article id: 4e06fe81-5c38-4694-b8ac-05f1d1827621, link: P:BlobRequestOptions.UseTransactionalMd5, property is set to true and the contentMD5 parameter is set to null, then the client library will calculate the MD5 value internally.
See Also

BeginAppendBlock_Overload
CloudAppendBlob Class

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</table>
Begins an asynchronous operation to commit a new block of data to the end of the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginAppendBlock(
    Stream blockData,
    string contentMD5,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginAppendBlock(
    Stream^ blockData,
    String^ contentMD5,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginAppendBlock :
    blockData:Stream *
    contentMD5:string *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginAppendBlock :
    blockData:Stream *
```
Remarks

Clients may send the Content-MD5 header for a given Append Block operation as a means to ensure transactional integrity over the wire. The contentMD5 parameter permits clients who already have access to a pre-computed MD5 value for a given byte range to provide it. If the P:BlobRequestOptions.UseTransactionalMd5Referenced topic's target id should not be empty. Article id: 91df60a0-dc15-4330-81e9-c6402b9aa2f7, link: P:BlobRequestOptions.UseTransactionalMd5, property is set to true and the contentMD5 parameter is set to null, then the client library will calculate the MD5 value internally.
See Also

BeginAppendBlock Overload
CloudAppendBlob Class

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See Also
Begins an asynchronous operation to append the contents of a byte array to an append blob. Recommended only for single-writer scenarios.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](#)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginAppendFromByteArray(
    byte[] buffer,
    int index,
    int count,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++

public:

[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginAppendFromByteArray(
    array<unsigned char>^ buffer,
    int index,
    int count,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]
abstract BeginAppendFromByteArray : buffer:byte[] *
index:int *
count:int *
accessCondition:AccessCondition *
options:BlobRequestOptions *
operationContext:OperationContext *
callback:AsyncCallback *
state:Object *
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see AbsorbConditionalErrorsOnRetry to determine whether setting this flag to true is acceptable for your scenario.
See Also

BeginAppendFromByteArray_Overload
CloudAppendBlob Class

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CloudAppendBlob:::BeginAppendFromByteArray

C#:

```csharp
Method (Byte[], Int32, Int32, AsyncCallback, Object)(array<Byte>^, Int32, Int32, AsyncCallback^, Object^)
(Byte[], Int32, Int32, AsyncCallback, Object)(Byte(), Int32, Int32, AsyncCallback, Object)
```

See Also
Begins an asynchronous operation to append the contents of a byte array to an append blob. Recommended only for single-writer scenarios.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

### C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginAppendFromByteArray(byte[] buffer,
    int index,
    int count,
    AsyncCallback callback,
    object state)
```

### C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginAppendFromByteArray(
    array<unsigned char>* buffer,
    int index,
    int count,
    AsyncCallback* callback,
    Object* state)
```

### F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginAppendFromByteArray : 
    buffer:byte[] *
    index:int *
    count:int *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```

---

*Note: The images contain additional code fragments which are not shown here.*
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios.
See Also

BeginAppendFromByteArray_Overload
CloudAppendBlob Class

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See Also
Begins an asynchronous operation to append a file to an append blob. Recommended only for single-writer scenarios.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginAppendFromFile(
    string path,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginAppendFromFile(
    String^ path,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginAppendFromFile :
    path:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
```
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see AbsorbConditionalErrorsOnRetry to determine whether setting this flag to true is acceptable for your scenario.
See Also

BeginAppendFromFile Overload
CloudAppendBlob Class

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See Also
Begins an asynchronous operation to append a file to an append blob. Recommended only for single-writer scenarios.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginAppendFromFile(
    string path,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
    [DoesServiceRequestAttribute]
    virtual ICancellableAsyncResult^ BeginAppendFromFile(
        String^ path,
        AsyncCallback^ callback,
        Object^ state
    )
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginAppendFromFile :
    path:string *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginAppendFromFile :
    path:string *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see AbsorbConditionalErrorsOnRetry to determine whether setting this flag to true is acceptable for your scenario.
See Also

- BeginAppendFromFile Overload
- CloudAppendBlob Class

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See Also
Begins an asynchronous operation to append a stream to an append blob. Recommended only for single-writer scenarios.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginAppendFromStream(
    Stream source,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++  
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginAppendFromStream(
    Stream^ source,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#  
[<DoesServiceRequestAttribute>]
abstract BeginAppendFromStream :
    source:Stream *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see AbsorbConditionalErrorsOnRetry to determine whether setting this flag to \texttt{true} is acceptable for your scenario.
See Also

- **BeginAppendFromStream Overload**
- **CloudAppendBlob Class**
- **Microsoft.WindowsAzure.Storage.Blob Namespace**

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CloudAppendBlob:::BeginAppendFromStream

Method (Stream, AsyncCallback, Object)
(Stream^, AsyncCallback^, Object^)(Stream, AsyncCallback, Object)(Stream, AsyncCallback, Object)

See Also
Begins an asynchronous operation to append a stream to an append blob. Recommended only for single-writer scenarios.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginAppendFromStream(
    Stream source,
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginAppendFromStream(
    Stream* source,
    AsyncCallback* callback,
    Object* state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginAppendFromStream : 
    source:Stream -> 
    callback:AsyncCallback -> 
    state:Object -> ICancellableAsyncResult;

[<DoesServiceRequestAttribute>]
override BeginAppendFromStream : 
    source:Stream -> 
    callback:AsyncCallback -> 
    state:Object -> ICancellableAsyncResult;
```
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios.
See Also

- `BeginAppendFromStream_Overload`
- `CloudAppendBlob Class`

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See Also
Begins an asynchronous operation to append a stream to an append blob. Recommended only for single-writer scenarios.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginAppendFromStream(
    Stream source,
    long length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginAppendFromStream(
    Stream^ source,
    long long length,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]
abstract BeginAppendFromStream : 
    source:Stream *
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see `AbsorbConditionalErrorsOnRetry` to determine whether setting this flag to `true` is acceptable for your scenario.
See Also

BeginAppendFromStream Overload
CloudAppendBlob Class

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CloudAppendBlob..::.BeginAppendFromStream

Method (Stream, Int64, AsyncCallback, Object)
(Stream^, Int64, AsyncCallback^, Object^)(Stream, Int64, AsyncCallback, Object)(Stream, Int64, AsyncCallback, Object)

See Also
Begins an asynchronous operation to append a stream to an append blob. Recommended only for single-writer scenarios.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginAppendFromStream(
    Stream source,
    long length,
    AsyncCallback callback,
    object state
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginAppendFromStream(
    Stream^ source,
    __int64 length,
    AsyncCallback^ callback,
    Object^ state
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginAppendFromStream :
    source:Stream *
    length:int64 *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginAppendFromStream :
    source:Stream *
```
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios.
See Also

BeginAppendFromStream Overload
CloudAppendBlob Class

Return to top
CloudAppendBlob::BeginAppendText Method

C# C++ F# VB

(String, AsyncCallback, Object)(String^,
AsyncCallback^, Object^)

See Also
Begins an asynchronous operation to append a string of text to an append blob. This API should be used strictly in a single writer scenario because the API internally uses the append-offset conditional header to avoid duplicate blocks which does not work in a multiple writer scenario.

**Namespace:**  **Microsoft.WindowsAzure.Storage.Blob**

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginAppendText(
    string content,
    AsyncCallback callback,
    object state
)

C++  
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginAppendText(
    String* content,
    AsyncCallback* callback,
    Object* state
)

F#  
[<DoesServiceRequestAttribute>]  
abstract BeginAppendText :
    content:string *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]  
override BeginAppendText :
    content:string *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
See Also

BeginAppendText_Overload
CloudAppendBlob Class

Return to top
CloudAppendBlob::BeginAppendText Method
(String, Encoding, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)

C#++F#VB

See Also
Begins an asynchronous operation to append a string of text to an append blob. This API should be used strictly in a single writer scenario because the API internally uses the append-offset conditional header to avoid duplicate blocks which does not work in a multiple writer scenario.

**Namespace:**  

**Assembly:**  
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginAppendText(
    string content,
    Encoding encoding,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginAppendText(
    String^ content,
    Encoding^ encoding,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginAppendText :
    content: string *
    encoding: Encoding *
    accessCondition: AccessCondition *
    options: BlobRequestOptions *
    operationContext: OperationContext *
    callback: AsyncCallback *
    state: object *
```
Remarks

If you have a single-writer scenario, see
AbsorbConditionalErrorsOnRetryAbsorbConditionalErrorsOnRetryAbsorb
AbsorbConditionalErrorsOnRetry
AbsorbConditionalErrorsOnRetry
AbsorbConditionalErrorsOnRetry
AbsorbConditionalErrorsOnRetry
AbsorbConditionalErrorsOnRetry
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AbsorbConditionalErrorsOnRetry
AbsorbConditionalErrorsOnRetry
AbsorbConditionalErrorsOnRetry
AbsorbConditionalErrorsOnRetry
AbsorbConditionalErrorsOnRetry

to determine whether setting this flag to true is acceptable for your scenario.
See Also

BeginAppendText_Overload
CloudAppendBlob Class

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See Also
Begins an asynchronous operation to create an empty append blob. If the blob already exists, this operation will overwrite it. To throw an exception if the blob exists, instead of overwriting, pass in an `AccessCondition` object generated using `GenerateIfNotExistsCondition`.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginCreateOrReplace(AccessCondition accessCondition, BlobRequestOptions options, OperationContext operationContext, AsyncCallback callback, object state)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginCreateOrReplace(AccessCondition* accessCondition, BlobRequestOptions* options, OperationContext* operationContext, AsyncCallback* callback, Object* state)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginCreateOrReplace :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object * -> ICancellableAsyncResult
```
See Also

- BeginCreateOrReplace_Overload
- CloudAppendBlob Class

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

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://github.com/MicrosoftDocs/)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System:::Object
   Microsoft.WindowsAzure.Storage:::AccessCondition
Syntax

C#

```c#
public sealed class AccessCondition
```

C++

```cpp
public ref class AccessCondition sealed
```

F#

```fsharp
[<Sealed>]
type AccessCondition = class end
```

VB

```vbnet
Public NotInheritable Class AccessCondition
```
## Constructors

<table>
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<tr>
<th>Name</th>
<th>Description</th>
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<tr>
<td>AccessCondition()()()</td>
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</table>
IfAppendPositionEqual
IfAppendPositionEqual
IfAppendPositionEqual
IfAppendPositionEqual
IfMatchETag
IfMatchETag
IfMatchETag
IfMatchETag
IfMatchETag
## Methods

<table>
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<tr>
<td>Equals(Object)(Object^)(Object)(Object)</td>
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<td>GenerateEmptyCondition()()()()</td>
</tr>
<tr>
<td>GenerateIfAppendPositionEqualCondition(Int64)(Int64)(Int64)(Int64)</td>
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</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.
See Also

Microsoft.WindowsAzure.Storage Namespace

Return to top
AccessCondition.:::GenerateIfNotExistsCondition
Method ()()()

See Also
Constructs an access condition such that an operation will be performed only if the resource does not exist.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public static AccessCondition GenerateIfNotExistsCondition();

C++
public:
static AccessCondition^ GenerateIfNotExistsCondition();

F#
static member GenerateIfNotExistsCondition : unit -> AccessCondition

VB
Public Shared Function GenerateIfNotExistsCondition() As AccessCondition

Return Value

Type: Microsoft.WindowsAzure.Storage.AccessCondition
An AccessCondition object that represents a condition where a resource does not exist.
Remarks

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

AccessCondition Class
Microsoft.WindowsAzure.Storage Namespace

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See Also
Begins an asynchronous operation to create an empty append blob. If the blob already exists, this operation will overwrite it. To throw an exception if the blob exists, instead of overwriting, use `BeginCreateOrReplace`.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginCreateOrReplace(AsyncCallback callback, object state)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginCreateOrReplace(AsyncCallback^ callback, Object^ state)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginCreateOrReplace : callback:AsyncCallback * state:Object -> ICancellableAsyncResult
[<DoesServiceRequestAttribute>]
override BeginCreateOrReplace : callback:AsyncCallback * state:Object -> ICancellableAsyncResult
```

VB  

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function BeginCreateOrReplace
```
See Also

BeginCreateOrReplace_Overload
CloudAppendBlob Class

Return to top
CloudAppendBlob::BeginCreateSnapshot Method

C#  C++  F#  VB
(AsyncCallback, Object)(AsyncCallback^, Object^)(AsyncCallback, Object)(AsyncCallback, Object)

See Also
Begins an asynchronous operation to create a snapshot of the blob.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C# [DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginCreateSnapshot(AsyncCallback callback, object state)
)

C++ [DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginCreateSnapshot(AsyncCallback^ callback, Object^ state)
)

F# [<DoesServiceRequestAttribute>]
abstract BeginCreateSnapshot : 
    callback:AsyncCallback ^
    state:Object -> ICancellableAsyncResult
[<DoesServiceRequestAttribute>]
override BeginCreateSnapshot : 
    callback:AsyncCallback ^
    state:Object -> ICancellableAsyncResult

VB [DoesServiceRequestAttribute]
Public Overridable Function BeginCreateSnapshot

See Also

- BeginCreateSnapshot Overload
- CloudAppendBlob Class

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CloudAppendBlob::..BeginCreateSnapshot Method
(IDictionary<String, String>, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(IDictionary<String^, String^>, AccessCondition^,
BlobRequestOptions^, OperationContext^, AsyncCallback^,
Object^)(IDictionary<String, String>, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(IDictionary(Of String, String), AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)

See Also
Begins an asynchronous operation to create a snapshot of the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]

class
	public virtual ICancellableAsyncResult BeginCreateSnapshot(
		IDictionary<string, string> metadata,
		AccessCondition accessCondition,
		BlobRequestOptions options,
		OperationContext operationContext,
		AsyncCallback callback,
		optional object state
	)

C++

public:

[DoesServiceRequestAttribute]

class
	nothrow virtual ICancellableAsyncResult^ BeginCreateSnapshot(
		IDictionary<String^, String^>^ metadata,
		AccessCondition^ accessCondition,
		BlobRequestOptions^ options,
		OperationContext^ operationContext,
		AsyncCallback^ callback,
		optional Object^ state
	)

F#

[<DoesServiceRequestAttribute>]

abstract BeginCreateSnapshot :

typed metadata:IDictionary<string, string> *

typed accessCondition:AccessCondition *

typed options:BlobRequestOptions *
See Also

BeginCreateSnapshot Overload
CloudAppendBlob Class

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See Also
Begins an asynchronous operation to download the blob's contents as a string

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDownloadText(AsyncCallback callback, object state)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDownloadText(AsyncCallback^ callback, Object^ state)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginDownloadText : callback:AsyncCallback ^ * state:Object -> ICancellableAsyncResult
[<DoesServiceRequestAttribute>]
override BeginDownloadText : callback:AsyncCallback ^ * state:Object -> ICancellableAsyncResult
```

**VB**

```vb
<DoesServiceRequestAttribute>
Public Overridable Function BeginDownloadText
```
See Also

BeginDownloadText_ Overload  
CloudAppendBlob Class  

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CloudAppendBlob::...BeginDownloadText Method C# C++ F# VB
See Also
Begins an asynchronous operation to download the blob's contents as a string

**Syntax**

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDownloadText(
    Encoding encoding,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDownloadText(
    Encoding^ encoding,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginDownloadText :
    encoding:Encoding *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
```
See Also

- BeginDownloadText Overload
- CloudAppendBlob Class

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CloudAppendBlob::BeginOpenWrite Method

(Booolean, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)

(Booolean, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)

See Also
Begins an asynchronous operation to open a stream for writing to the blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginOpenWrite(
    bool createNew,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginOpenWrite(
    bool createNew,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]
abstract BeginOpenWrite :
    createNew:bool *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
**Remarks**

Note that this method always makes a call to the `BeginFetchAttributes` method under the covers. Set the `StreamWriteSizeInBytes` property before calling this method to specify the block size to write, in bytes, ranging from between 16 KB and 4 MB inclusive. If you have a single-writer scenario, see `AbsorbConditionalErrorsOnRetry` to determine whether setting this flag to `true` is acceptable for your scenario.
See Also

BeginOpenWrite_Overload
CloudAppendBlob Class

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<tr>
<td>(Boolean, AsyncCallback, Object)</td>
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<tr>
<td>(Boolean, AsyncCallback^, Object^)</td>
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<td>(Boolean, AsyncCallback, Object)</td>
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<tr>
<td>(Boolean, AsyncCallback, Object)</td>
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</tr>
</tbody>
</table>

See Also
Begins an asynchronous operation to open a stream for writing to the blob.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginOpenWrite(
    bool createNew,
    AsyncCallback callback,
    object state
)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginOpenWrite(
    bool createNew,
    AsyncCallback^ callback,
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]
abstract BeginOpenWrite :
    createNew:bool *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginOpenWrite :
    createNew:bool *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
Remarks

Note that this method always makes a call to the BeginFetchAttributes method under the covers. Set the StreamWriterSizeInBytes property before calling this method to specify the block size to write, in bytes, ranging from between 16 KB and 4 MB inclusive.
See Also

BeginOpenWrite_ Overload
CloudAppendBlob Class

Return to top
CloudAppendBlob::BeginStartCopy Method (CloudAppendBlob, AccessCondition, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to start copying another append blob's contents, properties, and metadata to this append blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginStartCopy(
    CloudAppendBlob source,
    AccessCondition sourceAccessCondition,
    AccessCondition destAccessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginStartCopy(
    CloudAppendBlob^ source,
    AccessCondition^ sourceAccessCondition,
    AccessCondition^ destAccessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginStartCopy :
    source: CloudAppendBlob *
    ```
See Also

- BeginStartCopy Overload
- CloudAppendBlob Class

Return to top
CloudAppendBlob::BeginStartCopy Method

(CloudAppendBlob, AsyncCallback, Object)
(CloudAppendBlob^, AsyncCallback^, Object^)
(CloudAppendBlob, AsyncCallback, Object)
(CloudAppendBlob, AsyncCallback, Object)

See Also
Begins an asynchronous operation to start copying another append blob's contents, properties, and metadata to this append blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginStartCopy(
    CloudAppendBlob source,
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginStartCopy(
    CloudAppendBlob^ source,
    AsyncCallback^ callback,
    Object^ state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginStartCopy :
    source:CloudAppendBlob *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginStartCopy :
    source:CloudAppendBlob *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
See Also

- BeginStartCopy
- Overload
- CloudAppendBlob
- Class
- Namespace

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CloudAppendBlob::BeginUploadFromByteArray Method (Byte[], Int32, Int32, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(array<Byte>^, Int32, Int32, AccessCondition^,
BlobRequestOptions^, OperationContext^, AsyncCallback^,
Object^)(Byte[], Int32, Int32, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(Byte(), Int32, Int32, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)

See Also
Begins an asynchronous operation to upload the contents of a byte array to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadFromByteArray(
    byte[] buffer,
    int index,
    int count,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginUploadFromByteArray(
    array<unsigned char>^ buffer,
    int index,
    int count,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
**Remarks**

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see `AbsorbConditionalErrorsOnRetry` to determine whether setting this flag to `true` is acceptable for your scenario. To append data to an append blob that already exists, see `BeginAppendFromByteArray`.
See Also

- BeginUploadFromByteArray Overload
- CloudAppendBlob Class

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CloudAppendBlob::BeginUploadFromByteArray C# C++ F# VB
Method (Byte[], Int32, Int32, AsyncCallback, Object)(array<Byte>^, Int32, Int32, AsyncCallback^, Object^)
(Byte[], Int32, Int32, AsyncCallback, Object)(Byte(), Int32, Int32, AsyncCallback, Object)
See Also
Begins an asynchronous operation to upload the contents of a byte array to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://msdn.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadFromByteArray(
    byte[] buffer,
    int index,
    int count,
    AsyncCallback callback,
    object state
)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginUploadFromByteArray(
    array<unsigned char>^ buffer,
    int index,
    int count,
    AsyncCallback^ callback,
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]
abstract BeginUploadFromByteArray :
    buffer:byte[] *
    index:int *
    count:int *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. To append data to an append blob that already exists, see BeginAppendFromByteArray.
See Also

- BeginUploadFromByteArray Overload
- CloudAppendBlob Class

Return to top
CloudAppendBlob​:::​BeginUploadFromFile Method

(C# C++ F# VB)

(string, accesscondition, blobrequestoptions,
opportunity, asynccallback, object)

(string^, accesscondition^, blobrequestoptions^, opportunity^, asynccallback^, object^)

(string, accesscondition, blobrequestoptions, opportunity, asynccallback, object)

(string, accesscondition, blobrequestoptions, opportunity, asynccallback, object)

See Also
Begins an asynchronous operation to upload a file to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadFromFile(
    string path,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++  

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginUploadFromFile(
    String^ path,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#  

[<DoesServiceRequestAttribute>]
abstract BeginUploadFromFile :
    path:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    callback:AsyncCallback *
    state:Object *
    ICancellableAsyncResult

Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see AbsorbConditionalErrorsOnRetry to determine whether setting this flag to true is acceptable for your scenario. To append data to an append blob that already exists, see BeginAppendFromFile.
See Also

BeginUploadFromFile_ Overload
CloudAppendBlob Class

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CloudAppendBlob::BeginUploadFromFile Method (C#C++F#VB)
(String, AsyncCallback, Object)(String^,
AsyncCallback^, Object^)(String, AsyncCallback, Object)
(String, AsyncCallback, Object)

See Also
Begins an asynchronous operation to upload a file to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadFromFile(
    string path,
    AsyncCallback callback,
    object state
)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginUploadFromFile(
    String^ path,
    AsyncCallback^ callback,
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]
abstract BeginUploadFromFile : 
    path:string -> 
    callback:AsyncCallback -> 
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginUploadFromFile : 
    path:string -> 
    callback:AsyncCallback -> 
    state:Object -> ICancellableAsyncResult
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see AbsorbConditionalErrorsOnRetry to determine whether setting this flag to true is acceptable for your scenario. To append data to an append blob that already exists, see BeginAppendFromExistingBlob.
See Also

BeginUploadFromFile_ Overload
CloudAppendBlob Class

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CloudAppendBlob::BeginUploadFromStream

Method (Stream, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to upload a stream to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancelableAsyncResult BeginUploadFromStream(
    Stream source,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancelableAsyncResult^ BeginUploadFromStream(
    Stream^ source,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]
abstract BeginUploadFromStream :
    source:Stream *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    ...
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see AbsorbConditionalErrorsOnRetry to determine whether setting this flag to true is acceptable for your scenario. To append data to an append blob that already exists, see BeginAppendFromStream.
See Also

BeginUploadFromStream_Overload
CloudAppendBlob Class

Return to top
CloudAppendBlob::BeginUploadFromStream
Method (Stream, AsyncCallback, Object)
(Stream^, AsyncCallback^, Object^)(Stream, AsyncCallback, Object)(Stream, AsyncCallback, Object)
See Also
Begins an asynchronous operation to upload a stream to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadFromStream(
    Stream source,
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginUploadFromStream(
    Stream* source,
    AsyncCallback* callback,
    Object* state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginUploadFromStream : 
    source:Stream *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginUploadFromStream : 
    source:Stream *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see AbsorbConditionalErrorsOnRetry to determine whether setting this flag to `true` is acceptable for your scenario. To append data to an append blob that already exists, see BeginAppendFromStream.
See Also

BeginUploadFromStream_Overload
CloudAppendBlob Class

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See Also
Begins an asynchronous operation to upload a stream to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadFromStream(
    Stream source,
    long length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginUploadFromStream(
    Stream* source,
    long long length,
    AccessCondition* accessCondition,
    BlobRequestOptions* options,
    OperationContext* operationContext,
    AsyncCallback* callback,
    Object* state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginUploadFromStream : 
    source:Stream* 
```
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see `AbsorbConditionalErrorsOnRetry` to determine whether setting this flag to `true` is acceptable for your scenario. To append data to an append blob that already exists, see `BeginAppendFromStream`. 
See Also

BeginUploadFromStream_Overload
CloudAppendBlob Class

Return to top
CloudAppendBlob::BeginUploadFromStream Method (Stream, Int64, AsyncCallback, Object)
(Stream^, Int64, AsyncCallback^, Object^)(Stream, Int64, AsyncCallback, Object)(Stream, Int64, AsyncCallback, Object)

See Also
Begins an asynchronous operation to upload a stream to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadFromStream(
    Stream source,
    long length,
    AsyncCallback callback,
    object state
)
```

C++

```
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginUploadFromStream(
    Stream^ source,
    long long length,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```
[<DoesServiceRequestAttribute>]
abstract BeginUploadFromStream :
    source:Stream *
    length:int64 *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginUploadFromStream :
    source:Stream *
```
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see AbsorbConditionalErrorsOnRetry to determine whether setting this flag to true is acceptable for your scenario. To append data to an append blob that already exists, see BeginAppendFromStream.
See Also

BeginUploadFromStream_Overload
CloudAppendBlob Class

Return to top
CloudAppendBlob..::.BeginUploadText Method

C# C++ F# VB

(String, AsyncCallback, Object)(String^,
AsyncCallback^, Object^)(String, AsyncCallback, Object)
(String, AsyncCallback, Object)

See Also
Begins an asynchronous operation to upload a string of text to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadText(
    string content,
    AsyncCallback callback,
    object state)
```

C++  

```c++
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginUploadText(
    String* content,
    AsyncCallback* callback,
    Object* state)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginUploadText :
    content:string *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginUploadText :
    content:string *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. To append data to an append blob that already exists, see BeginAppendText.
See Also

- BeginUploadText Overload
- CloudAppendBlob Class

Return to top
CloudAppendBlob::BeginUploadText Method

C# C++ F# VB

(String, Encoding, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(String^, Encoding^, AccessCondition^,
BlobRequestOptions^, OperationContext^, AsyncCallback^,
Object^)(String, Encoding, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(String, Encoding, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)

See Also
Begins an asynchronous operation to upload a string of text to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadText(
    string content,
    Encoding encoding,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++  
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginUploadText(
    String^ content,
    Encoding^ encoding,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#  
[<DoesServiceRequestAttribute>]
abstract BeginUploadText : 
    content: string *
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see `AbsorbConditionalErrorsOnRetry` to determine whether setting this flag to `true` is acceptable for your scenario. To append data to an append blob that already exists, see `BeginAppendText`.
See Also

BeginUploadText Overload
CloudAppendBlob Class

Return to top
See Also
Initiates an asynchronous operation to create an empty append blob. If the blob already exists, this operation will overwrite it. To throw an exception if the blob exists, instead of overwriting, use `CreateOrReplaceAsync`.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task CreateOrReplaceAsync()

C++
public:
[DoesServiceRequestAttribute]
virtual Task^ CreateOrReplaceAsync()

F#
[<DoesServiceRequestAttribute>]
abstract CreateOrReplaceAsync : unit -> Task
[<DoesServiceRequestAttribute>]
override CreateOrReplaceAsync : unit -> Task

VB
<DoesServiceRequestAttribute>
Public Overridable Function CreateOrReplaceAsync

Return Value

Type:
A Task object that represents the asynchronous operation.
See Also

CreateOrReplaceAsync Overload
CloudAppendBlob Class

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See Also
Initiates an asynchronous operation to create an empty append blob. If the blob already exists, this operation will overwrite it. To throw an exception if the blob exists, instead of overwriting, pass in an `AccessCondition` object generated using `GenerateIfNotExistsCondition`.

**Namespace:**  
**Assembly:**  
Syntax

C#  

[DoesServiceRequestAttribute]
**public virtual** Task CreateOrReplaceAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++  

**public:**

[DoesServiceRequestAttribute]
**virtual** Task^ CreateOrReplaceAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#  

[<DoesServiceRequestAttribute>]
**abstract** CreateOrReplaceAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> T

[<DoesServiceRequestAttribute>]
**override** CreateOrReplaceAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> T
See Also

CreateOrReplaceAsync Overload
CloudAppendBlob Class

Return to top

See Also
Initiates an asynchronous operation to create an empty append blob. If the blob already exists, this operation will overwrite it. To throw an exception if the blob exists, instead of overwriting, pass in an `AccessCondition` object generated using `GenerateIfNotExistsCondition`.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task CreateOrReplaceAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ CreateOrReplaceAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract CreateOrReplaceAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override CreateOrReplaceAsync :
    accessCondition:AccessCondition *
```
See Also

CreateOrReplaceAsync Overload
CloudAppendBlob Class

Return to top
CloudAppendBlob.CreateOrReplaceAsync

See Also
Initiates an asynchronous operation to create an append blob. If the blob already exists, this operation will overwrite it. To throw an exception if the blob exists, instead of overwriting, use CreateOrReplaceAsync.

Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task CreateOrReplaceAsync(
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ CreateOrReplaceAsync(
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract CreateOrReplaceAsync :
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override CreateOrReplaceAsync :
    cancellationToken:CancellationToken ->
```

VB

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function CreateOrReplaceAsync
    cancellationToken As CancellationToken
) As Task
```
See Also

CreateOrReplaceAsync Overload
CloudAppendBlob Class

Return to top
CloudAppendBlob:::CreateSnapshotAsync Method

See Also
Initiates an asynchronous operation to create a snapshot of the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#
[DoesServiceRequestAttribute]
public virtual Task<CloudAppendBlob> CreateSnapshotAsync()

C++
public:
[DoesServiceRequestAttribute]
virtual Task<CloudAppendBlob^>^ CreateSnapshotAsync()

F#
[<DoesServiceRequestAttribute>]
abstract CreateSnapshotAsync : unit -> Task<CloudAppendBlob>
[<DoesServiceRequestAttribute>]
override CreateSnapshotAsync : unit -> Task<CloudAppendBlob>

VB
<DoesServiceRequestAttribute>
Public Overridable Function CreateSnapshotAsync

Return Value

Type:
System.Threading.Tasks.Task<CloudAppendBlob>
A Task<TResult>(Of TResult) object of type CloudAppendBlob that represents the asynchronous operation.
See Also

CreateSnapshotAsync_Overload
CloudAppendBlob Class

Return to top
CloudAppendBlob:::CreateSnapshotAsync Method

See Also
Initiates an asynchronous operation to create a snapshot of the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task<CloudAppendBlob> CreateSnapshotAsync(
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<CloudAppendBlob^>^ CreateSnapshotAsync(
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract CreateSnapshotAsync :
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override CreateSnapshotAsync :
    cancellationToken:CancellationToken ->
```

VB

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function CreateSnapshotAsync
    cancellationToken As CancellationToken
) As Task(Of CloudAppendBlob)
```
See Also

CreateSnapshotAsync Overload
CloudAppendBlob Class

Return to top
CloudAppendBlob:::CreateSnapshotAsync Method C++F#VB
(IDictionary<String, String>, AccessCondition,
BlobRequestOptions, OperationContext)(IDictionary<String^,
String^>, AccessCondition^, BlobRequestOptions^,
OperationContext^)(IDictionary<String, String>,
AccessCondition, BlobRequestOptions, OperationContext)
(IDictionary(Of String, String), AccessCondition,
BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to create a snapshot of the blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://microsoft-windowsazure-storage-blob)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task<CloudAppendBlob> CreateSnapshotAsync(
    IDictionary<string, string> metadata,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<CloudAppendBlob^>^ CreateSnapshotAsync(
    IDictionary<String^, String^>^ metadata,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract CreateSnapshotAsync :
    metadata:IDictionary<string, string> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<CloudAppendBlob>
```

```fsharp
[<DoesServiceRequestAttribute>]
override CreateSnapshotAsync :
    metadata:IDictionary<string, string> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<CloudAppendBlob>
```
See Also

CreateSnapshotAsync_Overload
CloudAppendBlob Class

Return to top
CloudAppendBlob.CreateSnapshotAsync Method  
(IDictionary<String, String>, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)  
(IDictionary<String^, String^>, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)  
(IDictionary(Of String, String), AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)  

See Also
Initiates an asynchronous operation to create a snapshot of the blob.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<CloudAppendBlob> CreateSnapshotAsync(
    IDictionary<string, string> metadata,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task<CloudAppendBlob^>^ CreateSnapshotAsync(
    IDictionary<String^, String^>^ metadata,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken^ cancellationToken
)

F#  
[<DoesServiceRequestAttribute>]
abstract CreateSnapshotAsync : 
    metadata:IDictionary<string, string> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken *
See Also

CreateSnapshotAsync Overload
CloudAppendBlob Class

Return to top
CloudAppendBlob::DownloadTextAsync Method

See Also
Initiates an asynchronous operation to download the blob's contents as a string.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task<string> DownloadTextAsync()
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<std::string> DownloadTextAsync()
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadTextAsync : unit -> Task<string>
[<DoesServiceRequestAttribute>]
override DownloadTextAsync : unit -> Task<string>
```

VB

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function DownloadTextAsync
```

Return Value

Type:

```csharp
System.Threading.Tasks.Task<string>
```

A Task<TResult>(Of TResult) object of type string that represents the asynchronous operation.
See Also

DownloadTextAsync_ Overload
CloudAppendBlob Class

Return to top
CloudAppendBlob.

DownloadTextAsync Method

See Also
Initiates an asynchronous operation to download the blob's contents as a string.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://example.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<string> DownloadTextAsync(
    CancellationToken cancellationToken
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ DownloadTextAsync(
    CancellationToken cancellationToken
)

F#  
[<DoesServiceRequestAttribute>]
abstract DownloadTextAsync :
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override DownloadTextAsync :
    cancellationToken:CancellationToken ->

VB  
<DoesServiceRequestAttribute>
Public Overridable Function DownloadTextAsync(
    cancellationToken As CancellationToken
) As Task(Of String)
See Also

DownloadTextAsync Overload
CloudAppendBlob Class

Return to top

See Also
Initiates an asynchronous operation to download the blob's contents as a string.

Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task<string> DownloadTextAsync(
    Encoding encoding,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ DownloadTextAsync(
    Encoding^ encoding,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadTextAsync :
    encoding:Encoding *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<string>

[<DoesServiceRequestAttribute>]
override DownloadTextAsync :
    encoding:Encoding *
See Also

DownloadTextAsync_Overload
CloudAppendBlob Class

Return to top
CloudAppendBlob::DownloadTextAsync Method
(Encoding, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(Encoding^, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)
(Encoding, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(Encoding, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to download the blob's contents as a string.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<string> DownloadTextAsync(
    Encoding encoding,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ DownloadTextAsync(
    Encoding^ encoding,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadTextAsync :
    encoding:Encoding *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken *
```
See Also

DownloadTextAsync_ Overload
CloudAppendBlob Class

Return to top
CloudAppendBlob...EndAppendBlock Method (IAsyncResult)(IAsyncResult^)(IAsyncResult)(IAsyncResult)

See Also
Ends an asynchronous operation to commit a new block of data to the end of the blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public virtual long EndAppendBlock(
    IAsyncResult asyncResult
)

C++
public:
virtual long long EndAppendBlock(
    IAsyncResult^ asyncResult
)

F#
abstract EndAppendBlock :
    asyncResult:IAsyncResult -> int64
override EndAppendBlock :
    asyncResult:IAsyncResult -> int64

VB
Public Overridable Function EndAppendBlock (  
    asyncResult As IAsyncResult
) As Long

Parameters

asyncResult
Type:  
System.IAsyncResultSystem::IAsyncResult^System.IAsyncResultSystem::IAsyncResult
See Also

CloudAppendBlob Class

Return to top
CloudAppendBlob::EndAppendFromByteArray Method (IAsyncResult)(IAsyncResult^)

See Also
Ends an asynchronous operation to append the contents of a byte array to an append blob. Recommended only for single-writer scenarios.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
public virtual void EndAppendFromByteArray(IAsyncResult asyncResult)
```

**C++**

```cpp
public:
virtual void EndAppendFromByteArray(IAsyncResult^ asyncResult)
```

**F#**

```fsharp
abstract EndAppendFromByteArray : asyncResult:IAsyncResult -> unit
override EndAppendFromByteArray : asyncResult:IAsyncResult -> unit
```

**VB**

```vb
Public Overridable Sub EndAppendFromByteArray(asyncResult As IAsyncResult)
```

**Parameters**

- `asyncResult`
  - Type: `System.IAsyncResult`
  - `System::IAsyncResult`
  - `System.IAsyncResult^`
See Also

CloudAppendBlob Class

Return to top
CloudAppendBlob...EndAppendFromFile Method  
(IAasyncResult)(IAasyncResult^)(IAasyncResult)  
See Also
Ends an asynchronous operation to upload a file to an append blob. Recommended only for single-writer scenarios.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public virtual void EndAppendFromFile(  
    IAsyncResult asyncResult  
)

C++  
public:  
virtual void EndAppendFromFile(  
    IAsyncResult^ asyncResult  
)

F#  
abstract EndAppendFromFile :  
    asyncResult:IAsyncResult -> unit  
override EndAppendFromFile :  
    asyncResult:IAsyncResult -> unit

VB  
Public Overridable Sub EndAppendFromFile (  
    asyncResult As IAsyncResult  
)

Parameters

asyncResult  
Type:  
System.IAsyncResultSystem:::IAsyncResult^System.IAsyncResultSystem:::IAsyncResultSystem:::IAsyncResult
**Remarks**

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios.
See Also

CloudAppendBlob Class

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See Also
Ends an asynchronous operation to append a stream to an append blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public virtual void EndAppendFromStream(
    IAsyncResult asyncResult
)
```

C++

```cpp
public:
virtual void EndAppendFromStream(
    IAsyncResult^ asyncResult
)
```

F#

```fsharp
abstract EndAppendFromStream : 
    asyncResult:IAsyncResult -> unit
override EndAppendFromStream : 
    asyncResult:IAsyncResult -> unit
```

VB

```vb
Public Overridable Sub EndAppendFromStream ( 
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`  
Type:  
[System.IAsyncResult](https://learn.microsoft.com/en-us/dotnet/api/system.iasyncresult)
See Also

CloudAppendBlob Class

Return to top
CloudAppendBlob:::EndAppendText Method (IAsyncResult)(IAsyncResult^)(IAsyncResult)(IAsyncResult)

See Also
Ends an asynchronous operation to append a string of text to an append blob. This API should be used strictly in a single writer scenario because the API internally uses the append-offset conditional header to avoid duplicate blocks which does not work in a multiple writer scenario.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#
public virtual void EndAppendText(
    IAsyncResult asyncResult
)

C++
public:
virtual void EndAppendText(
    IAsyncResult^ asyncResult
)

F#
abstract EndAppendText :
    asyncResult:IAsyncResult -> unit
override EndAppendText :
    asyncResult:IAsyncResult -> unit

VB
Public Overridable Sub EndAppendText ( asyncResult As IAsyncResult
)

Parameters

asyncResult
Type:
System.IAsyncResultSystem::IAsyncResult^System.IAsyncResultSystem::IAsyncResult
See Also

CloudAppendBlob Class

Return to top
CloudAppendBlob:::EndCreateOrReplace Method  
(C CloudAppendBlob:::EndCreateOrReplace Method  
(IAsyncResult)(IAsyncResult^)(IAsyncResult)
See Also
Ends an asynchronous operation to create an append blob.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public virtual void EndCreateOrReplace(
    IAsyncResult asyncResult
)
```

C++  
```cpp
public:
virtual void EndCreateOrReplace(
    IAsyncResult^ asyncResult
)
```

F#  
```fsharp
abstract EndCreateOrReplace :
    asyncResult:IAsyncResult -> unit
override EndCreateOrReplace :
    asyncResult:IAsyncResult -> unit
```

VB  
```vbnet
Public Overridable Sub EndCreateOrReplace (  
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`  
Type:  
`System.IAsyncResult`
See Also

CloudAppendBlob Class

Return to top
CloudAppendBlob::EndCreateSnapshot Method (IAsyncResult)(IAsyncResult^)(IAsyncResult)(IAsyncResult)

See Also
Ends an asynchronous operation to create a snapshot of the blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/MicrosoftDocs/azure-docs)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
public virtual CloudAppendBlob EndCreateSnapshot(IAsyncResult asyncResult)
```

**C++**

```cpp
public: virtual CloudAppendBlob^ EndCreateSnapshot(IAsyncResult^ asyncResult)
```

**F#**

```fsharp
abstract EndCreateSnapshot : asyncResult:IAsyncResult -> CloudAppendBlob
override EndCreateSnapshot : asyncResult:IAsyncResult -> CloudAppendBlob
```

**VB**

```vb
Public Overridable Function EndCreateSnapshot(AsyncResult As IAsyncResult) As CloudAppendBlob
```

**Parameters**

`asyncResult`

Type: `System.IAsyncResult` or `System::IAsyncResult`
See Also

CloudAppendBlob Class

Return to top
CloudAppendBlob...EndDownloadText Method
(IAsyncResult)(IAsyncResult^)(IAsyncResult)
(IAsyncResult)
See Also
Ends an asynchronous operation to download the blob's contents as a string.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public virtual string EndDownloadText(
    IAsyncResult asyncResult
)
```

C++

```cpp
public:
    virtual String^ EndDownloadText(
        IAsyncResult^ asyncResult
    )
```

F#

```fsharp
abstract EndDownloadText : 
    asyncResult:IAasyncResult -> string
override EndDownloadText : 
    asyncResult:IAasyncResult -> string
```

VB

```vb
Public Overridable Function EndDownloadText ( 
    asyncResult As IAsyncResult
) As String
```

Parameters

asyncResult
   Type: System::IAsyncResult
   System.IAsyncResult System::IAsyncResult^ System.IAsyncResultSystem::IAsyncResult

   An IAsyncResult that references the pending asynchronous operation.
See Also

CloudAppendBlob Class

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See Also
Ends an asynchronous operation to open a stream for writing to the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
public virtual CloudBlobStream EndOpenWrite(IAsyncResult asyncResult)
```

**C++**

```cpp
public:
    virtual CloudBlobStream^ EndOpenWrite(IAsyncResult^ asyncResult)
```

**F#**

```fsharp
abstract EndOpenWrite : asyncResult:IAsyncResult -> CloudBlobStream
override EndOpenWrite : asyncResult:IAsyncResult -> CloudBlobStream
```

**VB**

```vbnet
Public Overridable Function EndOpenWrite (asyncResult As IAsyncResult) As CloudBlobStream
```

**Parameters**

`asyncResult`  
Type:  
```csharp
System.IAsyncResult
```

```cpp
System::IAsyncResult
```

```fsharp
System.IAsyncResult
```

```vbnet
System.IAsyncResult
```
See Also

CloudAppendBlob Class

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CloudAppendBlob::...EndUploadFromByteArray Method (IAsyncResult)(IAsyncResult^)
(IAsyncResult)(IAsyncResult)

See Also
Ends an asynchronous operation to upload the contents of a byte array to an append blob. Recommended only for single-writer scenarios.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public virtual void EndUploadFromByteArray(
    IAasyncResult asyncResult
)
```

C++
```cpp
public:
virtual void EndUploadFromByteArray(
    IAasyncResult^ asyncResult
)
```

F#
```fsharp
abstract EndUploadFromByteArray :
    asyncResult:IAasyncResult -> unit
override EndUploadFromByteArray :
    asyncResult:IAasyncResult -> unit
```

VB
```vb
Public Overridable Sub EndUploadFromByteArray
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`
Type: `System.IAsyncResultSystem::IAsyncResult^System.IAsyncResultSystem.IAsyncResult`
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios.
See Also

CloudAppendBlob Class

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CloudAppendBlob:::EndUploadFromMethod (IAasyncResult)(IAasyncResult^)(IAasyncResult) (IAasyncResult)

See Also
Ends an asynchronous operation to upload a file to an append blob. Recommended only for single-writer scenarios.

Syntax

C#

public virtual void EndUploadFromFile(
    IAsyncResult asyncResult
)

C++

public:
    virtual void EndUploadFromFile(
        IAsyncResult^ asyncResult
    )

F#

abstract EndUploadFromFile :
    asyncResult:IAsyncResult -> unit
override EndUploadFromFile :
    asyncResult:IAsyncResult -> unit

VB

Public Overridable Sub EndUploadFromFile (  
    asyncResult As IAsyncResult
)

Parameters

asyncResult
    Type:
    System.IAsyncResult System::IAsyncResult ^ System.IAsyncResult System::IAsyncResult
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios.
See Also

- CloudAppendBlob Class

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See Also
Ends an asynchronous operation to upload a stream to an append blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public virtual void EndUploadFromStream(
    IAsyncResult asyncResult
)
```

C++

```cpp
public:
virtual void EndUploadFromStream(
    IAsyncResult^ asyncResult
)
```

F#

```fsharp
abstract EndUploadFromStream :
    asyncResult:IAsyncResult -> unit
override EndUploadFromStream :
    asyncResult:IAsyncResult -> unit
```

VB

```vbnet
Public Overridable Sub EndUploadFromStream (
    asyncResult As IAsyncResult
)
```

Parameters

- **asyncResult**
  Type: `System.IAsyncResult`
See Also

CloudAppendBlob Class

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See Also
Ends an asynchronous operation to upload a string of text to an append blob. This API should be used strictly in a single writer scenario because the API internally uses the append-offset conditional header to avoid duplicate blocks which does not work in a multiple writer scenario.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public virtual void EndUploadText(
    IAsyncResult asyncResult
)
```

C++
```cpp
public:
virtual void EndUploadText(
    IAsyncResult^ asyncResult
)
```

F#
```fsharp
abstract EndUploadText :
    asyncResult:IAsyncResult -> unit
override EndUploadText :
    asyncResult:IAsyncResult -> unit
```

VB
```vbnet
Public Overridable Sub EndUploadText (  
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`  
Type:  
`System.IAsyncResultSystem::IAsyncResult^System.IAsyncResultSystem::IAsyncResult`
See Also

CloudAppendBlob Class
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See Also
Initiates an asynchronous operation to open a stream for writing to the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<CloudBlobStream> OpenWriteAsync(
    bool createNew
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<CloudBlobStream^>^ OpenWriteAsync(
    bool createNew
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract OpenWriteAsync :
    createNew:bool -> Task<CloudBlobStream>

[<DoesServiceRequestAttribute>]
override OpenWriteAsync :
    createNew:bool -> Task<CloudBlobStream>
```

VB  

```vb
<DoesServiceRequestAttribute>
Public Overridable Function OpenWriteAsync (createNew As Boolean)
    As Task(Of CloudBlobStream)
```
Remarks

Note that this method always makes a call to the BeginFetchAttributes method under the covers. Set the StreamWriteSizeInBytes property before calling this method to specify the block size to write, in bytes, ranging from between 16 KB and 4 MB inclusive.
See Also

OpenWriteAsync Overload
CloudAppendBlob Class

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CloudAppendBlob::OpenWriteAsync Method

(Boolean, AccessCondition, BlobRequestOptions, OperationContext)
(Boolean, AccessCondition^, BlobRequestOptions^, OperationContext^)
(Boolean, AccessCondition, BlobRequestOptions, OperationContext)
(Boolean, AccessCondition, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to open a stream for writing to the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<CloudBlobStream> OpenWriteAsync(
    bool createNew,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<CloudBlobStream^>^ OpenWriteAsync(
    bool createNew,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract OpenWriteAsync :
    createNew:bool *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> T

[<DoesServiceRequestAttribute>]
override OpenWriteAsync :
    createNew:bool *
```
Remarks

Note that this method always makes a call to the `FetchAttributesAsync` method under the covers. Set the `StreamWriteSizeInBytes` property before calling this method to specify the block size to write, in bytes, ranging from between 16 KB and 4 MB inclusive. If you have a single-writer scenario, see `AbsorbConditionalErrorsOnRetry` to determine whether setting this flag to `true` is acceptable for your scenario.
See Also

OpenWriteAsync Overload
CloudAppendBlob Class

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CloudAppendBlob:::OpenWriteAsync Method

((Boolean, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
((Boolean, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)
(Boolean, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to open a stream for writing to the blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<CloudBlobStream> OpenWriteAsync(
    bool createNew,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<CloudBlobStream^>^ OpenWriteAsync(
    bool createNew,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract OpenWriteAsync :
    createNew:bool *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken
```
Remarks

Note that this method always makes a call to the [FetchAttributesAsync](#) method under the covers. Set the [StreamWriteSizeInBytes](#) property before calling this method to specify the block size to write, in bytes, ranging from between 16 KB and 4 MB inclusive. If you have a single-writer scenario, see [AbsorbConditionalErrorsOnRetry](#) to determine whether setting this flag to `true` is acceptable for your scenario.
See Also

OpenWriteAsync Overload
CloudAppendBlob Class

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CloudAppendBlob:::OpenWriteAsync Method (Boolean, CancellationToken) (Boolean, CancellationToken) (Boolean, CancellationToken) (Boolean, CancellationToken)

See Also
Initiates an asynchronous operation to open a stream for writing to the blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<CloudBlobStream> OpenWriteAsync(
    bool createNew,
    CancellationToken cancellationToken)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<CloudBlobStream^>^ OpenWriteAsync(
    bool createNew,
    CancellationToken cancellationToken)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract OpenWriteAsync :
    createNew:bool *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override OpenWriteAsync :
    createNew:bool *
    cancellationToken:CancellationToken ->
```

VB  

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function OpenWriteAsync (
```
Remarks

Note that this method always makes a call to the `FetchAttributesAsync` method under the covers. Set the `StreamWriteSizeInBytes` property before calling this method to specify the block size to write, in bytes, ranging from between 16 KB and 4 MB inclusive.
See Also

OpenWriteAsync Overload
CloudAppendBlob Class

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CloudAppendBlob:::StartCopyAsync Method (CloudAppendBlob)(CloudAppendBlob^) (CloudAppendBlob)(CloudAppendBlob)

See Also
Initiates an asynchronous operation to start copying another append blob's contents, properties, and metadata to this append blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    CloudAppendBlob source
)
```

C++  

```c++
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ StartCopyAsync(
    CloudAppendBlob^ source
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract StartCopyAsync :
    source:CloudAppendBlob -> Task<string>
[<DoesServiceRequestAttribute>]
override StartCopyAsync :
    source:CloudAppendBlob -> Task<string>
```

VB  

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function StartCopyAsync (  
    source As CloudAppendBlob
) As Task(Of String)
```
See Also

StartCopyAsync_Overload
CloudAppendBlob Class

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CloudAppendBlob.

StartCopyAsync Method

(CloudAppendBlob, AccessCondition, AccessCondition, BlobRequestOptions, OperationContext)

(Updated from: CloudAppendBlob, AccessCondition, AccessCondition, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to start copying another append blob's contents, properties, and metadata to this append blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    CloudAppendBlob source,
    AccessCondition sourceAccessCondition,
    AccessCondition destAccessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ StartCopyAsync(
    CloudAppendBlob^ source,
    AccessCondition^ sourceAccessCondition,
    AccessCondition^ destAccessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract StartCopyAsync :
    source:CloudAppendBlob *
    sourceAccessCondition:AccessCondition *
    destAccessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<string>
```

See Also

- `StartCopyAsync_Overload`
- `CloudAppendBlob Class`

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CloudAppendBlob::...StartCopyAsync Method


See Also
Initiates an asynchronous operation to start copying another append blob's contents, properties, and metadata to this append blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    CloudAppendBlob source,
    AccessCondition sourceAccessCondition,
    AccessCondition destAccessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ StartCopyAsync(
    CloudAppendBlob^ source,
    AccessCondition^ sourceAccessCondition,
    AccessCondition^ destAccessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract StartCopyAsync : 
    source:CloudAppendBlob * 
    sourceAccessCondition:AccessCondition 
    destAccessCondition:AccessCondition * 
```
See Also

StartCopyAsync_Overload
CloudAppendBlob Class

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See Also
Initiates an asynchronous operation to start copying another append blob's contents, properties, and metadata to this append blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/Azure/azure-storage-blob-dotnet)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
C# | [DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    CloudAppendBlob source,
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ StartCopyAsync(
    CloudAppendBlob^ source,
    CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract StartCopyAsync :
    source:CloudAppendBlob *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override StartCopyAsync :
    source:CloudAppendBlob *
    cancellationToken:CancellationToken ->

VB

<DoesServiceRequestAttribute>
Public Overridable Function StartCopyAsync (
See Also

StartCopyAsync\_Overload
CloudAppendBlob Class

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CloudAppendBlob:::UploadFromByteArrayAsync

C# C++ F# VB

See Also
Initiates an asynchronous operation to upload the contents of a byte array to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
[DllImport] class Class

public virtual Task UploadFromByteArrayAsync(
    byte[] buffer,
    int index,
    int count
)
```

**C++**

```cpp
public:
[DllImport] class Class

virtual Task UploadFromByteArrayAsync(
    array<unsigned char>^ buffer,
    int index,
    int count
)
```

**F#**

```fsharp
[<DllImport>] module Module

abstract UploadFromByteArrayAsync :
    buffer:byte[] *
    index:int *
    count:int -> Task

[<DllImport>] module Module

override UploadFromByteArrayAsync :
    buffer:byte[] *
    index:int *
    count:int -> Task
```
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. To append data to an append blob that already exists, see `AppendFromByteArrayAsync`.
See Also

UploadFromArrayAsync_Overload
CloudAppendBlob Class

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See Also
Initiates an asynchronous operation to upload the contents of a byte array to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://msdn.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]  
public virtual Task UploadFromByteArrayAsync(  
    byte[] buffer,  
    int index,  
    int count,  
    AccessCondition accessCondition,  
    BlobRequestOptions options,  
    OperationContext operationContext  
)

C++  

public:  
[DoesServiceRequestAttribute]  
virtual Task^ UploadFromByteArrayAsync(  
    array<unsigned char>^ buffer,  
    int index,  
    int count,  
    AccessCondition^ accessCondition,  
    BlobRequestOptions^ options,  
    OperationContext^ operationContext  
)

F#  

[<DoesServiceRequestAttribute>]  
abstract UploadFromByteArrayAsync :  
    buffer:byte[] *  
    index:int *  
    count:int *
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see `AbsorbConditionalErrorsOnRetry` to determine whether setting this flag to `true` is acceptable for your scenario. To append data to an append blob that already exists, see `AppendFromByteArrayAsync`.


See Also

UploadFromByteArrayAsync_Overload
CloudAppendBlob Class

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See Also
Initiates an asynchronous operation to upload the contents of a byte array to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]  
public virtual Task UploadFromByteArrayAsync(
    byte[] buffer,
    int index,
    int count,
    AccessCondition accessCondition,  
    BlobRequestOptions options,
    OperationContext operationContext,  
    CancellationToken cancellationToken
)

C++

public:  
[DoesServiceRequestAttribute]  
virtual Task^ UploadFromByteArrayAsync(  
    array<unsigned char>^ buffer,
    int index,
    int count,
    AccessCondition^ accessCondition,  
    BlobRequestOptions^ options,
    OperationContext^ operationContext,  
    CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]  
abstract UploadFromByteArrayAsync :  
    buffer:byte[] *
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see 

_AbsorbConditionalErrorsOnRetryAbsorbConditionalErrorsOnRetryAbsorbErrorsOnRetry_ to determine whether setting this flag to _true_ is acceptable for your scenario. To append data to an append blob that already exists, see 

_ApPENDF romByteArrayAsync_.


See Also

UploadFromByteArrayAsync_Overload
CloudAppendBlob Class

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CloudAppendBlob:::UploadFromByteArrayAsync C# C++ F# VB
Method (Byte[], Int32, Int32, CancellationToken)
See Also
Initiates an asynchronous operation to upload the contents of a byte array to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadFromByteArrayAsync(
    byte[] buffer,
    int index,
    int count,
    CancellationToken cancellationToken
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromByteArrayAsync(
    array<unsigned char>^ buffer,
    int index,
    int count,
    CancellationToken cancellationToken
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadFromByteArrayAsync :
    buffer:byte[] *
    index:int *
    count:int *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override UploadFromByteArrayAsync :
    buffer:byte[] *
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. To append data to an append blob that already exists, see `AppendFromByteArrayAsync`. 
See Also

UploadFromByteArrayAsync_Overload
CloudAppendBlob Class

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See Also
Initiates an asynchronous operation to upload a file to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task UploadFromFileAsync(
    string path
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromFileAsync(
    String^ path
)

F#  
[<DoesServiceRequestAttribute>]
abstract UploadFromFileAsync : path:string -> Task
[<DoesServiceRequestAttribute>]
override UploadFromFileAsync : path:string -> Task

VB  
<DoesServiceRequestAttribute>
Public Overridable Function UploadFromFileAsync(
    path As String
) As Task
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. To append data to an append blob that already exists, see AppendFromFileAsync.
See Also

UploadFromFileAsync_Overload
CloudAppendBlob Class

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CloudAppendBlob::UploadFromFileAsync Method (String, AccessCondition, BlobRequestOptions, OperationContext)(String^, AccessCondition^, BlobRequestOptions^, OperationContext^)
(String, AccessCondition, BlobRequestOptions, OperationContext)(String, AccessCondition, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to upload a file to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task UploadFromFileAsync(
    string path,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromFileAsync(
    String^ path,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#  
[<DoesServiceRequestAttribute>]
abstract UploadFromFileAsync :
    path:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task

[<DoesServiceRequestAttribute>]
override UploadFromFileAsync :
    path:string *
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see AbsorbConditionalErrorsOnRetry to determine whether setting this flag to true is acceptable for your scenario. To append data to an append blob that already exists, see AppendFromFileAsync.
See Also

UploadFromFileAsync_Overload
CloudAppendBlob Class

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CloudAppendBlob::...UploadFromFileAsync  
Method (String, AccessCondition, 
BlobRequestOptions, OperationContext, CancellationToken) 
(String^, AccessCondition^, BlobRequestOptions^, 
OperationContext^, CancellationToken)(String, 
AccessCondition, BlobRequestOptions, OperationContext, 
CancellationToken)(String, AccessCondition, 
BlobRequestOptions, OperationContext, CancellationToken) 

See Also
Initiates an asynchronous operation to upload a file to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadFromFileAsync(
    string path,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromFileAsync(
    String^ path,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadFromFileAsync :
    path:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->
    Task
[<DoesServiceRequestAttribute>]
override UploadFromFileAsync :
    path:string *
```
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see AbsorbConditionalErrorsOnRetry to determine whether setting this flag to true is acceptable for your scenario. To append data to an append blob that already exists, see AppendFromFileAsync.
See Also

UploadFromFileAsync Overload
CloudAppendBlob Class

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CloudAppendBlob:::UploadFromFileAsync
Method (String, CancellationToken)(String^, CancellationToken)(String, CancellationToken)

See Also
Initiates an asynchronous operation to upload a file to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadFromFileAsync(
    string path,
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromFileAsync(
    String^ path,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadFromFileAsync :
    path:string *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override UploadFromFileAsync :
    path:string *
    cancellationToken:CancellationToken ->
```

VB

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function UploadFromFileAsync
```
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. To append data to an append blob that already exists, see `AppendFromFileAsync`.
See Also

UploadFromFileAsync Overload
CloudAppendBlob Class

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CloudAppendBlob::<..UploadFromStreamAsync Method (Stream)(Stream^)(Stream)(Stream)
See Also
Initiates an asynchronous operation to upload a stream to an append blob. If the blob already exists, it will be overwritten.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(
    Stream^ source
)

F#  
[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync : 
    source:Stream -> Task
[<DoesServiceRequestAttribute>]
override UploadFromStreamAsync : 
    source:Stream -> Task

VB  
<DoesServiceRequestAttribute>
Public Overridable Function UploadFromStreamAsync(
    source As Stream
) As Task
**Remarks**

To append data to an append blob that already exists, see [AppendFromStreamAsync](#).
See Also

UploadFromStreamAsync Overload
CloudAppendBlob Class

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CloudAppendBlob::UploadFromStreamAsync

Method (Stream, AccessCondition, BlobRequestOptions, OperationContext)

(Stream^, AccessCondition^, BlobRequestOptions^, OperationContext^)

See Also
Initiates an asynchronous operation to upload a stream to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(
    Stream^ source,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync :
    source:Stream *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> T

[<DoesServiceRequestAttribute>]
override UploadFromStreamAsync :
    source:Stream *
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see AbsorbConditionalErrorsOnRetry to determine whether setting this flag to true is acceptable for your scenario. To append data to an append blob that already exists, see AppendFromStreamAsync.
See Also

UploadFromStreamAsync Overload
CloudAppendBlob Class

Return to top
Initiates an asynchronous operation to upload a stream to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(
    Stream^ source,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync :
    source:Stream *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken *
```
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see AbsorbConditionalErrorsOnRetry AbsorbConditionalErrorsOnRetry AbsorbConditionalErrorsOnRetry AbsorbConditionalErrorsOnRetry AbsorbConditionalErrorsOnRetry to determine whether setting this flag to `true` is acceptable for your scenario. To append data to an append blob that already exists, see AppendFromStreamAsync.
See Also

UploadFromStreamAsync Overload
CloudAppendBlob Class

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CloudAppendBlob:::UploadFromStreamAsync Method (Stream, CancellationToken)(Stream^, CancellationToken)(Stream, CancellationToken)

See Also
Initiates an asynchronous operation to upload a stream to an append blob. If the blob already exists, it will be overwritten.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/microsoft/Azure-SDK-for-.NET)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source,
    CancellationToken cancellationToken
)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(
    Stream^ source,
    CancellationToken cancellationToken
)

F#  

[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync :
    source:Stream *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override UploadFromStreamAsync :
    source:Stream *
    cancellationToken:CancellationToken ->

VB  

<DoesServiceRequestAttribute>
Public Overridable Function UploadFromStreamAs
Remarks

To append data to an append blob that already exists, see AppendFromStreamAsync.
See Also

UploadFromStreamAsync_Overload
CloudAppendBlob Class

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<td>Method (Stream, Int64)</td>
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</table>

See Also
Initiates an asynchronous operation to upload a stream to an append blob. If the blob already exists, it will be overwritten.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://example.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source,
    long length
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(
    Stream^ source,
    long long length
)

F#  
[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync : 
    source:Stream *
    length:int64 -> Task

[<DoesServiceRequestAttribute>]
override UploadFromStreamAsync : 
    source:Stream *
    length:int64 -> Task

VB  
<DoesServiceRequestAttribute>
Public Overridable Function UploadFromStreamAs
Remarks

To append data to an append blob that already exists, see AppendFromStreamAsync.
See Also

UploadFromStreamAsync Overload
CloudAppendBlob Class

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CloudAppendBlob:::UploadFromStreamAsync Method (Stream, Int64, AccessCondition, BlobRequestOptions, OperationContext)(Stream^, Int64, AccessCondition^, BlobRequestOptions^, OperationContext^)

See Also
Initiates an asynchronous operation to upload a stream to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source,
    long length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(
    Stream^ source,
    long long length,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#  

[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync :
    source:Stream *
    length:int64 *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see AbsorbConditionalErrorsOnRetry to determine whether setting this flag to true is acceptable for your scenario. To append data to an append blob that already exists, see AppendFromStreamAsync.
See Also

UploadFromStreamAsync_Overload
CloudAppendBlob Class

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CloudAppendBlob::UploadFromStreamAsync Method (Stream, Int64, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(Stream^, Int64, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)(Stream, Int64, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(Stream, Int64, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to upload a stream to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source,
    long length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(
    Stream^ source,
    long long length,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#  

[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync :
    source:Stream *
    length:int64 *
    accessCondition:AccessCondition *
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see `AbsorbConditionalErrorsOnRetry` to determine whether setting this flag to `true` is acceptable for your scenario. To append data to an append blob that already exists, see `AppendFromStreamAsync`. 
See Also

UploadFromStreamAsync Overload
CloudAppendBlob Class

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CloudAppendBlob::UploadFromStreamAsync

Method (Stream, Int64, CancellationToken)
(Stream^, Int64, CancellationToken)(Stream, Int64, CancellationToken)

See Also
Initiates an asynchronous operation to upload a stream to an append blob. If the blob already exists, it will be overwritten.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source,
    long length,
    CancellationToken cancellationToken
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task UploadFromStreamAsync(
    Stream source,
    long length,
    CancellationToken cancellationToken
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync :
    source:Stream *
    length:int64 *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override UploadFromStreamAsync :
    source:Stream *
    length:int64 *
    cancellationToken:CancellationToken ->
```
Remarks

To append data to an append blob that already exists, see AppendFromStreamAsync.
See Also

UploadFromStreamAsync_Overload
CloudAppendBlob Class

Return to top
CloudAppendBlob:::UploadTextAsync Method (String)(String^)(String)(String)

See Also
Initiates an asynchronous operation to upload a string of text to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task UploadTextAsync(
    string content
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ UploadTextAsync(
    String^ content
)

F#

[<DoesServiceRequestAttribute>]
abstract UploadTextAsync : content:string -> Task
[<DoesServiceRequestAttribute>]
override UploadTextAsync : content:string -> Task

VB

<DoesServiceRequestAttribute>
Public Overridable Function UploadTextAsync ( content As String ) As Task
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. To append data to an append blob that already exists, see AppendTextAsync.
See Also

UploadTextAsync_Overload
CloudAppendBlob Class

Return to top
CloudAppendBlob:::UploadTextAsync Method

(String, CancellationToken)(String^,
CancellationToken)(String, CancellationToken)(String,
CancellationToken)

See Also
Initiates an asynchronous operation to upload a string of text to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task UploadTextAsync(
    string content,
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ UploadTextAsync(
    String^ content,
    CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract UploadTextAsync :
    content:string *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override UploadTextAsync :
    content:string *
    cancellationToken:CancellationToken ->

VB

<DoesServiceRequestAttribute>
Public Overridable Function UploadTextAsync (
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see `AbsorbConditionalErrorsOnRetry` to determine whether setting this flag to `true` is acceptable for your scenario. To append data to an append blob that already exists, see `AppendTextAsync`. 
See Also

UploadTextAsync Overload
CloudAppendBlob Class

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CloudAppendBlob::UploadTextAsync Method

(C#) (C++) (F#) (VB)

(String, Encoding, AccessCondition, BlobRequestOptions, OperationContext)(String, Encoding, AccessCondition, BlobRequestOptions, OperationContext)(String, Encoding, AccessCondition, BlobRequestOptions, OperationContext)(String, Encoding, AccessCondition, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to upload a string of text to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadTextAsync(
    string content,
    Encoding encoding,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadTextAsync(
    String^ content,
    Encoding^ encoding,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadTextAsync :
    content:string *
    encoding:Encoding *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
```
**Remarks**

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see `AbsorbConditionalErrorsOnRetry` to determine whether setting this flag to `true` is acceptable for your scenario. To append data to an append blob that already exists, see `AppendTextAsync`. 
See Also

UploadTextAsync_Overload
CloudAppendBlob Class

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CloudAppendBlob::..UploadTextAsync Method (C#) (C++) (F#) (VB)

CloudAppendBlob::..UploadTextAsync Method
(String, Encoding, AccessCondition,
BlobRequestOptions, OperationContext, CancellationToken)
(String^, Encoding^, AccessCondition^,
BlobRequestOptions^, OperationContext^, CancellationToken)
(String, Encoding, AccessCondition, BlobRequestOptions,
OperationContext, CancellationToken)
(String, Encoding, AccessCondition, BlobRequestOptions,
OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to upload a string of text to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadTextAsync(
    string content,
    Encoding encoding,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadTextAsync(
    String^ content,
    Encoding^ encoding,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadTextAsync :
    content:string *
    encoding:Encoding *
    accessCondition:AccessCondition *
```
Remarks

Use this method only in single-writer scenarios. Internally, this method uses the append-offset conditional header to avoid duplicate blocks, which may cause problems in multiple-writer scenarios. If you have a single-writer scenario, see AbsorbConditionalErrorsOnRetryAbsorbConditionalErrorsOnRetryAbsorb to determine whether setting this flag to true is acceptable for your scenario. To append data to an append blob that already exists, see AppendTextAsync.
See Also

UploadTextAsync_Overload
CloudAppendBlob Class

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CloudBlobClient Constructor (StorageUri, StorageCredentials)(StorageUri^, StorageCredentials^)(StorageUri, StorageCredentials)

See Also
Initializes a new instance of the **CloudBlobClient** class using the specified Blob service endpoint and account credentials.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public CloudBlobClient(
    StorageUri storageUri,
    StorageCredentials credentials
)
```

C++

```cpp
public:
CloudBlobClient(
    StorageUri^ storageUri,
    StorageCredentials^ credentials
)
```

F#

```fsharp
new :
    storageUri:StorageUri *
    credentials:StorageCredentials -> CloudBlobClient
```

VB

```vbnet
Public Sub New (   
    storageUri As StorageUri,   
    credentials As StorageCredentials
)
```
See Also

CloudBlobClient Overload
CloudBlobClient Class

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See Also
Initializes a new instance of the `CloudBlobClient` class using the specified Blob service endpoint and anonymous credentials.

**Namespace:**  `Microsoft.WindowsAzure.Storage.Blob`  
**Assembly:**  `Microsoft.WindowsAzure.Storage` (in `Microsoft.WindowsAzure.Storage.dll`)
**Syntax**

**C#**
```csharp
public CloudBlobClient(
    Uri baseUri
)
```

**C++**
```cpp
public:
CloudBlobClient(
    Uri^ baseUri
)
```

**F#**
```fsharp
new :
    baseUri:Uri -> CloudBlobClient
```

**VB**
```vbnet
Public Sub New (   baseUri As Uri
    )
```

**Parameters**

`baseUri`  
Type: System.Uri

A Uri object containing the Blob service endpoint to use to create the client.
See Also

CloudBlobClient Overload
CloudBlobClient Class

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CloudBlobClient Constructor (Uri, StorageCredentials)(Uri^, StorageCredentials^)
(Uri, StorageCredentials)(Uri, StorageCredentials)
See Also
Initializes a new instance of the CloudBlobClient class using the specified Blob service endpoint and account credentials.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public CloudBlobClient(
    Uri baseUri,
    StorageCredentials credentials
)

C++  
public:
CloudBlobClient(
    Uri^ baseUri,
    StorageCredentials^ credentials
)

F#  
new :
    baseUri:Uri *
    credentials:StorageCredentials -> CloudBlobClient

VB  
Public Sub New (  
    baseUri As Uri,
    credentials As StorageCredentials
)

Parameters

baseUri
See Also

CloudBlobClient Overload
CloudBlobClient Class

Return to top
CloudBlobClient.AuthenticationScheme

See Also
Gets or sets the authentication scheme to use to sign HTTP requests.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public AuthenticationScheme AuthenticationScheme
```

C++  
```cpp
public:
    property AuthenticationScheme AuthenticationScheme
    {
        AuthenticationScheme get();
        void set(AuthenticationScheme value);
    }
```

F#  
```fsharp
member AuthenticationScheme : AuthenticationScheme
```

VB  
```vbnet
Public Property AuthenticationScheme As AuthenticationScheme
```

Property Value

Type:  
```csharp
Microsoft.WindowsAzure.Storage.AuthenticationScheme
```
Remarks

This property is set only when Shared Key or Shared Key Lite credentials are used; it does not apply to authentication via a shared access signature or anonymous access.
See Also

CloudBlobClient Class

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Gets the base URI for the Blob service client at the primary location.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public Uri BaseUri { get; }
```

C++  
```cpp
public:
property Uri^ BaseUri {
    Uri^ get();
}
```

F#  
```fsharp
member BaseUri : Uri with get
```

VB  
```vbnet
Public ReadOnly Property BaseUri As Uri
```

Property Value

Type: `System.Uri`<br>`System::Uri`<br>`System.Uri`<br>`System.Uri`<br>`System.Uri`

A Uri object containing the base URI used to construct the Blob service client at the primary location.
See Also

CloudBlobClient Class

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</table>

See Also
Gets or sets a buffer manager that implements the **IBufferManager** interface, specifying a buffer pool for use with operations against the Blob service client.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public IBufferManager BufferManager { get; set; }
```

C++
```cpp
public:
property IBufferManager^ BufferManager {
    IBufferManager^ get();
    void set(IBufferManager^ value);
}
```

F#
```fsharp
member BufferManager : IBufferManager with get, set
```

VB  
```vbnet
Public Property BufferManager As IBufferManager
```

Property Value

Type:
`Microsoft.WindowsAzure.Storage.IBufferManager`
An object of type `IBufferManager`. 
See Also

CloudBlobClient Class

Return to top
An interface that allows clients to provide a buffer manager to a given service client. This interface is patterned after the

**Namespace:** Microsoft.WindowsAzure.Storage  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public interface IBufferManager
```

C++

```cpp
public interface class IBufferManager
```

F#

```fsharp
type IBufferManager = interface end
```

VB

```vbnet
Public Interface IBufferManager
```

```
## Methods

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<td><strong>GetDefaultBufferSize()</strong></td>
<td>Gets the size, in bytes, of the buffers managed by the given pool. Note that the buffer manager must return buffers of the exact size requested by the client.</td>
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<td><strong>ReturnBuffer(Byte[])</strong></td>
<td>Returns a buffer to the pool.</td>
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<td><strong>TakeBuffer(Int32)[]</strong></td>
<td>Gets a buffer of the specified size or larger from the pool.</td>
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See Also

Microsoft.WindowsAzure.Storage Namespace

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CloudBlobClient.Credentials

Property

CloudBlobClient::Credentials

Property

CloudBlobClient.Credentials

Property

CloudBlobClient.Credentials Property

See Also
Gets the account credentials used to create the Blob service client.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public StorageCredentials Credentials { get; private set; }
```

C++  
```cpp
public:
    property StorageCredentials^ Credentials { 
        StorageCredentials^ get();
        private: void set(StorageCredentials^ value);
    }
```

F#  
```fsharp
member Credentials : StorageCredentials with get
```

VB  
```vbnet
Public Property Credentials As StorageCredentials
    Get
    Private Set
End Property
```

Property Value

Type:  
A StorageCredentials object.
See Also

CloudBlobClient Class

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</table>
Gets or sets the default delimiter that may be used to create a virtual directory structure of blobs.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

**C#**

```csharp
public string DefaultDelimiter { get; set; }
```

**C++**

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

**F#**

```fsharp
member DefaultDelimiter : string with get, set
```

**VB**

```vb
Public Property DefaultDelimiter As String
```

## Property Value

Type: `System.String`<br>
A string containing the default delimiter for the Blob service.
See Also

CloudBlobClient Class

Return to top
CloudBlobClient.DefaultRequestOptions Property

See Also
Gets or sets the default request options for requests made via the Blob service client.

Syntax

C#  
```csharp
public BlobRequestOptions DefaultRequestOptions {
    get;
    set;
}
```

C++
```cpp
public:
    property BlobRequestOptions^ DefaultRequestOptions {
        BlobRequestOptions^ get();
        void set(BlobRequestOptions^ value);
    }
```

F#
```fsharp
member DefaultRequestOptions : BlobRequestOptions
```

VB
```vbnet
Public Property DefaultRequestOptions As BlobRequestOptions
```

Property Value

Type:
```
```
A BlobRequestOptions object.
See Also

CloudBlobClient Class

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See Also
Gets or sets the default retry policy for requests made via the Blob service client.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[ObsoleteAttribute("Use DefaultRequestOptions.RetryPolicy.")]
public IRetryPolicy RetryPolicy { get; set; }

C++  
public:
[ObsoleteAttribute("Use DefaultRequestOptions.RetryPolicy.")]
property IRetryPolicy^ RetryPolicy { 
    IRetryPolicy^ get();
    void set(IRetryPolicy^ value);
}

F#  
[<ObsoleteAttribute("Use DefaultRequestOptions.RetryPolicy.")]
member RetryPolicy : IRetryPolicy with get, set

VB  
<ObsoleteAttribute("Use DefaultRequestOptions.RetryPolicy.")>
Public Property RetryPolicy As IRetryPolicy

Property Value

Type:  
An object of type IRetryPolicy.
See Also

CloudBlobClient Class

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See Also
Gets the Blob service endpoints for both the primary and secondary locations

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
public StorageUri StorageUri { get; private set; }
```

**C++**

```cpp
public:
    property StorageUri^ StorageUri {
        StorageUri^ get();
        private: void set(StorageUri^ value);
    }
```

**F#**

```fsharp
member StorageUri : StorageUri with get, private
```

**VB**

```vbnet
Public Property StorageUri As StorageUri
    Get
        Private Set
End Property
```

### Property Value


An object of type `StorageUri` containing Blob service URIs for both the primary and secondary locations.
See Also

CloudBlobClient Class

Return to top
CloudBlobClient::BeginGetBlobReferenceFromServer Method
(StorageUri, AccessCondition, BlobRequestOptions,
OperationContext, AsyncCallback, Object)(StorageUri^,
AccessCondition^, BlobRequestOptions^, OperationContext^,
AsyncCallback^, Object^)(StorageUri, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(StorageUri, AccessCondition, BlobRequestOptions,
OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to get a reference to a blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginGetBlobReferenceFromServer(
    StorageUri blobUri,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++  

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginGetBlobReferenceFromServer(
    StorageUri^ blobUri,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#  

[<DoesServiceRequestAttribute>]
abstract BeginGetBlobReferenceFromServer : 
    blobUri:StorageUri *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    state:Object *
See Also

BeginGetBlobReferenceFromServer Overload
CloudBlobClient Class

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See Also
Begins an asynchronous operation to get a reference to a blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginGetBlobReferenceFromServer(
    Uri blobUri,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginGetBlobReferenceFromServer(
    Uri^ blobUri,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginGetBlobReferenceFromServer :
    blobUri:Uri *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    ...`
See Also

BeginGetBlobReferenceFromServer_ Overload
CloudBlobClient Class

Return to top
CloudBlobClient..::.BeginGetBlobReferenceFromServer Method (Uri, AsyncCallback, Object)(Uri^, AsyncCallback^, Object^) (Uri, AsyncCallback, Object)(Uri, AsyncCallback, Object)

See Also
Begins an asynchronous operation to get a reference to a blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginGetBlobReferenceFromServer(
    Uri blobUri,
    AsyncCallback callback,
    object state)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginGetBlobReferenceFromServer(
    Uri^ blobUri,
    AsyncCallback^ callback,
    Object^ state)

F#

[<DoesServiceRequestAttribute>]
abstract BeginGetBlobReferenceFromServer : blobUri:Uri *
callback:AsyncCallback *
state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginGetBlobReferenceFromServer : blobUri:Uri *
callback:AsyncCallback *
state:Object -> ICancellableAsyncResult
See Also

BeginGetBlobReferenceFromServer Overload
CloudBlobClient Class

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See Also
Begins an asynchronous operation to get service properties for the Blob service.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginGetServiceProperties(
    AsyncCallback callback,
    object state
)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginGetServiceProperties(
    AsyncCallback^ callback,
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]
abstract BeginGetServiceProperties :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginGetServiceProperties :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

VB

<DoesServiceRequestAttribute>
Public Overridable Function BeginGetServiceProperties As ICancellableAsyncResult

See Also

BeginGetServiceProperties Overload
CloudBlobClient Class

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CloudBlobClient::BeginGetServiceProperties Method (BlobRequestOptions, OperationContext, AsyncCallback, Object)(BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^) (BlobRequestOptions, OperationContext, AsyncCallback, Object)(BlobRequestOptions, OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to get service properties for the Blob service.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginGetServiceProperties(
    BlobRequestOptions requestOptions,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
    [DoesServiceRequestAttribute]
    virtual ICancellableAsyncResult^ BeginGetServiceProperties(
        BlobRequestOptions^ requestOptions,
        OperationContext^ operationContext,
        AsyncCallback^ callback,
        Object^ state
    )
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginGetServiceProperties :
    requestOptions:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginGetServiceProperties :
    requestOptions:BlobRequestOptions *
```
See Also

- BeginGetServiceProperties Overload
- CloudBlobClient Class

Return to top
CloudBlobClient::BeginGetServiceStats Method
(AsyncCallback, Object)(AsyncCallback^, Object^)(AsyncCallback, Object)(AsyncCallback, Object)

See Also
Begins an asynchronous operation to get service stats for the secondary Blob service endpoint.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginGetServiceStats(
    AsyncCallback callback,
    object state
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginGetServiceStats(
    AsyncCallback^ callback,
    Object^ state
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginGetServiceStats :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginGetServiceStats :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```

**VB**

```vb
<DoesServiceRequestAttribute>
Public Overridable Function BeginGetServiceStats(ByVal callback As AsyncCallback,
    ByVal state As Object) As ICancellableAsyncResult
```
See Also

BeginGetServiceStats_Overload
CloudBlobClient Class

Return to top
See Also
Begins an asynchronous operation to get service stats for the secondary Blob service endpoint.

Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginGetServiceStats(
    BlobRequestOptions requestOptions,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginGetServiceStats(
    BlobRequestOptions^ requestOptions,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginGetServiceStats :
    requestOptions:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginGetServiceStats :
    requestOptions:BlobRequestOptions *
See Also

BeginGetServiceStats_ Overload
CloudBlobClient Class

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CloudBlobClient.::BeginListBlobsSegmented Method (String, BlobContinuationToken, AsyncCallback, Object)(String^, BlobContinuationToken^, AsyncCallback^, Object^)(String, BlobContinuationToken, AsyncCallback, Object)(String, BlobContinuationToken, AsyncCallback, Object)

See Also
Begins an asynchronous operation to return a result segment containing a collection of blob items in the container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginListBlobsSegmented (string prefix,
BlobContinuationToken currentToken,
AsyncCallback callback,
object state)

C++  
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginListBlobsSegmented (String^ prefix,
BlobContinuationToken^ currentToken,
AsyncCallback^ callback,
Object^ state)

F#  
[<DoesServiceRequestAttribute>]
abstract BeginListBlobsSegmented :
prefix:string *
currentToken:BlobContinuationToken *
callback:AsyncCallback *
state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginListBlobsSegmented :
prefix:string *
See Also

- BeginListBlobsSegmented_Overload
- CloudBlobClient Class

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CloudBlobClient..::..BeginListBlobsSegmented Method (String, Boolean, BlobListingDetails, Nullable<Int32>, BlobContinuationToken, BlobRequestOptions, OperationContext, AsyncCallback, Object)(String^, Boolean, BlobListingDetails, Nullable<Int32>, BlobContinuationToken^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)(String, Boolean, BlobListingDetails, Nullable<Int32>, BlobContinuationToken, BlobRequestOptions, OperationContext, AsyncCallback, Object)(String, Boolean, BlobListingDetails, Nullable(Of Int32), BlobContinuationToken, BlobRequestOptions, OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to return a result segment containing a collection of blob items in the container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginListBlobsSegmented(
    string prefix,
    bool useFlatBlobListing,
    BlobListingDetails blobListingDetails,
    Nullable<int> maxResults,
    BlobContinuationToken currentToken,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginListBlobsSegmented(
    String^ prefix,
    bool useFlatBlobListing,
    BlobListingDetails blobListingDetails,
    Nullable<int> maxResults,
    BlobContinuationToken^ currentToken,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#  
[<DoesServiceRequestAttribute>]
abstract BeginListBlobsSegmented : string -> bool -> BlobListingDetails -> Nullable<int> -> BlobContinuationToken -> BlobRequestOptions -> OperationContext -> AsyncCallback -> object -> ICancellableAsyncResult

See Also

- BeginListBlobsSegmented Overload
- CloudBlobClient Class

Return to top
CloudBlobClient..::.BeginListContainersSegmented Method (BlobContinuationToken, AsyncCallback, Object)(BlobContinuationToken^, AsyncCallback^, Object^)

See Also
Begins an asynchronous request to return a result segment containing a collection of containers.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginListContainersSegmented(
    BlobContinuationToken continuationToken,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginListContainersSegmented(
    BlobContinuationToken* continuationToken,
    AsyncCallback* callback,
    Object* state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginListContainersSegmented :
    continuationToken:BlobContinuationToken *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginListContainersSegmented :
    continuationToken:BlobContinuationToken *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
See Also

- **BeginListContainersSegmented_Overload**
- **CloudBlobClient Class**
- **Microsoft.WindowsAzure.Storage.Blob Namespace**

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CloudBlobClient..::..BeginListContainersSegmented    C# C++ F# VB
Method (String, BlobContinuationToken, AsyncCallback, Object)(String^, BlobContinuationToken^, AsyncCallback^, Object^)(String, BlobContinuationToken, AsyncCallback, Object)(String, BlobContinuationToken, AsyncCallback, Object)
See Also
Begins an asynchronous request to return a result segment containing a collection of containers.

Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginListContainersSegmented(
    string prefix,
    BlobContinuationToken continuationToken,
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginListContainersSegmented(
    String^ prefix,
    BlobContinuationToken^ continuationToken,
    AsyncCallback^ callback,
    Object^ state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginListContainersSegmented : 
    prefix:string *
    continuationToken:BlobContinuationToken *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginListContainersSegmented : 
    prefix:string *
```
See Also

- BeginListContainersSegmented_Overload
- CloudBlobClient Class

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See Also
Begins an asynchronous request to return a result segment containing a collection of containers whose names begin with the specified prefix.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginListContainersSegmented(
    string prefix,
    ContainerListingDetails detailsIncluded,
    Nullable<int> maxResults,
    BlobContinuationToken continuationToken,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++  

public:

[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginListContainersSegmented(
    String^ prefix,
    ContainerListingDetails detailsIncluded,
    Nullable<int> maxResults,
    BlobContinuationToken^ continuationToken,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#  

[<DoesServiceRequestAttribute>]
abstract BeginListContainersSegmented : string * detailsIncluded:ContainerListingDetails * maxResults:Nullable<int> * continuationToken:BlobContinuationToken * options:BlobRequestOptions * operationContext:OperationContext * callback:AsyncCallback * state:Object *
See Also

- BeginListContainersSegmented_Overload
- CloudBlobClient Class

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**CloudBlobClient..::..BeginSetServiceProperties**

**C#**

**Method** *(ServiceProperties, AsyncCallback, Object)*

*(ServiceProperties^, AsyncCallback^, Object^)*

*(ServiceProperties, AsyncCallback, Object)*(ServiceProperties, AsyncCallback, Object)

[See Also](#)
Begins an asynchronous operation to set service properties for the Blob service.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginSetServiceProperties(
    ServiceProperties properties,
    AsyncCallback callback,
    object state
)
```

C++

```
public:
    [DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginSetServiceProperties(
    ServiceProperties^ properties,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```
[<DoesServiceRequestAttribute>]
abstract BeginSetServiceProperties :
    properties:ServiceProperties *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginSetServiceProperties :
    properties:ServiceProperties *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
See Also

- BeginSetServiceProperties_Overload
- CloudBlobClient Class

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CloudBlobClient.::.BeginSetServiceProperties Method (ServiceProperties, BlobRequestOptions, OperationContext, AsyncCallback, Object)
(ServiceProperties^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)
(ServiceProperties, BlobRequestOptions, OperationContext, AsyncCallback, Object)(ServiceProperties, BlobRequestOptions, OperationContext, AsyncCallback, Object)
See Also
Begins an asynchronous operation to set service properties for the Blob service.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginSetServiceProperties(
    ServiceProperties properties,
    BlobRequestOptions requestOptions,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginSetServiceProperties(
    ServiceProperties^ properties,
    BlobRequestOptions^ requestOptions,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]
abstract BeginSetServiceProperties :
    properties:ServiceProperties *
    requestOptions:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object * -> ICancellableAsyncResult
See Also

- BeginSetServiceProperties_Overload
- CloudBlobClient Class

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CloudBlobClient.:::EndGetBlobReferenceFromServer Method (IAsyncResult)(IAsyncResult^(IAsyncResult)(IAsyncResult) See Also
Ends an asynchronous operation to get a reference to a blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public virtual ICloudBlob EndGetBlobReferenceFromServer(IAsyncResult asyncResult)
```

C++

```cpp
public:
virtual ICloudBlob^ EndGetBlobReferenceFromServer(IAsyncResult^ asyncResult)
```

F#

```fsharp
abstract EndGetBlobReferenceFromServer : asyncResult:IAsyncResult -> ICloudBlob
override EndGetBlobReferenceFromServer : asyncResult:IAsyncResult -> ICloudBlob
```

VB

```vbnet
Public Overridable Function EndGetBlobReferenceFromServer
    asyncResult As IAsyncResult
) As ICloudBlob
```

Parameters

`asyncResult` Type:

- `System.IAsyncResult`
See Also

CloudBlobClient Class

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**See Also**
Ends an asynchronous operation to get service properties for the Blob service


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public virtual ServiceProperties EndGetServiceProperties(IAsyncResult asyncResult)
```

C++  
```cpp
public:
virtual ServiceProperties* EndGetServiceProperties(IAsyncResult* asyncResult)
```

F#  
```fsharp
abstract EndGetServiceProperties : asyncResult:IAsyncResult -> ServiceProperties
override EndGetServiceProperties : asyncResult:IAsyncResult -> ServiceProperties
```

VB  
```vbnet
Public Overridable Function EndGetServiceProperties(asyncResult As IAsyncResult) As ServiceProperties
```

Parameters

**asyncResult**  
Type:  
`System.IAsyncResultSystem::IAsyncResult^ System.IAsyncResultSystem::IAsyncResult`
See Also

CloudBlobClient Class

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<td>(IAsyncResult)(IAsyncResult^)(IAsyncResult)</td>
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</table>

See Also
Ends an asynchronous operation to get service stats for the secondary Blob service endpoint.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public virtual ServiceStats EndGetServiceStats(IAsyncResult asyncResult)
```

C++

```cpp
public:
virtual ServiceStats* EndGetServiceStats(IAsyncResult* asyncResult)
```

F#

```fsharp
abstract EndGetServiceStats : asyncResult:IAsyncResult -> ServiceStats
override EndGetServiceStats : asyncResult:IAsyncResult -> ServiceStats
```

VB

```vb
Public Overridable Function EndGetServiceStats
    asyncResult As IAsyncResult
) As ServiceStats
```

Parameters

`asyncResult` Type: `System::IAsyncResult`

`asyncResult` that references the pending asynchronous operation.
See Also

CloudBlobClient Class

Return to top
CloudBlobClient.:::EndListBlobsSegmented Method (IAsyncResult)(IAsyncResult^)(IAsyncResult)(IAsyncResult)

See Also
Ends an asynchronous operation to return a result segment containing a collection of blob items in the container.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```
public virtual BlobResultSegment EndListBlobsSegmented(IAsyncResult asyncResult)
```

C++  
```
public:
virtual BlobResultSegment^ EndListBlobsSegmented(IAsyncResult^ asyncResult)
```

F#  
```
abstract EndListBlobsSegmented : asyncResult:IAsyncResult -> BlobResultSegment
override EndListBlobsSegmented : asyncResult:IAsyncResult -> BlobResultSegment
```

VB  
```
Public Overridable Function EndListBlobsSegmented
    asyncResult As IAsyncResult
) As BlobResultSegment
```

Parameters

*asyncResult*
Type:  
```
System.IAsyncResultSystem::IAsyncResult^System.IAsyncResultSystem::IAsyncResultSystem::IAsyncResult
```

See Also

CloudBlobClient Class

Return to top
CloudBlobClient..::..EndListContainersSegmented Method (IAsyncResult)(IAsyncResult^)
(IAsyncResult)(IAsyncResult)
See Also
Ends an asynchronous operation to return a result segment containing a collection of containers.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
public virtual ContainerResultSegment EndListContainersSegmented(IAsyncResult asyncResult)
```

**C++**

```cpp
public:
virtual ContainerResultSegment^ EndListContainersSegmented(IAsyncResult^ asyncResult)
```

**F#**

```fsharp
abstract EndListContainersSegmented : asyncResult:IAsyncResult -> ContainerResultSegment
override EndListContainersSegmented : asyncResult:IAsyncResult -> ContainerResultSegment
```

**VB**

```vb
Public Overridable Function EndListContainersSegmented:asyncResult As IAsyncResult
) As ContainerResultSegment
```

**Parameters**

`asyncResult`  
Type:  
`System.IAsyncResult`
See Also

CloudBlobClient Class

Return to top
CloudBlobClient..::..EndSetServiceProperties Method (IAsyncResult)(IAsyncResult^) (IAasyncResult)(IAasyncResult)

See Also
Ends an asynchronous operation to set service properties for the Blob service.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
public virtual void EndSetServiceProperties(
    IAsyncResult asyncResult
)
```

**C++**

```cpp
public:
virtual void EndSetServiceProperties(
    IAsyncResult^ asyncResult
)
```

**F#**

```fsharp
abstract EndSetServiceProperties :
    asyncResult:IAsyncResult -> unit
override EndSetServiceProperties :
    asyncResult:IAsyncResult -> unit
```

**VB**

```vb
Public Overridable Sub EndSetServiceProperties(
    asyncResult As IAsyncResult
)
```

**Parameters**

`asyncResult`  
Type:  
[System.IAsyncResult]/[System::IAsyncResult]^/[System.IAsyncResult]
See Also

CloudBlobClient Class

Return to top
CloudBlobClient.:::GetBlobReferenceFromServerAsync Method
(StorageUri, AccessCondition, BlobRequestOptions,
OperationContext)(StorageUri^, AccessCondition^,
BlobRequestOptions^, OperationContext^)(StorageUri,
AccessCondition, BlobRequestOptions, OperationContext)
(StorageUri, AccessCondition, BlobRequestOptions,
OperationContext)

See Also
Initiates an asynchronous operation that gets a reference to a blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<ICloudBlob> GetBlobReferenceFromServerAsync(
    StorageUri blobUri,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++  

```cpp
public:

[DoesServiceRequestAttribute]
virtual Task<ICloudBlob^>^ GetBlobReferenceFromServerAsync(
    StorageUri^ blobUri,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract GetBlobReferenceFromServerAsync :
    blobUri:StorageUri *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<ICloudBlob>

[<DoesServiceRequestAttribute>]
override GetBlobReferenceFromServerAsync :
    blobUri:StorageUri *
See Also

GetBlobReferenceFromServerAsync_Overload
CloudBlobClient Class

Return to top
CloudBlobClient.:::GetBlobReferenceFromServerAsync Method
(StorageUri, AccessCondition, BlobRequestOptions,
OperationContext, CancellationToken)
(StorageUri, AccessCondition, BlobRequestOptions,
OperationContext, CancellationToken)
(StorageUri, AccessCondition, BlobRequestOptions,
OperationContext, CancellationToken)
(StorageUri^, AccessCondition^, BlobRequestOptions^, OperationContext^,
CancellationToken)(StorageUri^, AccessCondition^,
BlobRequestOptions^, OperationContext^, CancellationToken)(StorageUri, AccessCondition,
BlobRequestOptions, OperationContext, CancellationToken)
(StorageUri, AccessCondition, BlobRequestOptions,
OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation that gets a reference to a blob.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<ICloudBlob> GetBlobReferenceFromServerAsync(
    StorageUri blobUri,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<ICloudBlob^>^ GetBlobReferenceFromServerAsync(
    StorageUri^ blobUri,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#  
[<DoesServiceRequestAttribute>]
abstract GetBlobReferenceFromServerAsync :
    blobUri:StorageUri *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken -> Task<ICloudBlob>
See Also

GetBlobReferenceFromServerAsync_Overload
CloudBlobClient Class

Return to top
CloudBlobClient.::GetBlobReferenceFromServerAsync Method
(Uri)(Uri^)(Uri)(Uri)

See Also
Initiates an asynchronous operation that gets a reference to a blob.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task<ICloudBlob> GetBlobReferenceFromServerAsync(
    Uri blobUri
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<ICloudBlob^>^ GetBlobReferenceFromServerAsync(
    Uri^ blobUri
)

F#

[<DoesServiceRequestAttribute>]
abstract GetBlobReferenceFromServerAsync : blobUri:Uri -> Task<ICloudBlob>
[<DoesServiceRequestAttribute>]
override GetBlobReferenceFromServerAsync : blobUri:Uri -> Task<ICloudBlob>

VB

<DoesServiceRequestAttribute>
Public Overridable Function GetBlobReferenceFromServerAsync(blobUri As Uri
) As Task(Of ICloudBlob)
See Also

GetBlobReferenceFromServerAsync_Overload
CloudBlobClient Class

Return to top
CloudBlobClient.:::GetBlobReferenceFromServerAsync Method
(Uri, AccessCondition, BlobRequestOptions, OperationContext)(Uri^, AccessCondition^,
BlobRequestOptions^, OperationContext^)(Uri, AccessCondition, BlobRequestOptions, OperationContext)
(URI, AccessCondition, BlobRequestOptions, OperationContext)
See Also
Returns a Task<TResult><TResult><'TResult>(Of TResult) object that gets a reference to a blob.

**Namespace:** [Microsoft.WindowsAzure.Storage.Blob](http://example.com)

**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<ICloudBlob> GetBlobReferenceFromServerAsync(
    Uri blobUri,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<ICloudBlob^>^ GetBlobReferenceFromServerAsync(
    Uri^ blobUri,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract GetBlobReferenceFromServerAsync :
    blobUri:Uri *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -&gt; T

[<DoesServiceRequestAttribute>]
override GetBlobReferenceFromServerAsync :
    blobUri:Uri *
```
See Also

GetBlobReferenceFromServerAsync_Overload
CloudBlobClient Class

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See Also
Initiates an asynchronous operation that gets a reference to a blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<ICloudBlob> GetBlobReferenceFromServerAsync(
    Uri blobUri,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++

```cpp
public:

[DoesServiceRequestAttribute]
virtual Task<ICloudBlob^>^ GetBlobReferenceFromServerAsync(
    Uri^ blobUri,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract GetBlobReferenceFromServerAsync :
    blobUri:Uri *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken -
```
See Also

GetBlobReferenceFromServerAsync_Overload
CloudBlobClient Class

Return to top
CloudBlobClient.::..GetBlobReferenceFromServerAsync Method
(Uri, CancellationToken)(Uri^, CancellationToken)(Uri, CancellationToken)(Uri, CancellationToken)
See Also
Initiates an asynchronous operation that gets a reference to a blob.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<ICloudBlob> GetBlobReferenceFromServerAsync(
    Uri blobUri,
    CancellationToken cancellationToken
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<ICloudBlob^> GetBlobReferenceFromServerAsync(
    Uri^ blobUri,
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract GetBlobReferenceFromServerAsync : 
    blobUri:Uri * 
    cancellationToken:CancellationToken -> 
    Task<ICloudBlob>
[<DoesServiceRequestAttribute>]
override GetBlobReferenceFromServerAsync : 
    blobUri:Uri * 
    cancellationToken:CancellationToken -> 
    Task<ICloudBlob>
```

VB  

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function GetBlobReferenceFromServerAsync(
    blobUri As Uri,
    cancellationToken As CancellationToken)
As Task(Of ICloudBlob)
```
See Also

GetBlobReferenceFromServerAsync_Overload
CloudBlobClient Class

Return to top
See Also
Returns a reference to a CloudBlobContainer object with the specified name.

Syntax

C#  
```csharp
public CloudBlobContainer GetContainerReference(string containerName)
```

C++
```cpp
public:
CloudBlobContainer^ GetContainerReference(String^ containerName)
```

F#
```fsharp
member GetContainerReference : 
    containerName:string -> CloudBlobContainer
```

VB
```vbnet
Public Function GetContainerReference ( 
    containerName As String 
) As CloudBlobContainer
```

Parameters

*containerName*
Type: `System.String System::String ^ System.String System.String`
A string containing the name of the container.
See Also

CloudBlobClient Class

Return to top
See Also
Returns a reference to the root container.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#
```csharp
public CloudBlobContainer GetRootContainerReference()
```

C++
```cpp
public:
CloudBlobContainer^ GetRootContainerReference();
```

F#
```fsharp
member GetRootContainerReference : unit -> CloudBlobContainer
```

VB
```vbnet
Public Function GetRootContainerReference As CloudBlobContainer
```

Return Value

Type:

A `CloudBlobContainer` object.
Remarks

Note that the root container must be explicitly created, if it does not already exist, before you can read from it or write to it.
See Also

CloudBlobClient Class

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Initiates an asynchronous operation to get service properties for the Blob service.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task<ServiceProperties> GetServicePropertiesAsync()
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<ServiceProperties^>^ GetServicePropertiesAsync()
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract GetServicePropertiesAsync : unit -> Task<ServiceProperties>
[<DoesServiceRequestAttribute>]
override GetServicePropertiesAsync : unit -> Task<ServiceProperties>
```

**VB**

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function GetServicePropertiesAsync
```

### Return Value

Type:

- `System.Threading.Tasks.Task<ServiceProperties>`

A `Task<TResult>` object of type `ServiceProperties` that represents the asynchronous operation.
See Also

**GetServicePropertiesAsync Overload**
**CloudBlobClient Class**
**Microsoft.WindowsAzure.Storage.Blob Namespace**

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CloudBlobClient:::GetServicePropertiesAsync (BlobRequestOptions, OperationContext)
(BlobRequestOptions^, OperationContext^)
(BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to get service properties for the Blob service.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task<ServiceProperties> GetServicePropertiesAsync(BlobRequestOptions requestOptions, OperationContext operationContext)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<ServiceProperties^>^ GetServicePropertiesAsync(BlobRequestOptions^ requestOptions, OperationContext^ operationContext)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract.GetServicePropertiesAsync :
    requestOptions: BlobRequestOptions *
    operationContext: OperationContext -> Task<ServiceProperties>

[<DoesServiceRequestAttribute>]
override.GetServicePropertiesAsync :
    requestOptions: BlobRequestOptions *
    operationContext: OperationContext -> Task<ServiceProperties>
```

**VB**

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function GetServicePropertiesAsync
    requestOptions As BlobRequestOptions
    operationContext As OperationContext
As Task(Of ServiceProperties)
```
See Also

GetServicePropertiesAsync Overload
CloudBlobClient Class

Return to top
CloudBlobClient..::..GetServicePropertiesAsync
Method (BlobRequestOptions, OperationContext,
CancellationToken)(BlobRequestOptions^, OperationContext^,
CancellationToken)(BlobRequestOptions, OperationContext,
CancellationToken)(BlobRequestOptions, OperationContext,
CancellationToken)

See Also
Initiates an asynchronous operation to get service properties for the Blob service.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://x.)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<ServiceProperties> GetServicePropertiesAsync(
    BlobRequestOptions requestOptions,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<ServiceProperties^>^ GetServicePropertiesAsync(
    BlobRequestOptions^ requestOptions,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract GetServicePropertiesAsync : 
    requestOptions:BlobRequestOptions * 
    operationContext:OperationContext * 
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override GetServicePropertiesAsync : 
    requestOptions:BlobRequestOptions * 
    operationContext:OperationContext * 
    cancellationToken:CancellationToken ->
See Also

GetServicePropertiesAsync_Overload
CloudBlobClient Class

Return to top
| CloudBlobClient..::..GetServicePropertiesAsync Method (CancellationToken)(CancellationToken) (CancellationToken)(CancellationToken) |
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Initiates an asynchronous operation to get service properties for the Blob service.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task<ServiceProperties> GetServicePropertiesAsync(
    CancellationToken cancellationToken)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<ServiceProperties^>^ GetServicePropertiesAsync(
    CancellationToken cancellationToken)

F#

[<DoesServiceRequestAttribute>]
abstract GetServicePropertiesAsync :
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override GetServicePropertiesAsync :
    cancellationToken:CancellationToken ->

VB

<DoesServiceRequestAttribute>
Public Overridable Function GetServicePropertiesAsync(cancellationToken As CancellationToken) As Task(Of ServiceProperties)
See Also

**GetServicePropertiesAsync** Overload
**CloudBlobClient Class**
**Microsoft.WindowsAzure.Storage.Blob Namespace**

[Return to top](#)
CloudBlobClient...GetServiceStatsAsync Method ()

See Also
Initiates an asynchronous operation to get service stats for the secondary Blob service endpoint.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task<ServiceStats> GetServiceStatsAsync()
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<ServiceStats^>^ GetServiceStatsAsync()
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract GetServiceStatsAsync : unit -> Task<ServiceStats>
[<DoesServiceRequestAttribute>]
override GetServiceStatsAsync : unit -> Task<ServiceStats>
```

**VB**

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function GetServiceStatsAsync
```

**Return Value**

Type:

```
System.Threading.Tasks.Task<ServiceStats>
```

A `Task<TResult>` object of type `ServiceStats` that represents the asynchronous operation.
See Also

GetServiceStatsAsync_Overload
CloudBlobClient Class

Return to top
CloudBlobClient::GetServiceStatsAsync Method
(BlobRequestOptions, OperationContext)
(BlobRequestOptions^, OperationContext^)
(BlobRequestOptions, OperationContext)(BlobRequestOptions, OperationContext)
See Also
Initiates an asynchronous operation to get service stats for the secondary Blob service endpoint.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]  
public virtual Task<ServiceStats> GetServiceStatsAsync(  
    BlobRequestOptions requestOptions,  
    OperationContext operationContext  
)

C++

public:  
[DoesServiceRequestAttribute]  
virtual Task<ServiceStats^>^ GetServiceStatsAsync(  
    BlobRequestOptions^ requestOptions,  
    OperationContext^ operationContext  
)

F#

[<DoesServiceRequestAttribute>]  
abstract GetServiceStatsAsync :  
    requestOptions:BlobRequestOptions *  
    operationContext:OperationContext -> Task<ServiceStats>  
[<DoesServiceRequestAttribute>]  
override GetServiceStatsAsync :  
    requestOptions:BlobRequestOptions *  
    operationContext:OperationContext -> Task<ServiceStats>

VB

<DoesServiceRequestAttribute>  
Public Overridable Function GetServiceStatsAsync(  
    requestOptions As BlobRequestOptions,  
    operationContext As OperationContext  
) As Task(Of ServiceStats)
See Also

GetServiceStatsAsync_Overload
CloudBlobClient Class

Return to top
CloudBlobClient..::..GetServiceStatsAsync Method

C# ++ F# VB

(BlobRequestOptions, OperationContext,
CancellationToken)(BlobRequestOptions^, OperationContext^,
CancellationToken)(BlobRequestOptions, OperationContext,
CancellationToken)(BlobRequestOptions, OperationContext,
CancellationToken)

See Also
Initiates an asynchronous operation to get service stats for the secondary Blob service endpoint.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<ServiceStats> GetServiceStatsAsync(BlobRequestOptions requestOptions,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<ServiceStats^>^ GetServiceStatsAsync(BlobRequestOptions^ requestOptions,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract GetServiceStatsAsync :
    requestOptions:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override GetServiceStatsAsync :
    requestOptions:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->
```
See Also

GetServiceStatsAsync_Overload
CloudBlobClient Class

Return to top
CloudBlobClient:::GetServiceStatsAsync Method (CancellationToken) (CancellationToken)
See Also
Initiates an asynchronous operation to get service stats for the secondary Blob service endpoint.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<ServiceStats> GetServiceStatsAsync(CancellationToken cancellationToken)

C++
public:
[DoesServiceRequestAttribute]
virtual Task<ServiceStats^>^ GetServiceStatsAsync(CancellationToken cancellationToken)

F#
[<DoesServiceRequestAttribute>]
abstract.GetServiceStatsAsync : cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override.GetServiceStatsAsync : cancellationToken:CancellationToken ->

VB
<DoesServiceRequestAttribute>
Public Overridable Function GetServiceStatsAsync(cancellationToken As CancellationToken) As Task(Of ServiceStats)
See Also

GetServiceStatsAsync_Overload
CloudBlobClient Class

Return to top
CloudBlobClient.ListBlobsSegmentedAsync Method (String, BlobContinuationToken)(String^, BlobContinuationToken^)(String, BlobContinuationToken)

See Also
Initiates an asynchronous operation to return a result segment containing a collection of blob items in the container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task<BlobResultSegment> ListBlobsSegmentedAsync(
    string prefix,
    BlobContinuationToken currentToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<BlobResultSegment^>^ ListBlobsSegmentedAsync(
    String^ prefix,
    BlobContinuationToken^ currentToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract ListBlobsSegmentedAsync : 
    prefix:string *
    currentToken:BlobContinuationToken ->
[<DoesServiceRequestAttribute>]
override ListBlobsSegmentedAsync : 
    prefix:string *
    currentToken:BlobContinuationToken ->
```

VB

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function ListBlobsSegmentedAsync( 
    prefix As String, 
    currentToken As BlobContinuationToken) As Task(Of BlobResultSegment) 
```
See Also

ListBlobsSegmentedAsync Overload
CloudBlobClient Class

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CloudBlobClient::ListBlobsSegmentedAsync (String, BlobContinuationToken, CancellationToken)(String^, BlobContinuationToken^, CancellationToken)(String, BlobContinuationToken, CancellationToken)(String, BlobContinuationToken, CancellationToken)

See Also
Initiates an asynchronous operation to return a result segment containing a collection of blob items in the container.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/Microsoft/WindowsAzureStorage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<BlobResultSegment> ListBlobsSegmentedAsync(
    string prefix,
    BlobContinuationToken currentToken,
    CancellationToken cancellationToken)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<BlobResultSegment^>^ ListBlobsSegmentedAsync(
    String^ prefix,
    BlobContinuationToken^ currentToken,
    CancellationToken cancellationToken)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract ListBlobsSegmentedAsync :
    prefix:string *
    currentToken:BlobContinuationToken *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override ListBlobsSegmentedAsync :
    prefix:string *
    currentToken:BlobContinuationToken *
    cancellationToken:CancellationToken ->
```

VB

```vbnet
<DoesServiceRequestAttribute>
```
See Also

ListBlobsSegmentedAsync_Overload
CloudBlobClient Class

Return to top
CloudBlobClient..::.ListBlobsSegmentedAsync Method (String, Boolean, BlobListingDetails, Nullable<Int32>, BlobContinuationToken, BlobRequestOptions, OperationContext)(String^, Boolean, BlobListingDetails, Nullable<Int32>, BlobContinuationToken^, BlobRequestOptions^, OperationContext^)(String, Boolean, BlobListingDetails, Nullable(Of Int32), BlobContinuationToken, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to return a result segment containing a collection of blob items in the container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task<BlobResultSegment> ListBlobsSegmentedAsync(
    string prefix,
    bool useFlatBlobListing,
    BlobListingDetails blobListingDetails,
    Nullable<int> maxResults,
    BlobContinuationToken currentToken,
    BlobRequestOptions options,
    OperationContext operationContext)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<BlobResultSegment^>^ ListBlobsSegmentedAsync(
    String^ prefix,
    bool useFlatBlobListing,
    BlobListingDetails blobListingDetails,
    Nullable<int> maxResults,
    BlobContinuationToken^ currentToken,
    BlobRequestOptions^ options,
    OperationContext^ operationContext)

F#

[<DoesServiceRequestAttribute>]
abstract ListBlobsSegmentedAsync : 
    string *
    bool *
    BlobListingDetails *
    Nullable<int> *
    BlobContinuationToken *
    BlobRequestOptions *
    OperationContext *

See Also

ListBlobsSegmentedAsync_ Overload
CloudBlobClient Class

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See Also
Initiates an asynchronous operation to return a result segment containing a collection of blob items in the container.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<BlobResultSegment> ListBlobsSegmentedAsync(
    string prefix,
    bool useFlatBlobListing,
    BlobListingDetails blobListingDetails,
    Nullable<int> maxResults,
    BlobContinuationToken currentToken,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task<BlobResultSegment^>^ ListBlobsSegmentedAsync(
    String^ prefix,
    bool useFlatBlobListing,
    BlobListingDetails blobListingDetails,
    Nullable<int> maxResults,
    BlobContinuationToken^ currentToken,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken)

F#  
[<DoesServiceRequestAttribute>]
abstract ListBlobsSegmentedAsync : prefix:string	*
    useFlatBlobListing:bool	*
See Also

ListBlobsSegmentedAsync_Overload
CloudBlobClient Class

Return to top
CloudBlobClient..::.ListContainersSegmentedAsync  C#  C++  F#  VB
Method (BlobContinuationToken)
(BlobContinuationToken^)(BlobContinuationToken)
(BlobContinuationToken)
See Also
Initiates an asynchronous operation to return a result segment containing a collection of containers.

Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task<ContainerResultSegment> ListContainersSegmentedAsync(BlobContinuationToken continuationToken)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<ContainerResultSegment^>^ ListContainersSegmentedAsync(BlobContinuationToken^ continuationToken)

F#

[<DoesServiceRequestAttribute>]
abstract ListContainersSegmentedAsync :  
continuationToken:BlobContinuationToken
[<DoesServiceRequestAttribute>]
override ListContainersSegmentedAsync :  
continuationToken:BlobContinuationToken

VB

<DoesServiceRequestAttribute>
Public Overridable Function ListContainersSegmentedAsync (continuationToken As BlobContinuationToken) As Task(Of ContainerResultSegment)
See Also

ListContainersSegmentedAsync Overload
CloudBlobClient Class

Return to top
CloudBlobClient:::ListContainersSegmentedAsync Method (BlobContinuationToken, CancellationToken)(BlobContinuationToken^, CancellationToken)(BlobContinuationToken, CancellationToken)
Initiates an asynchronous operation to return a result segment containing a collection of containers.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]

public virtual Task<ContainerResultSegment> ListContainersSegmentedAsync(
    BlobContinuationToken continuationToken,
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]

virtual Task<ContainerResultSegment^>^ ListContainersSegmentedAsync(
    BlobContinuationToken^ continuationToken,
    CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]

abstract ListContainersSegmentedAsync :
    continuationToken:BlobContinuationToken ->
    cancellationToken:CancellationToken

[<DoesServiceRequestAttribute>]

override ListContainersSegmentedAsync :
    continuationToken:BlobContinuationToken ->
    cancellationToken:CancellationToken

VB

<DoesServiceRequestAttribute>

Public Overridable Function ListContainersSegmentedAsync
    continuityToken:BlobContinuationToken
    cancellationToken:CancellationToken


See Also

- ListContainersSegmentedAsync Overload
- CloudBlobClient Class

Return to top
CloudBlobClient..ListContainersSegmentedAsync C# C++ F# VB
Method (String, BlobContinuationToken)(String^,
BlobContinuationToken^)(String, BlobContinuationToken)
(String, BlobContinuationToken)
See Also
Initiates an asynchronous operation to return a result segment containing a collection of containers.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]  
public virtual Task<ContainerResultSegment> ListContainersSegmentedAsync(string prefix, BlobContinuationToken continuationToken)

C++  

public:  
[DoesServiceRequestAttribute]  
virtual Task<ContainerResultSegment^>^ ListContainersSegmentedAsync(String^ prefix, BlobContinuationToken^ continuationToken)

F#  

[<DoesServiceRequestAttribute>]  
abstract ListContainersSegmentedAsync : prefix:string *  
continuationToken:BlobContinuationToken  
[<DoesServiceRequestAttribute>]  
override ListContainersSegmentedAsync : prefix:string *  
continuationToken:BlobContinuationToken

VB  

<DoesServiceRequestAttribute>  
Public Overridable Function ListContainersSegmentedAsync(prefix As String, continuationToken As BlobContinuationToken) As Task(Of ContainerResultSegment)
See Also

- ListContainersSegmentedAsync Overload
- CloudBlobClient Class

Return to top
CloudBlobClient..:::ListContainersSegmentedAsyncMethod (String, BlobContinuationToken, CancellationToken)(String^, BlobContinuationToken^, CancellationToken)(String, BlobContinuationToken, CancellationToken)(String, BlobContinuationToken, CancellationToken)

See Also
Initiates an asynchronous operation to return a result segment containing a collection of containers.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

### C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task<ContainerResultSegment> ListContainersSegmentedAsync(
    string prefix,
    BlobContinuationToken continuationToken,
    CancellationToken cancellationToken
)
```

### C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<ContainerResultSegment^>^ ListContainersSegmentedAsync(
    String^ prefix,
    BlobContinuationToken^ continuationToken,
    CancellationToken cancellationToken
)
```

### F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract ListContainersSegmentedAsync :
    prefix:string *
    continuationToken:BlobContinuationToken
    cancellationToken:CancellationToken ->
    Task<ContainerResultSegment>

[<DoesServiceRequestAttribute>]
override ListContainersSegmentedAsync :
    prefix:string *
    continuationToken:BlobContinuationToken
    cancellationToken:CancellationToken ->
    Task<ContainerResultSegment>
```
See Also

ListContainersSegmentedAsync_ Overload
CloudBlobClient Class

Return to top
CloudBlobClient..ListContainersSegmentedAsync Method (String, ContainerListingDetails, Nullable<Int32>, BlobContinuationToken, BlobRequestOptions, OperationContext)(String^, ContainerListingDetails, Nullable<Int32>, BlobContinuationToken^, BlobRequestOptions^, OperationContext^)(String, ContainerListingDetails, Nullable(Of Int32), BlobContinuationToken, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to return a result segment containing a collection of containers.

Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<ContainerResultSegment> ListContainersSegmentedAsync(
    string prefix,
    ContainerListingDetails detailsIncluded,
    Nullable<int> maxResults,
    BlobContinuationToken continuationToken,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++  

```c++
public:
[DoesServiceRequestAttribute]
virtual Task<ContainerResultSegment^>^ ListContainersSegmentedAsync(
    String^ prefix,
    ContainerListingDetails detailsIncluded,
    Nullable<int> maxResults,
    BlobContinuationToken^ continuationToken,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract ListContainersSegmentedAsync : 
    prefix:string * 
    detailsIncluded:ContainerListingDetails * 
    maxResults:Nullable<int> * 
    continuationToken:BlobContinuationToken * 
    options:BlobRequestOptions * 
    operationContext:OperationContext * 
    Task<ContainerResultSegment>
```
See Also

ListContainersSegmentedAsync_ Overload
CloudBlobClient Class

Return to top
See Also
Initiates an asynchronous operation to return a result segment containing a collection of containers.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob]

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task<ContainerResultSegment> ListContainersSegmentedAsync(
    string prefix,
    ContainerListingDetails detailsIncluded,
    Nullable<int> maxResults,
    BlobContinuationToken continuationToken,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<ContainerResultSegment^>^ ListContainersSegmentedAsync(
    String^ prefix,
    ContainerListingDetails detailsIncluded,
    Nullable<int> maxResults,
    BlobContinuationToken^ continuationToken,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract ListContainersSegmentedAsync : 
    Prefix:string * 
```
See Also

ListContainersSegmentedAsync Overload
CloudBlobClient Class

Return to top
CloudBlobClient..::..SetServicePropertiesAsync

Method (ServiceProperties)(ServiceProperties^)
(ServiceProperties)(ServiceProperties)

See Also
Initiates an asynchronous operation that sets service properties for the Blob service.


Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task SetServicePropertiesAsync(
    ServiceProperties properties
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ SetServicePropertiesAsync(
    ServiceProperties^ properties
)
```

F#

```fsharp
<DoesServiceRequestAttribute>
abstract SetServicePropertiesAsync :
    properties:ServiceProperties -> Task
[<DoesServiceRequestAttribute>]
override SetServicePropertiesAsync :
    properties:ServiceProperties -> Task
```

VB

```vb
<DoesServiceRequestAttribute>
Public Overridable Function SetServicePropertiesAsync(
    properties As ServiceProperties
) As Task
```
See Also

SetServicePropertiesAsync Overload
CloudBlobClient Class

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See Also
Initiates an asynchronous operation that sets service properties for the Blob service.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task SetServicePropertiesAsync(
    ServiceProperties properties,
    BlobRequestOptions requestOptions,
    OperationContext operationContext
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ SetServicePropertiesAsync(
    ServiceProperties^ properties,
    BlobRequestOptions^ requestOptions,
    OperationContext^ operationContext
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract SetServicePropertiesAsync :
    properties:ServiceProperties *
    requestOptions:BlobRequestOptions *
    operationContext:OperationContext -> Task

[<DoesServiceRequestAttribute>]
override SetServicePropertiesAsync :
    properties:ServiceProperties *
    requestOptions:BlobRequestOptions *
    operationContext:OperationContext -> Task
```
See Also

SetServicePropertiesAsync Overload
CloudBlobClient Class

Return to top
CloudBlobClient..::.SetServicePropertiesAsync Method (ServiceProperties, BlobRequestOptions, OperationContext, CancellationToken)(ServiceProperties^, BlobRequestOptions^, OperationContext^, CancellationToken)(ServiceProperties, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation that sets service properties for the Blob service.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task SetServicePropertiesAsync(
    ServiceProperties properties,
    BlobRequestOptions requestOptions,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task^ SetServicePropertiesAsync(
    ServiceProperties^ properties,
    BlobRequestOptions^ requestOptions,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#  
[<DoesServiceRequestAttribute>]
abstract SetServicePropertiesAsync :
    properties:ServiceProperties *
    requestOptions:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override SetServicePropertiesAsync :
    properties:ServiceProperties *
See Also

SetServicePropertiesAsync Overload
CloudBlobClient Class

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ClouDBlobClient..::..SetServicePropertiesAsync Method (ServiceProperties, CancellationToken)

See Also
Initiates an asynchronous operation that sets service properties for the Blob service.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
[DoesServiceRequestAttribute]
public virtual Task SetServicePropertiesAsync(
    ServiceProperties properties,
    CancellationToken cancellationToken
)
```

C++  
```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ SetServicePropertiesAsync(
    ServiceProperties^ properties,
    CancellationToken cancellationToken
)
```

F#  
```fsharp
[<DoesServiceRequestAttribute>]
abstract SetServicePropertiesAsync :
    properties:ServiceProperties *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override SetServicePropertiesAsync :
    properties:ServiceProperties *
    cancellationToken:CancellationToken ->
```

VB  
```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function SetServicePropertiesAsync (
    properties As ServiceProperties,
    cancellationToken As CancellationToken
) As Task
```
See Also

SetServicePropertiesAsync Overload
CloudBlobClient Class

Return to top
CloudBlobContainer Constructor (StorageUri, StorageCredentials)(StorageUri^, StorageCredentials^)(StorageUri, StorageCredentials)(StorageUri, StorageCredentials)

See Also
Initializes a new instance of the `CloudBlobContainer` class.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public CloudBlobContainer(
    StorageUri containerAddress,
    StorageCredentials credentials
)

C++  
public:
CloudBlobContainer(
    StorageUri^ containerAddress,
    StorageCredentials^ credentials
)

F#  
new :
    containerAddress:StorageUri *
    credentials:StorageCredentials -> CloudBlobContainer

VB  
Public Sub New (  
    containerAddress As StorageUri,
    credentials As StorageCredentials
)

Parameters

containerAddress
See Also

- CloudBlobContainer Overload
- CloudBlobContainer Class

Return to top
CloudBlobContainer Constructor (Uri)(Uri^)(Uri) C#++F#VB (Uri)
See Also
Initializes a new instance of the CloudBlobContainer class.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public CloudBlobContainer(
    Uri containerAddress
)
```

C++

```cpp
public:
    CloudBlobContainer(
        Uri^ containerAddress
    )
```

F#

```fsharp
new :
    containerAddress:Uri -> CloudBlobContainer
```

VB

```vbnet
Public Sub New (  
    containerAddress As Uri  
)
```

Parameters

`containerAddress`

Type: System.Uri System::Uri System.Uri

A Uri object specifying the absolute URI to the container.
See Also

CloudBlobContainer Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer Constructor (Uri, StorageCredentials)(Uri, StorageCredentials)
See Also
Initializes a new instance of the **CloudBlobContainer** class.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public CloudBlobContainer(
    Uri containerAddress,
    StorageCredentials credentials
)
```

C++  
```cpp
public:
CloudBlobContainer(
    Uri^ containerAddress,
    StorageCredentials^ credentials
)
```

F#  
```fsharp
new :
    containerAddress:Uri *
    credentials:StorageCredentials -> CloudBlobContainer
```

VB  
```vbnet
Public Sub New (
    containerAddress As Uri,
    credentials As StorageCredentials
)
```

Parameters

`containerAddress`
See Also

CloudBlobContainer Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer::Metadata Property

See Also
Gets the container's metadata.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public IDictionary<string, string> Metadata { get; }
```  

C++

```cpp
public: IDictionary<String^, String^>^ Metadata
    IDictionary<String^, String^>^ get();
    private: void set(IDictionary<String^, String^>^ value);
```  

F#

```fsharp
member Metadata : IDictionary<string, string>
```  

VB

```vb
Public Property Metadata As IDictionary(Of String, String)
    Get
    Private Set
End Property
```  

**Property Value**

Type:

```csharp
System.Collections.Generic.IDictionary<String, String>
```

An IDictionary<TKey, TValue>(Of TKey, TValue) object containing the container's metadata.
See Also

CloudBlobContainer Class

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Gets the name of the container.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public string Name { get; private set; }
```

C++  
```cpp
public:
property String^ Name {
    String^ get();
    private: void set(String^ value);
}
```

F#  
```fsharp
member Name : string with get, private set
```

VB  
```vbnet
Public Property Name As String
    Get
    Private Set
End Property
```

Property Value

Type: System.String

A string containing the container name.
See Also

CloudBlobContainer Class

Return to top
CloudBlobContainer.Properties

Property CloudBlobContainer::Properties

Property CloudBlobContainer.Properties Property

See Also
Gets the container's system properties.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public BlobContainerProperties Properties { get; }
```

C++  
```cpp
public:
property BlobContainerProperties^ Properties {
    BlobContainerProperties^ get();
    private: void set(BlobContainerProperties^ value);
}
```

F#  
```fsharp
member Properties : BlobContainerProperties with
```

VB  
```vbnet
Public Property Properties As BlobContainerProperties
    Get
    Private Set
End Property
```

Property Value

Type:  
```csharp
```
A BlobContainerProperties object.
See Also

CloudBlobContainer Class

Return to top
CloudBlobContainer.ServiceClient

Property

See Also
Gets the Blob service client for the container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

C#  
```csharp
public CloudBlobClient ServiceClient { get; private set; }
```

C++  
```cpp
public:
    property CloudBlobClient^ ServiceClient {
        CloudBlobClient^ get();
        private: void set(CloudBlobClient^ value);
    }
```

F#  
```fsharp
member ServiceClient : CloudBlobClient with get, set
```

VB  
```vbnet
Public Property ServiceClient As CloudBlobClient
    Get
    Private Set
End Property
```

**Property Value**

Type:  
See Also

CloudBlobContainer Class

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</table>

See Also
Gets the container's URIs for both the primary and secondary locations.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
public StorageUri StorageUri { get; private set; }
```

**C++**

```cpp
public:
property StorageUri^ StorageUri {
    StorageUri^ get();
    private: void set(StorageUri^ value);
}
```

**F#**

```fsharp
member StorageUri : StorageUri with get, private
```

**VB**

```vbnet
Public Property StorageUri As StorageUri
    Get
    Private Set
End Property
```

**Property Value**


An object of type `StorageUri` containing the container's URIs for both the primary and secondary locations.
See Also

CloudBlobContainer Class

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</table>

See Also
Gets the container's URI for the primary location.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public Uri Uri { get; }
```

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

F#  
```fsharp
member Uri : Uri with get
```

VB  
```vbnet
Public ReadOnly Property Uri As Uri
```

Property Value

Type: `System.Uri`, `System::Uri`, `System.Uri`, `System::Uri`

A Uri specifying the absolute URI to the container at the primary location.
See Also

CloudBlobContainer Class

Return to top
CloudBlobContainer.....AcquireLeaseAsync Method
(Nullable<TimeSpan>, String)
(Nullable<TimeSpan>, String^)(Nullable<TimeSpan>, String)
(Nullable(Of TimeSpan), String)
See Also
Initiates an asynchronous operation that acquires a lease on this container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C# (Copy Code)

```csharp
[DoesServiceRequestAttribute]
public virtual Task<string> AcquireLeaseAsync(
    Nullable<TimeSpan> leaseTime,
    string proposedLeaseId = null
)
```

C++ (Copy Code)

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ AcquireLeaseAsync(
    Nullable<TimeSpan> leaseTime,
    String^ proposedLeaseId = null
)
```

F# (Copy Code)

```fsharp
[<DoesServiceRequestAttribute>]
abstract AcquireLeaseAsync :
    leaseTime:Nullable<TimeSpan> *
    proposedLeaseId:string = null -> Task<

[<DoesServiceRequestAttribute>]
override AcquireLeaseAsync :
    leaseTime:Nullable<TimeSpan> *
    proposedLeaseId:string = null -> Task<
```

VB (Copy Code)

```vb
<DoesServiceRequestAttribute>
Public Overridable Function AcquireLeaseAsync
```
See Also

AcquireLeaseAsync_Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer:::AcquireLeaseAsync Method

See Also
Initiates an asynchronous operation that acquires a lease on this container.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://msdn.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task<string> AcquireLeaseAsync(
    Nullable<TimeSpan> leaseTime,
    string proposedLeaseId,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ AcquireLeaseAsync(
    Nullable<TimeSpan> leaseTime,
    String^ proposedLeaseId,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#

[<DoesServiceRequestAttribute>]
abstract AcquireLeaseAsync :
    leaseTime:Nullable<TimeSpan> *
    proposedLeaseId:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
See Also

AcquireLeaseAsync_Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer:::AcquireLeaseAsync Method

C# C++ F# VB
(Nullable<TimeSpan>, String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(Nullable<TimeSpan>, String^, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)
(Nullable(Of TimeSpan), String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(Nullable(Of TimeSpan), String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation that acquires a lease on this container.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task<string> AcquireLeaseAsync(
    Nullable<TimeSpan> leaseTime,
    string proposedLeaseId,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ AcquireLeaseAsync(
    Nullable<TimeSpan> leaseTime,
    String^ proposedLeaseId,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract AcquireLeaseAsync :
    leaseTime:Nullable<TimeSpan> *
    proposedLeaseId:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken *
See Also

AcquireLeaseAsync_Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer:::AcquireLeaseAsync Method  

C#  

C++  

F#  

VB  

(Nullable<TimeSpan>, String, CancellationToken)  

(Nullable<TimeSpan>, String^, CancellationToken)  

(Nullable<TimeSpan>, String, CancellationToken)(Nullable(Of TimeSpan), String, CancellationToken)  

See Also
Initiates an asynchronous operation that acquires a lease on this container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task<string> AcquireLeaseAsync(
    Nullable<TimeSpan> leaseTime,
    string proposedLeaseId,
    CancellationToken cancellationToken
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ AcquireLeaseAsync(
    Nullable<TimeSpan> leaseTime,
    String^ proposedLeaseId,
    CancellationToken cancellationToken
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract AcquireLeaseAsync :
    leaseTime:Nullable<TimeSpan> *
    proposedLeaseId:string *
    cancellationToken:CancellationToken ->
    string
```

```fsharp
[<DoesServiceRequestAttribute>]
override AcquireLeaseAsync :
    leaseTime:Nullable<TimeSpan> *
    proposedLeaseId:string *
    cancellationToken:CancellationToken ->
    string
```
See Also

AcquireLeaseAsync_Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer::..BeginAcquireLease Method

C#  

```csharp
(Nullable<TimeSpan>, String, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)
```

VB  

```vbnet
(Nullable(Of TimeSpan), String, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)
```

F#  

```fsharp
(Nullable<TimeSpan>, String, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)
```

See Also
Begins an asynchronous operation to acquire a lease on this container.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginAcquireLease(
    Nullable<TimeSpan> leaseTime,
    string proposedLeaseId,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginAcquireLease(
    Nullable<TimeSpan> leaseTime,
    String^ proposedLeaseId,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginAcquireLease : 
    leaseTime:Nullable<TimeSpan> * 
```
See Also

BeginAcquireLease Overload
CloudBlobContainer Class

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CloudBlobContainer.:..BeginAcquireLease Method  C#  C++  F#  VB
(Nullable<TimeSpan>, String, AsyncCallback, Object)(Nullable<TimeSpan>, String^, AsyncCallback^, Object^)(Nullable<TimeSpan>, String, AsyncCallback, Object)(Nullable(Of TimeSpan), String, AsyncCallback, Object)

See Also
Begins an asynchronous operation to acquire a lease on this container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]

```csharp
public virtual ICancellableAsyncResult BeginAcquireLease(
    Nullable<TimeSpan> leaseTime,
    string proposedLeaseId,
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:

[DoesServiceRequestAttribute]

virtual ICancellableAsyncResult* BeginAcquireLease(
    Nullable<TimeSpan> leaseTime,
    String^ proposedLeaseId,
    AsyncCallback^ callback,
    Object^ state
)
```

F#  

```
[<DoesServiceRequestAttribute>]

abstract BeginAcquireLease : 
    leaseTime:Nullable<TimeSpan> *
    proposedLeaseId:string *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]

override BeginAcquireLease :
    leaseTime:Nullable<TimeSpan> *
```
See Also

BeginAcquireLease Overload
CloudBlobContainer Class

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CloudBlobContainer...BeginBreakLease Method
(Nullable<TimeSpan>, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(Nullable<TimeSpan>, AccessCondition^,
BlobRequestOptions^, OperationContext^, AsyncCallback^,
Object^)(Nullable<TimeSpan>, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(Nullable(Of TimeSpan), AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)
See Also
Begins an asynchronous operation to break the current lease on this container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginBreakLease(
    Nullable<TimeSpan> breakPeriod,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++  

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginBreakLease(
    Nullable<TimeSpan> breakPeriod,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#  

[<DoesServiceRequestAttribute>]
abstract BeginBreakLease :
    breakPeriod:Nullable<TimeSpan>  *
    accessCondition:AccessCondition  *
    options:BlobRequestOptions  *
    callback:AsyncCallback  *
    state:Object  ->  ICancellableAsyncResult
See Also

BeginBreakLease Overload
CloudBlobContainer Class

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CloudBlobContainer.....BeginBreakLease Method
(Nullable<TimeSpan>, AsyncCallback, Object)
(Nullable<TimeSpan>, AsyncCallback^, Object^)
(Nullable<TimeSpan>, AsyncCallback, Object)(Nullable(Of TimeSpan), AsyncCallback, Object)

See Also
Begins an asynchronous operation to break the current lease on this container.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginBreakLease(
        Nullable<TimeSpan> breakPeriod,
        AsyncCallback callback,
        object state
    )

C++  
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginBreakLease(
        Nullable<TimeSpan> breakPeriod,
        AsyncCallback^ callback,
        Object^ state
    )

F#  
[<DoesServiceRequestAttribute>]
abstract BeginBreakLease :
    breakPeriod:Nullable<TimeSpan>  *
callback:AsyncCallback  *
state:Object  ->  ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginBreakLease :
    breakPeriod:Nullable<TimeSpan>  *
callback:AsyncCallback  *
state:Object  ->  ICancellableAsyncResult
See Also

BeginBreakLease Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer::BeginChangeLease Method

C#  
C++  
F#  
VB

(String, AccessCondition, AsyncCallback, Object)
(String^, AccessCondition^, AsyncCallback^, Object^)
(String, AccessCondition, AsyncCallback, Object)(String, AccessCondition, AsyncCallback, Object)

See Also
Begins an asynchronous operation to change the lease on this container.

**Namespace:** [Microsoft.WindowsAzure.Storage.Blob](http://msdn.microsoft.com)

**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginChangeLease(
    string proposedLeaseId,
    AccessCondition accessCondition,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginChangeLease(
    String^ proposedLeaseId,
    AccessCondition^ accessCondition,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginChangeLease : 
    proposedLeaseId:string ->
    accessCondition:AccessCondition ->
    callback:AsyncCallback ->
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginChangeLease : 
    proposedLeaseId:string ->
```
See Also

BeginChangeLease Overload
CloudBlobContainer Class

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CloudBlobContainer::BeginChangeLease Method

C# C++ F# VB


See Also
Begins an asynchronous operation to change the lease on this container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

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| **C#**   | ```
public virtual ICancellableAsyncResult BeginChangeLease(
    string proposedLeaseId,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
``` |
| **C++**  | ```
public:
    virtual ICancellableAsyncResult^ BeginChangeLease(
    String^ proposedLeaseId,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
``` |
| **F#**   | ```
abstract BeginChangeLease :
    proposedLeaseId:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
``` |
See Also

- BeginChangeLease Overload
- CloudBlobContainer Class

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See Also
Begins an asynchronous operation to create a container.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://example.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginCreate(
    AsyncCallback callback,
    object state
)

C++
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginCreate(
    AsyncCallback^ callback,
    Object^ state
)

F#
[<DoesServiceRequestAttribute>]
abstract BeginCreate :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
[<DoesServiceRequestAttribute>]
override BeginCreate :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

VB
<DoesServiceRequestAttribute>
Public Overridable Function BeginCreate (}
See Also

BeginCreate_Overload
CloudBlobContainer Class

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CloudBlobContainer::::BeginCreate Method
(BlobContainerPublicAccessType,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(BlobContainerPublicAccessType,
BlobRequestOptions^, OperationContext^, AsyncCallback^,
Object^)(BlobContainerPublicAccessType,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(BlobContainerPublicAccessType, BlobRequestOptions,
OperationContext, AsyncCallback, Object)
See Also
Begins an asynchronous operation to create a container and specify the level of access to the container's data.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginCreate(
    BlobContainerPublicAccessType accessType,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++  

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginCreate(
    BlobContainerPublicAccessType accessType,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#  

[<DoesServiceRequestAttribute>]
abstract BeginCreate :
    accessType: BlobContainerPublicAccessType
    options: BlobRequestOptions *
    operationContext: OperationContext *
    callback: AsyncCallback *
    state: Object -> ICancellableAsyncResult
See Also

BeginCreate Overload
CloudBlobContainer Class

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CloudBlobContainer.....BeginCreate Method
(BlobRequestOptions, OperationContext,
AsyncCallback, Object)(BlobRequestOptions^,
OperationContext^, AsyncCallback^, Object^)
(BlobRequestOptions, OperationContext, AsyncCallback,
Object)(BlobRequestOptions, OperationContext,
AsycCallback, Object)
See Also
Begins an asynchronous operation to create a container.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginCreate(
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginCreate(
    BlobRequestOptions* options,
    OperationContext* operationContext,
    AsyncCallback* callback,
    Object* state
)

F#
[<DoesServiceRequestAttribute>]
abstract BeginCreate :
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginCreate :
    options:BlobRequestOptions *
See Also

**BeginCreate_Overload**
**CloudBlobContainer Class**
**Microsoft.WindowsAzure.Storage.Blob Namespace**

[Return to top](#)
CloudBlobContainer. BeginCreateIfNotExists
Method (AsyncCallback, Object)(AsyncCallback^, Object^)(AsyncCallback, Object)(AsyncCallback, Object)
See Also
Begins an asynchronous request to create the container if it does not already exist.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginCreateIfNotExists(
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginCreateIfNotExists(
    AsyncCallback^ callback,
    Object^ state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginCreateIfNotExists :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginCreateIfNotExists :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```

VB  

```vb
<DoesServiceRequestAttribute>
Public Overridable Function BeginCreateIfNotEx-
```
See Also

BeginCreateIfNotExists_Overload
CloudBlobContainer Class

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CloudBlobContainer....BeginCreateIfNotExists  
Method (BlobContainerPublicAccessType, 
BlobRequestOptions, OperationContext, AsyncCallback, 
Object)(BlobContainerPublicAccessType, 
BlobRequestOptions^, OperationContext^, AsyncCallback^, 
Object^)(BlobContainerPublicAccessType, 
BlobRequestOptions, OperationContext, AsyncCallback, 
Object)(BlobContainerPublicAccessType, BlobRequestOptions, 
OperationContext, AsyncCallback, 
Object)

See Also
Begins an asynchronous request to create the container if it does not already exist.

Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginCreateIfNotExists(BlobContainerPublicAccessType accessType,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state)
```

C++  

```cpp
public:

[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginCreateIfNotExists(BlobContainerPublicAccessType accessType,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginCreateIfNotExists : accessType:BlobContainerPublicAccessType *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object *
    -> ICancellableAsyncResult
```

---

Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginCreateIfNotExists(BlobContainerPublicAccessType accessType,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state)
```

C++  

```cpp
public:

[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginCreateIfNotExists(BlobContainerPublicAccessType accessType,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginCreateIfNotExists : accessType:BlobContainerPublicAccessType *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object *
    -> ICancellableAsyncResult
```
See Also

BeginCreateIfNotExists_ Overload
CloudBlobContainer Class

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CloudBlobContainer:

BeginCreateIfNotExists Method (BlobRequestOptions, OperationContext, AsyncCallback, Object)
(BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)
(BlobRequestOptions, OperationContext, AsyncCallback, Object)
(BlobRequestOptions, OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous request to create the container if it does not already exist.

**Namespace**:  Microsoft.WindowsAzure.Storage.Blob

Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginCreateIfNotExists(
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
    [DoesServiceRequestAttribute]
    virtual ICancellableAsyncResult^ BeginCreateIfNotExists(
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginCreateIfNotExists :
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginCreateIfNotExists :
    options:BlobRequestOptions *
```
See Also

BeginCreateIfNotExists_Overload
CloudBlobContainer Class

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CloudBlobContainer.:::BeginDelete Method

(“AccessCondition”, “BlobRequestOptions”,
 “OperationContext”, “AsyncCallback”, “Object”)

See Also
Begins an asynchronous operation to delete a container.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDelete(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDelete(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginDelete :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
See Also

BeginDelete Overload
CloudBlobContainer Class

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CloudBlobContainer...BeginDelete Method
(AsyncCallback, Object)(AsyncCallback^,
Object^)(AsyncCallback, Object)(AsyncCallback, Object)
See Also
Begins an asynchronous operation to delete a container.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://www.microsoft.com)
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDelete(
    AsyncCallback callback,
    object state
)

C++  

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDelete(
    AsyncCallback^ callback,
    Object^ state
)

F#  

[<DoesServiceRequestAttribute>]
abstract BeginDelete :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginDelete :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

VB  

<DoesServiceRequestAttribute>
Public Overridable Function BeginDelete (
See Also

- `BeginDelete_Overload`
- `CloudBlobContainer Class`

[Return to top]
CloudBlobContainer::BeginDeleteIfExists Method (C#) (C++) (F#) (VB)

BeginDeleteIfExists (AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous request to delete the container if it already exists.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

### C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDeleteIfExists(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

### C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDeleteIfExists(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

### F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginDeleteIfExists :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
See Also

BeginDeleteIfExists_Overload
CloudBlobContainer Class

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CloudBlobContainer....BeginDeleteIfExists Method
(AsyncCallback, Object)(AsyncCallback^,
Object^)(AsyncCallback, Object)(AsyncCallback, Object)
See Also
Begins an asynchronous request to delete the container if it already exists.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDeleteIfExists(
    AsyncCallback callback,
    object state
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDeleteIfExists(
    AsyncCallback^ callback,
    Object^ state
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginDeleteIfExists :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginDeleteIfExists :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```

**VB**

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function BeginDeleteIfExists(
```
See Also

BeginDeleteIfExists_Overload
CloudBlobContainer Class

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See Also
Begins an asynchronous request to check whether the container exists.

Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginExists(
    AsyncCallback callback,
    object state
)

C++  
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginExists(
    AsyncCallback^ callback,
    Object^ state
)

F#  
[<DoesServiceRequestAttribute>]
abstract BeginExists :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
[<DoesServiceRequestAttribute>]
override BeginExists :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

VB  
<DoesServiceRequestAttribute>
Public Overridable Function BeginExists (
See Also

- BeginExists Overload
- CloudBlobContainer Class

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CloudBlobContainer.BlobContainerBeginExists Method
(BlobRequestOptions, OperationContext, AsyncCallback, Object)
(BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)
See Also
Begins an asynchronous request to check whether the container exists.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginExists(
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
    [DoesServiceRequestAttribute]
    virtual ICancellableAsyncResult^ BeginExists(
        BlobRequestOptions^ options,
        OperationContext^ operationContext,
        AsyncCallback^ callback,
        Object^ state
    )
```

F#

```fsharp
[<DoesServiceRequestAttribute>]  
abstract BeginExists :
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginExists :
    options:BlobRequestOptions *
```
See Also

BeginExists Overload
CloudBlobContainer Class

Return to top

See Also
Begins an asynchronous operation to retrieve the container's attributes.

**Namespace:** [Microsoft.WindowsAzure.Storage.Blob](http://www.microsoft.com)

**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginFetchAttributes(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
);
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginFetchAttributes(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
);
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginFetchAttributes :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
See Also

BeginFetchAttributes_ Overload
CloudBlobContainer Class

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CloudBlobContainer....BeginFetchAttributes
Method (AsyncCallback, Object)(AsyncCallback^, Object^)(AsyncCallback, Object)(AsyncCallback, Object)

See Also
Begins an asynchronous operation to retrieve the container's attributes.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginFetchAttributes(
    AsyncCallback callback,
    object state
)
```

C++
```
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginFetchAttributes(
    AsyncCallback^ callback,
    Object^ state
)
```

F#
```
[<DoesServiceRequestAttribute>]
abstract BeginFetchAttributes : 
    callback:AsyncCallback *  
    state:Object -> ICancellableAsyncResult
[<DoesServiceRequestAttribute>]
override BeginFetchAttributes : 
    callback:AsyncCallback *  
    state:Object -> ICancellableAsyncResult
```

VB
```
<DoesServiceRequestAttribute>
Public Overridable Function BeginFetchAttributes(
```
See Also

BeginFetchAttributes Overload
CloudBlobContainer Class

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See Also
Begins an asynchronous operation to get a reference to a blob in this container.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://example.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginGetBlobReferenceFromServer(
    string blobName,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginGetBlobReferenceFromServer(
    String^ blobName,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginGetBlobReferenceFromServer : 
    blobName:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:object *
    ICancellableAsyncResult
```
See Also

BeginGetBlobReferenceFromServer Overload
CloudBlobContainer Class

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CloudBlobContainer...BeginGetBlobReferenceFromServer
Method (String, AsyncCallback, Object)(String^,
AsyncCallback^, Object^)(String, AsyncCallback, Object)
(String, AsyncCallback, Object)
See Also
Begins an asynchronous operation to get a reference to a blob in this container.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginGetBlobReferenceFromServer(
    string blobName,
    AsyncCallback callback,
    object state
)

C++  
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginGetBlobReferenceFromServer(
    String^ blobName,
    AsyncCallback^ callback,
    Object^ state
)

F#  
[<DoesServiceRequestAttribute>]
abstract BeginGetBlobReferenceFromServer : 
    blobName:string * 
    callback:AsyncCallback * 
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginGetBlobReferenceFromServer : 
    blobName:string * 
    callback:AsyncCallback * 
    state:Object -> ICancellableAsyncResult
See Also

- BeginGetBlobReferenceFromServer Overload
- CloudBlobContainer Class

Return to top
CloudBlobContainer.


See Also
Begins an asynchronous request to get the permissions settings for the container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginGetPermissions(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginGetPermissions(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginGetPermissions :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object *
    ICancellableAsyncResult -> unit
```
See Also

BeginGetPermissions Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer.....BeginGetPermissions

Method (AsyncCallback, Object)(AsyncCallback^, Object^)(AsyncCallback, Object)(AsyncCallback, Object)

See Also
Begins an asynchronous request to get the permissions settings for the container.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginGetPermissions(
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginGetPermissions(
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginGetPermissions :
    callback:AsyncCallback -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginGetPermissions :
    callback:AsyncCallback -> ICancellableAsyncResult
```

VB

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function BeginGetPermissions (
```

```vbnet```

```vbnet
    callback As AsyncCallback,
    state As Object
) As ICancellableAsyncResult
```
See Also

- `BeginGetPermissions Overload`
- `CloudBlobContainer Class`

Return to top
CloudBlobContainer.

See Also
Begins an asynchronous operation to return a result segment containing a collection of blob items in the container.

**Namespace:** [Microsoft.WindowsAzure.Storage.Blob](https://github.com/Azure/azure-storage-dotnet)

**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]  
public virtual ICancellableAsyncResult BeginListBlobsSegmented(
    BlobContinuationToken currentToken,
    AsyncCallback callback,
    object state
)

C++  
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult& BeginListBlobsSegmented(
    BlobContinuationToken& currentToken,
    AsyncCallback& callback,
    Object& state
)

F#  
[<DoesServiceRequestAttribute>]
abstract BeginListBlobsSegmented :  
    currentToken:BlobContinuationToken *  
    callback:AsyncCallback *  
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginListBlobsSegmented :  
    currentToken:BlobContinuationToken *  
    callback:AsyncCallback *  
    state:Object -> ICancellableAsyncResult
See Also

- BeginListBlobsSegmented_Overload
- CloudBlobContainer Class

Return to top
CloudBlobContainer...BeginListBlobsSegmented
Method (String, BlobContinuationToken,
AsyncCallback, Object)(String^, BlobContinuationToken^,
 AsyncCallback^, Object^)(String, BlobContinuationToken,
 AsyncCallback, Object)(String, BlobContinuationToken,
 AsyncCallback, Object)

See Also
Begins an asynchronous operation to return a result segment containing a collection of blob items in the container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginListBlobsSegmented(
    string prefix,
    BlobContinuationToken currentToken,
    AsyncCallback callback,
    object state
)
```

**C++**

```
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginListBlobsSegmented(
    String^ prefix,
    BlobContinuationToken^ currentToken,
    AsyncCallback^ callback,
    Object^ state
)
```

**F#**

```
[<DoesServiceRequestAttribute>]
abstract BeginListBlobsSegmented :
    prefix:string *
    currentToken:BlobContinuationToken *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginListBlobsSegmented :
    prefix:string *
    currentToken:BlobContinuationToken *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
See Also

[BeginListBlobsSegmented_Overload](#)
[CloudBlobContainer Class](#)

[Return to top](#)
CloudBlobContainer::BeginListBlobsSegmented Method (String, Boolean, BlobListingDetails, Nullable<Int32>, BlobContinuationToken, BlobRequestOptions, OperationContext, AsyncCallback, Object)
(String^, Boolean, BlobListingDetails, Nullable<Int32>, BlobContinuationToken^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)
(String, Boolean, BlobListingDetails, Nullable(Of Int32), BlobContinuationToken, BlobRequestOptions, OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to return a result segment containing a collection of blob items in the container.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://www.microsoft.com)

Syntax

C#

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginListBlobsSegmented(
    string prefix,
    bool useFlatBlobListing,
    BlobListingDetails blobListingDetails,
    Nullable<int> maxResults,
    BlobContinuationToken currentToken,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginListBlobsSegmented(
    String^ prefix,
    bool useFlatBlobListing,
    BlobListingDetails blobListingDetails,
    Nullable<int> maxResults,
    BlobContinuationToken^ currentToken,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]
abstract BeginListBlobsSegmented : 

See Also

BeginListBlobsSegmented Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer.::BeginReleaseLease Method

(C::AccessCondition, ::AsyncCallback, ::Object)

(C::AccessCondition^, ::AsyncCallback^, ::Object^)

(C::AccessCondition, ::AsyncCallback, ::Object)(C::AccessCondition, ::AsyncCallback, ::Object)

See Also
Begins an asynchronous operation to release the lease on this container.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginReleaseLease(
    AccessCondition accessCondition,
    AsyncCallback callback,
    [object] state
)

C++  
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginReleaseLease(
    AccessCondition^ accessCondition,
    AsyncCallback^ callback,
    Object^ state
)

F#  
[<DoesServiceRequestAttribute>]
abstract BeginReleaseLease :
    accessCondition:AccessCondition *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginReleaseLease :
    accessCondition:AccessCondition *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
See Also

BeginReleaseLease Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer::BeginReleaseLease Method

C#  

C++

F#  

VB

(ACCESSCONDITION, BlobRequestOptions, 
OperationContext, AsyncCallback, Object)(ACCESSCONDITION^, 
BlobRequestOptions^, OperationContext^, AsyncCallback^, 
Object^)(ACCESSCONDITION, BlobRequestOptions, 
OperationContext, AsyncCallback, Object)(ACCESSCONDITION, 
BlobRequestOptions, OperationContext, AsyncCallback, 
Object)

See Also
Begins an asynchronous operation to release the lease on this container.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginReleaseLease(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++  

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginReleaseLease(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#  

[D<DoesServiceRequestAttribute>]
abstract BeginReleaseLease :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
See Also

BeginReleaseLease Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer.::::::BeginRenewLease Method
  (AccessCondition, AsyncCallback, Object)
  (AccessCondition^, AsyncCallback^, Object^)
  (AccessCondition, AsyncCallback, Object)(AccessCondition, AsyncCallback, Object)

See Also
Begins an asynchronous operation to renew a lease on this container.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginRenewLease(
    AccessCondition accessCondition,
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginRenewLease(
    AccessCondition* accessCondition,
    AsyncCallback* callback,
    Object* state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginRenewLease :
    accessCondition:AccessCondition *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginRenewLease :
    accessCondition:AccessCondition *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
See Also

BeginRenewLease_Overload
CloudBlobContainer Class

Return to top
**CloudBlobContainer:**...**BeginRenewLease Method**

(C#)(C++)

F#

VB

See Also
Begins an asynchronous operation to renew a lease on this container.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginRenewLease(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginRenewLease(
    AccessCondition* accessCondition,
    BlobRequestOptions* options,
    OperationContext* operationContext,
    AsyncCallback* callback,
    Object* state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginRenewLease :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
See Also

- BeginRenewLease_Overload
- CloudBlobContainer Class

Return to top
CloudBlobContainer.::::BeginSetMetadata Method


See Also
Begins an asynchronous operation to set user-defined metadata on the container.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginSetMetadata(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginSetMetadata(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginSetMetadata :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object * ICancellableAsyncResult
```
See Also

BeginSetMetadata_Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer...BeginSetMetadata Method
(AsyncCallback, Object)(AsyncCallback^,
Object^)(AsyncCallback, Object)(AsyncCallback, Object)

See Also
Begins an asynchronous operation to set user-defined metadata on the container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginSetMetadata(
    AsyncCallback callback,  
    object state
)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginSetMetadata(
    AsyncCallback^ callback,  
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]
abstract BeginSetMetadata :  
    callback:AsyncCallback *  
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginSetMetadata :  
    callback:AsyncCallback *  
    state:Object -> ICancellableAsyncResult

VB

<DoesServiceRequestAttribute>
Public Overridable Function BeginSetMetadata (  
    callback As AsyncCallback,  
    state As Object  
) As ICancellableAsyncResult
See Also

BeginSetMetadata_Overload
CloudBlobContainer Class

Return to top
### CloudBlobContainer<br>Method (BlobContainerPermissions, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)<br>(BlobContainerPermissions^, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)<br>(BlobContainerPermissions, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)<br>

See Also
Begins an asynchronous request to set permissions for the container.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancelableAsyncResult BeginSetPermissions(
    BlobContainerPermissions permissions,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
  [DoesServiceRequestAttribute]
  virtual ICancelableAsyncResult^ BeginSetPermissions(
    BlobContainerPermissions^ permissions,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
  )
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginSetPermissions :
    permissions:BlobContainerPermissions *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    callback:AsyncCallback *
    state:Object -> ICancelableAsyncResult
```
See Also

BeginSetPermissions Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer::BeginSetPermissions Method

BlobContainerPermissions, AsyncCallback, Object)

See Also
Begins an asynchronous request to set permissions for the container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginSetPermissions(BlobContainerPermissions permissions, AsyncCallback callback, object state)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginSetPermissions(BlobContainerPermissions^ permissions, AsyncCallback^ callback, Object^ state)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginSetPermissions :  
    permissions:BlobContainerPermissions *  
    callback:AsyncCallback *  
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginSetPermissions :  
    permissions:BlobContainerPermissions *  
    callback:AsyncCallback *  
    state:Object -> ICancellableAsyncResult
```
See Also

- BeginSetPermissions_Overload
- CloudBlobContainer Class

Return to top
CloudBlobContainer......BreakLeaseAsync Method
(Nullable<TimeSpan>)(Nullable<TimeSpan>)
(Nullable<TimeSpan>)(Nullable(Of TimeSpan))
See Also
Initiates an asynchronous operation that breaks the current lease on this container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task<TimeSpan> BreakLeaseAsync(  
    Nullable<TimeSpan> breakPeriod
)

C++

public:  
[DoesServiceRequestAttribute]
virtual Task<TimeSpan>^ BreakLeaseAsync(  
    Nullable<TimeSpan> breakPeriod
)

F#  

[<DoesServiceRequestAttribute>]
abstract BreakLeaseAsync :  
    breakPeriod:Nullable<TimeSpan> -> Task  
[<DoesServiceRequestAttribute>]
override BreakLeaseAsync :  
    breakPeriod:Nullable<TimeSpan> -> Task  

VB  

<DoesServiceRequestAttribute>  
Public Overridable Function BreakLeaseAsync (  
    breakPeriod As Nullable(Of TimeSpan)
) As Task(Of TimeSpan)
See Also

BreakLeaseAsync_Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer...BreakLeaseAsync Method C# C++ F# VB
(Nullable<TimeSpan>, AccessCondition,
BlobRequestOptions, OperationContext)(Nullable<TimeSpan>,
AccessCondition^, BlobRequestOptions^, OperationContext^)
(Nullable<TimeSpan>, AccessCondition, BlobRequestOptions,
OperationContext)(Nullable(Of TimeSpan), AccessCondition,
BlobRequestOptions, OperationContext)
See Also
Initiates an asynchronous operation that breaks the current lease on this container.

Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task<TimeSpan> BreakLeaseAsync(
    Nullable<TimeSpan> breakPeriod,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<TimeSpan>^ BreakLeaseAsync(
    Nullable<TimeSpan>^ breakPeriod,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#

```
[<DoesServiceRequestAttribute>]
abstract BreakLeaseAsync :
    breakPeriod:Nullable<TimeSpan> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<

[<DoesServiceRequestAttribute>]
override BreakLeaseAsync :
    breakPeriod:Nullable<TimeSpan> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<
```
See Also

- [BreakLeaseAsync_Overload](#)
- [CloudBlobContainer Class](#)

[Return to top](#)
CloudBlobContainer::BreakLeaseAsync Method
(C#) (C++) (F#) (VB)
(Nullable<TimeSpan>, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(Nullable<TimeSpan>, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)
(Nullable<TimeSpan>, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(Nullable(Of TimeSpan), AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation that breaks the current lease on this container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<TimeSpan> BreakLeaseAsync(
    Nullable<TimeSpan> breakPeriod,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<TimeSpan>^ BreakLeaseAsync(
    Nullable<TimeSpan>^ breakPeriod,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BreakLeaseAsync :
    breakPeriod:Nullable<TimeSpan> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken cancellationToken
```
See Also

BreakLeaseAsync_Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer::BreakLeaseAsync Method (Nullable<TimeSpan>, CancellationToken) (Nullable<TimeSpan>, CancellationToken) (Nullable<TimeSpan>, CancellationToken) (Nullable(Of TimeSpan), CancellationToken)

See Also
Initiates an asynchronous operation that breaks the current lease on this container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<TimeSpan> BreakLeaseAsync(
    Nullable<TimeSpan> breakPeriod,
    CancellationToken cancellationToken
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task<TimeSpan>^ BreakLeaseAsync(
    Nullable<TimeSpan> breakPeriod,
    CancellationToken cancellationToken
)

F#  
[<DoesServiceRequestAttribute>]
abstract BreakLeaseAsync :
    breakPeriod:Nullable<TimeSpan>  *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override BreakLeaseAsync :
    breakPeriod:Nullable<TimeSpan>  *
    cancellationToken:CancellationToken ->

VB  
<DoesServiceRequestAttribute>
Public Overridable Function BreakLeaseAsync (}
See Also

BreakLeaseAsync Overload
CloudBlobContainer Class

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CloudBlobContainer.....ChangeLeaseAsync Method  C# C++ F# VB
(String, AccessCondition)(String^,
AccessCondition^)(String, AccessCondition)(String,
AccessCondition)
See Also
Initiates an asynchronous operation that changes the lease ID on this container.

### Syntax

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</tbody>
</table>

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task<string> ChangeLeaseAsync(
    string proposedLeaseId,
    AccessCondition accessCondition
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ ChangeLeaseAsync(
    String^ proposedLeaseId,
    AccessCondition^ accessCondition
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract ChangeLeaseAsync :
    proposedLeaseId:string *
    accessCondition:AccessCondition -> Task<string>

[<DoesServiceRequestAttribute>]
override ChangeLeaseAsync :
    proposedLeaseId:string *
    accessCondition:AccessCondition -> Task<string>
```

**VB**

```vb
<DoesServiceRequestAttribute>
Public Overridable Function ChangeLeaseAsync (
    proposedLeaseId As String,
    accessCondition As AccessCondition
) As Task(Of String)
```
See Also

- ChangeLeaseAsync Overload
- CloudBlobContainer Class

Return to top
CloudBlobContainer::ChangeLeaseAsync Method

C# C++ F# VB

(String, AccessCondition, BlobRequestOptions, OperationContext)(String^, AccessCondition^, BlobRequestOptions^, OperationContext^)(String, AccessCondition, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation that changes the lease ID on this container.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/MicrosoftDocs/azure-docs)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task<string> ChangeLeaseAsync(
    string proposedLeaseId,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ ChangeLeaseAsync(
    String^ proposedLeaseId,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#

[<DoesServiceRequestAttribute>]
abstract ChangeLeaseAsync :
    proposedLeaseId:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<string>

[<DoesServiceRequestAttribute>]
override ChangeLeaseAsync :
    proposedLeaseId:string *
See Also

ChangeLeaseAsync Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer:::ChangeLeaseAsync Method C# C++ F# VB

(String, AccessCondition, BlobRequestOptions,
OperationContext, CancellationToken)(String^,
AccessCondition^, BlobRequestOptions^, OperationContext^,
CancellationToken)(String, AccessCondition,
BlobRequestOptions, OperationContext, CancellationToken)
(String, AccessCondition, BlobRequestOptions,
OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation that changes the lease ID on this container.

Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task<string> ChangeLeaseAsync(
    string proposedLeaseId,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ ChangeLeaseAsync(
    String^ proposedLeaseId,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract ChangeLeaseAsync :
    proposedLeaseId:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken *
See Also

ChangeLeaseAsync Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer:::ChangeLeaseAsync Method  C#  C++  F#  VB
(String, AccessCondition, CancellationToken)
(String^, AccessCondition^, CancellationToken)(String, AccessCondition, CancellationToken)(String, AccessCondition, CancellationToken)
See Also
Initiates an asynchronous operation that changes the lease ID on this container.

Syntax

C# 

[DoesServiceRequestAttribute]
public virtual Task<string> ChangeLeaseAsync(
    string proposedLeaseId,
    AccessCondition accessCondition,
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ ChangeLeaseAsync(
    String^ proposedLeaseId,
    AccessCondition^ accessCondition,
    CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract ChangeLeaseAsync :
    proposedLeaseId:string *
    accessCondition:AccessCondition *
    cancellationToken:CancellationTokenToken ->

[<DoesServiceRequestAttribute>]
override ChangeLeaseAsync :
    proposedLeaseId:string *
    accessCondition:AccessCondition *
    cancellationToken:CancellationTokenToken ->
See Also

ChangeLeaseAsync Overload
CloudBlobContainer Class

Return to top
See Also
Initiates an asynchronous operation that creates a container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task CreateAsync()

C++  
public:
[DoesServiceRequestAttribute]
virtual Task^ CreateAsync()

F#  
[<DoesServiceRequestAttribute>]
abstract CreateAsync : unit -> Task
[<DoesServiceRequestAttribute>]
override CreateAsync : unit -> Task

VB  
<DoesServiceRequestAttribute>
Public Overridable Function CreateAsync As Task

Return Value

Type:  
A Task object that represents the asynchronous operation.
See Also

CreateAsync_Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer..::.CreateAsync Method
(BlobContainerPublicAccessType,
BlobRequestOptions, OperationContext)
(BlobContainerPublicAccessType, BlobRequestOptions^,
OperationContext^)(BlobContainerPublicAccessType,
BlobRequestOptions, OperationContext)
(BlobContainerPublicAccessType, BlobRequestOptions,
OperationContext)

See Also
Initiates an asynchronous operation that creates a container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task CreateAsync(
    BlobContainerPublicAccessType accessType,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task^ CreateAsync(
    BlobContainerPublicAccessType accessType,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#  
[<DoesServiceRequestAttribute>]
abstract CreateAsync :
    accessType:BlobContainerPublicAccessType
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task

[<DoesServiceRequestAttribute>]
override CreateAsync :
    accessType:BlobContainerPublicAccessType
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task
See Also

CreateAsync_Overload
CloudBlobContainer Class

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CloudBlobContainer........CreateAsync Method
(BlobContainerPublicAccessType,
BlobRequestOptions, OperationContext, CancellationToken)
(BlobContainerPublicAccessType, BlobRequestOptions,^,
OperationContext^, CancellationToken)
(BlobContainerPublicAccessType, BlobRequestOptions,
OperationContext, CancellationToken)
(BlobContainerPublicAccessType, BlobRequestOptions,
OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation that creates a container and specifies the level of access to the container's data.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```
[DoesServiceRequestAttribute]
public virtual Task CreateAsync(
    BlobContainerPublicAccessType accessType,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++

```
public:
[DoesServiceRequestAttribute]
virtual Task^ CreateAsync(
    BlobContainerPublicAccessType accessType,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#

```
[<DoesServiceRequestAttribute>]
abstract CreateAsync :
    accessType:BlobContainerPublicAccessType
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override CreateAsync :
    accessType:BlobContainerPublicAccessType
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->
```
See Also

CreateAsync_Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer.CreateAsync Method
(CancellationToken)(CancellationToken)
See Also
Initiates an asynchronous operation that creates a container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task CreateAsync(
    CancellationToken cancellationToken
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ CreateAsync(
    CancellationToken cancellationToken
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract CreateAsync :
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override CreateAsync :
    cancellationToken:CancellationToken ->
```

**VB**

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function CreateAsync (    cancellationToken As CancellationToken
) As Task
```
See Also

CreateAsync_Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer....CreateIfNotExistsAsync
Method ()()

See Also
Initiates an asynchronous operation that creates the container if it does not already exist.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<bool> CreateIfNotExistsAsync()

C++  
public:
[DoesServiceRequestAttribute]
virtual Task<bool> CreateIfNotExistsAsync()^

F#  
[<DoesServiceRequestAttribute>]
abstract CreateIfNotExistsAsync : unit -> Task<
[<DoesServiceRequestAttribute>]
override CreateIfNotExistsAsync : unit -> Task<

VB  
<DoesServiceRequestAttribute>
Public Overridable Function CreateIfNotExistsAs

Return Value

Type:
A Task<TResult><TResult><TResult>(Of TResult) object that represents
the asynchronous operation.
See Also

CreateIfNotExistsAsync Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer:..:CreateIfNotExistsAsync Method (BlobContainerPublicAccessType, BlobRequestOptions, OperationContext) (BlobContainerPublicAccessType, BlobRequestOptions^, OperationContext^)(BlobContainerPublicAccessType, BlobRequestOptions, OperationContext) (BlobContainerPublicAccessType, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation that creates the container if it does not already exist.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<bool> CreateIfNotExistsAsync(
    BlobContainerPublicAccessType accessType,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<bool>^ CreateIfNotExistsAsync(
    BlobContainerPublicAccessType accessType,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract CreateIfNotExistsAsync :
    accessType:BlobContainerPublicAccessType
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<bool>

[<DoesServiceRequestAttribute>]
override CreateIfNotExistsAsync :
    accessType:BlobContainerPublicAccessType
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<bool>
```
See Also

CreateIfExistsAsync_ Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer...CreateIfNotExistsAsync Method (BlobContainerPublicAccessType, BlobRequestOptions, OperationContext, CancellationToken)
(BlobContainerPublicAccessType, BlobRequestOptions^, OperationContext^, CancellationToken)
(BlobContainerPublicAccessType, BlobRequestOptions, OperationContext, CancellationToken)
(BlobContainerPublicAccessType, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation that creates the container if it does not already exist.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task<bool> CreateIfNotExistsAsync(
    BlobContainerPublicAccessType accessType,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<bool>^ CreateIfNotExistsAsync(
    BlobContainerPublicAccessType accessType,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract CreateIfNotExistsAsync :
    accessType:BlobContainerPublicAccessType
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override CreateIfNotExistsAsync :
    accessType:BlobContainerPublicAccessType
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->
```
See Also

CreateIfNotExistsAsync Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer....CreateIfNotExistsAsync
Method (BlobRequestOptions, OperationContext)
(BlobRequestOptions^, OperationContext^)
(BlobRequestOptions, OperationContext)(BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation that creates the container if it does not already exist.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<bool> CreateIfNotExistsAsync(BlobRequestOptions options,
OperationContext operationContext)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<bool> CreateIfNotExistsAsync(BlobRequestOptions options,
OperationContext operationContext)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract CreateIfNotExistsAsync : options:BlobRequestOptions *
operationContext:OperationContext -> Task<bool>
[<DoesServiceRequestAttribute>]
override CreateIfNotExistsAsync : options:BlobRequestOptions *
operationContext:OperationContext -> Task<bool>
```

VB

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function CreateIfNotExistsAsync(ByVal options As BlobRequestOptions,
ByVal operationContext As OperationContext) As Task(Of Boolean)
```
See Also

CreateIfNotExistsAsync Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer....CreateIfNotExistsAsync  
Method (BlobRequestOptions, OperationContext, CancellationToken)(BlobRequestOptions^, OperationContext^, CancellationToken)(BlobRequestOptions, OperationContext, CancellationToken)(BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation that creates the container if it does not already exist.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task<bool> CreateIfNotExistsAsync(
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<bool>^ CreateIfNotExistsAsync(
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract CreateIfNotExistsAsync :
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override CreateIfNotExistsAsync :
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->
```
See Also

CreateIfNotExistsAsync Overload
CloudBlobContainer Class

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See Also
Initiates an asynchronous operation that creates the container if it does not already exist.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task<bool> CreateIfNotExistsAsync(
    CancellationToken cancellationToken
)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task<bool>^ CreateIfNotExistsAsync(
    CancellationToken cancellationToken
)

F#  

[<DoesServiceRequestAttribute>]
abstract CreateIfNotExistsAsync :
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override CreateIfNotExistsAsync :
    cancellationToken:CancellationToken ->

VB  

<DoesServiceRequestAttribute>
Public Overridable Function CreateIfNotExistsAsync(
    cancellationToken As CancellationToken
) As Task(Of Boolean)
See Also

CreateIfNotExistsAsync Overload
CloudBlobContainer Class

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CloudBlobContainer.....DeleteAsync Method (0000) C# C++ F# VB

See Also
Initiates an asynchronous operation that deletes the container.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task DeleteAsync()
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ DeleteAsync()
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract DeleteAsync : unit -> Task
[<DoesServiceRequestAttribute>]
override DeleteAsync : unit -> Task
```

**VB**

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function DeleteAsync As Task
```

## Return Value

Type:

```
System.Threading.Tasks.Task
```

A Task object that represents the asynchronous operation.
See Also

DeleteAsync Overload  
CloudBlobContainer Class  

Return to top
CloudBlobContainer.

See Also
Initiates an asynchronous operation that deletes the container.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](#)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]

public virtual Task DeleteAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++

public:

[DoesServiceRequestAttribute]

virtual Task^ DeleteAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#

[<DoesServiceRequestAttribute>]

abstract DeleteAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task

[<DoesServiceRequestAttribute>]

override DeleteAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task
See Also

DeleteAsync_ Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer...DeleteAsync Method

(ACCESS_CONDITION, BLOB_REQUEST_OPTIONS,
OPERATION_CONTEXT, CANCELLATION_TOKEN)

See Also
Initiates an asynchronous operation that deletes the container.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/Azure/Swashbuckle/blob/master/docs/namespace-article.md)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task DeleteAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ DeleteAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract DeleteAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override DeleteAsync :
    accessCondition:AccessCondition *
```
See Also

DeleteAsync_ Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer.DeleteAsync Method
(CancellationToken)(CancellationToken)
See Also
Initiates an asynchronous operation that deletes the container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task DeleteAsync(
    CancellationToken cancellationToken
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ DeleteAsync(
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract DeleteAsync :
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override DeleteAsync :
    cancellationToken:CancellationToken ->
```

VB  

```vb
<DoesServiceRequestAttribute>
Public Overridable Function DeleteAsync (    cancellationToken As CancellationToken
) As Task
```
See Also

DeleteAsync_ Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer.....DeleteIfExistsAsync Method C#C++F#VB

See Also
Initiates an asynchronous operation that deletes the container if it already exists.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

### C#

```
[DoesServiceRequestAttribute]
public virtual Task<bool> DeleteIfExistsAsync()
```

### C++

```
public:
[DoesServiceRequestAttribute]
virtual Task<bool>^ DeleteIfExistsAsync()
```

### F#

```
[<DoesServiceRequestAttribute>]
abstract>DeleteIfExistsAsync : unit -> Task<bool>
[<DoesServiceRequestAttribute>]
override/DeleteIfExistsAsync : unit -> Task<bool>
```

### VB

```
<DoesServiceRequestAttribute>
Public Overridable Function DeleteIfExistsAsync
```

## Return Value

See Also

DeleteIfExistsAsync_ Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer.DeleteIfExistsAsync Method

C# C++ F# VB

(AccessCondition, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation that deletes the container if it already exists.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<bool> DeleteIfExistsAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<bool>^ DeleteIfExistsAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract DeleteIfExistsAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<bool>

[<DoesServiceRequestAttribute>]
override DeleteIfExistsAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<bool>
```
See Also

DeleteIfExistsAsync Overload
CloudBlobContainer Class

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See Also
Initiates an asynchronous operation that deletes the container if it already exists.

**Namespace:**  
*Microsoft.WindowsAzure.Storage.Blob*

**Assembly:**  
Syntax

C#  

[DoesServiceRequestAttribute]  
public virtual Task<bool> DeleteIfExistsAsync(  
    AccessCondition accessCondition,  
    BlobRequestOptions options,  
    OperationContext operationContext,  
    CancellationToken cancellationToken  
)

C++  

public:  
[DoesServiceRequestAttribute]  
virtual Task<bool>^ DeleteIfExistsAsync(  
    AccessCondition^ accessCondition,  
    BlobRequestOptions^ options,  
    OperationContext^ operationContext,  
    CancellationToken cancellationToken  
)

F#  

[<DoesServiceRequestAttribute>]  
abstract DeleteIfExistsAsync :  
    accessCondition:AccessCondition *  
    options:BlobRequestOptions *  
    operationContext:OperationContext *  
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]  
override DeleteIfExistsAsync :  
    accessCondition:AccessCondition *
See Also

DeleteIfExistsAsync Overload
CloudBlobContainer Class

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CloudBlobContainer.

See Also
Initiates an asynchronous operation that deletes the container if it already exists.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<bool> DeleteIfExistsAsync(
    CancellationToken cancellationToken)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task<bool>^ DeleteIfExistsAsync(
    CancellationToken cancellationToken)

F#  
[<DoesServiceRequestAttribute>]
abstract DeleteIfExistsAsync :
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override DeleteIfExistsAsync :
    cancellationToken:CancellationToken ->

VB  
<DoesServiceRequestAttribute>
Public Overridable Function DeleteIfExistsAsync(
    cancellationToken As CancellationToken) As Task(Of Boolean)
See Also

DeleteIfExistsAsync Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer..EndAcquireLease Method

(IAasyncResult)(IAasyncResult^)(IAasyncResult)

See Also
Ends an asynchronous operation to acquire a lease on this container.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public virtual string EndAcquireLease(  
    IAsyncResult asyncResult
  )

C++  
public:
  virtual String^ EndAcquireLease(  
    IAsyncResult^ asyncResult
  )

F#  
abstract EndAcquireLease :
  asyncResult:IAsyncResult -> string

override EndAcquireLease :
  asyncResult:IAsyncResult -> string

VB  
Public Overridable Function EndAcquireLease (  
    asyncResult As IAsyncResult
  ) As String

Parameters

asyncResult
  Type:
  System.IAsyncResultSystem::IAsyncResult^System.IAsyncResultSystem.IAsyncResult
See Also

CloudBlobContainer Class

Return to top
CloudBlobContainer.EndBreakLease Method

(IAsyncResult)(IAsyncResult^)(IAsyncResult)

See Also
Ends an asynchronous operation to break the current lease on this container.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://docs.microsoft.com/dotnet/api/microsoft.windowsazure.storage.blob)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

### C#

```csharp
public virtual TimeSpan EndBreakLease(
    IAsyncResult asyncResult
)
```

### C++

```cpp
public:
    virtual TimeSpan EndBreakLease(
        IAsyncResult^ asyncResult
    )
```

### F#

```fsharp
abstract EndBreakLease :
    asyncResult:IAsyncResult -> TimeSpan

override EndBreakLease :
    asyncResult:IAsyncResult -> TimeSpan
```

### VB

```vb
Public Overridable Function EndBreakLease (    
    asyncResult As IAsyncResult
) As TimeSpan
```

## Parameters

### `asyncResult` Type:

- `System.IAsyncResult`
- `System::IAsyncResult`
- `System.IAsyncResult^`
See Also

CloudBlobContainer Class

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</table>

See Also
Ends an asynchronous operation to change the lease on this container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public virtual string EndChangeLease(
    IAsyncResult asyncResult
)
```

C++  
```cpp
public:
virtual String^ EndChangeLease(
    IAsyncResult^ asyncResult
)
```

F#  
```fsharp
abstract EndChangeLease :
    asyncResult:IAsyncResult -> string
override EndChangeLease :
    asyncResult:IAsyncResult -> string
```

VB  
```vbnet
Public Overridable Function EndChangeLease (  
    asyncResult As IAsyncResult
) As String
```

Parameters

`asyncResult`  
Type:  
```
System.IAsyncResultSystem::IAsyncResult^System.IAsyncResultSystem::IAsyncResult
```  

An IAsyncResult that references the pending asynchronous operation.
See Also

CloudBlobContainer Class

Return to top
CloudBlobContainer.:::EndCreate Method
(IAsyncResult)(IAsyncResult^)(IAsyncResult)
See Also
Ends an asynchronous operation to create a container.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public virtual void EndCreate(
    IAsyncResult asyncResult
)
```

C++  
```cpp
public:
    virtual void EndCreate(
        IAsyncResult^ asyncResult
    )
```

F#  
```fsharp
abstract EndCreate :
    asyncResult:IAsyncResult -> unit
override EndCreate :
    asyncResult:IAsyncResult -> unit
```

VB  
```vbnet
Public Overridable Sub EndCreate (  
    asyncResult As IAsyncResult
)
```

Parameters

- **asyncResult**
  
  Type:
  ```csharp
  System.IAsyncResult
  ```
  ```cpp
  System::IAsyncResult
  ```
  ```fsharp
  System.IAsyncResult
  ```
  ```vbnet
  System.IAsyncResult
  ```
See Also

CloudBlobContainer Class

Return to top
CloudBlobContainer.....EndCreateIfNotExists Method (IAsyncResult)(IAsyncResult^)
(IAsyncResult)(IAsyncResult)

See Also
Returns the result of an asynchronous request to create the container if it does not already exist.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

### C#

```csharp
public virtual bool EndCreateIfNotExists(
    IAsyncResult asyncResult
)
```

### C++

```cpp
public:
    virtual bool EndCreateIfNotExists(
    IAsyncResult^ asyncResult
)
```

### F#

```fsharp
abstract EndCreateIfNotExists : 
    asyncResult : IAsyncResult -> bool

override EndCreateIfNotExists : 
    asyncResult : IAsyncResult -> bool
```

### VB

```vb
Public Overridable Function EndCreateIfNotExists(
    asyncResult As IAsyncResult
) As Boolean
```

## Parameters

*asyncResult*

Type: `System.IAsyncResult` or `System::IAsyncResult` or `System::IAsyncResult^`
See Also

CloudBlobContainer Class

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See Also
Ends an asynchronous operation to delete a container.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public virtual void EndDelete(
    IAsyncResult asyncResult
)
```

C++

```cpp
public:
virtual void EndDelete(
    IAsyncResult^ asyncResult
)
```

F#

```fsharp
abstract EndDelete :
    asyncResult:IAsyncResult -> unit
override EndDelete :
    asyncResult:IAsyncResult -> unit
```

VB

```vbnet
Public Overridable Sub EndDelete (   asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`

Type:

- `System.IAsyncResult`
- `System::IAsyncResult^`
- `System.IAsyncResult`
See Also

CloudBlobContainer Class

Return to top
CloudBlobContainer:::EndDeleteIfExists Method (IAsyncResult)(IAsyncResult^)(IAsyncResult)

See Also
Returns the result of an asynchronous request to delete the container if it already exists.

Syntax

**C#**

```csharp
public virtual bool EndDeleteIfExists(IAsyncResult asyncResult)
```

**C++**

```cpp
public:
    virtual bool EndDeleteIfExists(IAsyncResult^ asyncResult)
```

**F#**

```fsharp
abstract EndDeleteIfExists : asyncResult:IAasyncResult -> bool
override EndDeleteIfExists : asyncResult:IAasyncResult -> bool
```

**VB**

```vb
Public Overridable Function EndDeleteIfExists(AsyncResult As IAsyncResult)
) As Boolean
```

**Parameters**

**asyncResult**

Type:

```csharp
System.IAsyncResult
```

```cpp
System::IAsyncResult
```
See Also

CloudBlobContainer Class

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CloudBlobContainer...EndExists Method
(IAsyncResult)(IAsyncResult^)(IAsyncResult)
(IAsyncResult)
See Also
Returns the asynchronous result of the request to check whether the container exists.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public virtual bool EndExists(
    IAsyncResult asyncResult
)
```

C++  

```cpp
public:
virtual bool EndExists(
    IAsyncResult^ asyncResult
)
```

F#  

```fsharp
abstract EndExists :
    asyncResult:IAsyncResult -> bool
override EndExists :
    asyncResult:IAsyncResult -> bool
```

VB  

```vb
Public Overridable Function EndExists (  
    asyncResult As IAsyncResult
) As Boolean
```

Parameters

`asyncResult`  
Type:  

- `System.IAsyncResult`  
- `System::IAsyncResult`  
- `System::IAsyncResult^`
See Also

CloudBlobContainer Class

Return to top
CloudBlobContainer.:::EndFetchAttributes Method C# C++ F# VB (IAsyncResult)(IAsyncResult^)(IAsyncResult)

See Also
Ends an asynchronous operation to retrieve the container's attributes.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public virtual void EndFetchAttributes(
    IAsyncResult asyncResult
)
```

C++

```cpp
public:
    virtual void EndFetchAttributes(
        IAsyncResult^ asyncResult
    )
```

F#

```fsharp
abstract EndFetchAttributes :
    asyncResult:IAsyncResult -> unit
override EndFetchAttributes :
    asyncResult:IAsyncResult -> unit
```

VB

```vbnet
Public Overridable Sub EndFetchAttributes (  
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`
Type: `System.IAsyncResult`

- An `IAsyncResult` that references the pending asynchronous operation.
See Also

CloudBlobContainer Class

Return to top

See Also
Ends an asynchronous operation to get a reference to a blob in this container.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

C#  
```csharp
public virtual ICloudBlob EndGetBlobReferenceFromServer(IAsyncResult asyncResult)
```

C++  
```cpp
public:
virtual ICloudBlob^ EndGetBlobReferenceFromServer(IAsyncResult^ asyncResult)
```

F#  
```fsharp
abstract EndGetBlobReferenceFromServer : asyncResult:IAsyncResult -> ICloudBlob
override EndGetBlobReferenceFromServer : asyncResult:IAsyncResult -> ICloudBlob
```

VB  
```vbnet
Public Overridable Function EndGetBlobReferenceFromServer
    asyncResult As IAsyncResult
) As ICloudBlob
```

**Parameters**

`asyncResult`  
Type:  
```csharp
System.IAsyncResult
```
```cpp
System::IAsyncResult
```
```fsharp
System.IAsyncResult
```
```vbnet
System::IAsyncResult
```
See Also

CloudBlobContainer Class

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CloudBlobContainer....EndGetPermissions Method C#++F#VB
(IAsyncResult)(IAsyncResult^)(IAsyncResult)
(IAsyncResult)
See Also
Returns the asynchronous result of the request to get the permissions settings for the container.

**Syntax**

**C#**

```csharp
public virtual BlobContainerPermissions EndGetPermissions(IAsyncResult asyncResult)
```

**C++**

```cpp
public:
virtual BlobContainerPermissions^ EndGetPermissions(IAsyncResult^ asyncResult)
```

**F#**

```fsharp
abstract EndGetPermissions : asyncResult:IAsyncResult -> BlobContainerPermissions
override EndGetPermissions : asyncResult:IAsyncResult -> BlobContainerPermissions
```

**VB**

```vbnet
Public Overridable Function EndGetPermissions(
    asyncResult As IAsyncResult
) As BlobContainerPermissions
```

**Parameters**

`asyncResult`  
Type: `System.IAsyncResult` or `System::IAsyncResult`
See Also

CloudBlobContainer Class

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See Also
Ends an asynchronous operation to return a result segment containing a collection of blob items in the container.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public virtual BlobResultSegment EndListBlobsSegmented(IAsyncResult asyncResult)
```

C++  

```cpp
public:
    virtual BlobResultSegment^ EndListBlobsSegmented(IAsyncResult^ asyncResult)
```

F#  

```fsharp
abstract EndListBlobsSegmented : asyncResult:IAsyncResult -> BlobResultSegment
override EndListBlobsSegmented : asyncResult:IAsyncResult -> BlobResultSegment
```

VB  

```vb
Public Overridable Function EndListBlobsSegmented(AsyncResult As IAsyncResult) As BlobResultSegment
```  

Parameters

`asyncResult`  
Type: 

```csharp
System.IAsyncResult
```
See Also

CloudBlobContainer Class

Return to top
CloudBlobContainer.:::EndReleaseLease Method (IAsyncResult)(IAsyncResult^)(IAsyncResult)(IAsyncResult)

See Also
Ends an asynchronous operation to release the lease on this container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public virtual void EndReleaseLease(
    IAsyncResult asyncResult
)
```

C++  

```cpp
public:
virtual void EndReleaseLease(
    IAsyncResult^ asyncResult
)
```

F#  

```fsharp
abstract EndReleaseLease :
    asyncResult:IAsyncResult -> unit
override EndReleaseLease :
    asyncResult:IAsyncResult -> unit
```

VB  

```vbnet
Public Overridable Sub EndReleaseLease (asyncResult As IAsyncResult)
```

Parameters

`asyncResult`  
Type:  

`System.IAsyncResult`
See Also

CloudBlobContainer Class

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| CloudBlobContainer...EndRenewLease Method (IAsyncResult)(IAsyncResult^)(IAsyncResult) |
|----------------------------------------|----------------------------------|

See Also
Ends an asynchronous operation to renew a lease on this container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public virtual void EndRenewLease(
    IAsyncResult asyncResult
)
```

C++  

```cpp
public:
virtual void EndRenewLease(
    IAsyncResult^ asyncResult
)
```

F#  

```fsharp
abstract EndRenewLease :
    asyncResult:IAsyncResult -> unit
override EndRenewLease :
    asyncResult:IAsyncResult -> unit
```

VB  

```vb
Public Overridable Sub EndRenewLease ( 
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`  
Type:

```csharp
System.IAsyncResult
```
See Also

CloudBlobContainer Class

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C# | C++ | F# | VB
Ends an asynchronous request operation to set user-defined metadata on the container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public virtual void EndSetMetadata(
    IAsyncResult asyncResult
)

C++  
public:
    virtual void EndSetMetadata(
        IAsyncResult^ asyncResult
    )

F#  
abstract EndSetMetadata :
    asyncResult:IAsyncResult -> unit

VB  
Public Overridable Sub EndSetMetadata (  
    asyncResult As IAsyncResult
)

Parameters

asyncResult  
Type:  
System.IAsyncResultSystem::IAsyncResult^System.IAsyncResultSystem.IAsyncResult
See Also

CloudBlobContainer Class

Return to top
CloudBlobContainer..::.EndSetPermissions Method
(IAsyncResult)(IAsyncResult^)(IAsyncResult)
(IAasyncResult)
See Also
Returns the result of an asynchronous request to set permissions for the container.


Syntax

C#  
```csharp
public virtual void EndSetPermissions(
    IAsyncResult asyncResult
)
```

C++  
```cpp
public:
    virtual void EndSetPermissions(
        IAsyncResult^ asyncResult
    )
```

F#  
```fsharp
abstract EndSetPermissions : 
    asyncResult:IAsyncResult -> unit
override EndSetPermissions : 
    asyncResult:IAsyncResult^ -> unit
```

VB  
```vbnet
Public Overridable Sub EndSetPermissions ( 
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`  
Type:  
System.IAsyncResult
System::IAsyncResult
System.IAsyncResult


See Also

CloudBlobContainer Class

Return to top
CloudBlobContainer...ExistsAsync Method ()() C#++F#VB
See Also
Initiates an asynchronous operation that checks whether the container exists.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://www.msn.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<bool> ExistsAsync()

C++
public:
[DoesServiceRequestAttribute]
virtual Task<bool>^ ExistsAsync()

F#  
[<DoesServiceRequestAttribute>]
abstract ExistsAsync : unit -> Task<bool>
[<DoesServiceRequestAttribute>]
override ExistsAsync : unit -> Task<bool>

VB
<DoesServiceRequestAttribute>
Public Overridable Function ExistsAsync As Task

Return Value

Type:
System.Threading.Tasks.Task<Nullable(Bool)>
A Task<TResult>(Of TResult) object that represents the asynchronous operation.
See Also

ExistsAsync Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer..::.ExistsAsync Method
(BlobRequestOptions, OperationContext)
(BlobRequestOptions^, OperationContext^)
(BlobRequestOptions, OperationContext)(BlobRequestOptions, OperationContext)
See Also
Initiates an asynchronous operation that checks whether the container exists.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task<bool> ExistsAsync(
    BlobRequestOptions options,
    OperationContext operationContext
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<bool> ExistsAsync(
    BlobRequestOptions options,
    OperationContext operationContext
)

F#

[<DoesServiceRequestAttribute>]
abstract ExistsAsync :
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<bool>

[<DoesServiceRequestAttribute>]
override ExistsAsync :
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<bool>

VB

<DoesServiceRequestAttribute>
Public Overridable Function ExistsAsync (}
See Also

ExistsAsync Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer::ExistsAsync Method
(BlobRequestOptions, OperationContext, CancellationToken)
(BlobRequestOptions^, OperationContext^, CancellationToken)
(BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation that checks whether the container exists.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<bool> ExistsAsync(
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<bool> ExistsAsync(
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract ExistsAsync :
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override ExistsAsync :
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->
```
See Also

ExistsAsync_Overload
CloudBlobContainer Class

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</table>

See Also
Initiates an asynchronous operation that checks whether the container exists.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]

```c#
public virtual Task<bool> ExistsAsync(
            CancellationToken cancellationToken
        )
```

C++

```cpp
public:
    [DoesServiceRequestAttribute]
virtual Task<bool>^ ExistsAsync(
            CancellationToken cancellationToken
        )
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract ExistsAsync : cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override ExistsAsync :
            cancellationToken:CancellationToken ->
```

VB

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function ExistsAsync ( cancellationToken As CancellationToken ) As Task(Of Boolean)
```
See Also

ExistsAsync Overload
CloudBlobContainer Class

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CloudBlobContainer...FetchAttributesAsync
Method ()()()

See Also
Initiates an asynchronous operation that retrieves the container's attributes.

**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task FetchAttributesAsync()
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ FetchAttributesAsync()
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract FetchAttributesAsync : unit -> Task
[<DoesServiceRequestAttribute>]
override FetchAttributesAsync : unit -> Task
```

VB

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function FetchAttributesAsync
```

Return Value

Type:

```vbnet
System.Threading.Tasks.Task
System.Threading.Tasks::Task
```

A Task object that represents the asynchronous operation.
See Also

FetchAttributesAsync_Overload
CloudBlobContainer Class

Return to top

See Also
Initiates an asynchronous operation that retrieves the container's attributes.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task FetchAttributesAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ FetchAttributesAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract FetchAttributesAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task

[<DoesServiceRequestAttribute>]
override FetchAttributesAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task
```
See Also

FetchAttributesAsync Overload
CloudBlobContainer Class

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CloudBlobContainer.::::.FetchAttributesAsync
See Also
Initiates an asynchronous operation that retrieves the container's attributes.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task FetchAttributesAsync(
   AccessCondition accessCondition,
   BlobRequestOptions options,
   OperationContext operationContext,
   CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ FetchAttributesAsync(
   AccessCondition^ accessCondition,
   BlobRequestOptions^ options,
   OperationContext^ operationContext,
   CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract FetchAttributesAsync :
   accessCondition:AccessCondition *
   options:BlobRequestOptions *
   operationContext:OperationContext *
   cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override FetchAttributesAsync :
   accessCondition:AccessCondition *
See Also

- FetchAttributesAsync Overload
- CloudBlobContainer Class

Return to top
CloudBlobContainer::FetchAttributesAsync (CancellationToken) (CancellationToken) (CancellationToken) (CancellationToken)

See Also
Initiates an asynchronous operation that retrieves the container's attributes.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task FetchAttributesAsync(
    CancellationToken cancellationToken
)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task^ FetchAttributesAsync(
    CancellationToken cancellationToken
)

F#  

[<DoesServiceRequestAttribute>]
abstract FetchAttributesAsync :
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override FetchAttributesAsync :
    cancellationToken:CancellationToken ->

VB  

<DoesServiceRequestAttribute>
Public Overridable Function FetchAttributesAsync(
    cancellationToken As CancellationToken
) As Task
See Also

- FetchAttributesAsync_Overload
- CloudBlobContainer Class

Return to top
CloudBlobContainer..::.GetAppendBlobReference Method (String)(String^)(String)(String)

See Also
Gets a reference to an append blob in this container.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/Azure/azure-storage-net)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
public CloudAppendBlob GetAppendBlobReference(
    string blobName
)
```

**C++**

```cpp
public:
CloudAppendBlob^ GetAppendBlobReference(
    String^ blobName
)
```

**F#**

```fsharp
copy
member GetAppendBlobReference :
    blobName:string -> CloudAppendBlob
```

**VB**

```vb
Public Function GetAppendBlobReference (blobName As String)
) As CloudAppendBlob
```

**Parameters**

**blobName**

Type: `System.StringSystem::String^System.StringSystem.String`

A string containing the name of the append blob.
See Also

GetAppendBlobReference_Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer.....GetAppendBlobReference Method (String, Nullable<DateTimeOffset>) (String^, Nullable<DateTimeOffset>)(String, Nullable<DateTimeOffset>)(String, Nullable(Of DateTimeOffset))

See Also
Gets a reference to an append blob in this container.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public CloudAppendBlob GetAppendBlobReference(
    string blobName,
    Nullable<DateTimeOffset> snapshotTime
)
```

C++  
```cpp
public:
CloudAppendBlob^ GetAppendBlobReference(
    String^ blobName,
    Nullable<DateTimeOffset> snapshotTime
)
```

F#  
```fsharp
member GetAppendBlobReference :
    blobName:string *
    snapshotTime:Nullable<DateTimeOffset>
->
    CloudAppendBlob
```

VB  
```vb
Public Function GetAppendBlobReference (    blobName As String,
    snapshotTime As Nullable(Of DateTimeOffset) ) As CloudAppendBlob
```

Parameters

blobName
See Also

- GetAppendBlobReference_ Overload
- CloudBlobContainer Class

Return to top
CloudBlobContainer...GetBlobReference Method
(String)(String^)(String)(String)

See Also
Gets a reference to a blob in this container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public CloudBlob GetBlobReference(
    string blobName
)
```

C++

```cpp
public:
CloudBlob^ GetBlobReference(
    String^ blobName
)
```

F#

```fsharp
member GetBlobReference :
    blobName:string -> CloudBlob
```

VB

```vbnet
Public Function GetBlobReference ( 
    blobName As String
) As CloudBlob
```

Parameters

**blobName**

Type: `System.StringSystem::String^System.StringSystem.String`

A string containing the name of the blob.
See Also

GetBlobReference Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer.:::GetBlobReference Method

(C#) (String, Nullable<DateTimeOffset>)

(C++) (String^, Nullable<DateTimeOffset>)

(F#) (String, Nullable<DateTimeOffset>)

(VB) (String, Nullable(Of DateTimeOffset))

See Also
Gets a reference to a blob in this container.

## Syntax

### C#

```csharp
public CloudBlob GetBlobReference(
    string blobName,
    Nullable<DateTimeOffset> snapshotTime
)
```

### C++

```c++
public:
CloudBlob^ GetBlobReference(
    String^ blobName,
    Nullable<DateTimeOffset> snapshotTime
)
```

### F#

```fsharp
member GetBlobReference :
    blobName: string *
    snapshotTime: Nullable<DateTimeOffset> -> CloudBlob
```

### VB

```vb
Public Function GetBlobReference ( 
    blobName As String, 
    snapshotTime As Nullable(Of DateTimeOffset) 
) As CloudBlob
```

## Parameters

- **blobName**
See Also

GetBlobReference_Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer::GetBlobReferenceFromServerAsync Method (String)(String^)(String)(String)

See Also
Initiates an asynchronous operation that gets a reference to a blob in this container.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
[DoesServiceRequestAttribute]
public virtual Task<ICloudBlob> GetBlobReferenceFromServerAsync(string blobName)
```

C++
```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<ICloudBlob^>^ GetBlobReferenceFromServerAsync(String^ blobName)
```

F#
```fsharp
[<DoesServiceRequestAttribute>]
abstract GetBlobReferenceFromServerAsync : blobName:string -> Task<ICloudBlob>
[<DoesServiceRequestAttribute>]
override GetBlobReferenceFromServerAsync : blobName:string -> Task<ICloudBlob>
```

 VB
```vb
<DoesServiceRequestAttribute>
Public Overridable Function GetBlobReferenceFromServerAsync(blobName As String)
  As Task(Of ICloudBlob)
```
See Also

GetBlobReferenceFromServerAsync Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer::GetBlobReferenceFromServerAsync Method (String, AccessCondition, BlobRequestOptions, OperationContext)(String^, AccessCondition^, BlobRequestOptions^, OperationContext^)(String, AccessCondition, BlobRequestOptions, OperationContext) (String, AccessCondition, BlobRequestOptions, OperationContext) See Also
Initiates an asynchronous operation that gets a reference to a blob in this container.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<ICloudBlob> GetBlobReferenceFromServerAsync(
    string blobName,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++
public:
[DoesServiceRequestAttribute]
virtual Task<ICloudBlob^>^ GetBlobReferenceFromServerAsync(
    String^ blobName,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#
[<DoesServiceRequestAttribute>]
abstract GetBlobReferenceFromServerAsync :
    blobName:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> T

[<DoesServiceRequestAttribute>]
override GetBlobReferenceFromServerAsync :
    blobName:string *
See Also

GetBlobReferenceFromServerAsync Overload
CloudBlobContainer Class

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CloudBlobContainer.....GetBlobReferenceFromServerAsync

See Also
Initiates an asynchronous operation that gets a reference to a blob in this container.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task<ICloudBlob> GetBlobReferenceFromServerAsync(
    string blobName,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken)
```

C++

```cpp
public:
    [DoesServiceRequestAttribute]
    virtual Task<ICloudBlob*> GetBlobReferenceFromServerAsync(
        String^ blobName,
        AccessCondition^ accessCondition,
        BlobRequestOptions^ options,
        OperationContext^ operationContext,
        CancellationToken cancellationToken)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract GetBlobReferenceFromServerAsync : 
    blobName: string * 
    accessCondition: AccessCondition * 
    options: BlobRequestOptions * 
    operationContext: OperationContext * 
    cancellationToken: CancellationToken -> Task<ICloudBlob>
[<DoesServiceRequestAttribute>]
override GetBlobReferenceFromServerAsync : 
    blobName: string * 
```
See Also

BlobReferenceFromServerAsync Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer...GetBlobReferenceFromServerAsync
Method (String, CancellationToken)(String^,
CancellationToken)(String, CancellationToken)(String,
CancellationToken)
See Also
Initiates an asynchronous operation that gets a reference to a blob in this container.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/Azure/azure-storage-sdk-dotnet)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  [DoesServiceRequestAttribute]
public virtual Task<ICloudBlob> GetBlobReferenceFromServerAsync(
    string blobName,
    CancellationToken cancellationToken
)

C++
public:
[DoesServiceRequestAttribute]
virtual Task<ICloudBlob^>^ GetBlobReferenceFromServerAsync(
    String^ blobName,
    CancellationToken cancellationToken
)

F#
[<DoesServiceRequestAttribute>]
abstract GetBlobReferenceFromServerAsync : 
    blobName:string * 
    cancellationToken:CancellationToken-Token ->
[<DoesServiceRequestAttribute>]
override GetBlobReferenceFromServerAsync : 
    blobName:string * 
    cancellationToken:CancellationToken-Token ->

VB
<DoesServiceRequestAttribute>
Public Overridable Function GetBlobReferenceFromServerAsync(blobName As String, cancellationToken As CancellationToken) As Task(Of ICloudBlob)
See Also

GetBlobReferenceFromServerAsync Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer..::.GetBlockBlobReference Method (String)(String^)(String)(String)  

See Also
Gets a reference to a block blob in this container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
public CloudBlockBlob GetBlockBlobReference(
    string blobName
)
```

**C++**

```cpp
public:
CloudBlockBlob^ GetBlockBlobReference(
    String^ blobName
)
```

**F#**

```fsharp
member GetBlockBlobReference :
    blobName:string -> CloudBlockBlob
```

**VB**

```vb
Public Function GetBlockBlobReference (  
    blobName As String
) As CloudBlockBlob
```

### Parameters

**blobName**

Type: `System.String`<br>
A string containing the name of the block blob.
See Also

GetBlockBlobReference Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer.:::GetBlockBlobReference
Method (String, Nullable<DateTimeOffset>)
(String^, Nullable<DateTimeOffset>)(String, Nullable<DateTimeOffset>)(String, Nullable(Of
DateTimeOffset))

See Also
Gets a reference to a block blob in this container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public CloudBlockBlob GetBlockBlobReference(
    string blobName,
    Nullable<DateTimeOffset> snapshotTime
)
```

C++  
```cpp
public:
CloudBlockBlob^ GetBlockBlobReference(
    String^ blobName,
    Nullable<DateTimeOffset> snapshotTime
)
```

F#  
```fsharp
member GetBlockBlobReference :
    blobName:string *
    snapshotTime:Nullable<DateTimeOffset> ->
    CloudBlockBlob
```

VB  
```vbnet
Public Function GetBlockBlobReference (  
    blobName As String,  
    snapshotTime As Nullable(Of DateTimeOffset)  
) As CloudBlockBlob
```

Parameters

`blobName`
See Also

GetBlockBlobReference_ Overload
CloudBlobContainer Class

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</table>
Gets a reference to a virtual blob directory beneath this container.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public CloudBlobDirectory GetDirectoryReference(
    string relativeAddress
)

C++  
public:
CloudBlobDirectory^ GetDirectoryReference(
    String^ relativeAddress
)

F#  
member GetDirectoryReference :
    relativeAddress:string -> CloudBlobDirectory

VB  
Public Function GetDirectoryReference (  
    relativeAddress As String
) As CloudBlobDirectory

Parameters

relativeAddress  
Type: System.String  
A string containing the name of the virtual blob directory.
See Also

CloudBlobContainer Class

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See Also
Gets a reference to a page blob in this container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public CloudPageBlob GetPageBlobReference(
    string blobName
)
```

C++  
```cpp
public:
CloudPageBlob^ GetPageBlobReference(
    String^ blobName
)
```

F#  
```fsharp
member GetPageBlobReference :
    blobName:string -> CloudPageBlob
```

VB  
```vbnet
Public Function GetPageBlobReference (    blobName As String
) As CloudPageBlob
```

Parameters

blobName  
Type: [System.String](https://docs.microsoft.com/en-us/dotnet/api/system.string)
A string containing the name of the page blob.
See Also

GetPageBlobReference Overload
CloudBlobContainer Class

Return to top
See Also
Returns a reference to a page blob in this virtual directory.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
public CloudPageBlob GetPageBlobReference(
    string blobName,
    Nullable<DateTimeOffset> snapshotTime
)
```

**C++**

```cpp
public:
CloudPageBlob^ GetPageBlobReference(
    String^ blobName,
    Nullable<DateTimeOffset> snapshotTime
)
```

**F#**

```fsharp
gmember GetPageBlobReference :
    blobName:string *
    snapshotTime:Nullable<DateTimeOffset>
```

**VB**

```vb
Public Function GetPageBlobReference (  .blobName As String,
    snapshotTime As Nullable(Of DateTimeOffset)
) As CloudPageBlob
```

**Parameters**

- **blobName**
See Also

GetPageBlobReference Overload
CloudBlobContainer Class

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CloudBlobContainer::GetPermissionsAsync Method

See Also
Initiates an asynchronous operation that gets the permissions settings for the container.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<BlobContainerPermissions> GetPermissionsAsync()

C++  
public:
[DoesServiceRequestAttribute]
virtual Task<BlobContainerPermissions^>^ GetPermissionsAsync();

F#  
[<DoesServiceRequestAttribute>]
abstract GetPermissionsAsync : unit -> Task<BlobContainerPermissions>
[<DoesServiceRequestAttribute>]
override GetPermissionsAsync : unit -> Task<BlobContainerPermissions>

VB  
<DoesServiceRequestAttribute>
Public Overridable Function GetPermissionsAsync

Return Value

Type:
System.Threading.Tasks.Task<BlobContainerPermissions>
A Task<TResult>(Of TResult) object that represents the asynchronous operation.
See Also

GetPermissionsAsync_Overload
CloudBlobContainer Class

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CloudBlobContainer.::.GetPermissionsAsync  

See Also
Initiates an asynchronous operation that gets the permissions settings for the container.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
[DoesServiceRequestAttribute]
public virtual Task<BlobContainerPermissions>
    GetPermissionsAsync(
        AccessCondition accessCondition,
        BlobRequestOptions options,
        OperationContext operationContext
    )
```

C++  
```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<BlobContainerPermissions^>
    GetPermissionsAsync(
        AccessCondition^ accessCondition,
        BlobRequestOptions^ options,
        OperationContext^ operationContext
    )
```

F#  
```fsharp
[<DoesServiceRequestAttribute>]
abstract GetPermissionsAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<BlobContainerPermissions>

[<DoesServiceRequestAttribute>]
override GetPermissionsAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<BlobContainerPermissions>
```
See Also

GetPermissionsAsync_Overload
CloudBlobContainer Class

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**See Also**
Initiates an asynchronous operation that gets the permissions settings for the container.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task<BlobContainerPermissions>
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task<BlobContainerPermissions^>^ GetPermissionsAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#  

[<DoesServiceRequestAttribute>]
abstract GetPermissionsAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override GetPermissionsAsync :
    accessCondition:AccessCondition *

See Also

GetPermissionsAsync_Overload
CloudBlobContainer Class

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See Also
Initiates an asynchronous operation that gets the permissions settings for the container.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```
[DoesServiceRequestAttribute]
public virtual Task<BlobContainerPermissions>
    GetPermissionsAsync(
        CancellationToken cancellationToken
    )
```

C++  

```
public:
[DoesServiceRequestAttribute]
virtual Task<BlobContainerPermissions^>^ GetPermissionsAsync(
    CancellationToken cancellationToken
)
```

F#  

```
[<DoesServiceRequestAttribute>]
abstract GetPermissionsAsync :
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override GetPermissionsAsync :
    cancellationToken:CancellationToken ->
```

VB  

```
<DoesServiceRequestAttribute>
Public Overridable Function GetPermissionsAsync
    cancellationToken As CancellationToken
) As Task(Of BlobContainerPermissions)
```
See Also

GetPermissionsAsync_Overload
CloudBlobContainer Class

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CloudBlobContainer....GetSharedAccessSignature Method (SharedAccessBlobPolicy)
(SharedAccessBlobPolicy^)(SharedAccessBlobPolicy)
See Also
Returns a shared access signature for the container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  public string GetSharedAccessSignature(
        SharedAccessBlobPolicy policy
    )

C++  public:
    String^ GetSharedAccessSignature(
        SharedAccessBlobPolicy^ policy
    )

F#  member GetSharedAccessSignature :
    policy:SharedAccessBlobPolicy -> string

VB  Public Function GetSharedAccessSignature (  
        policy As SharedAccessBlobPolicy
    ) As String

Parameters

policy  
Type:  
A SharedAccessBlobPolicy object specifying the access policy for the shared access signature.
**Remarks**

The query string returned includes the leading question mark.
See Also

GetSharedAccessSignature Overload  
CloudBlobContainer Class  

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CloudBlobContainer...GetSharedAccessSignature Method (SharedAccessBlobPolicy, String)
(SharedAccessBlobPolicy^, String^)(SharedAccessBlobPolicy, String)(SharedAccessBlobPolicy, String)
See Also
Returns a shared access signature for the container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
public string GetSharedAccessSignature(
    SharedAccessBlobPolicy policy,
    string groupPolicyIdentifier
)
```

**C++**

```cpp
public:
String^ GetSharedAccessSignature(
    SharedAccessBlobPolicy^ policy,
    String^ groupPolicyIdentifier
)
```

**F#**

```fsharp
gmember GetSharedAccessSignature :
    policy:SharedAccessBlobPolicy *
    groupPolicyIdentifier:string -> string
```

**VB**

```vb
Public Function GetSharedAccessSignature (policy As SharedAccessBlobPolicy,
    groupPolicyIdentifier As String)
    As String
```

**Parameters**

- **policy**
Remarks

The query string returned includes the leading question mark.
See Also

GetSharedAccessSignature Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer::GetSharedAccessSignature Method
(SharedAccessBlobPolicy, String, Nullable<SharedAccessProtocol>, IPAddressOrRange)
(SharedAccessBlobPolicy^, String^, Nullable<SharedAccessProtocol>, IPAddressOrRange^)
(SharedAccessBlobPolicy, String, Nullable<SharedAccessProtocol>, IPAddressOrRange)
(SharedAccessBlobPolicy, String, Nullable(Of SharedAccessProtocol), IPAddressOrRange)

See Also
Returns a shared access signature for the container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public string GetSharedAccessSignature(
    SharedAccessBlobPolicy policy,
    string groupPolicyIdentifier,
    Nullable<SharedAccessProtocol> protocols,
    IPAddressOrRange ipAddressOrRange
)
```

C++

```cpp
public:
String^ GetSharedAccessSignature(
    SharedAccessBlobPolicy^ policy,
    String^ groupPolicyIdentifier,
    Nullable<SharedAccessProtocol> protocols,
    IPAddressOrRange^ ipAddressOrRange
)
```

F#

```fsharp
member GetSharedAccessSignature :
    policy:SharedAccessBlobPolicy *
    groupPolicyIdentifier:string *
    protocols:Nullable<SharedAccessProtocol>*
    ipAddressOrRange:IPAddressOrRange-> string
```

VB

```vb
Public Function GetSharedAccessSignature (  
    policy As SharedAccessBlobPolicy,  
    groupPolicyIdentifier As String,  
```
Remarks

The query string returned includes the leading question mark.
See Also

GetSharedAccessSignature Overload
CloudBlobContainer Class

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CloudBlobContainer.....ListBlobsSegmentedAsync  C#++F#VB
Method (BlobContinuationToken)
(BlobContinuationToken^)(BlobContinuationToken)
(BlobContinuationToken)
See Also
Initiates an asynchronous operation that returns a result segment containing a collection of blob items in the container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
[DoesServiceRequestAttribute]
public virtual Task<BlobResultSegment> ListBlobsSegmentedAsync(
    BlobContinuationToken currentToken
)
```

C++  
```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<BlobResultSegment^>^ ListBlobsSegmentedAsync(
    BlobContinuationToken^ currentToken
)
```

F#  
```fsharp
[<DoesServiceRequestAttribute>]
abstract ListBlobsSegmentedAsync :
    currentToken:BlobContinuationToken ->
[<DoesServiceRequestAttribute>]
override ListBlobsSegmentedAsync :
    currentToken:BlobContinuationToken ->
```

VB  
```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function ListBlobsSegmentedAsync(
    currentToken As BlobContinuationToken
) As Task(Of BlobResultSegment)
```
See Also

ListBlobsSegmentedAsync_ Overload
CloudBlobContainer Class

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CloudBlobContainer..::.ListBlobsSegmentedAsync Method (BlobContinuationToken, CancellationToken)(BlobContinuationToken^, CancellationToken)(BlobContinuationToken, CancellationToken)(BlobContinuationToken, CancellationToken)

See Also
Initiates an asynchronous operation that returns a result segment containing a collection of blob items in the container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<BlobResultSegment> ListBlobsSegmentedAsync(
    BlobContinuationToken currentToken,
    CancellationToken cancellationToken
)
```  

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<BlobResultSegment^>^ ListBlobsSegmentedAsync(
    BlobContinuationToken^ currentToken,
    CancellationToken cancellationToken
)
```  

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract ListBlobsSegmentedAsync :
    currentToken:BlobContinuationToken ←
    cancellationToken:CancellationToken →
[<DoesServiceRequestAttribute>]
override ListBlobsSegmentedAsync :
    currentToken:BlobContinuationToken ←
    cancellationToken:CancellationToken →
```  

VB  

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function ListBlobsSegmentedAsync(
    currentToken As BlobContinuationToken,
    cancellationToken As CancellationToken
) As Task(Of BlobResultSegment)
```
See Also

ListBlobsSegmentedAsync  Overload
CloudBlobContainer Class

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CloudBlobContainer::ListBlobsSegmentedAsync Method (String, BlobContinuationToken)(String^, BlobContinuationToken^)(String, BlobContinuationToken)(String, BlobContinuationToken)

See Also
Initiates an asynchronous operation that returns a result segment containing a collection of blob items in the container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]

public virtual Task<BlobResultSegment> ListBlobsSegmentedAsync(
    string prefix,
    BlobContinuationToken currentToken
)

C++

public:

[DoesServiceRequestAttribute]

virtual Task<BlobResultSegment^>^ ListBlobsSegmentedAsync(
    String^ prefix,
    BlobContinuationToken^ currentToken
)

F#

[<DoesServiceRequestAttribute>]

abstract ListBlobsSegmentedAsync : 
    prefix:string *
    currentToken:BlobContinuationToken ->

[<DoesServiceRequestAttribute>]

override ListBlobsSegmentedAsync :
    prefix:string *
    currentToken:BlobContinuationToken ->

VB

<DoesServiceRequestAttribute>

Public Overridable Function ListBlobsSegmentedAsync

    prefix As String,
    currentToken As BlobContinuationToken

As Task(Of BlobResultSegment)
See Also

ListBlobsSegmentedAsync Overload
CloudBlobContainer Class

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CloudBlobContainer.ListBlobsSegmentedAsync Method

C#++F#VB

See Also
Initiates an asynchronous operation that returns a result segment containing a collection of blob items in the container.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://example.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<BlobResultSegment> ListBlobsSegmentedAsync(
   string prefix,
   BlobContinuationToken currentToken,
   CancellationToken cancellationToken)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task<BlobResultSegment^>^ ListBlobsSegmentedAsync(
   String^ prefix,
   BlobContinuationToken^ currentToken,
   CancellationToken cancellationToken)

F#  
[<DoesServiceRequestAttribute>]
abstract ListBlobsSegmentedAsync :
   prefix:string *
   currentToken:BlobContinuationToken *
   cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override ListBlobsSegmentedAsync :
   prefix:string *
   currentToken:BlobContinuationToken *
   cancellationToken:CancellationToken ->
See Also

ListBlobsSegmentedAsync Overload
CloudBlobContainer Class

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CloudBlobContainer.ListBlobsSegmentedAsync Method (String, Boolean, BlobListingDetails, Nullable<Int32>, BlobContinuationToken, BlobRequestOptions, OperationContext)(String^, Boolean, BlobListingDetails, Nullable<Int32>, BlobContinuationToken^, BlobRequestOptions^, OperationContext^)(String, Boolean, BlobListingDetails, Nullable(Of Int32), BlobContinuationToken, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation that returns a result segment containing a collection of blob items in the container.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<BlobResultSegment> ListBlobsSegmentedAsync(
    string prefix,
    bool useFlatBlobListing,
    BlobListingDetails blobListingDetails,
    Nullable<int> maxResults,
    BlobContinuationToken currentToken,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<BlobResultSegment^>^ ListBlobsSegmentedAsync(
    String^ prefix,
    bool useFlatBlobListing,
    BlobListingDetails blobListingDetails,
    Nullable<int> maxResults,
    BlobContinuationToken^ currentToken,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract ListBlobsSegmentedAsync :
    string *  
    bool  
    BlobListingDetails  
    Nullable<int>  
    BlobContinuationToken  
    BlobRequestOptions  
    OperationContext  
    unit  
```

See Also

ListBlobsSegmentedAsync Overload
CloudBlobContainer Class

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See Also
Initiates an asynchronous operation that returns a result segment containing a collection of blob items in the container.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/MicrosoftDocs/microsoft-azure-storage-dotnet)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task<BlobResultSegment> ListBlobsSegmentedAsync(
    string prefix,
    bool useFlatBlobListing,
    BlobListingDetails blobListingDetails,
    Nullable<int> maxResults,
    BlobContinuationToken currentToken,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<BlobResultSegment^>^ ListBlobsSegmentedAsync(
    String^ prefix,
    bool useFlatBlobListing,
    BlobListingDetails blobListingDetails,
    Nullable<int> maxResults,
    BlobContinuationToken^ currentToken,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract ListBlobsSegmentedAsync : prefix:string	* useFlatBlobListing:bool	* ...
```
See Also

ListBlobsSegmentedAsync Overload
CloudBlobContainer Class

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See Also
Initiates an asynchronous operation that releases the lease on this container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task ReleaseLeaseAsync(
    AccessCondition accessCondition
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ ReleaseLeaseAsync(
    AccessCondition^ accessCondition
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract ReleaseLeaseAsync :
    accessCondition:AccessCondition -> Task
[<DoesServiceRequestAttribute>]
override ReleaseLeaseAsync :
    accessCondition:AccessCondition -> Task
```

**VB**

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function ReleaseLeaseAsync
    accessCondition As AccessCondition
) As Task
```
See Also

ReleaseLeaseAsync_ Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer.:::ReleaseLeaseAsync Method  
(C영상Condition, BlobRequestOptions, 
OperationContext)(AccessCondition^, BlobRequestOptions^, 
OperationContext^)(AccessCondition, BlobRequestOptions, 
OperationContext)(AccessCondition, BlobRequestOptions, 
OperationContext)
See Also
Initiates an asynchronous operation that releases the lease on this container.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task ReleaseLeaseAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ ReleaseLeaseAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract ReleaseLeaseAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task

[<DoesServiceRequestAttribute>]
override ReleaseLeaseAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task
```
See Also

ReleaseLeaseAsync_ Overload
CloudBlobContainer Class

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CloudBlobContainer...ReleaseLeaseAsync Method C# C++ F# VB
(AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)
(AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation that releases the lease on this container.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task ReleaseLeaseAsync(  
    AccessCondition accessCondition,  
    BlobRequestOptions options,  
    OperationContext operationContext,  
    CancellationToken cancellationToken  
)

C++  

public:  
[DoesServiceRequestAttribute]
virtual Task^ ReleaseLeaseAsync(  
    AccessCondition^ accessCondition,  
    BlobRequestOptions^ options,  
    OperationContext^ operationContext,  
    CancellationToken cancellationToken  
)

F#  

[<DoesServiceRequestAttribute>]
abstract ReleaseLeaseAsync :  
    accessCondition:AccessCondition *  
    options:BlobRequestOptions *  
    operationContext:OperationContext *  
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override ReleaseLeaseAsync :  
    accessCondition:AccessCondition *
See Also

ReleaseLeaseAsync Overload
CloudBlobContainer Class

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CloudBlobContainer....ReleaseLeaseAsync Method  C# C++ F# VB
(AccessCondition, CancellationToken)
(AccessCondition^, CancellationToken)(AccessCondition, CancellationToken)
See Also
Initiates an asynchronous operation that releases the lease on this container.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/Azure/azure-storage-dotnet)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task ReleaseLeaseAsync(
    AccessCondition accessCondition,
    CancellationToken cancellationToken)

C++
public:
[DoesServiceRequestAttribute]
virtual Task^ ReleaseLeaseAsync(
    AccessCondition^ accessCondition,
    CancellationToken cancellationToken)

F#
[<DoesServiceRequestAttribute>]
abstract ReleaseLeaseAsync :
    accessCondition:AccessCondition *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override ReleaseLeaseAsync :
    accessCondition:AccessCondition *
    cancellationToken:CancellationToken ->

VB
<DoesServiceRequestAttribute>
Public Overridable Function ReleaseLeaseAsync
    accessCondition As AccessCondition,
    cancellationToken As CancellationToken
    As Task
See Also

ReleaseLeaseAsync Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer::RenewLeaseAsync Method

C# ++ F# VB

(AccessCondition)(AccessCondition^)
(AccessCondition)(AccessCondition)

See Also
Initiates an asynchronous operation that renews a lease on this container.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task RenewLeaseAsync(
    AccessCondition accessCondition
)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task^ RenewLeaseAsync(
    AccessCondition^ accessCondition
)

F#  

[<DoesServiceRequestAttribute>]
abstract RenewLeaseAsync :
    accessCondition:AccessCondition -> Task
[<DoesServiceRequestAttribute>]
override RenewLeaseAsync :
    accessCondition:AccessCondition -> Task

VB  

<DoesServiceRequestAttribute>
Public Overridable Function RenewLeaseAsync ( 
    accessCondition As AccessCondition
) As Task
See Also

RenewLeaseAsync_ Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer.::.RenewLeaseAsync Method

(CheckCondition, BlobRequestOptions, 
OperationContext)(CheckCondition, BlobRequestOptions,  
OperationContext)(CheckCondition, BlobRequestOptions,  
OperationContext)

See Also
Initiates an asynchronous operation that renews a lease on this container.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

### C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task RenewLeaseAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

### C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ RenewLeaseAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

### F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract RenewLeaseAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task

[<DoesServiceRequestAttribute>]
override RenewLeaseAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task
```
See Also

RenewLeaseAsync Overload
CloudBlobContainer Class

Return to top
RenewLeaseAsync Method

CloudBlobContainer:::RenewLeaseAsync Method

(CancelationToken)

See Also
Initiates an asynchronous operation that renews a lease on this container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task RenewLeaseAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ RenewLeaseAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract RenewLeaseAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override RenewLeaseAsync :
    accessCondition:AccessCondition *
```
See Also

RenewLeaseAsync Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer.

RenewLeaseAsync Method (AccessCondition, CancellationToken)
(AccessCondition^, CancellationToken)(AccessCondition, CancellationToken)
See Also
Initiates an asynchronous operation that renews a lease on this container.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task RenewLeaseAsync(
    AccessCondition accessCondition,
    CancellationToken cancellationToken
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ RenewLeaseAsync(
    AccessCondition^ accessCondition,
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract RenewLeaseAsync :
    accessCondition:AccessCondition *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override RenewLeaseAsync :
    accessCondition:AccessCondition *
    cancellationToken:CancellationToken ->
```

VB  

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function RenewLeaseAsync (i
```
See Also

RenewLeaseAsync_Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer:::SetMetadataAsync Method

See Also
Initiates an asynchronous operation that sets container's user-defined metadata.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob]
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task SetMetadataAsync()
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ SetMetadataAsync()
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract SetMetadataAsync : unit -> Task
[<DoesServiceRequestAttribute>]
override SetMetadataAsync : unit -> Task
```

**VB**

```vb
<DoesServiceRequestAttribute>
Public Overridable Function SetMetadataAsync As
```

**Return Value**

Type:

```csharp
System.Threading.Tasks.Task
```
See Also

SetMetadataAsync_Overload
CloudBlobContainer Class

Return to top

See Also
Initiates an asynchronous operation that sets container's user-defined metadata.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#:

```csharp
[DoesServiceRequestAttribute]
public virtual Task SetMetadataAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++:

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ SetMetadataAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#:

```fsharp
[<DoesServiceRequestAttribute>]
abstract SetMetadataAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task

[<DoesServiceRequestAttribute>]
override SetMetadataAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task
```
See Also

SetMetadataAsync_Overload
CloudBlobContainer Class

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CloudBlobContainer...SetMetadataAsync Method  

See Also
Initiates an asynchronous operation that sets container's user-defined metadata.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task SetMetadataAsync(
    AccessCondition accessCondition,  
    BlobRequestOptions options,  
    OperationContext operationContext,  
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ SetMetadataAsync(
    AccessCondition^ accessCondition,  
    BlobRequestOptions^ options,  
    OperationContext^ operationContext,  
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract SetMetadataAsync :  
    accessCondition:AccessCondition *  
    options:BlobRequestOptions *  
    operationContext:OperationContext *  
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override SetMetadataAsync : 
    accessCondition:AccessCondition *  
```
See Also

SetMetadataAsync_Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer.

```csharp
public static Task SetMetadataAsync(ImmutableDictionary<string, string> metadata, CancellationToken cancellationToken = default);```

See Also
Initiates an asynchronous operation that sets container's user-defined metadata.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task SetMetadataAsync(
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ SetMetadataAsync(
    CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract SetMetadataAsync :
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override SetMetadataAsync :
    cancellationToken:CancellationToken ->

VB

<DoesServiceRequestAttribute>
Public Overridable Function SetMetadataAsync(
    cancellationToken As CancellationToken
) As Task
See Also

SetMetadataAsync Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer.:..SetPermissionsAsync

Method (BlobContainerPermissions)

(BlobContainerPermissions^)(BlobContainerPermissions)

See Also
Initiates an asynchronous operation that sets permissions for the container.

**Namespace**: Microsoft.WindowsAzure.Storage.Blob  
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task SetPermissionsAsync(
    BlobContainerPermissions permissions
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ SetPermissionsAsync(
    BlobContainerPermissions^ permissions
)

F#

[<DoesServiceRequestAttribute>] abstract SetPermissionsAsync :
    permissions:BlobContainerPermissions -> Task
[<DoesServiceRequestAttribute>] override SetPermissionsAsync :
    permissions:BlobContainerPermissions -> Task

VB

<DoesServiceRequestAttribute>
Public Overridable Function SetPermissionsAsync
    permissions As BlobContainerPermissions
) As Task
See Also

SetPermissionsAsync_Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer::SetPermissionsAsync Method (BlobContainerPermissions, AccessCondition, BlobRequestOptions, OperationContext)
(BlobContainerPermissions^, AccessCondition^, BlobRequestOptions^, OperationContext^)
(BlobContainerPermissions, AccessCondition, BlobRequestOptions, OperationContext)
(BlobContainerPermissions, AccessCondition, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation that sets permissions for the container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task SetPermissionsAsync(
    BlobContainerPermissions permissions,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ SetPermissionsAsync(
    BlobContainerPermissions^ permissions,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#

[<DoesServiceRequestAttribute>]
abstract SetPermissionsAsync :
    permissions:BlobContainerPermissions *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> T

[<DoesServiceRequestAttribute>]
override SetPermissionsAsync :
    permissions:BlobContainerPermissions

Copy Code
See Also

SetPermissionsAsync Overload
CloudBlobContainer Class

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See Also
Initiates an asynchronous operation that sets permissions for the container.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task SetPermissionsAsync(
    BlobContainerPermissions permissions,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ SetPermissionsAsync(
    BlobContainerPermissions^ permissions,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract SetPermissionsAsync :
    permissions:BlobContainerPermissions *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->
    Task
[<DoesServiceRequestAttribute>]
override SetPermissionsAsync :
    permissions:BlobContainerPermissions *
```
See Also

SetPermissionsAsync Overload
CloudBlobContainer Class

Return to top
CloudBlobContainer..::.SetPermissionsAsync Method (BlobContainerPermissions, CancellationToken)(BlobContainerPermissions^, CancellationToken)(BlobContainerPermissions, CancellationToken)(BlobContainerPermissions, CancellationToken)

See Also
Initiates an asynchronous operation that sets permissions for the container.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task SetPermissionsAsync(
    BlobContainerPermissions permissions,
    CancellationToken cancellationToken
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ SetPermissionsAsync(
    BlobContainerPermissions^ permissions,
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract SetPermissionsAsync :
    permissions:BlobContainerPermissions *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override SetPermissionsAsync :
    permissions:BlobContainerPermissions *
    cancellationToken:CancellationToken ->
```

VB  

```vb
<DoesServiceRequestAttribute>
Public Overridable Function SetPermissionsAsync(
    permissions As BlobContainerPermissions,
    cancellationToken As CancellationToken
) As Task
```
See Also

SetPermissionsAsync Overload
CloudBlobContainer Class

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See Also
Gets the container for the virtual directory.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#
```csharp
public CloudBlobContainer Container { get; private set; }
```

C++
```cpp
public:
property CloudBlobContainer^ Container {
    virtual CloudBlobContainer^ get() sealed;
    private: virtual void set(CloudBlobContainer^ value);
}
```

F#
```fsharp
abstract Container : CloudBlobContainer with get
override Container : CloudBlobContainer with get
```

VB
```vbnet
Public Property Container As CloudBlobContainer
    Get
    Private Set
End Property
```

Property Value

Type:
- A `CloudBlobContainer` object.
See Also

CloudBlobDirectory Class

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CloudBlobDirectory.Parent Property
See Also
Gets the parent directory for the virtual directory.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public CloudBlobDirectory Parent { get; }
```

C++

```cpp
public:
property CloudBlobDirectory^ Parent {
    virtual CloudBlobDirectory^ get() sealed
}
```

F#

```fsharp
abstract Parent : CloudBlobDirectory with get
override Parent : CloudBlobDirectory with get
```

VB

```vbnet
Public ReadOnly Property Parent As CloudBlobDirectory
```

Property Value

Type:


A `CloudBlobDirectory` object.

Implements

- `IListBlobItem.Parent`
- `IListBlobItem::Parent`
- `IListBlobItem.Parent`
See Also

CloudBlobDirectory Class

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See Also
Gets the prefix.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

|public string Prefix { get; private set; } |

C++  

|public:
|property String^ Prefix {
|    String^ get();
|    private: void set(String^ value);
|} |

F#  

|member Prefix : string with get, private set |

VB  

|Public Property Prefix As String
|   Get
|   Private Set
|End Property |

Property Value

Type: System.String System::String^ System.String

A string containing the prefix.
See Also

CloudBlobDirectory Class

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CloudBlobDirectory.ServiceClient

See Also
Gets the Blob service client for the virtual directory.

### Syntax

**C#**

```csharp
public CloudBlobClient ServiceClient { get; private set; }
```

**C++**

```cpp
public:
property CloudBlobClient^ ServiceClient {
    CloudBlobClient^ get();
    private: void set(CloudBlobClient^ value);
}
```

**F#**

```fsharp
copy
member ServiceClient : CloudBlobClient with get
```

**VB**

```vbnet
Public Property ServiceClient As CloudBlobClient
Get
Private Set
End Property
```

### Property Value

Type: 


A *CloudBlobClient* object.
See Also

CloudBlobDirectory Class

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See Also
Gets the blob directory's URIs for both the primary and secondary locations.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
public StorageUri StorageUri { get; private set; }
```

**C++**

```cpp
public:
    property StorageUri^ StorageUri {
        virtual StorageUri^ get() sealed;
        private: virtual void set(StorageUri^ value);
    }
```

**F#**

```fsharp
abstract StorageUri : StorageUri with get, private
override StorageUri : StorageUri with get, private
```

**VB**

```vbnet
Public Property StorageUri As StorageUri
    Get
        Private Set
End Property
```

### Property Value

Type:

```csharp
Microsoft.WindowsAzure.Storage.StorageUri
```

An object of type `StorageUri` containing the blob directory's URIs for both the primary and secondary locations.
See Also

CloudBlobDirectory Class

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See Also
Gets the URI that identifies the virtual directory for the primary location.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**
```csharp
public Uri Uri { get; }
```

**C++**
```cpp
public:
property Uri^ Uri {
    virtual Uri^ get() sealed;
}
```

**F#**
```fsharp
abstract Uri : Uri with get
override Uri : Uri with get
```

**VB**
```vbnet
Public ReadOnly Property Uri As Uri
```

**Property Value**

Type: System.Uri

A Uri containing the URI to the virtual directory, at the primary location.

**Implements**

ILBlobItem.UriILBlobItem::UriILBlobItem.UriILBlobItem.Uri
See Also

CloudBlobDirectory Class

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CloudBlobDirectory.:::BeginListBlobsSegmented Method (BlobContinuationToken, AsyncCallback, Object)(BlobContinuationToken^, AsyncCallback^, Object^) (BlobContinuationToken, AsyncCallback, Object) (BlobContinuationToken, AsyncCallback, Object)

See Also
Begins an asynchronous operation to return a result segment containing a collection of blob items in the virtual directory.


Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginListBlobsSegmented(
    BlobContinuationToken currentToken,
    AsyncCallback callback,
    object state
);

C++  

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginListBlobsSegmented(
    BlobContinuationToken* currentToken,
    AsyncCallback* callback,
    Object* state
);

F#  

[<DoesServiceRequestAttribute>]
abstract BeginListBlobsSegmented : 
    currentToken:BlobContinuationToken * 
    callback:AsyncCallback * 
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginListBlobsSegmented : 
    currentToken:BlobContinuationToken * 
    callback:AsyncCallback * 
    state:Object -> ICancellableAsyncResult
See Also

BeginListBlobsSegmented_Overload
CloudBlobDirectory Class

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CloudBlobDirectory::BeginListBlobsSegmented Method (Boolean, BlobListingDetails, Nullable<Int32>, BlobContinuationToken, BlobRequestOptions, OperationContext, AsyncCallback, Object)(Boolean, BlobListingDetails, Nullable<Int32>, BlobContinuationToken^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)(Boolean, BlobListingDetails, Nullable(Of Int32), BlobContinuationToken, BlobRequestOptions, OperationContext, AsyncCallback, Object)(Boolean, BlobListingDetails, Nullable(Of Int32), BlobContinuationToken, BlobRequestOptions, OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to return a result segment containing a collection of blob items in the virtual directory.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginListBlobsSegmented(
    bool useFlatBlobListing,
    BlobListingDetails blobListingDetails,
    Nullable<int> maxResults,
    BlobContinuationToken currentToken,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginListBlobsSegmented(
    bool useFlatBlobListing,
    BlobListingDetails blobListingDetails,
    Nullable<int> maxResults,
    BlobContinuationToken* currentToken,
    BlobRequestOptions* options,
    OperationContext* operationContext,
    AsyncCallback* callback,
    Object* state
)

F#

[<DoesServiceRequestAttribute>]
abstract BeginListBlobsSegmented :
    useFlatBlobListing: bool *
    blobListingDetails: BlobListingDetails *
    maxResults: Nullable<int> *
    currentToken: BlobContinuationToken *
    options: BlobRequestOptions *
    operationContext: OperationContext *
    callback: AsyncCallback *
    state: object *
See Also

BeginListBlobsSegmented Overload
CloudBlobDirectory Class

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See Also
Ends an asynchronous operation to return a result segment containing a collection of blob items in the virtual directory.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public virtual BlobResultSegment EndListBlobsSegmented(
    IAsyncResult asyncResult
)
```

C++  

```cpp
public:
virtual BlobResultSegment^ EndListBlobsSegmented(
    IAsyncResult^ asyncResult
)
```

F#  

```fsharp
abstract EndListBlobsSegmented :
    asyncResult:IAsyncResult -> BlobResultSegment
override EndListBlobsSegmented :
    asyncResult:IAsyncResult -> BlobResultSegment
```

VB  

```vbnet
Public Overridable Function EndListBlobsSegmented(
    asyncResult As IAsyncResult
) As BlobResultSegment
```

Parameters

`asyncResult`  
Type:  
`System.IAsyncResult System::IAsyncResult ^ System.IAsyncResult System::IAsyncResult System::IAsyncResult`
See Also

CloudBlobDirectory Class

Return to top
Gets a reference to an append blob in this virtual directory.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public CloudAppendBlob GetAppendBlobReference(
    string blobName
)

C++  
public:
CloudAppendBlob^ GetAppendBlobReference(
    String^ blobName
)

F#  
member GetAppendBlobReference :
    blobName:string -> CloudAppendBlob

VB  
Public Function GetAppendBlobReference (  
    blobName As String
) As CloudAppendBlob

Parameters

`blobName`  
Type: System.String System::String^ System.String System.String  
A string containing the name of the blob.
See Also

GetAppendBlobReference_Overload
CloudBlobDirectory Class

Return to top
CloudBlobDirectory::GetAppendBlobReference Method (String, Nullable<DateTimeOffset>)
(String^, Nullable<DateTimeOffset>)(String, Nullable<DateTimeOffset>)(String, Nullable(Of DateTimeOffset))

See Also
Gets a reference to an append blob in this virtual directory.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://docs.microsoft.com)
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public CloudAppendBlob GetAppendBlobReference(
    string blobName,
    Nullable<DateTimeOffset> snapshotTime
)
```

C++
```cpp
public:
CloudAppendBlob^ GetAppendBlobReference(
    String^ blobName,
    Nullable<DateTimeOffset> snapshotTime
)
```

F#
```fsharp
member GetAppendBlobReference :
    blobName:string *
    snapshotTime:Nullable<DateTimeOffset>
```

VB
```vb
Public Function GetAppendBlobReference (  
    blobName As String,  
    snapshotTime As Nullable(Of DateTimeOffset)  
) As CloudAppendBlob
```

Parameters

blobName
See Also

GetAppendBlobReference_ Overload
CloudBlobDirectory Class

Return to top
CloudBlobDirectory.::.GetBlobReference Method
(String)(String^)(String)(String)

See Also
Gets a reference to a blob in this virtual directory.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://docs.microsoft.com/)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```
public CloudBlob GetBlobReference(
    string blobName
)
```

C++  
```
public:
CloudBlob^ GetBlobReference(
    String^ blobName
)
```

F#  
```
member GetBlobReference :
    blobName:string -> CloudBlob
```

VB  
```
Public Function GetBlobReference (  
    blobName As String
) As CloudBlob
```

Parameters

blobName
Type: System.StringSystem::String^System.StringSystem.String
A string containing the name of the blob.
See Also

GetBlobReference_Overload
CloudBlobDirectory Class

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CloudBlobDirectory...GetBlobReference Method

C# C++ F# VB

(String, Nullable<DateTimeOffset>)(String^, Nullable<DateTimeOffset>)(String, Nullable<DateTimeOffset>)(String, Nullable(Of DateTimeOffset))

See Also
Gets a reference to a blob in this virtual directory.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**
```csharp
public CloudBlob GetBlobReference(
    string blobName,
    Nullable<DateTimeOffset> snapshotTime
)
```

**C++**
```cpp
public:
CloudBlob^ GetBlobReference(
    String^ blobName,
    Nullable<DateTimeOffset> snapshotTime
)
```

**F#**
```fsharp
member GetBlobReference :
    blobName:string *
    snapshotTime:Nullable<DateTimeOffset>
->
    CloudBlob
```

**VB**
```vbnet
Public Function GetBlobReference (  
    blobName As String,  
    snapshotTime As Nullable(Of DateTimeOffset)  
) As CloudBlob
```

**Parameters**

*blobName*
See Also

- GetBlobReference_Overload
- CloudBlobDirectory Class

Return to top

See Also
Gets a reference to a block blob in this virtual directory.

**Namespace:**  

**Assembly:**  
Syntax

C#

```csharp
public CloudBlockBlob GetBlockBlobReference(
    string blobName
)
```

C++

```cpp
public:
CloudBlockBlob^ GetBlockBlobReference(
    String^ blobName
)
```

F#

```fsharp
member GetBlockBlobReference :
    blobName:string -> CloudBlockBlob
```

VB

```vbnet
Public Function GetBlockBlobReference (    blobName As String
) As CloudBlockBlob
```

Parameters

`blobName`

Type: `System.String`

A string containing the name of the blob.
See Also

GetBlockBlobReference Overload
CloudBlobDirectory Class

Return to top
CloudBlobDirectory.::GetBlockBlobReference Method (String, Nullable<DateTimeOffset>)
(String^, Nullable<DateTimeOffset>)(String, Nullable<DateTimeOffset>)(String, Nullable(Of DateTimeOffset))

See Also
Gets a reference to a block blob in this virtual directory.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
public CloudBlockBlob GetBlockBlobReference(
    string blobName,
    Nullable<DateTimeOffset> snapshotTime
)
```

**C++**

```cpp
public:
CloudBlockBlob^ GetBlockBlobReference(
    String^ blobName,
    Nullable<DateTimeOffset> snapshotTime
)
```

**F#**

```fsharp
member GetBlockBlobReference :
    blobName:string *
    snapshotTime:Nullable<DateTimeOffset> ->
    CloudBlockBlob
```

**VB**

```vb
Public Function GetBlockBlobReference (  
    blobName As String,
    snapshotTime As Nullable(Of DateTimeOffset)  
) As CloudBlockBlob
```

**Parameters**

- **blobName**
See Also

GetBlockBlobReference_ Overload
CloudBlobDirectory Class

Return to top
Returns a virtual subdirectory within this virtual directory.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  CloudBlobDirectory GetDirectoryReference(string itemName)

C++  CloudBlobDirectory^ GetDirectoryReference(String^ itemName)

F#  member GetDirectoryReference : itemName:string -> CloudBlobDirectory

VB  Public Function GetDirectoryReference (itemName As String) As CloudBlobDirectory

Parameters

itemName
Type: System.String
The name of the virtual subdirectory.
See Also

CloudBlobDirectory Class

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**See Also**
Gets a reference to a page blob in this virtual directory.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
public CloudPageBlob GetPageBlobReference(
    string blobName
)
```

**C++**

```cpp
public:
CloudPageBlob^ GetPageBlobReference(
    String^ blobName
)
```

**F#**

```fsharp
member GetPageBlobReference :
    blobName:string -> CloudPageBlob
```

**VB**

```vbnet
Public Function GetPageBlobReference (  
    blobName As String
) As CloudPageBlob
```

**Parameters**

*blobName*

Type: `System.String System::String ^ System.String System.String`

A string containing the name of the blob.
See Also

GetPageBlobReference Overload
CloudBlobDirectory Class

Return to top
CloudBlobDirectory::GetPageBlobReference Method (String, Nullable<DateTimeOffset>)
(String^, Nullable<DateTimeOffset>)(String, Nullable<DateTimeOffset>)(String, Nullable(Of DateTimeOffset))
See Also
Returns a reference to a page blob in this virtual directory.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

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<td>public CloudPageBlob GetPageBlobReference( string blobName, Nullable&lt;DateTimeOffset&gt; snapshotTime )</td>
</tr>
<tr>
<td>C++</td>
<td>public: CloudPageBlob^ GetPageBlobReference( String^ blobName, Nullable&lt;DateTimeOffset&gt; snapshotTime )</td>
</tr>
<tr>
<td>F#</td>
<td>member GetPageBlobReference : blobName:string * snapshotTime:Nullable&lt;DateTimeOffset&gt;</td>
</tr>
<tr>
<td>VB</td>
<td>Public Function GetPageBlobReference ( blobName As String, snapshotTime As Nullable(Of DateTimeOffset) ) As CloudPageBlob</td>
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### Parameters

- **blobName**
See Also

GetPageBlobReference Overload
CloudBlobDirectory Class

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CloudBlobDirectory:::ListBlobsSegmentedAsync (BlobContinuationToken)
(BlobContinuationToken^) (BlobContinuationToken)
See Also
Initiates an asynchronous operation to return a result segment containing a collection of blob items in the virtual directory.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<BlobResultSegment> ListBlobsSegmentedAsync(
    BlobContinuationToken currentToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<BlobResultSegment^>^ ListBlobsSegmentedAsync(
    BlobContinuationToken^ currentToken
)

F#

[<DoesServiceRequestAttribute>]
abstract ListBlobsSegmentedAsync :
    currentToken:BlobContinuationToken ->
[<DoesServiceRequestAttribute>]
override ListBlobsSegmentedAsync :
    currentToken:BlobContinuationToken ->

VB

<DoesServiceRequestAttribute>
Public Overridable Function ListBlobsSegmentedAsync(
    currentToken As BlobContinuationToken
) As Task(Of BlobResultSegment)
See Also

- ListBlobsSegmentedAsync Overload
- CloudBlobDirectory Class

Return to top
CloudBlobDirectory:::ListBlobsSegmentedAsync Method (BlobContinuationToken, CancellationToken)(BlobContinuationToken^, CancellationToken)(BlobContinuationToken, CancellationToken)(BlobContinuationToken, CancellationToken)

See Also
Initiates an asynchronous operation to return a result segment containing a collection of blob items in the virtual directory.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task<BlobResultSegment> ListBlobsSegmentedAsync(BlobContinuationToken currentToken, CancellationToken cancellationToken)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task<BlobResultSegment^>^ ListBlobsSegmentedAsync(BlobContinuationToken^ currentToken, CancellationToken cancellationToken)

F#  

[<DoesServiceRequestAttribute>]
abstract ListBlobsSegmentedAsync : 
    currentToken:BlobContinuationToken * 
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override ListBlobsSegmentedAsync : 
    currentToken:BlobContinuationToken * 
    cancellationToken:CancellationToken ->

VB  

<DoesServiceRequestAttribute>
Public Overridable Function ListBlobsSegmentedAsync
callingArguments
...
See Also

ListBlobsSegmentedAsync Overload
CloudBlobDirectory Class

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See Also
Initiates an asynchronous operation to return a result segment containing a collection of blob items in the virtual directory.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob]

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task<BlobResultSegment> ListBlobsSegmentedAsync(
    bool useFlatBlobListing,
    BlobListingDetails blobListingDetails,
    Nullable<int> maxResults,
    BlobContinuationToken currentToken,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<BlobResultSegment^>^ ListBlobsSegmentedAsync(
    bool useFlatBlobListing,
    BlobListingDetails blobListingDetails,
    Nullable<int> maxResults,
    BlobContinuationToken^ currentToken,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract ListBlobsSegmentedAsync :
    useFlatBlobListing:bool	*
    blobListingDetails:BlobListingDetails	*
    maxResults:Nullable<int>	*
    currentToken:BlobContinuationToken	*
    options:BlobRequestOptions	*
    operationContext:OperationContext	->
    Task<BlobResultSegment>
```
See Also

- ListBlobsSegmentedAsync Overload
- CloudBlobDirectory Class

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CloudBlobDirectory::ListBlobsSegmentedAsync Method (Boolean, BlobListingDetails, Nullable<Int32>, BlobContinuationToken, BlobRequestOptions, OperationContext, CancellationToken)
(Boolean, BlobListingDetails, Nullable<Int32>, BlobContinuationToken^, BlobRequestOptions^, OperationContext^, CancellationToken)(Boolean, BlobListingDetails, Nullable<Int32>, BlobContinuationToken, BlobRequestOptions, OperationContext, CancellationToken)
(Boolean, BlobListingDetails, Nullable(Of Int32), BlobContinuationToken, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to return a result segment containing a collection of blob items in the virtual directory.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<BlobResultSegment> ListBlobsSegmentedAsync(
    bool useFlatBlobListing,
    BlobListingDetails blobListingDetails,
    Nullable<int> maxResults,
    BlobContinuationToken currentToken,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<BlobResultSegment^>^ ListBlobsSegmentedAsync(
    bool useFlatBlobListing,
    BlobListingDetails blobListingDetails,
    Nullable<int> maxResults,
    BlobContinuationToken^ currentToken,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract ListBlobsSegmentedAsync :
    useFlatBlobListing : bool *
    blobListingDetails : BlobListingDetails *
    maxResults : Nullable<int> *
    currentToken : BlobContinuationToken *
    options : BlobRequestOptions *
    operationContext : OperationContext *
    cancellationToken : CancellationToken *
```
See Also

ListBlobsSegmentedAsync Overload
CloudBlobDirectory Class

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See Also

CloudBlobStream Class

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See Also
Begins an asynchronous commit operation.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public abstract ICancellableAsyncResult BeginCommit(
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
    virtual ICancellableAsyncResult* BeginCommit(
        AsyncCallback* callback,
        Object* state
    ) abstract
```

F#

```fsharp
abstract BeginCommit :
    callback:AsyncCallback -> ICancellableAsyncResult
```

VB

```vbnet
Public MustOverride Function BeginCommit (    callback As AsyncCallback,
    state As Object
) As ICancellableAsyncResult
```

Parameters

- `callback`
See Also

CloudBlobStream Class

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See Also
Begins an asynchronous flush operation.

### Syntax

**C#**

```csharp
public abstract ICancellableAsyncResult BeginFlush(
    AsyncCallback callback,
    object state
)
```

**C++**

```cpp
public:
virtual ICancellableAsyncResult^ BeginFlush(
    AsyncCallback^ callback,
    Object^ state
) abstract
```

**F#**

```fsharp
abstract BeginFlush :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```

**VB**

```vb
Public MustOverride Function BeginFlush (  
    callback As AsyncCallback,  
    state As Object  
) As ICancellableAsyncResult
```

### Parameters

- **callback**
See Also

CloudBlobStream Class

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Waits for the pending asynchronous commit to complete.

**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public abstract void EndCommit(
    IAsyncResult asyncResult
)
```

C++  
```cpp
public:
    virtual void EndCommit(
        IAsyncResult^ asyncResult
    ) abstract
```

F#  
```fsharp
abstract EndCommit :
    asyncResult:IAasyncResult -> unit
```

VB  
```vbnet
Public MustOverride Sub EndCommit (  
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`  
Type:  
```csharp
System::IAsyncResult
```
An IAsyncResult object containing a reference to the pending asynchronous request to finish.
See Also

CloudBlobStream Class

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CloudBlobStream::EndFlush Method
(IAsyncResult)(IAsyncResult^)(IAsyncResult)
See Also
Waits for the pending asynchronous flush to complete.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public abstract void EndFlush(
    IAsyncResult asyncResult
)
```

C++  
```c++
public:
virtual void EndFlush(
    IAsyncResult^ asyncResult
) abstract
```

F#  
```fsharp
abstract EndFlush :
    asyncResult:IAasyncResult -> unit
```

VB  
```vbnet
Public MustOverride Sub EndFlush (
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`
Type:  
`System.IAsyncResult`  
An IAsyncResult object containing a reference to the pending asynchronous request to finish.
See Also

CloudBlobStream Class

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CloudBlockBlob Constructor (StorageUri, Nullable<DateTimeOffset>, StorageCredentials)
(StorageUri^, Nullable<DateTimeOffset>, StorageCredentials^)
(StorageUri, Nullable<DateTimeOffset>, StorageCredentials)
(StorageUri, Nullable(Of DateTimeOffset), StorageCredentials)

See Also
Initializes a new instance of the CloudBlockBlob class using an absolute URI to the blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
public CloudBlockBlob(
    StorageUri blobAbsoluteUri,
    Nullable<DateTimeOffset> snapshotTime,
    StorageCredentials credentials
)
```

**C++**

```cpp
public:
    CloudBlockBlob(
        StorageUri* blobAbsoluteUri,
        Nullable<DateTimeOffset> snapshotTime,
        StorageCredentials* credentials
    )
```

**F#**

```fsharp
new :
    blobAbsoluteUri:StorageUri *
    snapshotTime:Nullable<DateTimeOffset>
    credentials:StorageCredentials -> CloudBlockBlob
```

**VB**

```vbnet
Public Sub New (
    blobAbsoluteUri As StorageUri,
    snapshotTime As Nullable(Of DateTimeOffset),
    credentials As StorageCredentials
)
```
See Also

CloudBlockBlob_ Overload
CloudBlockBlob Class

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CloudBlockBlob Constructor (Uri)(Uri^)(Uri)(Uri)

See Also
Initializes a new instance of the `CloudBlockBlob` class using an absolute URI to the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

C#  
```csharp
public CloudBlockBlob(
    Uri blobAbsoluteUri
)
```

C++  
```cpp
public:
CloudBlockBlob(
    Uri^ blobAbsoluteUri
)
```

F#  
```fsharp
new :
    blobAbsoluteUri:Uri -> CloudBlockBlob
```

VB  
```vbnet
Public Sub New (    blobAbsoluteUri As Uri
)
```

**Parameters**

`blobAbsoluteUri`  
Type: [System.Uri](https://docs.microsoft.com/en-us/dotnet/api/system.uri)  
A Uri specifying the absolute URI to the blob.
See Also

CloudBlockBlob Overload
CloudBlockBlob Class

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| F#       | CloudBlockBlob Constructor (Uri, Nullable<
|          | DateTimeOffset>, StorageCredentials) |
| VB       | CloudBlockBlob Constructor (Uri, Nullable(Of DateTimeOffset), StorageCredentials) |

See Also
Initializes a new instance of the CloudBlockBlob class using an absolute URI to the blob.

Syntax

C#

```csharp
public CloudBlockBlob(
    Uri blobAbsoluteUri,
    Nullable<DateTimeOffset> snapshotTime,
    StorageCredentials credentials
)
```

C++

```cpp
public:
CloudBlockBlob(
    Uri^ blobAbsoluteUri,
    Nullable<DateTimeOffset> snapshotTime,
    StorageCredentials^ credentials
)
```

F#

```fsharp
new :
    blobAbsoluteUri:.Uri *
    snapshotTime:Nullable<DateTimeOffset>*
    credentials:StorageCredentials *
    -> CloudBlockBlob
```

VB

```vbnet
Public Sub New (
    blobAbsoluteUri As Uri,
    snapshotTime As Nullable(Of DateTimeOffset),
    credentials As StorageCredentials
)
```
See Also

CloudBlockBlob Overload
CloudBlockBlob Class

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CloudBlockBlob Constructor (Uri, StorageCredentials)(Uri^, StorageCredentials^)(Uri, StorageCredentials)(Uri, StorageCredentials)

See Also
Initializes a new instance of the `CloudBlockBlob` class using an absolute URI to the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public CloudBlockBlob(
    Uri blobAbsoluteUri,
    StorageCredentials credentials
)
```

C++  
```cpp
public:
CloudBlockBlob(  
    Uri* blobAbsoluteUri,
    StorageCredentials* credentials
)
```

F#  
```fsharp
new blobAbsoluteUri:Uri * credentials:StorageCredentials -> CloudBlockBlob
```

VB  
```vbnet
Public Sub New (  
    blobAbsoluteUri As Uri,
    credentials As StorageCredentials
)
```

Parameters

- **blobAbsoluteUri**
See Also

CloudBlockBlob Overload
CloudBlockBlob Class

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See Also
Gets or sets the block size for writing to a block blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public int StreamWriteSizeInBytes { get; set; }
```

C++
```c++
public:
property int StreamWriteSizeInBytes {
    virtual int get() sealed;
    virtual void set(int value) sealed;
}
```

F#
```fsharp
abstract StreamWriteSizeInBytes : int with get
override StreamWriteSizeInBytes : int with get
```

VB
```vb
Public Property StreamWriteSizeInBytes As Integer
```

Property Value

Type: System.Int32

The size of a block, in bytes, ranging from between 16 KB and 4 MB inclusive.

Implements
See Also

CloudBlockBlob Class

Return to top
CloudBlockBlob BeginCreateSnapshot Method
(AsyncCallback, Object)(AsyncCallback^, Object^)(AsyncCallback, Object)(AsyncCallback, Object)

See Also
Begins an asynchronous operation to create a snapshot of the blob.


Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginCreateSnapshot(
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginCreateSnapshot(
    AsyncCallback^ callback,
    Object^ state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginCreateSnapshot :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginCreateSnapshot :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```

VB  

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function BeginCreateSnapshot(
```
See Also

- BeginCreateSnapshot_Overload
- CloudBlockBlob Class

Return to top
CloudBlockBlob::BeginCreateSnapshot Method


See Also
Begins an asynchronous operation to create a snapshot of the blob.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginCreateSnapshot(
    IDictionary<string, string> metadata,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
    [DoesServiceRequestAttribute]
    virtual ICancellableAsyncResult* BeginCreateSnapshot(
        IDictionary<String^, String^>* metadata,
        AccessCondition^ accessCondition,
        BlobRequestOptions^ options,
        OperationContext^ operationContext,
        AsyncCallback^ callback,
        Object^ state
    )
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginCreateSnapshot :
    metadata:IDictionary<string, string> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
```
See Also

- BeginCreateSnapshot Overload
- CloudBlockBlob Class

Return to top
CloudBlockBlob::..BeginDownloadBlockList

Method (AsyncCallback, Object)(AsyncCallback^, Object^)(AsyncCallback, Object)(AsyncCallback, Object)

See Also
Begins an asynchronous operation to return an enumerable collection of the blob's blocks, using the specified block list filter.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDownloadBlockList(
    AsyncCallback callback,
    object state
)
```

C++  

```
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDownloadBlockList(
    AsyncCallback^ callback,
    Object^ state
)
```

F#  

```
[<DoesServiceRequestAttribute>]
abstract BeginDownloadBlockList :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginDownloadBlockList :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```

VB  

```
<DoesServiceRequestAttribute>
Public Overridable Function BeginDownloadBlockList
```
See Also

BeginDownloadBlockList_ Overload
CloudBlockBlob Class

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See Also
Begins an asynchronous operation to return an enumerable collection of the blob's blocks, using the specified block list filter.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDownloadBlockList(
    BlockListingFilter blockListingFilter,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDownloadBlockList(
    BlockListingFilter^ blockListingFilter,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginDownloadBlockList : 
    blockListingFilter:BlockListingFilter 
    accessCondition:AccessCondition  
    options:BlobRequestOptions  
    callback:AsyncCallback  
    state:Object  
    ICancellableAsyncResult
```
See Also

BeginDownloadBlockList Overload
CloudBlockBlob Class

Return to top
CloudBlockBlob::BeginDownloadText Method
(AsyncCallback, Object)(AsyncCallback^, Object^)(AsyncCallback, Object)(AsyncCallback, Object)

See Also
Begins an asynchronous operation to download the blob’s contents as a string

Syntax

C#

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDownloadText(
    AsyncCallback callback,
    object state
)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDownloadText(
    AsyncCallback^ callback,
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]
abstract BeginDownloadText :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginDownloadText :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

VB

<DoesServiceRequestAttribute>
Public Overridable Function BeginDownloadText

See Also

- `BeginDownloadText_Overload`
- `CloudBlockBlob Class`

Return to top
CloudBlockBlob.::BeginDownloadText Method


See Also
Begins an asynchronous operation to download the blob's contents as a string

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDownloadText(
    Encoding encoding,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++  

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDownloadText(
    Encoding^ encoding,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#  

[<DoesServiceRequestAttribute>]
abstract BeginDownloadText :
    encoding:Encoding *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
See Also

BeginDownloadText_Overload
CloudBlockBlob Class

Return to top
CloudBlockBlob::BeginOpenWrite Method
(ACCESSCONDITION, BLOBREQUESTOPTIONS, OPERATIONCONTEXT, ASYNC_CALLBACK, OBJECT)

See Also
Begins an asynchronous operation to open a stream for writing to the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[.DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginOpenWrite(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginOpenWrite(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginOpenWrite :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
Remarks

Note that this method always makes a call to the Referenced topic 'f0024a28638-4896-b409-ebc8fe9366af' is not in the TOC, method under the covers.

Set the StreamWriteSizeInBytes property before calling this method to specify the block size to write, in bytes, ranging from between 16 KB and 4 MB inclusive.
See Also

BeginOpenWrite_ Overload
CloudBlockBlob Class

Return to top
CloudBlockBlob:::BeginOpenWrite Method (AsyncCallback, Object)(AsyncCallback^, Object^)(AsyncCallback, Object)(AsyncCallback, Object)
See Also
Begins an asynchronous operation to open a stream for writing to the blob.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginOpenWrite(
    AsyncCallback callback,
    object state
)

C++  
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginOpenWrite(
    AsyncCallback^ callback,
    Object^ state
)

F#  
[<DoesServiceRequestAttribute>]
abstract BeginOpenWrite :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginOpenWrite :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

VB  
<DoesServiceRequestAttribute>
Public Overridable Function BeginOpenWrite (  )
Remarks

Note that this method always makes a call to the Referenced topic 'f0024a28638-4896-b409-ebc8fe9366af' is not in the TOC, method under the covers.

Set the StreamWriteSizeInBytes property before calling this method to specify the block size to write, in bytes, ranging from between 16 KB and 4 MB inclusive.
See Also

BeginOpenWrite Overload
CloudBlockBlob Class

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See Also
Begins an asynchronous operation to upload a single block.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginPutBlock(
    string blockId,
    Stream blockData,
    string contentMD5,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginPutBlock(
    String^ blockId,
    Stream^ blockData,
    String^ contentMD5,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginPutBlock :
    blockId:string	* 
    blockData:Stream	* 
    contentMD5:string	* 
    accessCondition:AccessCondition	* 
    options:BlobRequestOptions	* 
    operationContext:OperationContext	* 
    callback:AsyncCallback	* 
    state:obj	* 
```
Remarks

Clients may send the Content-MD5 header for a given Put Block operation as a means to ensure transactional integrity over the wire. The contentMD5 parameter permits clients who already have access to a pre-computed MD5 value for a given byte range to provide it. If the `P:BlobRequestOptions.UseTransactionalMd5` property is set to true and the contentMD5 parameter is set to null, then the client library will calculate the MD5 value internally.
See Also

BeginPutBlock Overload
CloudBlockBlob Class

Return to top
CloudBlockBlob....BeginPutBlock Method (String, Stream, String, AsyncCallback, Object)(String^, Stream^, String^, AsyncCallback^, Object^)(String, Stream, String, AsyncCallback, Object)(String, Stream, String, AsyncCallback, Object)

See Also
Begins an asynchronous operation to upload a single block.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginPutBlock(
    string blockId,
    Stream blockData,
    string contentMD5,
    AsyncCallback callback,
    object state
)

C++  

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginPutBlock(
    String^ blockId,
    Stream^ blockData,
    String^ contentMD5,
    AsyncCallback^ callback,
    Object^ state
)

F#  

[<DoesServiceRequestAttribute>]
abstract BeginPutBlock :
    blockId:string *
    blockData:Stream *
    contentMD5:string *
    callback:AsyncCallback *
    state:Object * -> ICancellableAsyncResult
Remarks

Clients may send the Content-MD5 header for a given Put Block operation as a means to ensure transactional integrity over the wire. The contentMD5 parameter permits clients who already have access to a pre-computed MD5 value for a given byte range to provide it. If the P:BlobRequestOptions.UseTransactionalMd5Referenced topic's target id should not be empty. Article id: 87c71e53-76f0-4e9a-b511-e4f8526fc147, link: P:BlobRequestOptions.UseTransactionalMd5, property is set to true and the contentMD5 parameter is set to null, then the client library will calculate the MD5 value internally.
See Also

- BeginPutBlock Overload
- CloudBlockBlob Class

Return to top
CloudBlockBlob.::..BeginPutBlockList Method

(IEListenable<String>, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(IEListenable<String^>, AccessCondition^,
BlobRequestOptions^, OperationContext^, AsyncCallback^,
Object^)(IEListenable<String>, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(IEListenable(Of String), AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)

See Also
Begins an asynchronous operation to upload a list of blocks to a new or existing blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginPutBlockList(
    IEnumerable<string> blockList,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginPutBlockList(
    IEnumerable<String^>^ blockList,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginPutBlockList :
    blockList:IEnumerable<string> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    callback:AsyncCallback *
    state:Object * ICancellableAsyncResult
```
See Also

BeginPutBlockList Overload
CloudBlockBlob Class

Return to top
CloudBlockBlob::BeginPutBlockList Method

C# C++ F# VB

(IEnumerable<String>, AsyncCallback, Object)
(IEnumerable<String^>, AsyncCallback^, Object^)
(IEnumerable<String>, AsyncCallback, Object)
(IEnumerable(Of String), AsyncCallback, Object)

See Also
Begins an asynchronous operation to upload a list of blocks to a new or existing blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginPutBlockList(
    IEnumerable<string> blockList,
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
    [DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginPutBlockList(
    IEnumerable<String^>^ blockList,
    AsyncCallback^ callback,
    Object^ state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginPutBlockList :
    blockList:IEncumberable<string> *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginPutBlockList :
    blockList:IEncumberable<string> *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
See Also

- [BeginPutBlockList Overload](#)
- [CloudBlockBlob Class](#)

[Return to top](#)
CloudBlockBlob.:::BeginStartCopy Method


See Also
Begins an asynchronous operation to start copying another block blob's contents, properties, and metadata to this block blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginStartCopy(
    CloudBlockBlob source,
    AccessCondition sourceAccessCondition,
    AccessCondition destAccessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginStartCopy(
    CloudBlockBlob* source,
    AccessCondition* sourceAccessCondition,
    AccessCondition* destAccessCondition,
    BlobRequestOptions* options,
    OperationContext* operationContext,
    AsyncCallback* callback,
    Object* state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginStartCopy :
    source:CloudBlockBlob * 
```
See Also

- Begin
- Start
- Copy
- Overload
- Cloud
- Block
- Blob
- Class
- Namespace

Return to top
CloudBlockBlob:::BeginStartCopy Method
(CloudBlockBlob, AsyncCallback, Object)
(CloudBlockBlob, AsyncCallback, Object)
(CloudBlockBlob, AsyncCallback, Object)

See Also
Begins an asynchronous operation to start copying another block blob's contents, properties, and metadata to this block blob.

Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginStartCopy(
    CloudBlockBlob source,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginStartCopy(
    CloudBlockBlob^ source,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginStartCopy : 
    source:CloudBlockBlob *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginStartCopy : 
    source:CloudBlockBlob *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
See Also

- BeginStartCopy_Overload
- CloudBlockBlob Class

Return to top
CloudBlockBlob::BeginStartCopy Method

(CloudFile, AccessCondition, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)
(CloudFile^, AccessCondition^, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)
(CloudFile, AccessCondition, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)
(CloudFile, AccessCondition, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to start copying a file's contents, properties, and metadata to this block blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginStartCopy(
    CloudFile source,
    AccessCondition sourceAccessCondition,
    AccessCondition destAccessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginStartCopy(
    CloudFile^ source,
    AccessCondition^ sourceAccessCondition,
    AccessCondition^ destAccessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]
abstract BeginStartCopy : 
    source:CloudFile *
See Also

BeginStartCopy Overload
CloudBlockBlob Class

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</tr>
</tbody>
</table>

See Also
Begins an asynchronous operation to start copying a file's contents, properties, and metadata to this block blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginStartCopy(
    CloudFile source,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginStartCopy(
    CloudFile* source,
    AsyncCallback* callback,
    Object* state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginStartCopy : 
    source:CloudFile *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginStartCopy : 
    source:CloudFile *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
See Also

- BeginStartCopy Overload
- CloudBlockBlob Class

Return to top
CloudBlockBlob::BeginUploadFromByteArray Method (Byte[], Int32, Int32, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)
See Also
Begins an asynchronous operation to upload the contents of a byte array to a blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadFromByteArray(
    byte[] buffer,
    int index,
    int count,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++

public:

[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginUploadFromByteArray(
    array<unsigned char>^ buffer,
    int index,
    int count,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]
abstract BeginUploadFromByteArray : buffer:byte[] * index:int * count:int
  accessCondition:AccessCondition
  options:BlobRequestOptions
  operationContext:OperationContext
  callback:AsyncCallback
  state:object
See Also

BeginUploadFromByteArray Overload
CloudBlockBlob Class

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See Also
Begins an asynchronous operation to upload the contents of a byte array to a blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadFromByteArray(
    byte[] buffer,
    int index,
    int count,
    AsyncCallback callback,
    object state
)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginUploadFromByteArray(
    array<unsigned char>^ buffer,
    int index,
    int count,
    AsyncCallback^ callback,
    Object^ state
)

F#  

[<DoesServiceRequestAttribute>]
abstract BeginUploadFromByteArray : buffer:byte[] *
index:int *
count:int *
callback:AsyncCallback *
state:Object * -> ICancellableAsyncResult
See Also

BeginUploadFromByteArray_ Overload
CloudBlockBlob Class

Return to top
CloudBlockBlob::...BeginUploadFromFile Method  
(String, AccessCondition, BlobRequestOptions, 
OperationContext, AsyncCallback, Object)(String^, 
AccessCondition^, BlobRequestOptions^, OperationContext^, 
AsyncCallback^, Object^)(String, AccessCondition, 
BlobRequestOptions, OperationContext, AsyncCallback, 
Object)(String, AccessCondition, BlobRequestOptions, 
OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to upload a file to a blob. If the blob already exists, it will be overwritten.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadFromFile(
    string path,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginUploadFromFile(
    String* path,
    AccessCondition* accessCondition,
    BlobRequestOptions* options,
    OperationContext* operationContext,
    AsyncCallback* callback,
    Object* state
)

F#  
[<DoesService RequestAttribute>]
abstract BeginUploadFromFile : 
    path:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    callback:AsyncCallback *
    state:Object *
    ICancellableAsyncResult *
See Also

- BeginUploadFromFile_Overload
- CloudBlockBlob Class

Return to top
CloudBlockBlob:::BeginUploadFromFile Method
(String, AsyncCallback, Object)(String^,
AsyncCallback^, Object^)(String, AsyncCallback, Object)
(String, AsyncCallback, Object)
See Also
Begins an asynchronous operation to upload a file to a blob. If the blob already exists, it will be overwritten.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadFromFile(
    string path,
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginUploadFromFile(
    String* path,
    AsyncCallback* callback,
    Object* state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginUploadFromFile :
    path:string ->
    callback:AsyncCallback ->
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginUploadFromFile :
    path:string *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
See Also

BeginUploadFromFile_ Overload
CloudBlockBlob Class

Return to top

See Also
Begins an asynchronous operation to upload a stream to a block blob.

Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadFromStream(
    Stream source,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginUploadFromStream(
    Stream^ source,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginUploadFromStream :
    source:Stream *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
```
See Also

- BeginUploadFromStream_Overload
- CloudBlockBlob Class

Return to top
CloudBlockBlob:::BeginUploadFromStream Method (Stream, AsyncCallback, Object) (Stream^, AsyncCallback^, Object^)(Stream, AsyncCallback, Object)(Stream, AsyncCallback, Object)

See Also
Begins an asynchronous operation to upload a stream to a block blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadFromStream(
    Stream source,
    AsyncCallback callback,
    object state
)
```

**C++**

```c++
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginUploadFromStream(
    Stream^ source,
    AsyncCallback^ callback,
    Object^ state
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginUploadFromStream : 
    source:Stream  
    callback:AsyncCallback  
    state:Object  -> ICancellableAsyncResult
[<DoesServiceRequestAttribute>]
override BeginUploadFromStream : 
    source:Stream  
    callback:AsyncCallback  
    state:Object  -> ICancellableAsyncResult
```
See Also

BeginUploadFromStream_Overload
CloudBlockBlob Class

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CloudBlockBlob::..BeginUploadFromStream

See Also
Begins an asynchronous operation to upload a stream to a block blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadFromStream(
    Stream source,
    long length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginUploadFromStream(
    Stream^ source,
    long long length,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginUploadFromStream : 
    source:Stream -> 
    length:int64 -> 
    accessCondition:AccessCondition -> 
    options:BlobRequestOptions -> 
    operationContext:OperationContext -> 
    callback:AsyncCallback -> 
    state:Object -> 
    ICancellableAsyncResult
```
See Also

BeginUploadFromStream_Overload
CloudBlockBlob Class

Return to top
CloudBlockBlob:::BeginUploadFromStream (Stream, Int64, AsyncCallback, Object)
(Stream^, Int64, AsyncCallback^, Object^)
See Also
Begins an asynchronous operation to upload a stream to a block blob.

**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadFromStream(
    Stream source,
    long length,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginUploadFromStream(
    Stream^ source,
    long long length,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginUploadFromStream : 
    source:Stream * 
    length:int64 * 
    callback:AsyncCallback * 
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginUploadFromStream : 
    source:Stream * 
```
See Also

BeginUploadFromStream_Overload
CloudBlockBlob Class

Return to top
CloudBlockBlob...BeginUploadText Method
(String, AsyncCallback, Object)
(String^, AsyncCallback^, Object^)
(String, AsyncCallback, Object)

See Also
Begins an asynchronous operation to upload a string of text to a blob.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]

public virtual ICancellableAsyncResult BeginUploadText(
    string content,
    AsyncCallback callback,
    object state
)

C++

public:

[DoesServiceRequestAttribute]

virtual ICancellableAsyncResult* BeginUploadText(
    String* content,
    AsyncCallback* callback,
    Object* state
)

F#

[<DoesServiceRequestAttribute>]

abstract BeginUploadText :
    content:string *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]

override BeginUploadText :
    content:string *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
See Also

BeginUploadText_Overload
CloudBlockBlob Class

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CloudBlockBlob.:::BeginUploadText Method
(String, Encoding, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(String^, Encoding^, AccessCondition^,
BlobRequestOptions^, OperationContext^, AsyncCallback^,
Object^)(String, Encoding, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(String, Encoding, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)

See Also
Begins an asynchronous operation to upload a string of text to a blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#.

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadText(
    string content,
    Encoding encoding,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++.

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginUploadText(
    String^ content,
    Encoding^ encoding,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#.

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginUploadText :
    content:string*]
```
See Also

BeginUploadText Overload
CloudBlockBlob Class

Return to top
CloudBlockBlob::CreateSnapshotAsync Method () C# C++ F# VB

See Also
Initiates an asynchronous operation to create a snapshot of the blob.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob

**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task<CloudBlockBlob> CreateSnapshotAsync()
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<CloudBlockBlob^>^ CreateSnapshotAsync()
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract CreateSnapshotAsync : unit -> Task<CloudBlockBlob>
[<DoesServiceRequestAttribute>]
override CreateSnapshotAsync : unit -> Task<CloudBlockBlob>
```

**VB**

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function CreateSnapshotAsync
```

### Return Value

Type:

```csharp
System.Threading.Tasks.Task<br>System.Threading.Tasks.Task<br>A Task<TResult><TResult><TResult>(Of TResult) object of type CloudBlockBlob that represents the asynchronous operation.
```
See Also

CreateSnapshotAsync_Overload
CloudBlockBlob Class

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<td>(CancellationToken)(CancellationToken)</td>
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</table>

See Also
Initiates an asynchronous operation to create a snapshot of the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task<CloudBlockBlob> CreateSnapshotAsync(
    CancellationToken cancellationToken)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task<CloudBlockBlob^>^ CreateSnapshotAsync(
    CancellationToken cancellationToken)

F#  

[<DoesServiceRequestAttribute>]
abstract CreateSnapshotAsync :
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override CreateSnapshotAsync :
    cancellationToken:CancellationToken ->

VB  

<DoesServiceRequestAttribute>
Public Overridable Function CreateSnapshotAsync(
    cancellationToken As CancellationToken) As Task(Of CloudBlockBlob)
See Also

CreateSnapshotAsync_Overload
CloudBlobBlob Class

Return to top
CloudBlockBlob:::CreateSnapshotAsync Method
(IDictionary<String, String>, AccessCondition,
BlobRequestOptions, OperationContext)(IDictionary<String^, String^>, AccessCondition^, BlobRequestOptions^,
OperationContext^)(IDictionary<String, String>,
AccessCondition, BlobRequestOptions, OperationContext)
(IDictionary(Of String, String), AccessCondition,
BlobRequestOptions, OperationContext)
See Also
Initiates an asynchronous operation to create a snapshot of the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<CloudBlockBlob> CreateSnapshotAsync(
    IDictionary<string, string> metadata,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<CloudBlockBlob^> CreateSnapshotAsync(
    IDictionary<String^, String^> metadata,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract CreateSnapshotAsync :
    metadata:IDictionary<string, string> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<CloudBlockBlob>

[<DoesServiceRequestAttribute>]
override CreateSnapshotAsync :
    metadata:IDictionary<string, string> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<CloudBlockBlob>
```
See Also

CreateSnapshotAsync_Overload
CloudBlockBlob Class

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CloudBlockBlob.

See Also
Initiates an asynchronous operation to create a snapshot of the blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task<CloudBlockBlob> CreateSnapshotAsync(
    IDictionary<string, string> metadata,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<CloudBlockBlob^>^ CreateSnapshotAsync(
    IDictionary<String^, String^>^ metadata,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken^ cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract CreateSnapshotAsync : 
    metadata:IDictionary<string, string> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken *
See Also

CreateSnapshotAsync_Overload
CloudBlockBlob Class

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</table>
Initiates an asynchronous operation to return an enumerable collection of the blob's blocks, using the specified block list filter.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task<IEnumerable<ListBlockItem>> DownloadBlockListAsync()

C++  

public:
[DoesServiceRequestAttribute]
virtual Task<IEnumerable<ListBlockItem^>^> DownloadBlockListAsync()^>

F#  

[<DoesServiceRequestAttribute>]  
abstract DownloadBlockListAsync : unit -> Task<
[<DoesServiceRequestAttribute>]  
override DownloadBlockListAsync : unit -> Task<

VB  

<DoesServiceRequestAttribute>  
Public Overridable Function DownloadBlockListAsync

Return Value

Type:
See Also

DownloadBlockListAsync Overload
CloudBlockBlob Class

Return to top
CloudBlockBlob::DownloadBlockListAsync Method (BlockListingFilter, AccessCondition, BlobRequestOptions, OperationContext)(BlockListingFilter, AccessCondition^, BlobRequestOptions^, OperationContext^)(BlockListingFilter, AccessCondition, BlobRequestOptions, OperationContext)(BlockListingFilter, AccessCondition, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to return an enumerable collection of the blob's blocks, using the specified block list filter.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<IEnumerable<ListBlockItem>> DownloadBlockListAsync(
    BlockListingFilter blockListingFilter,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<IEnumerable<ListBlockItem^>^> DownloadBlockListAsync(
    BlockListingFilter blockListingFilter,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadBlockListAsync :
    blockListingFilter:BlockListingFilter
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<IEnumerable<ListBlockItem>>

[<DoesServiceRequestAttribute>]
override DownloadBlockListAsync :
    blockListingFilter:BlockListingFilter
```
See Also

DownloadBlockListAsync Overload
CloudBlockBlob Class

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CloudBlockBlob:::DownloadBlockListAsync Method
(BlockListingFilter, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(BlockListingFilter, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)(BlockListingFilter, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(BlockListingFilter, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to return an enumerable collection of the blob's blocks, using the specified block list filter.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task<IEnumerable<ListBlockItem>>
    DownloadBlockListAsync(
        BlockListingFilter blockListingFilter,
        AccessCondition accessCondition,
        BlobRequestOptions options,
        OperationContext operationContext,
        CancellationToken cancellationToken
    )
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<IEnumerable<ListBlockItem^>^>
    DownloadBlockListAsync(
        BlockListingFilter blockListingFilter,
        AccessCondition^ accessCondition,
        BlobRequestOptions^ options,
        OperationContext^ operationContext,
        CancellationToken cancellationToken
    )
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadBlockListAsync :
    blockListingFilter:BlockListingFilter
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken
```
See Also

DownloadBlockListAsync_ Overload
CloudBlockBlob Class

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**See Also**
Initiates an asynchronous operation to return an enumerable collection of the blob's blocks, using the specified block list filter.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<IEnumerable<ListBlockItem>>
    DownloadBlockListAsync(
        CancellationToken cancellationToken
    )
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<IEnumerable<ListBlockItem^>>^ DownloadBlockListAsync(
        CancellationToken cancellationToken
    )
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadBlockListAsync :
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override DownloadBlockListAsync :
    cancellationToken:CancellationToken ->
```

VB  

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function DownloadBlockListAsync(
    cancellationToken As CancellationToken
) As Task(Of IEnumerable(Of ListBlockItem))
```
See Also

DownloadBlockListAsync Overload
CloudBlockBlob Class

Return to top
See Also
Initiates an asynchronous operation to download the blob's contents as a string.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://aka.ms/azure-storage-dotnet-sdk)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

### C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task<string> DownloadTextAsync()
```

### C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ DownloadTextAsync()
```

### F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadTextAsync : unit -> Task<string>
[<DoesServiceRequestAttribute>]
override DownloadTextAsync : unit -> Task<string>
```

### VB

```vb
<DoesServiceRequestAttribute>
Public Overridable Function DownloadTextAsync
```

**Return Value**

Type:

```csharp
System.Threading.Tasks.Task<string>
```

A `Task<string>` object of type `string` that represents the asynchronous operation.
See Also

DownloadTextAsync_ Overload
CloudBlockBlob Class

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</table>

See Also
Initiates an asynchronous operation to download the blob's contents as a string.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<string> DownloadTextAsync(
    CancellationToken cancellationToken
)

C++
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ DownloadTextAsync(
    CancellationToken cancellationToken
)

F#
[<DoesServiceRequestAttribute>]
abstract DownloadTextAsync :
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override DownloadTextAsync :
    cancellationToken:CancellationToken ->

VB
<DoesServiceRequestAttribute>
Public Overridable Function DownloadTextAsync(
    cancellationToken As CancellationToken
) As Task(Of String)
See Also

DownloadTextAsync Overload
CloudBlockBlob Class

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CloudBlockBlob::DownloadTextAsync Method
(Encoding, AccessCondition, BlobRequestOptions, OperationContext)
(Encoding^, AccessCondition^, BlobRequestOptions^, OperationContext^)
(Encoding, AccessCondition, BlobRequestOptions, OperationContext)
See Also
Initiates an asynchronous operation to download the blob's contents as a string.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<string> DownloadTextAsync(
    Encoding encoding,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task<String^> DownloadTextAsync(
    Encoding^ encoding,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#  
[<DoesServiceRequestAttribute>]
abstract DownloadTextAsync :
    encoding:Encoding *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<string>

[<DoesServiceRequestAttribute>]
override DownloadTextAsync :
    encoding:Encoding *
See Also

DownloadTextAsync Overload
CloudBlockBlob Class

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CloudBlockBlob.::..DownloadTextAsync Method C# C++ F# VB
(Encoding, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(Encoding^, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)(Encoding, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(Encoding, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to download the blob's contents as a string.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[.DoesServiceRequestAttribute]
public virtual Task<string> DownloadTextAsync(
    Encoding encoding,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ DownloadTextAsync(
    Encoding^ encoding,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadTextAsync :
    encoding:Encoding *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken * 
```
See Also

DownloadTextAsync Overload
CloudBlockBlob Class

Return to top
CloudBlockBlob::..EndCreateSnapshot Method (IAasyncResult)(IAasyncResult^)(IAasyncResult)
See Also
Ends an asynchronous operation to create a snapshot of the blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/MicrosoftDocs/azure-docs)

Syntax

C#  
```csharp
public virtual CloudBlockBlob EndCreateSnapshot(IAsyncResult asyncResult)
```

C++  
```cpp
public:
virtual CloudBlockBlob^ EndCreateSnapshot(IAsyncResult^ asyncResult)
```

F#  
```fsharp
abstract EndCreateSnapshot : asyncResult:IAsyncResult -> CloudBlockBlob
override EndCreateSnapshot : asyncResult:IAsyncResult -> CloudBlockBlob
```

VB  
```vbnet
Public Overridable Function EndCreateSnapshot( asyncResult As IAsyncResult ) As CloudBlockBlob
```

Parameters

`asyncResult`  
Type:  
```csharp
System.IAsyncResult
```
See Also

CloudBlockBlob Class

Return to top
Ends an asynchronous operation to return an enumerable collection of the blob's blocks, using the specified block list filter.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
public virtual IEnumerable<ListBlockItem> EndDownloadBlockList(IAsyncResult asyncResult)
```

**C++**

```cpp
public:
virtual IEnumerable<ListBlockItem^>^ EndDownloadBlockList(IAsyncResult^ asyncResult)
```

**F#**

```fsharp
abstract EndDownloadBlockList : asyncResult:IAsyncResult -> IEnumerable<ListBlockItem>

override EndDownloadBlockList : asyncResult:IAsyncResult -> IEnumerable<ListBlockItem>
```

**VB**

```vb
Public Overridable Function EndDownloadBlockList(
    asyncResult As IAsyncResult
) As IEnumerable(Of ListBlockItem)
```

### Parameters

`asyncResult`

Type: `System.IAsyncResult` or `System::IAsyncResult^`
See Also

CloudBlockBlob Class

Return to top
CloudBlobBlob..::..EndDownloadText Method (IAsyncResult)(IAsyncResult^)(IAsyncResult)(IAsyncResult)
See Also
Ends an asynchronous operation to download the blob's contents as a string.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public virtual string EndDownloadText(
    IAsyncResult asyncResult
)
```

C++  

```cpp
public:
    virtual String^ EndDownloadText(
        IAsyncResult^ asyncResult
    )
```

F#  

```fsharp
abstract EndDownloadText :
    asyncResult:IAsyncResult -> string
override EndDownloadText :
    asyncResult:IAsyncResult -> string
```

VB  

```vb
Public Overridable Function EndDownloadText (  
    asyncResult As IAsyncResult
) As String
```

Parameters  

```asyncResult```

Type:  

```System.IAsyncResult```

See Also

CloudBlockBlob Class

Return to top
CloudBlockBlob:::EndOpenWrite Method
(IAasyncResult)(IAasyncResult^)(IAasyncResult)
(IAasyncResult)

See Also
Ends an asynchronous operation to open a stream for writing to the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public virtual CloudBlobStream EndOpenWrite(IAAsyncResult asyncResult)
```

C++

```cpp
public:
  virtual CloudBlobStream^ EndOpenWrite(IAAsyncResult^ asyncResult)
```

F#

```fsharp
abstract EndOpenWrite : asyncResult:IAasyncResult -> CloudBlobStream
override EndOpenWrite :
  asyncResult:IAasyncResult -> CloudBlobStream
```

VB

```vbnet
Public Overridable Function EndOpenWrite (asyncResult As IAsyncResult) As CloudBlobStream
```

Parameters

`asyncResult`

Type:

- `System.IAsyncResult`
See Also

CloudBlockBlob Class

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</table>
Ends an asynchronous operation to upload a single block.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://msdn.microsoft.com/en-us/library/7w6fey8w.aspx)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public virtual void EndPutBlock(  
    IAsyncResult asyncResult
)
```

C++  
```cpp
public:
virtual void EndPutBlock(  
    IAsyncResult^ asyncResult
)
```

F#  
```fsharp
abstract EndPutBlock :  
    asyncResult:IAsyncResult -> unit
override EndPutBlock :  
    asyncResult:IAsyncResult^ -> unit
```

VB  
```vb
Public Overridable Sub EndPutBlock (  
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`  
Type: 
`System.IAsyncResultSystem::IAsyncResult^System.IAsyncResultSystem::IAsyncResult`
See Also

CloudBlockBlob Class

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See Also
Ends an asynchronous operation to upload a list of blocks to a new or existing blob.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public virtual void EndPutBlockList(
    IAsyncResult asyncResult
)
```

C++

```cpp
public:
    virtual void EndPutBlockList(
        IAsyncResult^ asyncResult
    )
```

F#

```fsharp
abstract EndPutBlockList :
    asyncResult:IAsyncResult -> unit
override EndPutBlockList :
    asyncResult:IAsyncResult -> unit
```

VB

```vb
Public Overridable Sub EndPutBlockList ( 
    asyncResult As IAsyncResult
)
```

Parameters

- `asyncResult`:
  Type: `System.IAsyncResult`
See Also

CloudBlockBlob Class

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See Also
Ends an asynchronous operation to upload the contents of a byte array to a blob.

Syntax

C#  

```csharp
public virtual void EndUploadFromByteArray(
    IAsyncResult asyncResult
)
```

C++

```cpp
public:
virtual void EndUploadFromByteArray(
    IAsyncResult^ asyncResult
)
```

F#

```fsharp
abstract EndUploadFromByteArray :
    asyncResult:IAsyncResult -> unit
override EndUploadFromByteArray :
    asyncResult:IAsyncResult -> unit
```

VB

```vb
Public Overridable Sub EndUploadFromByteArray(
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`

Type:

```csharp
System.IAsyncResult
System::IAsyncResult
System.IAsyncResult
```
See Also

CloudBlockBlob Class

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See Also
Ends an asynchronous operation to upload a file to a blob.

Syntax

C#

```csharp
public virtual void EndUploadFromFile(IAsyncResult asyncResult)
```

C++

```cpp
public:
virtual void EndUploadFromFile(IAsyncResult^ asyncResult)
```

F#

```fsharp
abstract EndUploadFromFile : asyncResult:IAsyncResult -> unit
override EndUploadFromFile : asyncResult:IAsyncResult -> unit
```

VB

```vbnet
Public Overridable Sub EndUploadFromFile (asyncResult As IAsyncResult)
```

Parameters

`asyncResult` Type: `System.IAsyncResult`
See Also

CloudBlockBlob Class

Return to top
CloudBlockBlob:::EndUploadFromStream Method

C#  C++  F#  VB
(IAsyncResult)(IAasyncResult^)(IAsyncResult)
(IAasyncResult)

See Also
Ends an asynchronous operation to upload a stream to a block blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public virtual void EndUploadFromStream(
    IAsyncResult asyncResult
)
```

C++  

```cpp
public:
    virtual void EndUploadFromStream(
    IAsyncResult^ asyncResult
)
```

F#  

```fsharp
abstract EndUploadFromStream :
    asyncResult:IAsyncResult -> unit

override EndUploadFromStream :
    asyncResult:IAsyncResult -> unit
```

VB  

```vb
Public Overridable Sub EndUploadFromStream ( 
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`

Type:  

```csharp
System.IAsyncResult
```

```cpp
System::IAsyncResult
```

```fsharp
System.IAsyncResult
```

```vb
System.IAsyncResult
```
See Also

CloudBlockBlob Class

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</table>

See Also
Ends an asynchronous operation to upload a string of text to a blob.

Syntax

C#  

```csharp
public virtual void EndUploadText(
    IAsyncResult asyncResult
)
```

C++  

```cpp
public:
    virtual void EndUploadText(
        IAsyncResult^ asyncResult
    )
```

F#  

```fsharp
abstract EndUploadText :
    asyncResult:IAsyncResult -> unit

override EndUploadText :
    asyncResult:IAsyncResult -> unit
```

VB  

```vb
Public Overridable Sub EndUploadText (  
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`

Type:

```csharp
System.IAsyncResult  
```

```cpp
System::IAsyncResult
```

```fsharp
System.IAsyncResult
```

```vb
System.IAsyncResult
```
See Also

CloudBlockBlob Class

Return to top
CloudBlockBlob::OpenWriteAsync Method (0000) C# C++ F# VB

See Also
Initiates an asynchronous operation to open a stream for writing to the blob.


Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<CloudBlobStream> OpenWriteAsync()

C++  
public:
[DoesServiceRequestAttribute]
virtual Task<CloudBlobStream^>^ OpenWriteAsync(

F#  
[<DoesServiceRequestAttribute>]
abstract OpenWriteAsync : unit -> Task<CloudBlobStream>
[<DoesServiceRequestAttribute>]
override OpenWriteAsync : unit -> Task<CloudBlobStream>

VB  
<DoesServiceRequestAttribute>
Public Overridable Function OpenWriteAsync As Task(

Return Value

Type:
Remarks

Note that this method always makes a call to the Referenced topic '37ab2b1e467-4a62-9df1-c4543f29acfb' is not in the TOC, method under the covers.

Set the StreamWriteSizeInBytes property before calling this method to specify the block size to write, in bytes, ranging from between 16 KB and 4 MB inclusive.
See Also

OpenWriteAsync_Overload
CloudBlockBlob Class

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See Also
Initiates an asynchronous operation to open a stream for writing to the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<CloudBlobStream> OpenWriteAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
   .OperationContext operationContext
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<CloudBlobStream^>^ OpenWriteAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract OpenWriteAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> T

[<DoesServiceRequestAttribute>]
override OpenWriteAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> T
```
Remarks

Note that this method always makes a call to the Referenced topic '37ab2be467-4a62-9df1-c4543f29acfb' is not in the TOC, method under the covers.

Set the \texttt{StreamWriteSizeInBytes} property before calling this method to specify the block size to write, in bytes, ranging from between 16 KB and 4 MB inclusive.
See Also

OpenWriteAsync Overload
CloudBlockBlob Class

Return to top
OpenWriteAsync Method

See Also
Initiates an asynchronous operation to open a stream for writing to the blob.


Syntax

C#       Copy Code

[DoesServiceRequestAttribute]
public virtual Task<CloudBlobStream> OpenWriteAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++       Copy Code

public:
[DoesServiceRequestAttribute]
virtual Task<CloudBlobStream^>^ OpenWriteAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#       Copy Code

[<DoesServiceRequestAttribute>]
abstract OpenWriteAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override OpenWriteAsync :
    accessCondition:AccessCondition *
Remarks

Note that this method always makes a call to the Referenced topic '37ab2b1e467-4a62-9df1-c4543f29acfb' is not in the TOC. method under the covers.

Set the `StreamWriteSizeInBytes` property before calling this method to specify the block size to write, in bytes, ranging from between 16 KB and 4 MB inclusive.
See Also

OpenWriteAsync Overload
CloudBlockBlob Class

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CloudBlockBlob.:..OpenWriteAsync Method
(CancellationToken)(CancellationToken)
(CancellationToken)(CancellationToken)
See Also
Initiates an asynchronous operation to open a stream for writing to the blob.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task<CloudBlobStream> OpenWriteAsync(
    CancellationToken cancellationToken
)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task<CloudBlobStream^>^ OpenWriteAsync(
    CancellationToken cancellationToken
)

F#  

[<DoesServiceRequestAttribute>]
abstract OpenWriteAsync :
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override OpenWriteAsync :
    cancellationToken:CancellationToken ->

VB  

<DoesServiceRequestAttribute>
Public Overridable Function OpenWriteAsync (    cancellationToken As CancellationToken
) As Task(Of CloudBlobStream)
Remarks

Note that this method always makes a call to the Referenced topic '37ab2b1 e467-4a62-9df1-c4543f29acfb' is not in the TOC, method under the covers.

Set the StreamWriteSizeInBytes property before calling this method to specify the block size to write, in bytes ranging from between 16 KB and 4 MB inclusive.
See Also

OpenWriteAsync_Overload
CloudBlockBlob Class

Return to top
**CloudBlockBlob:::PutBlockAsync Method (String, Stream, String)**

See Also
Initiates an asynchronous operation to upload a single block.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task PutBlockAsync(
    string blockId,
    Stream blockData,
    string contentMD5
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ PutBlockAsync(
    String^ blockId,
    Stream^ blockData,
    String^ contentMD5
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract PutBlockAsync :
    blockId:string  *
    blockData:Stream  *
    contentMD5:string  ->  Task

[<DoesServiceRequestAttribute>]
override PutBlockAsync :
    blockId:string  *
    blockData:Stream  *
    contentMD5:string  ->  Task
```
Remarks

Clients may send the Content-MD5 header for a given Put Block operation as a means to ensure transactional integrity over the wire. The contentMD5 parameter permits clients who already have access to a pre-computed MD5 value for a given byte range to provide it. If the P:BlobRequestOptions.UseTransactionalMd5 property is true and the contentMD5 parameter is set to null, then the client library will calculate the MD5 value internally.
See Also

PutBlockAsync_Overload
CloudBlockBlob Class

Return to top

See Also
Initiates an asynchronous operation to upload a single block.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```
[DoesServiceRequestAttribute]
public virtual Task PutBlockAsync(
    string blockId,
    Stream blockData,
    string contentMD5,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++

```
public:
[DoesServiceRequestAttribute]
virtual Task^ PutBlockAsync(
    String^ blockId,
    Stream^ blockData,
    String^ contentMD5,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#

```
[<DoesServiceRequestAttribute>]
abstract PutBlockAsync :
    blockId:string *
    blockData:Stream *
    contentMD5:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
```
Remarks

Clients may send the Content-MD5 header for a given Put Block operation as a means to ensure transactional integrity over the wire. The contentMD5 parameter permits clients who already have access to a pre-computed MD5 value for a given byte range to provide it. If the P:BlobRequestOptions.UseTransactionalMd5 Referenced topic's target id should not be empty. Article id: 151a595a-d6ea-42b1-9a19-bf00fa62cff2, link: P:BlobRequestOptions.UseTransactionalMd5, property is set to true and the contentMD5 parameter is set to null, then the client library will calculate the MD5 value internally.
See Also

PutBlockAsync_Overload
CloudBlockBlob Class

Return to top
CloudBlockBlob:::PutBlockAsync Method (String, Stream, String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(String^, Stream^, String^, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)
(String, Stream, String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(String, Stream, String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to upload a single block.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task PutBlockAsync(
    string blockId,
    Stream blockData,
    string contentMD5,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ PutBlockAsync(
    String^ blockId,
    Stream^ blockData,
    String^ contentMD5,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract PutBlockAsync :
    blockId:string	*
    blockData:Stream	*
    contentMD5:string	*
    accessCondition:AccessCondition	*
    options:BlobRequestOptions	*
    operationContext:OperationContext	*
    cancellationToken:CancellationToken	*
```
Remarks

Clients may send the Content-MD5 header for a given Put Block operation as a means to ensure transactional integrity over the wire. The contentMD5 parameter permits clients who already have access to a pre-computed MD5 value for a given byte range to provide it. If the `P:BlobRequestOptions.UseTransactionalMd5Referenced topic's target id should not be empty. Article id: d19b47f7-1a85-4e4d-92e7-f3d9e20ff88d, link: P:BlobRequestOptions.UseTransactionalMd5`, property is set to `true` and the contentMD5 parameter is set to `null`, then the client library will calculate the MD5 value internally.
See Also

PutBlockAsync Overload
CloudBlockBlob Class

Return to top
CloudBlockBlob::PutBlockAsync Method (String, Stream, String, CancellationToken)

See Also
Initiates an asynchronous operation to upload a single block.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task PutBlockAsync(
    string blockId,
    Stream blockData,
    string contentMD5,
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ PutBlockAsync(
    String^ blockId,
    Stream^ blockData,
    String^ contentMD5,
    CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract PutBlockAsync :
    blockId:string *
    blockData:Stream *
    contentMD5:string *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override PutBlockAsync :
    blockId:string *
Remarks

Clients may send the Content-MD5 header for a given Put Block operation as a means to ensure transactional integrity over the wire. The contentMD5 parameter permits clients who already have access to a pre-computed MD5 value for a given byte range to provide it. If the `P:BlobRequestOptions.UseTransactionalMd5` property is set to `true` and the contentMD5 parameter is set to `null`, then the client library will calculate the MD5 value internally.
See Also

PutBlockAsync Overload
CloudBlockBlob Class

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See Also
Initiates an asynchronous operation to upload a list of blocks to a new or existing blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task PutBlockListAsync(
    IEnumerable<string> blockList
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ PutBlockListAsync(
    IEnumerable<String^>^ blockList
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract PutBlockListAsync :
    blockList:IEnumerable<string> -> Task
[<DoesServiceRequestAttribute>]
override PutBlockListAsync :
    blockList:IEnumerable<string> -> Task
```

VB  

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function PutBlockListAsync(
    blockList As IEnumerable(Of String)
) As Task
```
See Also

PutBlockListAsync Overload
CloudBlockBlob Class

Return to top
CloudBlockBlob.PutBlockListAsync Method (IEnumerable<String>, AccessCondition, BlobRequestOptions, OperationContext)
(IEnumerable<String^>, AccessCondition^, BlobRequestOptions^, OperationContext^)
(IEnumerable<String>, AccessCondition, BlobRequestOptions, OperationContext)(IEnumerable(Of String), AccessCondition, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to upload a list of blocks to a new or existing blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]

public virtual Task PutBlockListAsync(
    IEnumerable<string> blockList,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++  

public:  

[DoesServiceRequestAttribute]

virtual Task^ PutBlockListAsync(
    IEnumerable<String^>^ blockList,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#  

[<DoesServiceRequestAttribute>]

abstract PutBlockListAsync :
    blockList:IEmployee<string> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> T

[<DoesServiceRequestAttribute>]

override PutBlockListAsync :
    blockList:IEmployee<string> *
See Also

PutBlockListAsync Overload
CloudBlockBlob Class

Return to top
CloudBlockBlob:::PutBlockListAsync Method

(IE enumerable<String>, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(IE enumerable<String^>, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)
(IE enumerable<String>, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(IE enumerable(Of String), AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to upload a list of blocks to a new or existing blob.

Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task PutBlockListAsync(
    IEnumerable<string> blockList,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++

```c++
[DoesServiceRequestAttribute]
virtual Task^ PutBlockListAsync(
    IEnumerable<String^>^ blockList,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract PutBlockListAsync :
    blockList:IEnumerable<string> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken
```
See Also

PutBlockListAsync Overload
CloudBlockBlob Class

Return to top
CloudBlockBlob.:::PutBlockListAsync Method
((IEnumerable<String>, CancellationToken)
(IEnumerable<String^>, CancellationToken)
(IEnumerable<String>, CancellationToken)(IEnumerable(Of String), CancellationToken)

See Also
Initiates an asynchronous operation to upload a list of blocks to a new or existing blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#
[DoesServiceRequestAttribute]
public virtual Task PutBlockListAsync(
    IEnumerable<string> blockList,
    CancellationToken cancellationToken
)

C++
public:
[DoesServiceRequestAttribute]
virtual Task^ PutBlockListAsync(
    IEnumerable<String^>^ blockList,
    CancellationToken cancellationToken
)

F#
[<DoesServiceRequestAttribute>]
abstract PutBlockListAsync :
    blockList:IEnumerable<string> *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override PutBlockListAsync :
    blockList:IEnumerable<string> *
    cancellationToken:CancellationToken ->

VB
<DoesServiceRequestAttribute>
Public Overridable Function PutBlockListAsync
    blockList As IEnumerable(Of String),
    cancellationToken As CancellationToken
As Task
See Also

PutBlockListAsync Overload
CloudBlockBlob Class

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</table>

See Also
Initiates an asynchronous operation to start copying another block blob's contents, properties, and metadata to this block blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task<
        string>
StartCopyAsync(
        CloudBlockBlob source
    )

C++

public:
[DoesServiceRequestAttribute]
virtual Task<String^>
StartCopyAsync(
        CloudBlockBlob^ source
    )

F#

[<DoesServiceRequestAttribute>]
abstract StartCopyAsync :
        source:CloudBlockBlob -> Task<string>
[<DoesServiceRequestAttribute>]
override StartCopyAsync :
        source:CloudBlockBlob -> Task<string>

VB

<DoesServiceRequestAttribute>
Public Overridable Function StartCopyAsync (source As CloudBlockBlob)
    As Task(Of String)
See Also

StartCopyAsync_Overload
CloudBlockBlob Class

Return to top
CloudBlobBlob..::.StartCopyAsync Method
(CloudBlobBlob, AccessCondition, AccessCondition, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to start copying another block blob's contents, properties, and metadata to this block blob.

Syntax

C#  

```csharp
[DllImport("does-service-request", SetLastError = true), ProcessorArchitecture(ProcessorArchitecture.X86)]
public virtual Task<string> StartCopyAsync(
    CloudBlockBlob source,
    AccessCondition sourceAccessCondition,  
    AccessCondition destAccessCondition,     
    BlobRequestOptions options,             
    OperationContext operationContext
);
```

C++  

```cpp
public:

[[DoesServiceRequestAttribute]]
virtual Task<String^>^ StartCopyAsync(
    CloudBlockBlob^ source,  
    AccessCondition^ sourceAccessCondition,  
    AccessCondition^ destAccessCondition,  
    BlobRequestOptions^ options,  
    OperationContext^ operationContext
);
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract StartCopyAsync : 
    source:CloudBlockBlob *  
    sourceAccessCondition:AccessCondition *  
    destAccessCondition:AccessCondition *  
    options:BlobRequestOptions *  
    operationContext:OperationContext -> 
    Task<string>
[<DoesServiceRequestAttribute>]
override StartCopyAsync : 
    source:CloudBlockBlob *  
    sourceAccessCondition:AccessCondition *  
    destAccessCondition:AccessCondition *  
    options:BlobRequestOptions *  
    operationContext:OperationContext -> 
    Task<string>
```
See Also

StartCopyAsync_Overload
CloudBlockBlob Class

Return to top
CloudBlockBlob:::StartCopyAsync Method


See Also
Initiates an asynchronous operation to start copying another block blob's contents, properties, and metadata to this block blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    CloudBlockBlob source,
    AccessCondition sourceAccessCondition,
    AccessCondition destAccessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ StartCopyAsync(
    CloudBlockBlob^ source,
    AccessCondition^ sourceAccessCondition,
    AccessCondition^ destAccessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract StartCopyAsync :
    source:CloudBlockBlob *
    sourceAccessCondition:AccessCondition
    destAccessCondition:AccessCondition *
    cancellationToken:CancellationToken -> Task<string>
```
See Also

StartCopyAsync_Overload
CloudBlockBlob Class

Return to top
CloudBlockBlob:::StartCopyAsync Method
(CloudBlockBlob, CancellationToken)
(CloudBlockBlob^, CancellationToken)(CloudBlockBlob, CancellationToken)(CloudBlockBlob, CancellationToken)
See Also
Initiates an asynchronous operation to start copying another block blob's contents, properties, and metadata to this block blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    CloudBlockBlob source,
    CancellationToken cancellationToken)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ StartCopyAsync(
    CloudBlockBlob^ source,
    CancellationToken cancellationToken)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract StartCopyAsync :
    source:CloudBlockBlob *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override StartCopyAsync :
    source:CloudBlockBlob *
    cancellationToken:CancellationToken ->
```

VB  

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function StartCopyAsync (  
```
See Also

StartCopyAsync_Overload
CloudBlockBlob Class

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</table>

**See Also**
Initiates an asynchronous operation to start copying a file's contents, properties, and metadata to this block blob.

**Namespace:**  

**Assembly:**  
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    CloudFile source
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ StartCopyAsync(
    CloudFile^ source
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract StartCopyAsync :
    source:CloudFile -> Task<string>
[<DoesServiceRequestAttribute>]
override StartCopyAsync :
    source:CloudFile -> Task<string>
```

VB  

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function StartCopyAsync (  
    source As CloudFile
) As Task(Of String)
```
See Also

StartCopyAsync_Overload
CloudBlockBlob Class

Return to top
CloudBlockBlob:::StartCopyAsync Method
(CloudFile, AccessCondition, AccessCondition,
BlobRequestOptions, OperationContext)(CloudFile^,
AccessCondition^, AccessCondition^, BlobRequestOptions^,
OperationContext^)(CloudFile, AccessCondition,
AccessCondition, BlobRequestOptions, OperationContext)
(CloudFile, AccessCondition, AccessCondition,
BlobRequestOptions, OperationContext)
See Also
Initiates an asynchronous operation to start copying a file's contents, properties, and metadata to this block blob.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    CloudFile source,
    AccessCondition sourceAccessCondition,
    AccessCondition destAccessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ StartCopyAsync(
    CloudFile^ source,
    AccessCondition^ sourceAccessCondition,
    AccessCondition^ destAccessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#

[<DoesServiceRequestAttribute>]
abstract StartCopyAsync :
    source:CloudFile *
    sourceAccessCondition:AccessCondition
    destAccessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<string>
See Also

StartCopyAsync_Overload
CloudBlockBlob Class

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CloudBlockBlob:::StartCopyAsync Method
(CloudFile, AccessCondition, AccessCondition,
BlobRequestOptions, OperationContext, CancellationToken)
(CloudFile^, AccessCondition^, AccessCondition^,
BlobRequestOptions^, OperationContext^, CancellationToken)
(CloudFile, AccessCondition, AccessCondition,
BlobRequestOptions, OperationContext, CancellationToken)
(CloudFile, AccessCondition, AccessCondition,
BlobRequestOptions, OperationContext, CancellationToken)
See Also
Initiates an asynchronous operation to start copying a file's contents, properties, and metadata to this block blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DllImport("service honoring.dll")]
[DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    CloudFile source,
    AccessCondition sourceAccessCondition,
    AccessCondition destAccessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++  

public:
[DllImport("service honoring.dll")]
[DoesServiceRequestAttribute]
virtual Task<String^>^ StartCopyAsync(
    CloudFile^ source,
    AccessCondition^ sourceAccessCondition,
    AccessCondition^ destAccessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#  

[<DoesServiceRequestAttribute>]
abstract StartCopyAsync : 
    source:CloudFile *
    sourceAccessCondition:AccessCondition
    destAccessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken *
See Also

StartCopyAsync_Overload
CloudBlockBlob Class

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CloudBlockBlob..::..StartCopyAsync Method

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See Also
Initiates an asynchronous operation to start copying a file's contents, properties, and metadata to this block blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://microsoft.windowsazure.storage.blob)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```
[DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    CloudFile source,
    CancellationToken cancellationToken
)
```

C++

```
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ StartCopyAsync(
    CloudFile^ source,
    CancellationToken cancellationToken
)
```

F#

```
[<DoesServiceRequestAttribute>]
abstract StartCopyAsync :
    source:CloudFile *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override StartCopyAsync :
    source:CloudFile *
    cancellationToken:CancellationToken ->
```

VB

```
<DoesServiceRequestAttribute>
Public Overridable Function StartCopyAsync ()
```
See Also

StartCopyAsync_Overload
CloudBlockBlob Class

Return to top
CloudBlockBlob::..UploadFromByteArrayAsync
Method (Byte[], Int32, Int32)(array<Byte>^,
Int32, Int32)(Byte[], Int32, Int32)(Byte(), Int32, Int32)
See Also
Initiates an asynchronous operation to upload the contents of a byte array to a blob.

**Namespace:** [Microsoft.WindowsAzure.Storage.Blob](https://go.microsoft.com/fwlink/?LinkID=158204)

**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task UploadFromByteArrayAsync(
    byte[] buffer,
    int index,
    int count
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromByteArrayAsync(
    array<unsigned char>^ buffer,
    int index,
    int count
)

F#

[<DoesServiceRequestAttribute>]
abstract UploadFromByteArrayAsync :
    buffer:byte[] *
    index:int *
    count:int -> Task

[<DoesServiceRequestAttribute>]
override UploadFromByteArrayAsync :
    buffer:byte[] *
    index:int *
    count:int -> Task
See Also

UploadFromByteArrayAsync_Overload
CloudBlobBlob Class

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See Also
Initiates an asynchronous operation to upload the contents of a byte array to a blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadFromByteArrayAsync(
    byte[] buffer,
    int index,
    int count,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<upload char> UploadFromByteArrayAsync(
    array<unsigned char> buffer,
    int index,
    int count,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadFromByteArrayAsync :
    buffer:byte[] *
    index:int *
    count:int *
See Also

UploadFromByteArrayAsync_Overload
CloudBlockBlob Class

Return to top
CloudBlockBlob::UploadFromByteArrayAsync Method (Byte[], Int32, Int32, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(array<Byte>^, Int32, Int32, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken^)
(Byte[], Int32, Int32, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(Byte(), Int32, Int32, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to upload the contents of a byte array to a blob.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadFromByteArrayAsync(
    byte[] buffer,
    int index,
    int count,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromByteArrayAsync(
    array<unsigned char>^ buffer,
    int index,
    int count,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadFromByteArrayAsync : 
    buffer:byte[] * 
```
See Also

UploadFromByteArrayAsync_Overload
CloudBlockBlob Class

Return to top
CloudBlockBlob::..UploadFromByteArrayAsync C# C++ F# VB
Method (Byte[], Int32, Int32, CancellationToken)
See Also
Initiates an asynchronous operation to upload the contents of a byte array to a blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task UploadFromByteArrayAsync(
    byte[] buffer,
    int index,
    int count,
    CancellationToken cancellationToken
)

C++
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromByteArrayAsync(
    array<unsigned char>^ buffer,
    int index,
    int count,
    CancellationToken cancellationToken
)

F#  
[<DoesServiceRequestAttribute>]
abstract UploadFromByteArrayAsync : buffer:byte[] *
   index:int *
   count:int *
   cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override UploadFromByteArrayAsync : buffer:byte[] *
See Also

UploadFromByteArrayAsync_Overload
CloudBlockBlob Class

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CloudBlockBlob::.:UploadFromFileAsync Method
(String)(String^)(String)(String)

See Also
Initiates an asynchronous operation to upload a file to a blob. If the blob already exists, it will be overwritten.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task UploadFromFileAsync(
    string path
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromFileAsync(
    String^ path
)

F#

[<DoesServiceRequestAttribute>]
abstract UploadFromFileAsync : path:string -> Task
[<DoesServiceRequestAttribute>]
override UploadFromFileAsync : path:string -> Task

VB

<DoesServiceRequestAttribute>
Public Overridable Function UploadFromFileAsync (path As String)
) As Task
See Also

UploadFromFileAsync Overload
CloudBlockBlob Class

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See Also
Initiates an asynchronous operation to upload a file to a blob. If the blob already exists, it will be overwritten.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadFromFileAsync(
    string path,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromFileAsync(
    String^ path,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadFromFileAsync :
    path:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task

[<DoesServiceRequestAttribute>]
override UploadFromFileAsync :
    path:string *
See Also

UploadFromFileAsync Overload
CloudBlobBlob Class

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CloudBlockBlob:::UploadFromFileAsync Method

(C#)(C++)(F#)(VB)

CloudBlockBlob:::UploadFromFileAsync Method

See Also
Initiates an asynchronous operation to upload a file to a blob. If the blob already exists, it will be overwritten.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task UploadFromFileAsync(
    string path,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromFileAsync(
    String^ path,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract UploadFromFileAsync :
    path:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken *
See Also

UploadFromFileAsync Overload
CloudBlockBlob Class

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CloudBlockBlob:::UploadFromFileAsync Method

See Also
Initiates an asynchronous operation to upload a file to a blob. If the blob already exists, it will be overwritten.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task UploadFromFileAsync(
    string path,
    CancellationToken cancellationToken
)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task UploadFromFileAsync(
    String^ path,
    CancellationToken cancellationToken
)

F#  

[<DoesServiceRequestAttribute>]
abstract UploadFromFileAsync :
    path:string *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override UploadFromFileAsync :
    path:string *
    cancellationToken:CancellationToken ->

VB  

<DoesServiceRequestAttribute>
Public Overridable Function UploadFromFileAsync(
See Also

UploadFromFileAsync_Overload
CloudBlockBlob Class

Return to top
CloudBlockBlob:::UploadFromStreamAsync Method (Stream)(Stream^)(Stream)(Stream)

See Also
Initiates an asynchronous operation to upload a stream to a block blob.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source
)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(
    Stream^ source
)

F#  

[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync : 
    source:Stream -> Task 
[<DoesServiceRequestAttribute>]
override UploadFromStreamAsync : 
    source:Stream -> Task

VB  

<DoesServiceRequestAttribute>
Public Overridable Function UploadFromStreamAsync(
    source As Stream
) As Task
See Also

- UploadFromStreamAsync_Overload
- CloudBlockBlob Class

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See Also
Initiates an asynchronous operation to upload a stream to a block blob.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(  
    Stream source,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(  
    Stream^ source,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync :  
    source:Stream  
    accessCondition:AccessCondition  
    options:BlobRequestOptions  
    operationContext:OperationContext -> T

[<DoesServiceRequestAttribute>]
override UploadFromStreamAsync :  
    source:Stream  
```
See Also

UploadFromStreamAsync_Overload
CloudBlockBlob Class

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See Also
Initiates an asynchronous operation to upload a stream to a block blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

#### C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

#### C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(
    Stream^ source,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

#### F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync :
    source:Stream *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken *
```
See Also

UploadFromStreamAsync_Overload
CloudBlockBlob Class

Return to top
CloudBlockBlob:::UploadFromStreamAsync C#++F#VB

Method (Stream, CancellationToken)(Stream^, CancellationToken)(Stream, CancellationToken)

See Also
Initiates an asynchronous operation to upload a stream to a block blob.

**Namespace**: Microsoft.WindowsAzure.Storage.Blob

Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source,
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(
    Stream^ source,
    CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync :
    source:Stream *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override UploadFromStreamAsync :
    source:Stream *
    cancellationToken:CancellationToken ->

VB

<DoesServiceRequestAttribute>
Public Overridable Function UploadFromStreamAs...
See Also

UploadFromStreamAsync_Overload
CloudBlockBlob Class

Return to top
CloudBlockBlob:::UploadFromStreamAsync

C#  C++  F#  VB

Method (Stream, Int64)(Stream^, Int64)(Stream, Int64)

See Also
Initiates an asynchronous operation to upload a stream to a block blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source,
    long length
)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(
    Stream^ source,
    long long length
)

F#  

[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync : 
    source:Stream *
    length:int64 -> Task

[<DoesServiceRequestAttribute>]
override UploadFromStreamAsync : 
    source:Stream *
    length:int64 -> Task

VB  

<DoesServiceRequestAttribute>
Public Overridable Function UploadFromStreamAs...
See Also

UploadFromStreamAsync_Overload
CloudBlockBlob Class

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<td><code>CloudBlockBlob.UploadFromStreamAsync(Stream, Int64, AccessCondition, BlobRequestOptions, OperationContext)</code></td>
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See Also
Initiates an asynchronous operation to upload a stream to a block blob.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source,
    long length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(
    Stream^ source,
    long long length,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync :
    source:Stream *
    length:int64 *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task
```
See Also

UploadFromStreamAsync_Overload
CloudBlockBlob Class

Return to top
See Also
Initiates an asynchronous operation to upload a stream to a block blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source,
    long length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(
    Stream^ source,
    long long length,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync :
    source:Stream *
    length:int64 *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken *
```

See Also

UploadFromStreamAsync_Overload
CloudBlockBlob Class

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CloudBlockBlob:::..UploadFromStreamAsync Method (Stream, Int64, CancellationToken)
(Stream^, Int64, CancellationToken)(Stream, Int64, CancellationToken)
See Also
Initiates an asynchronous operation to upload a stream to a block blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

#### C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source,
    long length,
    CancellationToken cancellationToken
)
```

#### C++

```c++
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(
    Stream^ source,
    long long length,
    CancellationToken cancellationToken
)
```

#### F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync :
    source: Stream *
    length: int64 *
    cancellationToken: CancellationToken ->

[<DoesServiceRequestAttribute>]
override UploadFromStreamAsync :
    source: Stream *
    length: int64 *
    cancellationToken: CancellationToken ->
```
See Also

UploadFromStreamAsync Overload
CloudBlockBlob Class

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| | CloudBlockBlob:::UploadTextAsync Method (String)(String^)(String)(String) |
|---|---|---|---|---|
| C# | C++ | F# | VB |

See Also
Initiates an asynchronous operation to upload a string of text to a blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task UploadTextAsync(  
    string content  
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadTextAsync(  
    String^ content  
)

F#  
[<DoesServiceRequestAttribute>]
abstract UploadTextAsync :  
    content:string -> Task  
[<DoesServiceRequestAttribute>]
override UploadTextAsync :  
    content:string -> Task  

VB  
<DoesServiceRequestAttribute>
Public Overridable Function UploadTextAsync (  
    content As String  
) As Task
See Also

UploadTextAsync Overload
CloudBlockBlob Class

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CloudBlockBlob:::UploadTextAsync Method

(String, CancellationToken)(String^, CancellationToken)(String, CancellationToken)(String, CancellationToken)

See Also
Initiates an asynchronous operation to upload a string of text to a blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task UploadTextAsync(
    string content,
    CancellationToken cancellationToken
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadTextAsync(
    String^ content,
    CancellationToken cancellationToken
)

F#  
[<DoesServiceRequestAttribute>]
abstract UploadTextAsync :  
    content:string *  
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override UploadTextAsync :  
    content:string *  
    cancellationToken:CancellationToken ->

VB  
<DoesServiceRequestAttribute>  
Public Overridable Function UploadTextAsync (  

See Also

UploadTextAsync_Overload
CloudBlockBlob Class

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CloudBlockBlob.Use..UploadTextAsync Method

(C#, C++, F#, VB)

(CloudBlockBlob:::UploadTextAsync (String, Encoding, AccessCondition,
BlobRequestOptions, OperationContext)(String ^, Encoding ^,
AccessCondition ^, BlobRequestOptions ^, OperationContext ^))

See Also
Initiates an asynchronous operation to upload a string of text to a blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task UploadTextAsync(
    string content,
    Encoding encoding,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ UploadTextAsync(
    String^ content,
    Encoding^ encoding,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#

[<DoesServiceRequestAttribute>]
abstract UploadTextAsync :
    content:string *
    encoding:Encoding *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task
See Also

UploadTextAsync_Overload
CloudBlockBlob Class

Return to top
CloudBlockBlob:::UploadTextAsync Method

C# C++ F# VB

(String, Encoding, AccessCondition,
BlobRequestOptions, OperationContext, CancellationToken)
(String^, Encoding^, AccessCondition^,
BlobRequestOptions^, OperationContext^, CancellationToken)
(String, Encoding, AccessCondition, BlobRequestOptions,
OperationContext, CancellationToken)(String, Encoding,
AccessCondition, BlobRequestOptions, OperationContext,
CancellationToken)

See Also
Initiates an asynchronous operation to upload a string of text to a blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadTextAsync(
    string content,
    Encoding encoding,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadTextAsync(
    String^ content,
    Encoding^ encoding,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadTextAsync :
    content:string *
    encoding:Encoding *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken *
```
See Also

UploadTextAsync_Overload
CloudBlockBlob Class

Return to top
CloudPageBlob Constructor (StorageUri, Nullable<DateTimeOffset>, StorageCredentials)
(StorageUri^, Nullable<DateTimeOffset>, StorageCredentials^)
(StorageUri, Nullable<DateTimeOffset>, StorageCredentials)
(StorageUri, Nullable(Of DateTimeOffset), StorageCredentials)

See Also
Initializes a new instance of the `CloudPageBlob` class using an absolute URI to the blob.


Syntax

C#  

```csharp
public CloudPageBlob(
    StorageUri blobAbsoluteUri,
    Nullable<DateTimeOffset> snapshotTime,
    StorageCredentials credentials
)
```

C++  

```cpp
public:
CloudPageBlob(
    StorageUri^ blobAbsoluteUri,
    Nullable<DateTimeOffset> snapshotTime,
    StorageCredentials^ credentials
)
```

F#  

```fsharp
new :
    blobAbsoluteUri:StorageUri *
    snapshotTime:Nullable<DateTimeOffset>
    credentials:StorageCredentials -> Cloud
```

VB  

```vb
Public Sub New (
    blobAbsoluteUri As StorageUri,
    snapshotTime As Nullable(Of DateTimeOffset),
    credentials As StorageCredentials
)
```
See Also

CloudPageBlob Overload
CloudPageBlob Class

Return to top
CloudPageBlob Constructor (Uri)(Uri^)(Uri)(Uri)

See Also
Initializes a new instance of the `CloudPageBlob` class using an absolute URI to the blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
public CloudPageBlob(
    Uri blobAbsoluteUri
)
```

**C++**

```cpp
public:
CloudPageBlob(
    Uri^ blobAbsoluteUri
)
```

**F#**

```fsharp
new : blobAbsoluteUri:Uri -> CloudPageBlob
```

**VB**

```vbnet
Public Sub New (    blobAbsoluteUri As Uri
)
```

### Parameters

- **blobAbsoluteUri**
  
  Type: System.Uri
  
  The absolute URI to the blob.
See Also

CloudPageBlob Overload
CloudPageBlob Class

Return to top
CloudPageBlob Constructor (Uri, Nullable<DateTimeOffset>, StorageCredentials) (Uri^, Nullable<DateTimeOffset>, StorageCredentials^) (Uri, Nullable<DateTimeOffset>, StorageCredentials)(Uri, Nullable(Of DateTimeOffset), StorageCredentials)

See Also
Initializes a new instance of the CloudPageBlob class using an absolute URI to the blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public CloudPageBlob(
    Uri blobAbsoluteUri,
    Nullable<DateTimeOffset> snapshotTime,
    StorageCredentials credentials
)

C++  
public:
CloudPageBlob(
    Uri^ blobAbsoluteUri,
    Nullable<DateTimeOffset> snapshotTime,
    StorageCredentials^ credentials
)

F#  
new :
    blobAbsoluteUri:Uri *
    snapshotTime:Nullable<DateTimeOffset>
    credentials:StorageCredentials -> CloudPageBlob

VB  
Public Sub New (  
    blobAbsoluteUri As Uri,
    snapshotTime As Nullable(Of DateTimeOffset),
    credentials As StorageCredentials
)
See Also

CloudPageBlob Overload
CloudPageBlob Class

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CloudPageBlob Constructor (Uri, StorageCredentials)(Uri^, StorageCredentials^)
(Uri, StorageCredentials)(Uri, StorageCredentials)

See Also
Initializes a new instance of the **CloudPageBlob** class using an absolute URI to the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

### C#
```csharp
public CloudPageBlob(
    Uri blobAbsoluteUri,
    StorageCredentials credentials
)
```

### C++
```cpp
public:
CloudPageBlob(
    Uri^ blobAbsoluteUri,
    StorageCredentials^ credentials
)
```

### F#
```fsharp
new :
    blobAbsoluteUri:Uri *
    credentials:StorageCredentials -> CloudPageBlob
```

### VB
```vbnet
Public Sub New (
    blobAbsoluteUri As Uri,
    credentials As StorageCredentials
)
```

## Parameters

- **blobAbsoluteUri**
See Also

CloudPageBlob Overload
CloudPageBlob Class

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<td><strong>CloudPageBlob.StreamWriteSizeInBytes</strong> Property</td>
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**See Also**
Gets or sets the number of bytes to buffer when writing to a page blob stream


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```
public int StreamWriteSizeInBytes { get; set; }
```

C++  
```
public:
property int StreamWriteSizeInBytes {
    virtual int get() sealed;
    virtual void set(int value) sealed;
}
```

F#  
```
abstract StreamWriteSizeInBytes : int with get
override StreamWriteSizeInBytes : int with get
```

VB  
```
Public Property StreamWriteSizeInBytes As Integer
```

**Property Value**

Type: System.Int32
The number of bytes to buffer, ranging from between 512 bytes and 4 MB inclusive.

**Implements**
See Also

CloudPageBlob Class

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CloudPageBlob...BeginClearPages Method (Int64, Int64, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)(Int64, Int64, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)(Int64, Int64, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)(Int64, Int64, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to clear pages from a page blob.

**Namespace**: Microsoft.WindowsAzure.Storage.Blob  
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginClearPages(
    long startOffset,
    long length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++  
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginClearPages(
    long long startOffset,
    long long length,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#  
[<DoesServiceRequestAttribute>]
abstract BeginClearPages :
    startOffset:int64*
See Also

- BeginClearPages Overload
- CloudPageBlob Class

Return to top
CloudPageBlob:::BeginClearPages Method (Int64, Int64, AsyncCallback, Object)(Int64, Int64, AsyncCallback^, Object^)(Int64, Int64, AsyncCallback, Object)(Int64, Int64, AsyncCallback^, Object^)

See Also
Begins an asynchronous operation to clear pages from a page blob.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  public virtual ICancellableAsyncResult BeginClearPages(
    long startOffset,
    long length,
    AsyncCallback callback,
    object state
  )

C++  public:
  [DoesServiceRequestAttribute]
  virtual ICancellableAsyncResult^ BeginClearPages(
    long long startOffset,
    long long length,
    AsyncCallback^ callback,
    Object^ state
  )

F#  [<DoesServiceRequestAttribute>]
  abstract BeginClearPages :
    startOffset:int64 
    length:int64 *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

  [<DoesServiceRequestAttribute>]
  override BeginClearPages :
    startOffset:int64 *
See Also

BeginClearPages_ Overload
CloudPageBlob Class

Return to top
CloudPageBlob::BeginCreate Method (Int64, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to create a page blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginCreate(
    long size,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

**C++**

```cpp
public:

[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginCreate(
    long long size,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginCreate :
    size:int64 *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
```
See Also

- **BeginCreate Overload**
- **CloudPageBlob Class**
- **Microsoft.WindowsAzure.Storage.Blob Namespace**

Return to top
CloudPageBlob:::BeginCreate Method (Int64, AsyncCallback, Object)(Int64, AsyncCallback^, Object^)(Int64, AsyncCallback, Object)(Int64, AsyncCallback, Object)

See Also
Begins an asynchronous operation to create a page blob.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginCreate(
    long size,
    AsyncCallback callback,
    object state
)

C++  

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginCreate(
    long long size,
    AsyncCallback^ callback,
    Object^ state
)

F#  

[<DoesServiceRequestAttribute>]
abstract BeginCreate :
    size:int64 *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginCreate :
    size:int64 *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
See Also

- BeginCreate_Overload
- CloudPageBlob Class

Return to top
CloudPageBlob:::BeginCreateSnapshot Method

(AsyncCallback, Object)(AsyncCallback^, Object^)(AsyncCallback, Object)(AsyncCallback, Object)

See Also
Begins an asynchronous operation to create a snapshot of the blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginCreateSnapshot(AsyncCallback callback, object state)

C++  
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginCreateSnapshot(AsyncCallback^ callback, Object^ state)

F#  
[<DoesServiceRequestAttribute>]
abstract BeginCreateSnapshot : callback:AsyncCallback * state:Object -> ICancellableAsyncResult
[<DoesServiceRequestAttribute>]
override BeginCreateSnapshot : callback:AsyncCallback * state:Object -> ICancellableAsyncResult

VB  
<DoesServiceRequestAttribute>
Public Overridable Function BeginCreateSnapshot(ByVal callback As AsyncCallback, ByVal state As Object) As ICancellableAsyncResult
See Also

BeginCreateSnapshot Overload
CloudPageBlob Class

Return to top
CloudPageBlob::BeginCreateSnapshot Method
[IDictionary<String, String>, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object](IDictionary<String^, String^>, AccessCondition^,
BlobRequestOptions^, OperationContext^, AsyncCallback^,
Object^)(IDictionary<String, String>, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(IDictionary(Of String, String), AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)

See Also
Begins an asynchronous operation to create a snapshot of the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

#### C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginCreateSnapshot(
    IDictionary<string, string> metadata,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

#### C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginCreateSnapshot(
    IDictionary<String^, String^>^ metadata,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

#### F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginCreateSnapshot : 
    metadata:IDictionary<string, string> * 
    accessCondition:AccessCondition * 
    options:BlobRequestOptions * 
    ```
See Also

- BeginCreateSnapshot_Overload
- CloudPageBlob Class

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See Also
Begins an asynchronous operation to return a collection of valid page ranges and their starting and ending bytes.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginGetPageRanges(
    AsyncCallback callback,
    object state
)

C++  
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginGetPageRanges(
    AsyncCallback^ callback,
    Object^ state
)

F#  
[<DoesServiceRequestAttribute>]
abstract BeginGetPageRanges :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginGetPageRanges :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

VB  
<DoesServiceRequestAttribute>
Public Overridable Function BeginGetPageRanges(  

See Also

BeginGetPageRanges Overload
CloudPageBlob Class

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CloudPageBlob.BEGINGETPRANGES Method

C# C++ F# VB

(Nullable<Int64>, Nullable<Int64>,
AccessCondition, BlobRequestOptions, OperationContext,
AsyncCallback, Object)(Nullable<Int64>, Nullable<Int64>,
AccessCondition^, BlobRequestOptions^, OperationContext^,
AsyncCallback^, Object^)(Nullable<Int64>, Nullable<Int64>,
AccessCondition, BlobRequestOptions, OperationContext,
AsyncCallback, Object)(Nullable(Of Int64), Nullable(Of Int64),
AccessCondition, BlobRequestOptions,
OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to return a collection of valid page ranges and their starting and ending bytes.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginGetPageRanges(  
    Nullable<long> offset,  
    Nullable<long> length,  
    AccessCondition accessCondition,  
    BlobRequestOptions options,  
    OperationContext operationContext,  
    AsyncCallback callback,  
    object state)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginGetPageRanges(  
    Nullable<long long> offset,  
    Nullable<long long> length,  
    AccessCondition^ accessCondition,  
    BlobRequestOptions^ options,  
    OperationContext^ operationContext,  
    AsyncCallback^ callback,  
    Object^ state)

F#

[<DoesServiceRequestAttribute>]
abstract BeginGetPageRanges :  
    offset:Nullable<int64> *  
    length:Nullable<int64> *  
    accessCondition:AccessCondition *  
    options:BlobRequestOptions *  
    operationContext:OperationContext *  
    callback:AsyncCallback *  
    state:Object *
See Also

BeginGetPageRanges Overload
CloudPageBlob Class

Return to top
CloudPageBlob::BeginGetPageRangesDiff Method

C#  

C++  

F#  

VB

( DateTimeOffset, AsyncCallback, Object)

( DateTimeOffset, AsyncCallback^, Object^)( DateTimeOffset, AsyncCallback, Object)( DateTimeOffset, AsyncCallback, Object)( DateTimeOffset, AsyncCallback, Object)

See Also
Begins an asynchronous operation to return the collection of page ranges that differ between a specified snapshot and this object.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  [DoesServiceRequestAttribute]
public ICancellableAsyncResult BeginGetPageRangesDiff(
    DateTimeOffset previousSnapshotTime,
    AsyncCallback callback,
    object state
)

C++  [DoesServiceRequestAttribute]
public:
[DoesServiceRequestAttribute]
ICancellableAsyncResult^ BeginGetPageRangesDiff(
    DateTimeOffset previousSnapshotTime,
    AsyncCallback^ callback,
    Object^ state
)

F#  [<DoesServiceRequestAttribute>]
member BeginGetPageRangesDiff :
    previousSnapshotTime:DateTimeOffset *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

VB  <DoesServiceRequestAttribute>
Public Function BeginGetPageRangesDiff (  
    previousSnapshotTime As DateTimeOffset
    ,
    PreviousSnapshotTime As DateTimeOffset
    ,
    callback As AsyncCallback
    ,
    state As Object
    ) As ICancellableAsyncResult

    ...
See Also

BeginGetPageRangesDiff_Overload
CloudPageBlob Class

Return to top
CloudPageBlob..::..BeginGetPageRangesDiff Method

C#\n\nC++\n\nF#\n\nVB

(DateTimeOffset, Nullable<Int64>, Nullable<Int64>, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)(DateTimeOffset, Nullable<Int64>, Nullable<Int64>, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)(DateTimeOffset, Nullable<Int64>, Nullable<Int64>, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)(DateTimeOffset, Nullable(Of Int64), Nullable(Of Int64), AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to return the collection of page ranges that differ between a specified snapshot and this object.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public ICancellableAsyncResult BeginGetPageRangesDiff(  
    DateTimeOffset previousSnapshotTime,  
    Nullable<long> offset,  
    Nullable<long> length,  
    AccessCondition accessCondition,  
    BlobRequestOptions options,  
    OperationContext operationContext,  
    AsyncCallback callback,  
    object state
)
```

C++

```cpp
public:
    [DoesServiceRequestAttribute]
    ICancellableAsyncResult* BeginGetPageRangesDiff(  
        DateTimeOffset previousSnapshotTime,  
        Nullable<long> offset,  
        Nullable<long> length,  
        AccessCondition* accessCondition,  
        BlobRequestOptions* options,  
        OperationContext* operationContext,  
        AsyncCallback* callback,  
        Object* state
    )
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
member BeginGetPageRangesDiff :  
    previousSnapshotTime:DateTimeOffset  
    * offset:Nullable<int64>  
    * length:Nullable<int64>  
    * accessCondition:AccessCondition  
    * options:BlobRequestOptions  
    * operationContext:OperationContext  
    * callback:AsyncCallback  
    * state:object  
```
See Also

- BeginGetPageRangesDiff Overload
- CloudPageBlob Class

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CloudPageBlob::<...BeginOpenWrite Method
(Nullable<Int64>, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(Nullable<Int64>, AccessCondition^,
BlobRequestOptions^, OperationContext^, AsyncCallback^,
Object^)(Nullable<Int64>, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(Nullable(Of Int64), AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)
See Also
Begins an asynchronous operation to open a stream for writing to the blob.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginOpenWrite(
    Nullable<long> size,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state)
```

C++  

```
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginOpenWrite(
    Nullable<long long> size,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state)
```

F#  

```
[<DoesServiceRequestAttribute>]
abstract BeginOpenWrite :
    size:Nullable<int64> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
```
Remarks

Note that this method always makes a call to the Referenced topic '334f74fc-1383-49aa-bb6b-6ec4e93ff6d' is not in the TOC, method under the covers.

Set the StreamWriteSizeInBytes property before calling this method to specify the block size to write, in bytes, ranging from between 16 KB and 4 MB inclusive.
See Also

BEGINOPENWRITE Overload
CloudPageBlob Class

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<td>(Nullable&lt;Int64&gt;, AsyncCallback, Object)(Nullable(Of Int64), AsyncCallback, Object)</td>
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See Also
Begins an asynchronous operation to open a stream for writing to the blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginOpenWrite(
    Nullable<long> size,
    AsyncCallback callback,
    object state
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginOpenWrite(
    Nullable<long long> size,
    AsyncCallback* callback,
    Object* state
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginOpenWrite : 
    size:Nullable<int64> *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginOpenWrite : 
    size: Nullable<int64> *
    callback: AsyncCallback *
    state: Object -> ICancellableAsyncResult
```
Remarks

Note that this method always makes a call to the Referenced topic '334f74fc1383-49aa-bb6b-6ec4e93ff6d' is not in the TOC, method under the covers.

Set the StreamWriteSizeInBytes property before calling this method to specify the block size to write, in bytes, ranging from between 16 KB and 4 MB inclusive.
See Also

BeginOpenWrite Overload
CloudPageBlob Class

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CloudPageBlob::BeginResize Method (Int64, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)(Int64, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)(Int64, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)(Int64, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to resize the page blob to the specified size.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginResize(
    long size,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginResize(
    long long size,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginResize :
    size:int64 *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
```
See Also

BeginResize_Overload
CloudPageBlob Class

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<td><code>BeginResize Method (Int64, AsyncCallback, Object)</code></td>
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<td><code>BeginResize Method (Int64, AsyncCallback, Object)</code></td>
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</table>

See Also
Begins an asynchronous operation to resize the page blob to the specified size.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginResize(
    long size,
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginResize(
    long long size,
    AsyncCallback* callback,
    Object* state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginResize :
    size:int64 *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginResize :
    size:int64 *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
See Also

BeginResize_Overload
CloudPageBlob Class

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<td>CloudPageBlob::&lt;...BeginSetSequenceNumber (SequenceNumberAction, Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(SequenceNumberAction, Nullable&lt;Int64&gt;, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</td>
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</tr>
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</table>
Begins an asynchronous operation to set the page blob's sequence number.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginSetSequenceNumber(
    SequenceNumberAction sequenceNumberAction,
    Nullable<long> sequenceNumber,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginSetSequenceNumber(
    SequenceNumberAction sequenceNumberAction,
    Nullable<long long> sequenceNumber,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginSetSequenceNumber :
    sequenceNumberAction:SequenceNumberAction *
    sequenceNumber:Nullable<int64> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object *
```
See Also

- BeginSetSequenceNumber Overload
- CloudPageBlob Class

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CloudPageBlob::BeginSetSequenceNumber Method (SequenceNumberAction, Nullable<Int64>, AsyncCallback, Object)
(SequenceNumberAction, Nullable<Int64>, AsyncCallback^, Object^)(SequenceNumberAction, Nullable<Int64>, AsyncCallback, Object)(SequenceNumberAction, Nullable(Of Int64), AsyncCallback, Object)

See Also
Begins an asynchronous operation to set the page blob's sequence number.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginSetSequenceNumber(SequenceNumberAction sequenceNumberAction,
    Nullable<long> sequenceNumber,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginSetSequenceNumber(SequenceNumberAction sequenceNumberAction,
    Nullable<long long> sequenceNumber,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>] abstract BeginSetSequenceNumber :
    sequenceNumberAction:SequenceNumberAction
    sequenceNumber:Nullable<int64> *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginSetSequenceNumber :
    sequenceNumberAction:SequenceNumberAction
    sequenceNumber:Nullable<int64> *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
See Also

- `BeginSetSequenceNumber_Overload`
- `CloudPageBlob Class`

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CloudPageBlob.


See Also
Begins an asynchronous operation to start copying another page blob's contents, properties, and metadata to this page blob.

Namespace:  

Assembly:  
Syntax

C#

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginStartCopy(
    CloudPageBlob source,
    AccessCondition sourceAccessCondition,
    AccessCondition destAccessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginStartCopy(
    CloudPageBlob^ source,
    AccessCondition^ sourceAccessCondition,
    AccessCondition^ destAccessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]
abstract BeginStartCopy :
    source: CloudPageBlob *
See Also

BeginStartCopy Overload
CloudPageBlob Class

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CloudPageBlob::BeginStartCopy Method

(CloudPageBlob, AsyncCallback, Object)
(CloudPageBlob^, AsyncCallback^, Object^)
(CloudPageBlob, AsyncCallback, Object)
(CloudPageBlob, AsyncCallback, Object)

See Also
Begins an asynchronous operation to start copying another page blob's contents, properties, and metadata to this page blob.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

public virtual ICancellableAsyncResult BeginStartCopy(  
    CloudPageBlob source,  
    AsyncCallback callback,  
    object state
)

C++

public:  

[DoesServiceRequestAttribute]  
virtual ICancellableAsyncResult^ BeginStartCopy(  
    CloudPageBlob^ source,  
    AsyncCallback^ callback,  
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]  
abstract BeginStartCopy :  
    source:CloudPageBlob *  
    callback:AsyncCallback *  
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]  
override BeginStartCopy :  
    source:CloudPageBlob *  
    callback:AsyncCallback *  
    state:Object -> ICancellableAsyncResult
See Also

BeginStartCopy Overload
CloudPageBlob Class

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See Also
Begins an asynchronous operation to upload the contents of a byte array to a page blob.

Syntax

C# 

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadFromByteArray(
    byte[] buffer,
    int index,
    int count,
    AccessCondition accessCondition, 
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginUploadFromByteArray(
    array<unsigned char>* buffer,
    int index,
    int count,
    AccessCondition* accessCondition, 
    BlobRequestOptions* options,
    OperationContext* operationContext,
    AsyncCallback* callback,
    Object* state
)

F#

[<DoesServiceRequestAttribute>]
See Also

- BeginUploadFromByteArray_Overload
- CloudPageBlob Class

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See Also
Begins an asynchronous operation to upload the contents of a byte array to a page blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  Copy Code

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadFromByteArray(byte[] buffer,
    int index,
    int count,
    AsyncCallback callback,
    object state)

C++  Copy Code

public:

[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginUploadFromByteArray(array<unsigned char>^ buffer,
    int index,
    int count,
    AsyncCallback^ callback,
    Object^ state)

F#  Copy Code

[<DoesServiceRequestAttribute>]
abstract BeginUploadFromByteArray : 
    buffer:byte[] *
    index:int *
    count:int *
    callback:AsyncCallback *
    state:Object * ICancellableAsyncResult
See Also

- `BeginUploadFromByteArray_Overload`
- `CloudPageBlob Class`

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CloudPageBlob::BeginUploadFromFile Method

C#  C++  F#  VB

(String, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to upload a file to a page blob. If the blob already exists, it will be overwritten.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadFromFile(
    string path,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginUploadFromFile(
    String^ path,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginUploadFromFile :
    path:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    callback:AsyncCallback *
    state:object -> ICancellableAsyncResult
```
See Also

BeginUploadFromFile Overload
CloudPageBlob Class

Return to top
CloudPageBlob::BeginUploadFromFile Method

C# C++ F# VB
(String, AsyncCallback, Object)
(String^, AsyncCallback^, Object^)
(String, AsyncCallback, Object)
(String, AsyncCallback, Object)

See Also
Begins an asynchronous operation to upload a file to a page blob. If the blob already exists, it will be overwritten.

Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadFromFile(
    string path,
    AsyncCallback callback,
    object state
)

C++  

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginUploadFromFile(
    String^ path,
    AsyncCallback^ callback,
    Object^ state
)

F#  

[<DoesServiceRequestAttribute>]
abstract BeginUploadFromFile : 
    path:string *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginUploadFromFile : 
    path:string *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
See Also

BeginUploadFromFile_ Overload
CloudPageBlob Class

Return to top
CloudPageBlob::BeginUploadFromStream Method (Stream, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to upload a stream to a page blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#
[DoesServiceRequestAttribute]
public virtual ICancelableAsyncResult BeginUploadFromStream(Stream source,
AccessCondition accessCondition,
BlobRequestOptions options,
OperationContext operationContext,
AsyncCallback callback,
object state)

C++
public:
[DoesServiceRequestAttribute]
virtual ICancelableAsyncResult^ BeginUploadFromStream(
Stream^ source,
AccessCondition^ accessCondition,
BlobRequestOptions^ options,
OperationContext^ operationContext,
AsyncCallback^ callback,
Object^ state)

F#
[<DoesServiceRequestAttribute>]
abstract BeginUploadFromStream :
source:Stream *
accessCondition:AccessCondition *
options:BlobRequestOptions *
See Also

- BeginUploadFromStream_Overload
- CloudPageBlob Class

Return to top
CloudPageBlob.:..BeginUploadFromStream
Method (Stream, AsyncCallback, Object)
(Stream^, AsyncCallback^, Object^)(Stream, AsyncCallback, Object)(Stream, AsyncCallback, Object)
See Also
Begins an asynchronous operation to upload a stream to a page blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadFromStream(
    Stream source,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginUploadFromStream(
    System::Stream^ source,
    System::AsyncCallback^ callback,
    System::Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginUploadFromStream : 
    source:Stream * 
    callback:AsyncCallback * 
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginUploadFromStream : 
    source:Stream * 
    callback:AsyncCallback * 
    state:Object -> ICancellableAsyncResult
```
See Also

- BeginUploadFromStream_Overload
- CloudPageBlob Class

Return to top
CloudPageBlob::BeginUploadFromStream


See Also
Begins an asynchronous operation to upload a stream to a page blob.

Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadFromStream(
    Stream source,
    long length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++

```c++
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginUploadFromStream(
    Stream* source,
    long long length,
    AccessCondition* accessCondition,
    BlobRequestOptions* options,
    OperationContext* operationContext,
    AsyncCallback* callback,
    Object* state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginUploadFromStream : 
    source:Stream * 
    length:int64 * 
    accessCondition:AccessCondition * 
    options:BlobRequestOptions * 
    operationContext:OperationContext * 
    callback:AsyncCallback * 
    state:Object *
```
See Also

BeginUploadFromStream_Overload
CloudPageBlob Class

Return to top
CloudPageBlob::BeginUploadFromStream

Method (Stream, Int64, AsyncCallback, Object)
(Stream^, Int64, AsyncCallback^, Object^)(Stream, Int64, AsyncCallback, Object)(Stream, Int64, AsyncCallback, Object)

See Also
Begins an asynchronous operation to upload a stream to a page blob.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadFromStream(Stream source,
    long length,
    AsyncCallback callback,
    object state
)

C++  

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginUploadFromStream(
    Stream^ source,
    long long length,
    AsyncCallback^ callback,
    Object^ state
)

F#  

[<DoesServiceRequestAttribute>]
abstract BeginUploadFromStream : 
    source:Stream *
    length:int64 *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginUploadFromStream : 
    source:Stream *
    length:int64 *
See Also

BeginUploadFromStream_Overload
CloudPageBlob Class

Return to top
CloudPageBlob..::..BeginWritePages Method
(Stream, Int64, String, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(Stream^, Int64, String^, AccessCondition^,
BlobRequestOptions^, OperationContext^, AsyncCallback^,
Object^)(Stream, Int64, String, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(Stream, Int64, String, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)
See Also
Begins an asynchronous operation to write pages to a page blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://aka.ms/wa-storage-blob)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginWritePages(
    Stream pageData,
    long startOffset,
    string contentMD5,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginWritePages(
    Stream^ pageData,
    long long startOffset,
    String^ contentMD5,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#
[<DoesServiceRequestAttribute>]
abstract BeginWritePages : pageData:Stream* startOffset:int64* contentMD5:string* accessCondition:AccessCondition* options:BlobRequestOptions* operationContext:OperationContext* callback:AsyncCallback* state:object*
Remarks

Clients may send the Content-MD5 header for a given Write Pages operation as a means to ensure transactional integrity over the wire. The contentMD5 parameter permits clients who already have access to a pre-computed MD5 value for a given byte range to provide it. If the `P:BlobRequestOptions.UseTransactionalMd5` referenced topic's target id should not be empty. Article id: 8ebe44f6-ac29-4d2d-b6f8-189d392049d0, link: `P:BlobRequestOptions.UseTransactionalMd5`. property is set to `true` and the contentMD5 parameter is set to `null`, then the client library will calculate the MD5 value internally.
See Also

BeginWritePages Overload
CloudPageBlob Class

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See Also
Begins an asynchronous operation to write pages to a page blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginWritePages(
    Stream pageData,
    long startOffset,
    string contentMD5,
    AsyncCallback callback,
    object state
)

C++  

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginWritePages(
    Stream* pageData,
    long startOffset,
    String* contentMD5,
    AsyncCallback* callback,
    Object* state
)

F#  

[<DoesServiceRequestAttribute>]  
abstract BeginWritePages :
    pageData:Stream *
    startOffset:int64 *
    contentMD5:string *
    callback:AsyncCallback *
    state:Object * -> ICancellableAsyncResult
Remarks

Clients may send the Content-MD5 header for a given Write Pages operation as a means to ensure transactional integrity over the wire. The contentMD5 parameter permits clients who already have access to a pre-computed MD5 value for a given byte range to provide it. If the P:BlobRequestOptions.UseTransactionalMd5Referenced topic's target id should not be empty. Article id: 68aab9e4-931c-4e60-b8d5-6df08fadf00d, link: P:BlobRequestOptions.UseTransactionalMd5, property is set to true and the contentMD5 parameter is set to null, then the client library will calculate the MD5 value internally.
See Also

BeginWritePages Overload
CloudPageBlob Class

Return to top
CloudPageBlob::ClearPagesAsync Method
(Int64, Int64)(Int64, Int64)(Int64, Int64)(Int64, Int64)

See Also
Initiates an asynchronous operation to clear pages from a page blob.

**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task ClearPagesAsync(
    long startOffset,
    long length
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ ClearPagesAsync(
    long long startOffset,
    long long length
)

F#

[<DoesServiceRequestAttribute>]
abstract ClearPagesAsync :
    startOffset:int64 *
    length:int64 -> Task
[<DoesServiceRequestAttribute>]
override ClearPagesAsync :
    startOffset:int64 *
    length:int64 -> Task

VB

<DoesServiceRequestAttribute>
Public Overridable Function ClearPagesAsync (
See Also

ClearPagesAsync Overload
CloudPageBlob Class

Return to top
CloudPageBlob::ClearPagesAsync Method
(Int64, Int64, AccessCondition,
BlobRequestOptions, OperationContext)(Int64, Int64,
AccessCondition^, BlobRequestOptions^, OperationContext^)
(Int64, Int64, AccessCondition, BlobRequestOptions,
OperationContext)(Int64, Int64, AccessCondition,
BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to clear pages from a page blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task ClearPagesAsync(
    long startOffset,
    long length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++
public:
[DoesServiceRequestAttribute]
virtual Task^ ClearPagesAsync(
    long long startOffset,
    long long length,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#
[<DoesServiceRequestAttribute>]
abstract ClearPagesAsync :
    startOffset:int64 *
    length:int64 *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task
See Also

ClearPagesAsync Overload
CloudPageBlob Class

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CloudPageBlob::ClearPagesAsync Method (Int64, Int64, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken) (Int64, Int64, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)(Int64, Int64, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(Int64, Int64, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to clear pages from a page blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task ClearPagesAsync(
    long startOffset,
    long length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ ClearPagesAsync(
    long long startOffset,
    long long length,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract ClearPagesAsync :
    startOffset:int64 *
    length:int64 *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken *
```
See Also

ClearPagesAsync Overload
CloudPageBlob Class

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</table>

See Also
Initiates an asynchronous operation to clear pages from a page blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task ClearPagesAsync(
    long startOffset,
    long length,
    CancellationToken cancellationToken
)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task^ ClearPagesAsync(
    long startOffset,
    long length,
    CancellationToken cancellationToken
)

F#  

[<DoesServiceRequestAttribute>]
abstract ClearPagesAsync :
    startOffset:int64  
    length:int64  
    cancellationToken:CancellationToken  
    ->

[<DoesServiceRequestAttribute>]
override ClearPagesAsync :
    startOffset:int64  
    length:int64  
    cancellationToken:CancellationToken  
    ->
See Also

ClearPagesAsync Overload
CloudPageBlob Class

Return to top
CloudPageBlob::CreateAsync Method (Int64)
(Int64)(Int64)(Int64)
See Also
Initiates an asynchronous operation to create a page blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task CreateAsync(
    long size
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ CreateAsync(
    long long size
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract CreateAsync :
    size:int64 -> Task
[<DoesServiceRequestAttribute>]
override CreateAsync :
    size:int64 -> Task
```

VB  

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function CreateAsync (  
    size As Long
) As Task
```
See Also

CreateAsync_Overload
CloudPageBlob Class

Return to top
CloudPageBlob::CreateAsync Method (Int64, AccessCondition, BlobRequestOptions, OperationContext)(Int64, AccessCondition^, BlobRequestOptions^, OperationContext^)(Int64, AccessCondition, BlobRequestOptions, OperationContext)(Int64, AccessCondition, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to create a page blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task CreateAsync(
    long size,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ CreateAsync(
    long long size,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#

[<DoesServiceRequestAttribute>]
abstract CreateAsync :
    size:int64 *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task

[<DoesServiceRequestAttribute>]
override CreateAsync :
    size:int64 *
See Also

CreateAsync_Overload
CloudPageBlob Class

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CloudPageBlob...CreateAsync Method (Int64, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(Int64, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)(Int64, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(Int64, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to create a page blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task CreateAsync(
    long size,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ CreateAsync(
    long^ size,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract CreateAsync :
    size:int64 *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken
```
See Also

CreateAsync Overload
CloudPageBlob Class

Return to top
CloudPageBlob::CreateAsync Method (Int64, CancellationToken)
(Int64, CancellationToken)
See Also
Initiates an asynchronous operation to create a page blob.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task CreateAsync(
    long size,
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ CreateAsync(
    long long size,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract CreateAsync :
    size:int64 *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override CreateAsync :
    size:int64 *
    cancellationToken:CancellationToken ->
```

VB

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function CreateAsync (
See Also

CreateAsync_Overload
CloudPageBlob Class

Return to top
CloudPageBlob::CreateSnapshotAsync Method ()

See Also
Initiates an asynchronous operation to create a snapshot of the blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob]

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task<CloudPageBlob> CreateSnapshotAsync()
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<CloudPageBlob^>^ CreateSnapshotAsync()
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract CreateSnapshotAsync : unit -> Task<CloudPageBlob>
[<DoesServiceRequestAttribute>]
override CreateSnapshotAsync : unit -> Task<CloudPageBlob>
```

VB

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function CreateSnapshotAsync
```

Return Value

Type:

```csharp
System.Threading.Tasks.Task<CloudPageBlob>
```

A Task<TResult> object of type CloudPageBlob that represents the asynchronous operation.
See Also

CreateSnapshotAsync_Overload
CloudPageBlob Class

Return to top
CloudPageBlob:::CreateSnapshotAsync Method
(CancellationToken)(CancellationToken)
See Also
Initiates an asynchronous operation to create a snapshot of the blob.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<CloudPageBlob> CreateSnapshotAsync(
    CancellationToken cancellationToken)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<CloudPageBlob^>^ CreateSnapshotAsync(
    CancellationToken cancellationToken)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract CreateSnapshotAsync :
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override CreateSnapshotAsync :
    cancellationToken:CancellationToken ->
```

VB

```vb
<DoesServiceRequestAttribute>
Public Overridable Function CreateSnapshotAsync(
    cancellationToken As CancellationToken
) As Task(Of CloudPageBlob)
```
See Also

CreateSnapshotAsync_Overload
CloudPageBlob Class

Return to top
CloudPageBlob::CreateSnapshotAsync Method
(IDictionary<String, String>, AccessCondition,
BlobRequestOptions, OperationContext)
See Also
Initiates an asynchronous operation to create a snapshot of the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<CloudPageBlob> CreateSnapshotAsync(
    IDictionary<string, string> metadata,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<CloudPageBlob^>^ CreateSnapshotAsync(
    IDictionary<String^, String^>^ metadata,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract CreateSnapshotAsync :
    metadata:IDictionary<string, string> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<CloudPageBlob>

[<DoesServiceRequestAttribute>]
override CreateSnapshotAsync :
    metadata:IDictionary<string,string> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<CloudPageBlob>
```
See Also

CreateSnapshotAsync Overload
CloudPageBlob Class

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<td>(IDictionary(Of String, String), AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</td>
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See Also
Initiates an asynchronous operation to create a snapshot of the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task<CloudPageBlob> CreateSnapshotAsync(
    IDictionary<string, string> metadata,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken)
```  

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<CloudPageBlob^>^ CreateSnapshotAsync(
    IDictionary<String^, String^>^ metadata,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken)
```  

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract CreateSnapshotAsync :
    metadata:IDictionary<string, string> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->
    Task<CloudPageBlob>
```
See Also

CreateSnapshotAsync_Overload
CloudPageBlob Class

Return to top
CloudPageBlob:::EndClearPages Method
(IAasyncResult)(IAasyncResult^)(IAasyncResult)
(IAasyncResult)

See Also
Ends an asynchronous operation to clear pages from a page blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public virtual void EndClearPages(
    IAsyncResult asyncResult
)
```

C++  
```cpp
public:
virtual void EndClearPages(
    IAsyncResult^ asyncResult
)
```

F#  
```fsharp
abstract EndClearPages :
    asyncResult:IAsyncResult -> unit
override EndClearPages :
    asyncResult:IAsyncResult -> unit
```

VB  
```vbnet
Public Overridable Sub EndClearPages (  
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`  
Type:  
[System.IAsyncResult](System.IAsyncResult)
See Also

CloudPageBlob Class

Return to top
CloudPageBlob:::EndCreate Method

(IAsyncResult)(IAasyncResult^)(IAasyncResult)

See Also
Ends an asynchronous operation to create a page blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
public virtual void EndCreate(
    IAsyncResult asyncResult
)
```

**C++**

```cpp
public:
virtual void EndCreate(
    IAsyncResult^ asyncResult
)
```

**F#**

```fsharp
abstract EndCreate :
    asyncResult:IAsyncResult -> unit
override EndCreate :
    asyncResult:IAsyncResult -> unit
```

**VB**

```vbnet
Public Overridable Sub EndCreate (
    asyncResult As IAsyncResult
)
```

### Parameters

**asyncResult**

Type: System.IAsyncResult

An IAsyncResult that references the pending asynchronous operation.
See Also

CloudPageBlob Class

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<th>CloudPageBlob..::..EndCreateSnapshot Method (IAsyncResult)(IAsyncResult^)(IAsyncResult)(IAsyncResult)</th>
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See Also
Ends an asynchronous operation to create a snapshot of the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public virtual CloudPageBlob EndCreateSnapshot(IAsyncResult asyncResult)
```  

C++
```cpp
public:
    virtual CloudPageBlob^ EndCreateSnapshot(IAsyncResult^ asyncResult)
```  

F#
```fsharp
abstract EndCreateSnapshot : asyncResult:IAsyncResult -> CloudPageBlob
override EndCreateSnapshot : asyncResult:IAsyncResult -> CloudPageBlob
```  

VB
```vb
Public Overridable Function EndCreateSnapshot(
    asyncResult As IAsyncResult
) As CloudPageBlob
```  

Parameters

`asyncResult`
Type: `System.IAsyncResult``System::IAsyncResult``System.IAsyncResult``System::IAsyncResult`
See Also

CloudPageBlob Class

Return to top
CloudPageBlob:::EndGetPageRanges Method (IAsyncResult)(IAsyncResult^)(IAsyncResult)

See Also
Ends an asynchronous operation to return a collection of valid page ranges and their starting and ending bytes.

Syntax

C#  
```csharp
public virtual IEnumerable<PageRange> EndGetPageRanges(IAsyncResult asyncResult)
```

C++
```cpp
public:
    virtual IEnumerable<PageRange^>^ EndGetPageRanges(IAsyncResult^ asyncResult)
```

F#
```fsharp
abstract EndGetPageRanges : 
    asyncResult:IAsyncResult -> IEnumerable<

override EndGetPageRanges : 
    asyncResult:IAsyncResult -> IEnumerable<
```

VB
```vb
Public Overridable Function EndGetPageRanges (asyncResult As IAsyncResult) As IEnumerable(Of PageRange)
```

Parameters

`asyncResult`
Type: `System.IAsyncResult`
See Also

CloudPageBlob Class

Return to top
CloudPageBlob:::EndGetPageRangesDiff Method (IAsyncResult)(IAsyncResult^)(IAsyncResult)(IAsyncResult)

See Also
Ends an asynchronous operation to return the collection of page ranges that differ between a specified snapshot and this object.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public IEnumerable<PageDiffRange> EndGetPageRangesDiff(IAsyncResult asyncResult)
```

C++  
```cpp
public:
IEnumerable<PageDiffRange^>^ EndGetPageRangesDiff(IAsyncResult^ asyncResult)
```

F#  
```fsharp
member EndGetPageRangesDiff : asyncResult:IAsyncResult -> IEnumerable<PageDiffRange>
```

VB  
```vbnet
Public Function EndGetPageRangesDiff (asyncResult As IAsyncResult) As IEnumerable(Of PageDiffRange)
```

Parameters

asyncResult
Type:
System.IAsyncResult
An IAsyncResult that references the pending asynchronous operation.
See Also

CloudPageBlob Class

Return to top
CloudPageBlob.:::EndOpenWrite Method
(IAsyncResult)(IAsyncResult^)(IAsyncResult)
(IAsyncResult)

See Also
Ends an asynchronous operation to open a stream for writing to the blob.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public virtual CloudBlobStream EndOpenWrite(
    IAsyncResult asyncResult
)
```

C++

```cpp
public:
virtual CloudBlobStream^ EndOpenWrite(
    IAsyncResult^ asyncResult
)
```

F#

```fsharp
abstract EndOpenWrite :
    asyncResult:IAsyncResult -> CloudBlobStream
override EndOpenWrite :
    asyncResult:IAsyncResult -> CloudBlobStream
```

VB

```vbnet
Public Overridable Function EndOpenWrite (  
    asyncResult As IAsyncResult  
) As CloudBlobStream
```

Parameters

`asyncResult`

Type: `System.IAsyncResult`
See Also

CloudPageBlob Class

Return to top
CloudPageBlob:::EndResize Method

(IAsyncResult)(IAsyncResult^)(IAasyncResult)

See Also
Ends an asynchronous operation to resize the page blob.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

### C#
```csharp
public virtual void EndResize(
    IAsyncResult asyncResult
)
```

### C++
```cpp
public:
virtual void EndResize(
    IAsyncResult^ asyncResult
)
```

### F#
```fsharp
abstract EndResize :
    asyncResult:IAsyncResult -> unit
override EndResize :
    asyncResult:IAsyncResult -> unit
```

### VB
```vbnet
Public Overridable Sub EndResize (  
    asyncResult As IAsyncResult
)
```

## Parameters

- **asyncResult**
  - Type: `System.IAsyncResult`
See Also

CloudPageBlob Class

Return to top
CloudPageBlob::EndSetSequenceNumber Method C#++F#VB
(IAasyncResult)(IAasyncResult^)(IAasyncResult)
(IAasyncResult)
See Also
Ends an asynchronous operation to set the page blob's sequence number.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public virtual void EndSetSequenceNumber(
    IAsyncResult asyncResult
)
```

C++

```cpp
public:
virtual void EndSetSequenceNumber(
    IAsyncResult^ asyncResult
)
```

F#

```fsharp
abstract EndSetSequenceNumber :
    asyncResult:IAsyncResult -> unit
override EndSetSequenceNumber :
    asyncResult:IAsyncResult -> unit
```

VB

```vb
Public Overridable Sub EndSetSequenceNumber ( 
    asyncResult As IAsyncResult
)
```

**Parameters**

*asyncResult*

Type:

- `System.IAsyncResult`
- `System::IAsyncResult`
- `System.IAsyncResult^`
See Also

CloudPageBlob Class

Return to top
CloudPageBlob..::..EndUploadFromByteArray Method (IAsyncResult)(IAsyncResult^) (IAsyncResult)(IAsyncResult)
See Also
Ends an asynchronous operation to upload the contents of a byte array to a page blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public virtual void EndUploadFromByteArray(
    IAsyncResult asyncResult
)
```

C++  

```cpp
public:
  virtual void EndUploadFromByteArray(
    IAsyncResult^ asyncResult
  )
```

F#  

```fsharp
abstract EndUploadFromByteArray :
    asyncResult:IAAsyncResult -> unit

override EndUploadFromByteArray :
    asyncResult:IAAsyncResult -> unit
```

VB  

```vb
Public Overridable Sub EndUploadFromByteArray(
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`  
Type:  

```csharp
System.IAsyncResult
```
See Also

CloudPageBlob Class

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</tbody>
</table>
Ends an asynchronous operation to upload a file to a page blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public virtual void EndUploadFromFile(
    IAsyncResult asyncResult
)
```

C++

```cpp
public:
    virtual void EndUploadFromFile(
        IAsyncResult^ asyncResult
    )
```

F#

```fsharp
abstract EndUploadFromFile :
    asyncResult:IAasyncResult -> unit
override EndUploadFromFile :
    asyncResult:IAasyncResult -> unit
```

VB

```vb
Public Overridable Sub EndUploadFromFile (  
    asyncResult As IAsyncResult
)
```

**Parameters**

*asyncResult*

Type:

```csharp
System.IAsyncResult
```
See Also

CloudPageBlob Class

Return to top
CloudPageBlob::EndUploadFromStream Method
(CAsyncResult)(CAsyncResult)(CAsyncResult)
See Also
Ends an asynchronous operation to upload a stream to a page blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public virtual void EndUploadFromStream(
    IAsyncResult asyncResult
)
```

C++  

```cpp
public:
virtual void EndUploadFromStream(
    IAsyncResult^ asyncResult
)
```

F#  

```fsharp
abstract EndUploadFromStream :
    asyncResult:IAsyncResult -> unit
override EndUploadFromStream :
    asyncResult:IAsyncResult -> unit
```

VB  

```vb
Public Overridable Sub EndUploadFromStream (
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`

Type:  

`System.IAsyncResult`
See Also

CloudPageBlob Class

Return to top
CloudPageBlob::EndWritePages Method
(IAsyncResult)(IAsyncResult^)(IAsyncResult)
(IAsyncResult)
See Also
Ends an asynchronous operation to write pages to a page blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

public virtual void EndWritePages(
    IAsyncResult asyncResult
)

C++  

public:
  virtual void EndWritePages(
    IAsyncResult^ asyncResult
  )

F#  

abstract EndWritePages :
  asyncResult:IAsyncResult -> unit

override EndWritePages :
  asyncResult:IAsyncResult -> unit

VB  

Public Overridable Sub EndWritePages (    asyncResult As IAsyncResult
)

Parameters

asyncResult  
Type: 
  System.IAsyncResultSystem::IAsyncResult^System.IAsyncResultSystem::IAsyncResult
See Also

CloudPageBlob Class

Return to top
CloudPageBlob::GetPageRangesAsync Method (C#) (C++) (F#) (VB)

See Also
Initiates an asynchronous operation to return a collection of page ranges and their starting and ending bytes.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<IEnumerable<PageRange>> GetPageRangesAsync()
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<IEnumerable<PageRange^>>^ GetPageRangesAsync()
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract GetPageRangesAsync : unit -> Task<IEnumerable<PageRange^>>
[<DoesServiceRequestAttribute>]
override GetPageRangesAsync : unit -> Task<IEnumerable<PageRange^>>
```

VB  

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function GetPageRangesAsync
```

**Return Value**

Type:

```
System.Threading.Tasks.Task<IEnumerable<PageRange>>
```

A Task<TResult><TResult><TResult>(Of TResult) object that is an enumerable collection of type `PageRange` that represents the asynchronous operation.
See Also

GetPageRangesAsync_Overload
CloudPageBlob Class

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CloudPageBlob.

**GetPageRangesAsync Method**

- (CancellationToken)
- (CancellationToken)

**See Also**
Initiates an asynchronous operation to return a collection of page ranges and their starting and ending bytes.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<IEnumerable<PageRange>> GetPageRangesAsync(
        CancellationToken cancellationToken
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<IEnumerable<PageRange^>^>^ GetPageRangesAsync(
        CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract GetPageRangesAsync :
        cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override GetPageRangesAsync :
        cancellationToken:CancellationToken ->
```

VB  

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function GetPageRangesAsync
        cancellationToken As CancellationToken
) As Task(Of IEnumerable(Of PageRange))
```
See Also

GetPageRangesAsync_Overload
CloudPageBlob Class

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CloudPageBlob.GetPageRangesAsync Method

(Nullable<Int64>, Nullable<Int64>, AccessCondition, BlobRequestOptions, OperationContext)
(Nullable<Int64>, Nullable<Int64>, AccessCondition^, BlobRequestOptions^, OperationContext^)(Nullable<Int64>, Nullable<Int64>, AccessCondition, BlobRequestOptions, OperationContext)(Nullable(Of Int64), Nullable(Of Int64), AccessCondition, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to return a collection of page ranges and their starting and ending bytes.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
[DoesServiceRequestAttribute]
public virtual Task<IEnumerable<PageRange>> GetPageRangesAsync(  
    Nullable<long> offset,  
    Nullable<long> length,  
    AccessCondition accessCondition,  
    BlobRequestOptions options,  
    OperationContext operationContext
)
```

C++  
```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<IEnumerable<PageRange^>^>^ GetPageRangesAsync(  
    Nullable<long> offset,  
    Nullable<long> length,  
    AccessCondition^ accessCondition,  
    BlobRequestOptions^ options,  
    OperationContext^ operationContext
)
```

F#  
```fsharp
[<DoesServiceRequestAttribute>]
abstract GetPageRangesAsync :  
    offset:Nullable<int64> *  
    length:Nullable<int64> *  
    accessCondition:AccessCondition *  
    options:BlobRequestOptions *  
    operationContext:OperationContext -> Task<IEnumerable<PageRange>>
```
See Also

GetPageRangesAsync_Overload
CloudPageBlob Class

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CloudPageBlob...GetPageRangesAsync Method
(Nullable<Int64>, Nullable<Int64>,
AccessCondition, BlobRequestOptions, OperationContext,
CancellationToken)(Nullable<Int64>, Nullable<Int64>,
AccessCondition^, BlobRequestOptions^, OperationContext^,
CancellationToken)(Nullable<Int64>, Nullable<Int64>,
AccessCondition, BlobRequestOptions, OperationContext,
CancellationToken)(Nullable(Of Int64), Nullable(Of Int64),
AccessCondition, BlobRequestOptions, OperationContext,
CancellationToken)

See Also
Initiates an asynchronous operation to return a collection of page ranges and their starting and ending bytes.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
[DoesServiceRequestAttribute]
public virtual Task<IEnumerable<PageRange>> GetPageRangesAsync(
    Nullable<long> offset,
    Nullable<long> length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken)
```

C++  
```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<IEnumerable<PageRange^>>^ GetPageRangesAsync(
    Nullable<long>^ offset,
    Nullable<long>^ length,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken)
```

F#  
```fsharp
[<DoesServiceRequestAttribute>]
abstract GetPageRangesAsync :
    offset: Nullable<int64> *
    length: Nullable<int64> *
    accessCondition: AccessCondition *
    options: BlobRequestOptions *
    operationContext: OperationContext *
    cancellationToken: CancellationToken *
    cancellationToken: CancellationToken *
    -> Task<IEnumerable<PageRange>>
```
See Also

GetPageRangesAsync_Overload
CloudPageBlob Class

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<th>CloudPageBlob:::GetPageRangesDiffAsync Method (DateTimeOffset)(DateTimeOffset) (DateTimeOffset)(DateTimeOffset)</th>
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See Also
Initiates an asynchronous operation to return the collection of page ranges that differ between a specified snapshot and this object.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public Task<IEnumerable<PageDiffRange>> GetPageRangesDiffAsync(
    DateTimeOffset previousSnapshotTime
)
```

**C++**

```cpp
public:
    [DoesServiceRequestAttribute]
    Task<IEnumerable<PageDiffRange^>^>^ GetPageRangesDiffAsync(
        DateTimeOffset previousSnapshotTime
    )
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
member GetPageRangesDiffAsync :
    previousSnapshotTime:DateTimeOffset ->
    Task<IEnumerable<PageDiffRange>>
```

**VB**

```vb
<DoesServiceRequestAttribute>
Public Function GetPageRangesDiffAsync (previousSnapshotTime As DateTimeOffset) As Task(Of IEnumerable(Of PageDiffRange))
```

### Parameters

- **previousSnapshotTime**
See Also

GetPageRangesDiffAsync Overload
CloudPageBlob Class

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CloudPageBlob::GetPageRangesDiffAsync

Method (DateTimeOffset, CancellationToken)

See Also
Initiates an asynchronous operation to return the collection of page ranges that differ between a specified snapshot and this object.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public Task<IEnumerable<PageDiffRange>> GetPageRangesDiffAsync(
    DateTimeOffset previousSnapshotTime,
    CancellationToken cancellationToken)
```

C++

```c++
public:
[DoesServiceRequestAttribute]
Task<IEmployee<PageDiffRange^>^>^ GetPageRangesDiffAsync(
    DateTimeOffset previousSnapshotTime,
    CancellationToken cancellationToken)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
member GetPageRangesDiffAsync :
    previousSnapshotTime:DateTimeOffset *
    cancellationToken:CancellationToken ->
```

VB

```vbnet
<DoesServiceRequestAttribute>
Public Function GetPageRangesDiffAsync (    previousSnapshotTime As DateTimeOffset, cancellationToken As CancellationToken) As Task(Of IEnumerable(Of PageDiffRange))
```

Parameters
See Also

GetPageRangesDiffAsync Overload
CloudPageBlob Class

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CloudPageBlob::..GetPageRangesDiffAsync Method (DateTimeOffset, Nullable<Int64>, Nullable<Int64>, AccessCondition, BlobRequestOptions, OperationContext)(DateTimeOffset, Nullable<Int64>, Nullable<Int64>, AccessCondition^, BlobRequestOptions^, OperationContext^)(DateTimeOffset, Nullable<Int64>, Nullable<Int64>, AccessCondition, BlobRequestOptions, OperationContext)(DateTimeOffset, Nullable(Of Int64), Nullable(Of Int64), AccessCondition, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to return the collection of page ranges that differ between a specified snapshot and this object.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]  
public Task<IEnumerable<PageDiffRange>> GetPageRangesDiffAsync(  
    DateTimeOffset previousSnapshotTime,  
    Nullable<long> offset,  
    Nullable<long> length,  
    AccessCondition accessCondition,  
    BlobRequestOptions options,  
    OperationContext operationContext
)

C++  

public:  
[DoesServiceRequestAttribute]  
Task<IE numerable<PageDiffRange^>^>^ GetPageRangesDiffAsync(  
    DateTimeOffset previousSnapshotTime,  
    Nullable<long long> offset,  
    Nullable<long long> length,  
    AccessCondition^ accessCondition,  
    BlobRequestOptions^ options,  
    OperationContext^ operationContext
)

F#  

[<DoesServiceRequestAttribute>]  
member GetPageRangesDiffAsync :  
    previousSnapshotTime:DateTimeOffset *  
    offset:Nullable<int64> *  
    length:Nullable<int64> *  
    accessCondition:AccessCondition *  
    options:BlobRequestOptions *  
    operationContext:OperationContext *
See Also

GetPageRangesDiffAsync_Overload
CloudPageBlob Class

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CloudPageBlob:GetPageRangesDiffAsync
Method (DateTimeOffset, Nullable<Int64>, Nullable<Int64>, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(DateTimeOffset, Nullable<Int64>, Nullable<Int64>, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)(DateTimeOffset, Nullable(Of Int64), Nullable(Of Int64), AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to return the collection of page ranges that differ between a specified snapshot and this object.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

### C#

```csharp
[DoesServiceRequestAttribute]
public Task<IEnumerable<PageDiffRange>> GetPageRangesDiffAsync(
    DateTimeOffset previousSnapshotTime,
    Nullable<long> offset,
    Nullable<long> length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken)
```

### C++

```cpp
public:
[DoesServiceRequestAttribute]
Task<IEquatable<PageDiffRange^>^> GetPageRangesDiffAsync(
    DateTimeOffset previousSnapshotTime,
    Nullable<long long> offset,
    Nullable<long long> length,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken)
```

### F#

```fsharp
[<DoesServiceRequestAttribute>]
member GetPageRangesDiffAsync :
    previousSnapshotTime : DateTimeOffset *
    offset : Nullable<int64> *
    length : Nullable<int64> *
    accessCondition : AccessCondition *
    options : BlobRequestOptions *
    operationContext : OperationContext *
    cancellationToken : CancellationToken -> seq<PageDiffRange>
```
See Also

GetPageRangesDiffAsync Overload
CloudPageBlob Class

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<td>CloudPageBlob::..OpenWriteAsync Method</td>
<td>(Nullable&lt;Int64&gt;)(Nullable&lt;Int64&gt;)</td>
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</table>

See Also
Initiates an asynchronous operation to open a stream for writing to the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<CloudBlobStream> OpenWriteAsync(
    Nullable<long> size
)

C++
public:
[DoesServiceRequestAttribute]
virtual Task<CloudBlobStream^>^ OpenWriteAsync(
    Nullable<long long> size
)

F#
[<DoesServiceRequestAttribute>]
abstract OpenWriteAsync :
    size:Nullable<int64> -> Task<CloudBlobStream>
[<DoesServiceRequestAttribute>]
override OpenWriteAsync :
    size:Nullable<int64> -> Task<CloudBlobStream>

VB  
<DoesServiceRequestAttribute>
Public Overridable Function OpenWriteAsync (  
    size As Nullable(Of Long) 
) As Task(Of CloudBlobStream)
Remarks

Note that this method always makes a call to the Referenced topic '96b358e1dc8-463c-86fd-152b3890b6bc is not in the TOC, method under the covers.

Set the `StreamWriteSizeInBytes` property before calling this method to specify the block size to write, in bytes, ranging from between 16 KB and 4 MB inclusive.
See Also

OpenWriteAsync_Overload
CloudPageBlob Class

Return to top
CloudPageBlob::OpenWriteAsync Method
(Nullable<Int64>, AccessCondition,
BlobRequestOptions, OperationContext)(Nullable<Int64>,
AccessCondition^, BlobRequestOptions^, OperationContext^)
(Nullable<Int64>, AccessCondition, BlobRequestOptions,
OperationContext)(Nullable(Of Int64), AccessCondition,
BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to open a stream for writing to the blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<CloudBlobStream> OpenWriteAsync(
    Nullable<long> size,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<CloudBlobStream^>^ OpenWriteAsync(
    Nullable<long long> size,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract OpenWriteAsync : 
    size:Nullable<int64> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<CloudBlobStream>

[<DoesServiceRequestAttribute>]
override OpenWriteAsync : 
    size:Nullable<int64> *
```
Remarks

Note that this method always makes a call to the Referenced topic '96b3585e1dc8-463c-86fd-152b3890b6bc' is not in the TOC, method under the cover:

Set the StreamWriteSizeInBytes property before calling this method to specify the block size to write, in bytes, ranging from between 16 KB and 4 MB inclusive.
See Also

OpenWriteAsync_ Overload
CloudPageBlob Class

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CloudPageBlob:::OpenWriteAsync Method

(Nullable<Int64>, AccessCondition,
BlobRequestOptions, OperationContext, CancellationToken)
(Nullable<Int64>, AccessCondition^, BlobRequestOptions^,
OperationContext^, CancellationToken)(Nullable<Int64>,
AccessCondition, BlobRequestOptions, OperationContext,
CancellationToken)(Nullable(Of Int64), AccessCondition,
BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to open a stream for writing to the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task<CloudBlobStream> OpenWriteAsync(
    Nullable<long> size,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken)
```

**C++**

```cpp
public:
    [DoesServiceRequestAttribute]
    virtual Task<CloudBlobStream^>^ OpenWriteAsync(
        Nullable<long long> size,
        AccessCondition^ accessCondition,
        BlobRequestOptions^ options,
        OperationContext^ operationContext,
        CancellationToken cancellationToken)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract OpenWriteAsync :
    size:Nullable<int64> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken
```
Remarks

Note that this method always makes a call to the Referenced topic '96b35851dc8-463c-86fd-152b3890b6bc' is not in the TOC, method under the covers.

Set the StreamWriteSizeInBytes property before calling this method to specify the block size to write, in bytes, ranging from between 16 KB and 4 MB inclusive.
See Also

OpenWriteAsync_Overload
CloudPageBlob Class

Return to top
CloudPageBlob..::..OpenWriteAsync Method
(Nullable<Int64>, CancellationToken)
(Nullable<Int64>, CancellationToken)(Nullable<Int64>,
CancellationToken)(Nullable(Of Int64), CancellationToken)

See Also
Initiates an asynchronous operation to open a stream for writing to the blob.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<CloudBlobStream> OpenWriteAsync(
    Nullable<long> size,
    CancellationToken cancellationToken
)

C++
public:
[DoesServiceRequestAttribute]
virtual Task<CloudBlobStream^>^ OpenWriteAsync(
    Nullable<long long> size,
    CancellationToken cancellationToken
)

F#  
[<DoesServiceRequestAttribute>]
abstract OpenWriteAsync :
    size:Nullable<int64> *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override OpenWriteAsync :
    size:Nullable<int64> *
    cancellationToken:CancellationToken ->

VB
<DoesServiceRequestAttribute>
Public Overridable Function OpenWriteAsync ( 
Remarks

Note that this method always makes a call to the Referenced topic '96b358e1dc8-463c-86fd-152b3890b6bc' is not in the TOC, method under the covers.

Set the StreamWriteSizeInBytes property before calling this method to specify the block size to write, in bytes, ranging from between 16 KB and 4 MB inclusive.
See Also

OpenWriteAsync_Overload
CloudPageBlob Class

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See Also
Initiates an asynchronous operation to resize the page blob to the specified size.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task ResizeAsync(
    long size
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ ResizeAsync(
    long long size
)
```

F#  

```fshar
[<DoesServiceRequestAttribute>]
abstract ResizeAsync :
    size:int64 -> Task
[<DoesServiceRequestAttribute>]
override ResizeAsync :
    size:int64 -> Task
```

VB  

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function ResizeAsync (  
    size As Long
) As Task
```
See Also

- ResizeAsync Overload
- CloudPageBlob Class

Return to top
CloudPageBlob:::..ResizeAsync Method (Int64, AccessCondition, BlobRequestOptions, OperationContext)(Int64, AccessCondition^, BlobRequestOptions^, OperationContext^)(Int64, AccessCondition, BlobRequestOptions, OperationContext)(Int64, AccessCondition, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to resize the page blob to the specified size.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task ResizeAsync(
    long size,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ ResizeAsync(
    long long size,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#

[<DoesServiceRequestAttribute>]
abstract ResizeAsync :
    size:int64 *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task

[<DoesServiceRequestAttribute>]
override ResizeAsync :
    size:int64 *
See Also

ResizeAsync_Overload
CloudPageBlob Class

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CloudPageBlob:::..ResizeAsync Method (Int64, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(Int64, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)(Int64, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken) (Int64, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to resize the page blob to the specified size.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task ResizeAsync(
    long size,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ ResizeAsync(
    long long size,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract ResizeAsync :
    size:int64 *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken
```
See Also

- ResizeAsync_Overload
- CloudPageBlob Class

Return to top
CloudPageBlob...ResizeAsync Method (Int64, CancellationToken)(Int64, CancellationToken)(Int64, CancellationToken)
See Also
Initiates an asynchronous operation to resize the page blob to the specified size.

Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task ResizeAsync(
    long size,
    CancellationToken cancellationToken
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task ResizeAsync(
    long long size,
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract ResizeAsync :
    size:int64 *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override ResizeAsync :
    size:int64 *
    cancellationToken:CancellationToken ->
```

VB  

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function ResizeAsync (
See Also

ResizeAsync Overload
CloudPageBlob Class

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CloudPageBlob:::...SetSequenceNumberAsync
Method (SequenceNumberAction, Nullable<Int64>)
(SequenceNumberAction, Nullable<Int64>)
(SequenceNumberAction, Nullable<Int64>)
(SequenceNumberAction, Nullable(Of Int64))
See Also
Initiates an asynchronous operation to set the page blob's sequence number.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

#### C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task SetSequenceNumberAsync(
    SequenceNumberAction sequenceNumberAction,
    Nullable<long> sequenceNumber
)
```

#### C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ SetSequenceNumberAsync(
    SequenceNumberAction sequenceNumberAction,
    Nullable<long> sequenceNumber
)
```

#### F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract SetSequenceNumberAsync :
    sequenceNumberAction:SequenceNumberAction
    sequenceNumber:Nullable<int64> -> Task

[<DoesServiceRequestAttribute>]
override SetSequenceNumberAsync :
    sequenceNumberAction:SequenceNumberAction
    sequenceNumber:Nullable<int64> -> Task
```

#### VB

```vb
<DoesServiceRequestAttribute>
Public Overridable Function SetSequenceNumberAsync
```
See Also

SetSequenceNumberAsync Overload
CloudPageBlob Class

Return to top
CloudPageBlob::SetSequenceNumberAsync Method (SequenceNumberAction, Nullable<Int64>, AccessCondition, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to set the page blob's sequence number.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/Azure/azure-storage-net)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task SetSequenceNumberAsync(
    SequenceNumberAction sequenceNumberAction,
    Nullable<long> sequenceNumber,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++

public:

[DoesServiceRequestAttribute]
virtual Task^ SetSequenceNumberAsync(
    SequenceNumberAction sequenceNumberAction,
    Nullable<long long> sequenceNumber,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#

[<DoesServiceRequestAttribute>]
abstract SetSequenceNumberAsync :
    sequenceNumberAction:SequenceNumberAction
    sequenceNumber:Nullable<int64> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task
See Also

SetSequenceNumberAsync Overload
CloudPageBlob Class

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CloudPageBlob::...SetSequenceNumberAsync

C# C++ F# VB

Method (SequenceNumberAction, Nullable<Int64>, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(SequenceNumberAction, Nullable<Int64>, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)
(SequenceNumberAction, Nullable<Int64>, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(SequenceNumberAction, Nullable(Of Int64), AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to set the page blob's sequence number.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task SetSequenceNumberAsync(
    SequenceNumberAction sequenceNumberAction,
    Nullable<long> sequenceNumber,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ SetSequenceNumberAsync(
    SequenceNumberAction sequenceNumberAction,
    Nullable<long> sequenceNumber,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract SetSequenceNumberAsync :
    sequenceNumberAction:SequenceNumberAction
    sequenceNumber:Nullable<int64>
    accessCondition:AccessCondition
    *
    options:BlobRequestOptions
    operationContext:OperationContext
    cancellationToken:CancellationToken
    -> Task
See Also

SetSequenceNumberAsync Overload
CloudPageBlob Class

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CloudPageBlob::...SetSequenceNumberAsync Method (SequenceNumberAction, Nullable<Int64>, CancellationToken)

See Also
Initiates an asynchronous operation to set the page blob's sequence number.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task SetSequenceNumberAsync(
    SequenceNumberAction sequenceNumberAction,
    Nullable<long> sequenceNumber,
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ SetSequenceNumberAsync(
    SequenceNumberAction sequenceNumberAction,
    Nullable<long long> sequenceNumber,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract SetSequenceNumberAsync :
    sequenceNumberAction:SequenceNumberAction
    sequenceNumber:Nullable<int64>  *
    cancellationToken:CancellationTokenToken ->

[<DoesServiceRequestAttribute>]
override SetSequenceNumberAsync :
    sequenceNumberAction:SequenceNumberAction
    sequenceNumber:Nullable<int64>  *
    cancellationToken:CancellationTokenToken ->
```
See Also

SetSequenceNumberAsync Overload
CloudPageBlob Class

Return to top
CloudPageBlob::StartCopyAsync Method

(CloudPageBlob)(CloudPageBlob^)(CloudPageBlob)

See Also
Initiates an asynchronous operation to start copying another blob's contents, properties, and metadata to this page blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    CloudPageBlob source
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ StartCopyAsync(
    CloudPageBlob^ source
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract StartCopyAsync :
    source:CloudPageBlob -> Task<string>
[<DoesServiceRequestAttribute>]
override StartCopyAsync :
    source:CloudPageBlob -> Task<string>
```

VB

```vb
<DoesServiceRequestAttribute>
Public Overridable Function StartCopyAsync (  
    source As CloudPageBlob  
) As Task(Of String)
```
See Also

StartCopyAsync_Overload
CloudPageBlob Class

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CloudPageBlob:::StartCopyAsync Method

(CloudPageBlob, AccessCondition, AccessCondition, BlobRequestOptions, OperationContext)

(CloudPageBlob^, AccessCondition^, AccessCondition^, BlobRequestOptions^, OperationContext^)

(CloudPageBlob, AccessCondition, AccessCondition, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to start copying another blob's contents, properties, and metadata to this page blob.

Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    CloudPageBlob source,
    AccessCondition sourceAccessCondition,
    AccessCondition destAccessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ StartCopyAsync(
    CloudPageBlob^ source,
    AccessCondition^ sourceAccessCondition,
    AccessCondition^ destAccessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#

[<DoesServiceRequestAttribute>]
abstract StartCopyAsync :
    source:CloudPageBlob *
    sourceAccessCondition:AccessCondition
    destAccessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<string>
See Also

StartCopyAsync_Overload
CloudPageBlob Class

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CloudPageBlob.:..StartCopyAsync Method

(CloudPageBlob, AccessCondition, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to start copying another blob's contents, properties, and metadata to this page blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    CloudPageBlob source,
    AccessCondition sourceAccessCondition,
    AccessCondition destAccessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<String^> StartCopyAsync(
    CloudPageBlob^ source,
    AccessCondition^ sourceAccessCondition,
    AccessCondition^ destAccessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract StartCopyAsync :
    source: CloudPageBlob *
    sourceAccessCondition: AccessCondition
    destAccessCondition: AccessCondition *
    options: BlobRequestOptions
    operationContext: OperationContext
    cancellationToken: CancellationToken -> Task<string>
```
See Also

StartCopyAsync_Overload
CloudPageBlob Class

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CloudPageBlob::StartCopyAsync Method
(CloudPageBlob, CancellationToken)
(CloudPageBlob^, CancellationToken)
(CloudPageBlob, CancellationToken)

See Also
Initiates an asynchronous operation to start copying another blob's contents, properties, and metadata to this page blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#
[DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    CloudPageBlob source,
    CancellationToken cancellationToken
)

C++
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ StartCopyAsync(
    CloudPageBlob^ source,
    CancellationToken cancellationToken
)

F#
[<DoesServiceRequestAttribute>]
abstract StartCopyAsync :
    source:CloudPageBlob *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override StartCopyAsync :
    source:CloudPageBlob *
    cancellationToken:CancellationToken ->

VB
<DoesServiceRequestAttribute>
Public Overridable Function StartCopyAsync (
See Also

StartCopyAsync Overload
CloudPageBlob Class

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CloudPageBlob..:::.UploadFromByteArrayAsync


See Also
Initiates an asynchronous operation to upload the contents of a byte array to a page blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task UploadFromByteArrayAsync(
    byte[] buffer,
    int index,
    int count
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task UploadFromByteArrayAsync(
    array<unsigned char>^ buffer,
    int index,
    int count
)

F#

[<DoesServiceRequestAttribute>]
abstract UploadFromByteArrayAsync :
    buffer:byte[] *
    index:int *
    count:int -> Task

[<DoesServiceRequestAttribute>]
override UploadFromByteArrayAsync :
    buffer:byte[] *
    index:int *
    count:int -> Task
See Also

UploadFromByteArrayAsync_Overload
CloudPageBlob Class

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See Also
Initiates an asynchronous operation to upload the contents of a byte array to a page blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadFromByteArrayAsync(
    byte[] buffer,
    int index,
    int count,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromByteArrayAsync(
    array<unsigned char>^ buffer,
    int index,
    int count,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadFromByteArrayAsync :
    buffer:byte[] *
    index:int *
    count:int *
```
See Also

UploadFromByteArrayAsync_Overload
CloudPageBlob Class

Return to top
CloudPageBlob:::UploadFromByteArrayAsync Method (Byte[], Int32, Int32, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to upload the contents of a byte array to a page blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadFromByteArrayAsync(
    byte[] buffer,
    int index,
    int count,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++  

```cpp
public:
    [DoesServiceRequestAttribute]
    virtual Task^ UploadFromByteArrayAsync(
        array<unsigned char>^ buffer,
        int index,
        int count,
        AccessCondition^ accessCondition,
        BlobRequestOptions^ options,
        OperationContext^ operationContext,
        CancellationToken cancellationToken
    )
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadFromByteArrayAsync :
    buffer:byte[] *
```
See Also

UploadFromByteArrayAsync_Overload
CloudPageBlob Class

Return to top
CloudPageBlob...UploadFromByteArrayAsync

Method (Byte[], Int32, Int32, CancellationToken)


See Also
Initiates an asynchronous operation to upload the contents of a byte array to a page blob.

Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadFromByteArrayAsync(
    byte[] buffer,
    int index,
    int count,
    CancellationToken cancellationToken
)
```

C++  

```c++
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromByteArrayAsync(
    array<unsigned char>^ buffer,
    int index,
    int count,
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadFromByteArrayAsync :
    buffer:byte[] *
    index:int *
    count:int *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override UploadFromByteArrayAsync :
    buffer:byte[] *
```
See Also

UploadFromByteArrayAsync_Overload
CloudPageBlob Class

Return to top
CloudPageBlob:::UploadFromFileAsync Method (String)(String^)(String)(String)

See Also
Initiates an asynchronous operation to upload a file to a page blob. If the blob already exists, it will be overwritten.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task UploadFromFileAsync(
    string path
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromFileAsync(
    String^ path
)

F#

[<DoesServiceRequestAttribute>]
abstract UploadFromFileAsync : path:string -> Task
[<DoesServiceRequestAttribute>]
override UploadFromFileAsync : path:string -> Task

VB

<DoesServiceRequestAttribute>
Public Overridable Function UploadFromFileAsync(
    path As String
) As Task
See Also

UploadFromFileAsync_Overload
CloudPageBlob Class

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CloudPageBlob:::UploadFromFileAsync Method

C#

++

F#

VB

See Also
Initiates an asynchronous operation to upload a file to a page blob. If the blob already exists, it will be overwritten.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

#### C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadFromFileAsync(
    string path,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext)
```

#### C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromFileAsync(
    String^ path,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

#### F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadFromFileAsync :
    path:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task

[<DoesServiceRequestAttribute>]
override UploadFromFileAsync :
    path:string *
See Also

UploadFromFileAsync_Overload
CloudPageBlob Class

Return to top
CloudPageBlob::..UploadFromFileAsync Method
(String, AccessCondition, BlobRequestOptions,
OperationContext, CancellationToken)(String^,
AccessCondition^, BlobRequestOptions^, OperationContext^,
CancellationToken)(String, AccessCondition,
BlobRequestOptions, OperationContext, CancellationToken)
(String, AccessCondition, BlobRequestOptions,
OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to upload a file to a page blob. If the blob already exists, it will be overwritten.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadFromFileAsync(
    string path,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromFileAsync(
    String^ path,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadFromFileAsync :
    path:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken -> Task
```
See Also

UploadFromFileAsync Overload
CloudPageBlob Class

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CloudPageBlob.

UploadFromFileAsync Method

C# C++ F# VB

(String, CancellationToken)(String^,
CancellationToken)(String, CancellationToken)(String,
CancellationToken)

See Also
Initiates an asynchronous operation to upload a file to a page blob. If the blob already exists, it will be overwritten.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadFromFileAsync(
    string path,
    CancellationToken cancellationToken)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromFileAsync(
    String^ path,
    CancellationToken cancellationToken)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadFromFileAsync :
    path:string *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override UploadFromFileAsync :
    path:string *
    cancellationToken:CancellationToken ->
```

**VB**

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function UploadFromFileAsync
```
See Also

UploadFromFileAsync Overload
CloudPageBlob Class

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See Also
Initiates an asynchronous operation to upload a stream to a page blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source
)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(
    Stream^ source
)

F#  

[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync : 
    source:Stream -> Task
[<DoesServiceRequestAttribute>]
override UploadFromStreamAsync : 
    source:Stream -> Task

VB  

<DoesServiceRequestAttribute>
Public Overridable Function UploadFromStreamAsync(
    source As Stream
) As Task
See Also

UploadFromStreamAsync Overload
CloudPageBlob Class

Return to top
CloudPageBlob:::UploadFromStreamAsync

Method (Stream, AccessCondition,
BlobRequestOptions, OperationContext)(Stream^,
AccessCondition^, BlobRequestOptions^, OperationContext^)
(Stream, AccessCondition, BlobRequestOptions,
OperationContext)(Stream, AccessCondition, 
BlobRequestOptions, OperationContext)
Initiates an asynchronous operation to upload a stream to a page blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://aka.ms/)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(
    Stream^ source,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>] abstract UploadFromStreamAsync : 
    source:Stream -> accessCondition:AccessCondition -> options:BlobRequestOptions -> 
    operationContext:OperationContext -> Task

[<DoesServiceRequestAttribute>]
override UploadFromStreamAsync : 
    source:Stream -> accessCondition:AccessCondition -> options:BlobRequestOptions -> 
    operationContext:OperationContext -> Task
```
See Also

UploadFromStreamAsync Overload
CloudPageBlob Class

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CloudPageBlob::UploadFromStreamAsync Method (Stream, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
See Also
Initiates an asynchronous operation to upload a stream to a page blob.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(
    Stream^ source,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#  
[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync :
    source:Stream *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken *
See Also

UploadFromStreamAsync_Overload
CloudPageBlob Class

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CloudPageBlob::UploadFromStreamAsync Method (Stream, CancellationToken)(Stream^, CancellationToken)(Stream, CancellationToken) (Stream, CancellationToken)

See Also
Initiates an asynchronous operation to upload a stream to a page blob.

Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source,
    CancellationToken cancellationToken
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(
    Stream^ source,
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync : '
    source:Stream *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override UploadFromStreamAsync : '
    source:Stream *
    cancellationToken:CancellationToken ->
```

VB  

```vb
<DoesServiceRequestAttribute>
Public Overridable Function UploadFromStreamAsyn```
See Also

UploadFromStreamAsync_Overload
CloudPageBlob Class

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CloudBlob.CloudPageBlob::UploadFromStreamAsync(UploadFromStreamAsync(Stream, Int64)(Stream^, Int64)(Stream, Int64)

See Also
Initiates an asynchronous operation to upload a stream to a page blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source,
    long length
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(
    Stream^ source,
    long long length
)

F#

[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync : 
    source:Stream * 
    length:int64 -> Task
[<DoesServiceRequestAttribute>]
override UploadFromStreamAsync : 
    source:Stream * 
    length:int64 -> Task

VB

<DoesServiceRequestAttribute>
Public Overridable Function UploadFromStreamAs
See Also

UploadFromStreamAsync_Overload
CloudPageBlob Class

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CloudPageBlob::UploadFromStreamAsync

Method (Stream, Int64, AccessCondition, BlobRequestOptions, OperationContext)
(Stream^, Int64, AccessCondition^, BlobRequestOptions^, OperationContext^)
(Stream, Int64, AccessCondition, BlobRequestOptions, OperationContext)(Stream, Int64, AccessCondition, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to upload a stream to a page blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source,
    long length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(
    Stream^ source,
    long long length,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#  

[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync :
    source:Stream *
    length:int64 *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
See Also

UploadFromStreamAsync_Overload
CloudPageBlob Class

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See Also
Initiates an asynchronous operation to upload a stream to a page blob.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source,
    long length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(
    Stream^ source,
    long long length,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken)

F#

[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync :
    source:Stream *
    length:int64 *
    accessCondition:AccessCondition *
See Also

UploadFromStreamAsync_Overload
CloudPageBlob Class

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CloudPageBlob::UploadFromStreamAsync

Method (Stream, Int64, CancellationToken)
(Stream^, Int64, CancellationToken)(Stream, Int64, CancellationToken)(Stream, Int64, CancellationToken)

See Also
Initiates an asynchronous operation to upload a stream to a page blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source,
    long length,
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task UploadFromStreamAsync(
    Stream^ source,
    long long length,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync :
    source:Stream *
    length:int64 *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override UploadFromStreamAsync :
    source:Stream *
    length:int64 *
    cancellationToken:CancellationToken ->
```
See Also

UploadFromStreamAsync_Overload
CloudPageBlob Class

Return to top
CloudPageBlob::WritePagesAsync Method
(Stream, Int64, String)(Stream^, Int64, String^)
(Stream, Int64, String)(Stream, Int64, String)

See Also
Initiates an asynchronous operation to write pages to a page blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task WritePagesAsync(
    Stream pageData,
    long startOffset,
    string contentMD5
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ WritePagesAsync(
    Stream^ pageData,
    long long startOffset,
    String^ contentMD5
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract WritePagesAsync :
    pageData:Stream *
    startOffset:int64 *
    contentMD5:string -> Task

[<DoesServiceRequestAttribute>]
override WritePagesAsync :
    pageData:Stream *
    startOffset:int64 *
    contentMD5:string -> Task
```
Remarks

Clients may send the Content-MD5 header for a given Write Pages operation as a means to ensure transactional integrity over the wire. The `contentMD5` parameter permits clients who already have access to a pre-computed MD5 value for a given byte range to provide it. If the `P:BlobRequestOptions.UseTransactionalMd5` Referenced topic's target id should not be empty, Article id: 978f823f-86e3-4c29-ac10-8c3b7fc78e60, link: `P:BlobRequestOptions.UseTransactionalMd5`, property is set to `true` and the `contentMD5` parameter is set to `null`, then the client library will calculate the MD5 value internally.
See Also

- WritePagesAsync Overload
- CloudPageBlob Class

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CloudPageBlob:::WritePagesAsync Method
(Stream, Int64, String, AccessCondition,
BlobRequestOptions, OperationContext)
(Stream^, Int64,
String^, AccessCondition^, BlobRequestOptions^,
OperationContext^)
(Stream, Int64, String, AccessCondition,
BlobRequestOptions, OperationContext)
(Stream, Int64,
String, AccessCondition, BlobRequestOptions,
OperationContext)

See Also
Initiates an asynchronous operation to write pages to a page blob.

Syntax

C#  

[DoesServiceRequestAttribute]

public virtual Task WritePagesAsync(
    Stream pageData,
    long startOffset,
    string contentMD5,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++  

public:

[DoesServiceRequestAttribute]

virtual Task^ WritePagesAsync(
    Stream^ pageData,
    long long startOffset,
    String^ contentMD5,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#  

[<DoesServiceRequestAttribute>]

abstract WritePagesAsync :
    pageData:Stream *
    startOffset:int64 *
    contentMD5:string *
Remarks

Clients may send the Content-MD5 header for a given Write Pages operation as a means to ensure transactional integrity over the wire. The contentMD5 parameter permits clients who already have access to a pre-computed MD5 value for a given byte range to provide it. If the `P:BlobRequestOptions.UseTransactionalMd5` property is set to `true` and the contentMD5 parameter is set to `null`, then the client library will calculate the MD5 value internally.
See Also

WritePagesAsync Overload
CloudPageBlob Class

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CloudPageBlob::WritePagesAsync Method (Stream, Int64, String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
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(Stream, Int64, String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(Stream, Int64, String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to write pages to a page blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task WritePagesAsync(
    Stream pageData,
    long startOffset,
    string contentMD5,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ WritePagesAsync(
    Stream^ pageData,
    long long startOffset,
    String^ contentMD5,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract WritePagesAsync : 
    pageData:Stream * 
    startOffset:int64 * 
    contentMD5:string * 
    accessCondition:AccessCondition * 
```
Remarks

Clients may send the Content-MD5 header for a given Write Pages operation as a means to ensure transactional integrity over the wire. The contentMD5 parameter permits clients who already have access to a pre-computed MD5 value for a given byte range to provide it. If the P:BlobRequestOptions.UseTransactionalMd5Referenced topic's target id should not be empty. Article id: ad21a784-cd8f-41a0-96a0-9e5c54be39c6, link: P:BlobRequestOptions.UseTransactionalMd5, property is set to true and the contentMD5 parameter is set to null, then the client library will calculate the MD5 value internally.
See Also

WritePagesAsync Overload  
CloudPageBlob Class  

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CloudPageBlob:::WritePagesAsync Method
(Stream, Int64, String, CancellationToken)
(Stream^, Int64, String^, CancellationToken)(Stream, Int64, String, CancellationToken)(Stream, Int64, String, CancellationToken)

See Also
Initiates an asynchronous operation to write pages to a page blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task WritePagesAsync(
    Stream pageData,
    long startOffset,
    string contentMD5,
    CancellationToken cancellationToken
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ WritePagesAsync(
    Stream^ pageData,
    long long startOffset,
    String^ contentMD5,
    CancellationToken cancellationToken
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract WritePagesAsync :
    pageData:Stream *
    startOffset:int64 *
    contentMD5:string *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override WritePagesAsync :
    pageData:Stream *
```
Remarks

Clients may send the Content-MD5 header for a given Write Pages operation as a means to ensure transactional integrity over the wire. The contentMD5 parameter permits clients who already have access to a pre-computed MD5 value for a given byte range to provide it. If the `P:BlobRequestOptions.UseTransactionalMd5` referenced topic's target id should not be empty. Article id: 2ce5402d-f64d-4bfb-9ca4-f6eb4693de22, link: `P:BlobRequestOptions.UseTransactionalMd5`, property is set to `true` and the contentMD5 parameter is set to `null`, then the client library will calculate the MD5 value internally.
See Also

WritePagesAsync Overload
CloudPageBlob Class

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ContainerResultSegment.ContinuationToken

Property ContainerResultSegment::ContinuationToken
Property ContainerResultSegment.ContinuationToken
Property ContainerResultSegment.ContinuationToken

See Also
Gets the continuation token used to retrieve the next segment of CloudBlobContainer results.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://msdn.microsoft.com){target="_blank"

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public BlobContinuationToken ContinuationToken
```

C++  
```cpp
public:

property BlobContinuationToken^ ContinuationToken
    
    BlobContinuationToken^ get();
    
    private: void set(BlobContinuationToken^ value);
```

F#  
```fsharp
member ContinuationToken : BlobContinuationToken
```

VB  
```vbnet
Public Property ContinuationToken As BlobContinuationToken
    Get
    Private Set
End Property
```

Property Value

Type:  


A `BlobContinuationToken` object.
See Also

ContainerResultSegment Class  

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</table>

Gets an enumerable collection of `CloudBlobContainer` results.


Syntax

C#

```csharp
public IEnumerable<CloudBlobContainer> Results {
    get;
}
```

C++

```cpp
public:
    property IEnumerable<CloudBlobContainer^>^ Results {
        IEnumerable<CloudBlobContainer^>^ get();
        private: void set(IEnumerable<CloudBlobContainer^>^ value);
    }
```

F#

```fsharp
member Results : IEnumerable<CloudBlobContainer>
```

VB

```vbnet
Public Property Results As IEnumerable(Of CloudBlobContainer)
    Get
    Private Set
End Property
```

Property Value

Type:

```csharp
System.Collections.Generic.IEnumerable<CloudBlobContainer>
```
An enumerable collection of `CloudBlobContainer` objects.
See Also

ContainerResultSegment Class

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CopyState Constructor ()()()
Syntax

C#
public CopyState()

C++
public:
CopyState()

F#
new : unit -> CopyState

VB
Public Sub New
See Also

CopyState Class

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See Also
Gets the number of bytes copied in the operation so far.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public Nullable<long> BytesCopied { get; internal:
```

C++  
```cpp
public:
property Nullable<long long> BytesCopied {
    Nullable<long long> get();
    internal: void set(Nullable<long long>
```

F#  
```fsharp
member BytesCopied : Nullable<int64> with get,
```

VB  
```vbnet
Public Property BytesCopied As Nullable(Of Long
```

Property Value

Type:  
System.Nullable<Int64> System::Nullable<Int64> System.Nullable<Int64>

The number of bytes copied in the operation so far, or null.
See Also

CopyState Class

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See Also
Gets the time the copy operation completed, and indicates whether completion was due to a successful copy, the cancelling of the operation, or a failure.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public Nullable<DateTimeOffset> CompletionTime {
    get;
}
```

C++  
```cpp
public:
    Nullable<DateTimeOffset> CompletionTime {
        Nullable<DateTimeOffset> get();
        internal: void set(Nullable<DateTimeOffset> value);
    }
```

F#  
```fsharp
member CompletionTime : Nullable<DateTimeOffset>
```

VB  
```vbnet
Public Property CompletionTime As Nullable(Of DateTimeOffset)
    Get
    Friend Set
End Property
```

Property Value

Type:  
`System.Nullable<DateTimeOffset>`  
A DateTimeOffset containing the completion time, or `null` if the operation has not completed.
See Also

CopyState Class

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See Also
Gets the ID of the copy operation.

Syntax

C#

```csharp
public string CopyId { get; internal set; }
```

C++

```cpp
public:
property String^ CopyId {
  String^ get();
  internal: void set(String^ value);
}
```

F#

```fsharp
member CopyId : string with get, internal set
```

VB

```vbnet
Public Property CopyId As String
  Get
  Friend Set
End Property
```

Property Value

Type: `System.String` `System::String` `System.String`
A copy ID string.
See Also

CopyState Class

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CopyState::Source Property

See Also
Gets the source URI of a copy operation.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
public Uri Source { get; internal set; }
```

**C++**

```cpp
public:
property Uri^ Source {
    Uri^ get();
    internal: void set(Uri^ value);
}
```

**F#**

```fsharp
member Source : Uri with get, internal set
```

**VB**

```vbnet
Public Property Source As Uri
    Get
    Friend Set
End Property
```

### Property Value

Type: System.Uri\ System::Uri\ System.Uri\ System.Uri
A Uri indicating the source of a copy operation, or `null`. 
See Also

CopyState Class

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See Also
Gets the status of the copy operation.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
public CopyStatus Status { get; internal set; }
```

**C++**

```cpp
public:
property CopyStatus Status {
    CopyStatus get();
    internal: void set(CopyStatus value);
}
```

**F#**

```fsharp
member Status : CopyStatus with get, internal set
```

**VB**

```vbnet
Public Property Status As CopyStatus
    Get
    Friend Set
End Property
```

### Property Value

Type: 


A `CopyStatus` enumeration indicating the status of the operation.
See Also

CopyState Class

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</table>
Gets the description of the current status, if any.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public string StatusDescription { get; internal

C++  
public:
property String^ StatusDescription {
    String^ get();
    internal: void set(String^ value);
}

F#  
member StatusDescription : string with get, int

VB  
Public Property StatusDescription As String
    Get
    Friend Set
End Property

Property Value

Type: System.String System::String^ System.String System.String
A status description string, or null.
See Also

CopyState Class

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See Also:
Gets the total number of bytes in the source of the copy.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public Nullable<long> TotalBytes { get; internal:
```  

C++  
```c++
public:
property Nullable<long long> TotalBytes {
    Nullable<long long> get();
    internal: void set(Nullable<long long>
}
```  

F#  
```fsharp
member TotalBytes : Nullable<int64> with get, i
```  

VB  
```vbnet
Public Property TotalBytes As Nullable(Of Long)
    Get
    Friend Set
End Property
```  

Property Value

Type:

`System.Nullable<Int64> System::Nullable<Int64> System.Nullable<Int64>`

The number of bytes in the source, or `null`. 
See Also

CopyState Class

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</tr>
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Syntax

C#

```csharp
public ListBlockItem()
```

C++

```cpp
public:
ListBlockItem()
```

F#

```fsharp
new : unit -> ListBlockItem
```

VB

```vbnet
Public Sub New
```
See Also

ListBlockItem Class

Return to top
ListBlockItem.Committed
Property

See Also
Gets a value indicating whether or not the block has been committed.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
public bool Committed { get; internal set; }
```

**C++**

```cpp
public:
property bool Committed {
    bool get();
    internal: void set(bool value);
}
```

**F#**

```fsharp
member Committed : bool with get, internal set
```

**VB**

```vbnet
Public Property Committed As Boolean
    Get
    Friend Set
End Property
```

### Property Value

Type: `System.Boolean`  
`true` if the block has been committed; otherwise, `false`. 
See Also

ListBlockItem Class

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Gets the size of block in bytes.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#
```csharp
public long Length { get; internal set; }
```

C++
```cpp
public:
property long long Length {
    long long get();
    internal: void set(long long value);
}
```

F#
```fsharp
member Length : int64 with get, internal set
```

VB
```vbnet
Public Property Length As Long
    Get
        Friend Set
    End Property
```

Property Value

Type: `System.Int64`<br>The block size.
See Also

ListBlockItem Class

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See Also
Gets the name of the block.

Syntax

C#  

```csharp
public string Name { get; internal set; }
```

C++  

```cpp
public:
property String^ Name {
    String^ get();
    internal: void set(String^ value);
}
```

F#  

```fsharp
member Name : string with get, internal set
```

VB  

```vbnet
Public Property Name As String
    Get
        Friend Set
    End Property
```

Property Value

Type: **System.String**

The block name.
See Also

ListBlockItem Class

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<td>(Int64, Int64, Boolean)</td>
<td>(Int64, Int64, Boolean)</td>
<td>(Int64, Int64, Boolean)</td>
<td>(Int64, Int64, Boolean)</td>
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</table>

See Also
Initializes a new instance of the `PageDiffRange` class.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public PageDiffRange(
    long start,
    long end,
    bool isCleared
)
```

C++

```cpp
public:
PageDiffRange(
    long long start,
    long long end,
    bool isCleared
)
```

F#

```fsharp
new :
    start:int64 *
    end:int64 *
    isCleared:bool -> PageDiffRange
```

VB

```vb
Public Sub New (
    start As Long,
    end As Long,
    isCleared As Boolean
)
```
See Also

PageDiffRange Class

Return to top
PageRange.EndOffset

Property PageRange::EndOffset

PageRange.EndOffset Property

See Also
Gets the ending offset of the page range.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public long EndOffset { get; internal set; }
```

C++

```cpp
public:
property long long EndOffset {
    long long get();
    internal: void set(long long value);
}
```

F#

```fsharp
member EndOffset : int64 with get, internal set
```

VB

```vbnet
Public Property EndOffset As Long
    Get
        Friend Set
    End Property
```

Property Value

Type: System.Int64

The ending offset.
See Also

PageRange Class

Return to top
PageDiffRange.IsClearedPageRange
Property PageDiffRange::IsClearedPageRange
Property PageDiffRange.IsClearedPageRange
See Also
True if the page range is a cleared range, false otherwise.

Syntax

C#:
```csharp
public bool IsClearedPageRange { get; internal
```

C++:
```cpp
public:
property bool IsClearedPageRange {
    bool get();
    internal: void set(bool value);
}
```

F#:
```fsharp
member IsClearedPageRange : bool with get, inte
```

VB:
```vb
Public Property IsClearedPageRange As Boolean
    Get
    Friend Set
End Property
```

Property Value

See Also

PageDiffRange Class

Return to top
PageRange::StartOffset Property

See Also
Gets the starting offset of the page range.

Syntax

C#  
public long StartOffset { get; internal set; }

C++  
public:  
property long long StartOffset {  
    long long get();  
    internal: void set(long long value);  
}

F#  
member StartOffset : int64 with get, internal set

VB  
Public Property StartOffset As Long  
    Get  
    Friend Set  
End Property

Property Value

Type: System.Int64System::Int64System.Int64System.Int64
The starting offset.
See Also

PageRange Class

Return to top
PageRange..::.ToString Method (0000)  

See Also
Returns the content of the page range as a string.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

public override string ToString()

C++

public:
    virtual String^ ToString() override

F#

override ToString : unit -> string

VB

Public Overrides Function ToString As String

Return Value


The content of the page range.
See Also

PageRange Class

Return to top
PageRange Constructor (Int64, Int64)(Int64, Int64) C++ F# VB
(Int64, Int64)(Int64, Int64) See Also
Initializes a new instance of the `PageRange` class.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public PageRange(
    long start,
    long end
)
```

C++  

```cpp
public:
PageRange(
    long long start,
    long long end
)
```

F#  

```fsharp
new :
    start:int64 *
end:int64 -> PageRange
```

VB  

```vb
Public Sub New (
    start As Long,
    end As Long
)
```

Parameters

`start`
See Also

PageRange Class

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Initializes a new instance of the `SharedAccessBlobHeaders` class.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

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<td><code>public: SharedAccessBlobHeaders()</code></td>
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<td><code>new : unit -&gt; SharedAccessBlobHeaders</code></td>
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See Also

- SharedAccessBlobHeaders_Overload
- SharedAccessBlobHeaders Class

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<tr>
<td>(SharedAccessBlobHeaders^)(SharedAccessBlobHeaders)</td>
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</tr>
<tr>
<td>(SharedAccessBlobHeaders)</td>
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</tr>
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</table>

See Also
Initializes a new instance of the `SharedAccessBlobHeaders` class based on an existing instance.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
public SharedAccessBlobHeaders(
    SharedAccessBlobHeaders sharedAccessBlobHeaders
)
```

**C++**

```cpp
public:
    SharedAccessBlobHeaders(
        SharedAccessBlobHeaders^ sharedAccessBlobHeaders
    )
```

**F#**

```fsharp
new :
    sharedAccessBlobHeaders:SharedAccessBlobHeaders	->	SharedAccessBlobHeaders
```

**VB**

```vbnet
Public Sub New (  
    sharedAccessBlobHeaders As SharedAccessBlobHeaders
)
```

### Parameters

`sharedAccessBlobHeaders`

Type:  

The set of `SharedAccessBlobHeaders` to clone.
See Also

SharedAccessBlobHeaders Overload
SharedAccessBlobHeaders Class

Return to top
See Also
Gets or sets the cache-control header returned with the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

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

C++

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

F#

```fsharp
member CacheControl : string with get, set
```

VB

```vbnet
Public Property CacheControl As String
```

Property Value

Type: `System.String`

A string containing the cache-control value.
See Also

SharedAccessBlobHeaders Class

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**Property**

**See Also**
Gets or sets the content-disposition header returned with the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public string ContentDisposition { get; set; }
```

C++

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

F#

```fsharp
member ContentDisposition : string with get, set
```

VB

```vbnet
Public Property ContentDisposition As String
```

Property Value

Type: `System.String`  
A string containing the content-disposition value.
See Also

SharedAccessBlobHeaders Class

Return to top
SharedAccessBlobHeaders.ContentEncoding Property

See Also
Gets or sets the content-encoding header returned with the blob.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

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</table>
| C#       | ```
public string ContentEncoding {
  get;
  set;
}
``` |
| C++      | ```
public:
property String^ ContentEncoding {
  String^ get();
  void set(String^ value);
}
``` |
| F#       | ```
member ContentEncoding : string with get, set
``` |
| VB       | ```
Public Property ContentEncoding As String
``` |

### Property Value

Type: System.String

A string containing the content-encoding value.
See Also

**SharedAccessBlobHeaders Class**  
**Microsoft.WindowsAzure.Storage.Blob Namespace**

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**Property**

SharedAccessBlobHeaders::ContentLanguage

**Property**

SharedAccessBlobHeaders.ContentLanguage

**Property**

SharedAccessBlobHeaders.ContentLanguage Property

See Also
Gets or sets the content-language header returned with the blob.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public string ContentLanguage { get; set; }

C++  
public:
    property String^ ContentLanguage {
        String^ get();
        void set(String^ value);
    }

F#  
member ContentLanguage : string with get, set

VB  
Public Property ContentLanguage As String

Property Value

Type: System.String
A string containing the content-language value.
See Also

SharedAccessBlobHeaders Class

Return to top
See Also

**SharedAccessBlobHeaders.ContentType**

Property

**SharedAccessBlobHeaders::ContentType**

Property

**SharedAccessBlobHeaders.ContentType Property**
Gets or sets the content-type header returned with the blob.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public string ContentType { get; set; }
```

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

F#
```fsharp
member ContentType : string with get, set
```

VB
```vbnet
Public Property ContentType As String
```

Property Value
Type: System.String
A string containing the content-type value.
See Also

- SharedAccessBlobHeaders Class

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| SharedAccessBlobPolicies Constructor (0)(0)                              | C# C++ F# VB |
|======================================================================|---------------|
| See Also                                                             |               |
## Syntax

**C#**

```csharp
public SharedAccessBlobPolicies()
```

**C++**

```cpp
public:
SharedAccessBlobPolicies()
```

**F#**

```fsharp
new : unit -> SharedAccessBlobPolicies
```

**VB**

```vbnet
Public Sub New
```
See Also

SharedAccessBlobPolicies Class

Return to top
SharedAccessBlobPolicies.Count

Property

See Also
Gets the number of key/ `SharedAccessBlobPolicy` value pairs contained in the shared access policies collection.

**Namespace:**  `Microsoft.WindowsAzure.Storage.Blob`  
**Assembly:**  `Microsoft.WindowsAzure.Storage` (in `Microsoft.WindowsAzure.Storage.dll`)
Syntax

C#  
```csharp
public int Count { get; }
```

C++
```cpp
public:
property int Count {
    virtual int get() sealed;
}
```

F#
```fsharp
abstract Count : int with get
override Count : int with get
```

VB
```vb
Public ReadOnly Property Count As Integer
```

Property Value

Type: `System.Int32`  
The number of key/`SharedAccessBlobPolicy` value pairs contained in the shared access policies collection.

Implements

```csharp
ICollection<T>.Count
```
```cpp
ICollection<T>::Count
```
```fsharp
ICollection<'T>.Count
```
```vb
ICollection(Of T).Count
```
See Also

SharedAccessBlobPolicies Class

Return to top
See Also
Gets a value indicating whether the collection of shared access policies is read-only.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public bool IsReadOnly { get; }
```

C++

```cpp
public:

property bool IsReadOnly {
    virtual bool get() sealed;
}
```

F#

```fsharp
abstract IsReadOnly : bool with get
override IsReadOnly : bool with get
```

VB

```vbnet
Public ReadOnly Property IsReadOnly As Boolean
```

Property Value

Type: `System.Boolean` if the collection of shared access policies is read-only; otherwise, `false`.

Implements

```csharp
ICollection<T>.IsReadOnly
ICollection<T>::IsReadOnly
ICollection<'T>.IsReadOnly
```
See Also

- SharedAccessBlobPolicies Class

Return to top
SharedAccessBlobPolicies.Item Property  
(String)SharedAccessBlobPolicies::Item Property
(String^)SharedAccessBlobPolicies.Item Property
(String)SharedAccessBlobPolicies.Item Property (String)
See Also
Gets or sets the SharedAccessBlobPolicy item associated with the specified key.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public SharedAccessBlobPolicy this[string key] { get; set; }
```

C++  

```cpp
public:
property SharedAccessBlobPolicy^ default[String^ key] 
{
    virtual SharedAccessBlobPolicy^ get(String^ key)
    virtual void set(String^ key, SharedAccessBlobPolicy^ value)
}
```

F#  

```fsharp
abstract Item : key:string -> SharedAccessBlobPolicy with
override Item : key:string -> SharedAccessBlobPolicy with
```

VB  

```vb
Public Property Item (key As String) As SharedAccessBlobPolicy
```

**Property Value**
See Also

- SharedAccessBlobPolicies Class

Return to top
SharedAccessBlobPolicies.Keys Property

See Also
Gets a collection containing the keys in the shared access policies collection.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public ICollection<string> Keys { get; }
```

C++  
```cpp
public:
property ICollection<String^>^ Keys {
    virtual ICollection<String^>^ get() sealed
}
```

F#  
```fsharp
abstract Keys : ICollection<string> with get
override Keys : ICollection<string> with get
```

VB  
```vbnet
Public Readonly Property Keys As ICollection(Of String)
```

**Property Value**

Type:  
```csharp
System.Collections.Generic.ICollection<string>
```

A collection of strings containing the keys of the shared access policies collection.

**Implements**
See Also

- SharedAccessBlobPolicies Class

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See Also
Gets a collection containing the values in the shared access policies collection.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-access-policies)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public ICollection<SharedAccessBlobPolicy> Values {
    get;
}
```

C++
```cpp
public:
property ICollection<SharedAccessBlobPolicy^>^ Values {
    virtual ICollection<SharedAccessBlobPolicy^>^ get()
}
```

F#
```fsharp
abstract Values : ICollection<SharedAccessBlobPolicy>
override Values : ICollection<SharedAccessBlobPolicy>
```

VB
```vbnet
Public ReadOnly Property Values As ICollection(SharedAccessBlobPolicy)
```

Property Value

Type:
```
System.Collections.Generic.ICollection<SharedAccessBlobPolicy>
```

A collection of `SharedAccessBlobPolicy` items in the shared access policies collection.

Implements
See Also

SharedAccessBlobPolicies Class

Return to top
See Also
Adds the specified key/\ SharedAccessBlobPolicy value, stored in a
KeyValuePair\<TKey, TValue\>\<TKey, TValue\>\<\'TKey, \'TValue\>(Of
TKey, TValue), to the collection of shared access policies.

Assembly:  Microsoft.WindowsAzure.Storage (in
Microsoft.WindowsAzure.Storage.dll)
**Syntax**

C#  
```csharp
public void Add(
    KeyValuePair<string, SharedAccessBlobPolicy>
)
```

C++  
```cpp
public:
virtual void Add(
    KeyValuePair<String^, SharedAccessBlobPolicy^>
) sealed
```

F#  
```fsharp
abstract Add :
    item:KeyValuePair<string, SharedAccessBlobPolicy>
override Add :
    item:KeyValuePair<string, SharedAccessBlobPolicy>
```

VB  
```vbnet
Public Sub Add ( 
    item As KeyValuePair(Of String, 
)
```

**Parameters**

- **item**
  - Type: `System.Collections.Generic.KeyValuePair<String, SharedAccessBlobPolicy>`
See Also

Add Overload
SharedAccessBlobPolicies Class

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See Also
Adds the specified key and SharedAccessBlobPolicy value to the collection of shared access policies.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public void Add(
    string key,
    SharedAccessBlobPolicy value
)
```

C++

```cpp
public:
virtual void Add(
    String^ key,
    SharedAccessBlobPolicy^ value
) sealed
```

F#

```fsharp
abstract Add :
    key:string *
    value:SharedAccessBlobPolicy -> unit

override Add :
    key:string *
    value:SharedAccessBlobPolicy -> unit
```

VB

```vbnet
Public Sub Add (
    key As String,
    value As SharedAccessBlobPolicy
)
```
See Also

Add Overload
SharedAccessBlobPolicies Class

Return to top
SharedAccessBlobPolicies...Clear Method ()()() C#C++F#VB See Also
Removes all keys and SharedAccessBlobPolicy values from the shared access collection.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
public void Clear()
```

**C++**

```cpp
public:
virtual void Clear() sealed
```

**F#**

```fsharp
abstract Clear : unit -> unit
override Clear : unit -> unit
```

**VB**

```vbnet
Public Sub Clear
```  

### Implements

```
ICollection<T>(Of T).Clear()
```
See Also

SharedAccessBlobPolicies Class

Return to top
SharedAccessBlobPolicies.:..Contains Method
(KeyValuePair<String, SharedAccessBlobPolicy>)
(KeyValuePair<String^, SharedAccessBlobPolicy^>)
(KeyValuePair<String, SharedAccessBlobPolicy>)
(KeyValuePair(Of String, SharedAccessBlobPolicy))

See Also
Determines whether the collection of shared access policies contains the key and SharedAccessBlobPolicy value in the specified KeyValuePair<TKey, TValue> object.

**Syntax**

**C#**

```csharp
public bool Contains(
    KeyValuePair<string, SharedAccessBlobPolicy> item)
```

**C++**

```cpp
public:
virtual bool Contains(
    KeyValuePair<String^, SharedAccessBlobPolicy^> item)
```

**F#**

```fsharp
default Contains : 
    item:KeyValuePair<string, SharedAccessBlobPolicy> -> bool
```

**VB**

```vb
Public Function Contains ( 
    item As KeyValuePair(Of String, SharedAccessBlobPolicy) 
) As Boolean
```

**Parameters**

*item*

Type: `System.Collections.Generic.KeyValuePair<String, SharedAccessBlobPolicy>`
See Also

**SharedAccessBlobPolicies Class**
**Microsoft.WindowsAzure.Storage.Blob Namespace**

[Return to top]
SharedAccessBlobPolicies:::ContainsKey Method
(String)(String^)(String)(String)

See Also
Determines whether the collection of shared access policies contains the specified key.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public bool ContainsKey(
    string key
)
```

C++  
```cpp
public:
    virtual bool ContainsKey(
        String^ key
    ) sealed
```

F#  
```fsharp
abstract ContainsKey :
    key:string -> bool
override ContainsKey :
    key:string -> bool
```

VB  
```vbnet
Public Function ContainsKey (  
    key As String
) As Boolean
```

Parameters

`key`  
Type: `System.String`  
The key to locate in the collection of shared access policies.
See Also

SharedAccessBlobPolicies Class

Return to top
See Also
Copies each key in the key/ `SharedAccessBlobPolicy` value pair to a compatible one-dimensional array, starting at the specified index of the target array.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public void CopyTo(
    KeyValuePair<string, SharedAccessBlobPolicy> array,
    int arrayIndex
)

C++  
public:
    virtual void CopyTo(
        array<KeyValuePair<String^, SharedAccessBlobPolicy^>> array,
        int arrayIndex
    ) sealed

F#  
abstract CopyTo : 
    array:KeyValuePair<string, SharedAccessBlobPolicy> * arrayIndex:int -> unit 

F#  
override CopyTo : 
    array:KeyValuePair<string, SharedAccessBlobPolicy> * arrayIndex:int -> unit 

VB  
Public Sub CopyTo ( 
    array As KeyValuePair(Of String, SharedAccessBlobPolicy), 
    arrayIndex As Integer 
)
See Also

- SharedAccessBlobPolicies Class

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Returns an enumerator that iterates through the collection of shared access policies.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
public IEnumerable<KeyValuePair<string, SharedAccessBlobPolicy>> GetEnumerator()
```

**C++**

```cpp
public:
virtual IEnumerable<KeyValuePair<String^, SharedAccessBlobPolicy^>> GetEnumerator()
```

**F#**

```fsharp
abstract GetEnumerator : unit -> IEnumerable<KeyValuePair<string, SharedAccessBlobPolicy>>
override GetEnumerator : unit -> IEnumerable<KeyValuePair<string, SharedAccessBlobPolicy>>
```

**VB**

```vbnet
Public Function GetEnumerator As IEnumerable(Of KeyValuePair(Of String, SharedAccessBlobPolicy))
```

Return Value

Type:

```csharp
System.Collections.Generic.IEnumerable<KeyValuePair<String, SharedAccessBlobPolicy>>
```

An `IEnumerable<T>` of type `KeyValuePair<TKey, TValue>`.

Implements

```csharp
IEnumerable<T>(Of T).GetEnumerator()
```
See Also

SharedAccessBlobPolicies Class

Return to top
**SharedAccessBlobPolicies::Remove Method**

- **C#**
  - `KeyValuePair<String, SharedAccessBlobPolicy>`
  - `KeyValuePair<String^, SharedAccessBlobPolicy^>`
  - `KeyValuePair<String, SharedAccessBlobPolicy>`
  - `KeyValuePair(Of String, SharedAccessBlobPolicy)`

See Also
Removes the `SharedAccessBlobPolicy` value, specified in the `KeyValuePair<TKey, TValue>` object, from the shared access policies collection.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
public bool Remove(
    KeyValuePair<string, SharedAccessBlobPolicy> item
)
```

**C++**

```cpp
public:
virtual bool Remove(
    KeyValuePair<String^, SharedAccessBlobPolicy^> item
) sealed
```

**F#**

```fsharp
apabstract Remove :
    item:KeyValuePair<string, SharedAccessBlobPolicy>

override Remove :
    item:KeyValuePair<string, SharedAccessBlobPolicy>
```

**VB**

```vb
Public Function Remove ( 
    item As KeyValuePair(Of String, SharedAccessBlobPolicy)
) As Boolean
```

### Parameters

*item*

Type: 

See Also

Remove Overload
SharedAccessBlobPolicies Class

Return to top
SharedAccessBlobPolicies::Remove Method
(String)(String^)(String)(String)

See Also
Removes the value with the specified key from the shared access policies collection.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public bool Remove(
    string key
)
```

C++

```cpp
public:
    virtual bool Remove(
        String^ key
    ) sealed
```

F#

```fsharp
abstract Remove :
    key:string -> bool
override Remove :
    key:string -> bool
```

VB

```vbnet
Public Function Remove (  
    key As String  
) As Boolean
```

Parameters

*key*

Type: `System.String`<sup>System::String</sup>`System.String`<sup>System.String</sup>

A string containing the key of the `SharedAccessBlobPolicy` item to
See Also

Remove Overload
SharedAccessBlobPolicies Class

Return to top
See Also
Gets the SharedAccessBlobPolicy item associated with the specified key.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public bool TryGetValue(
    string key,
    out SharedAccessBlobPolicy value
)
```

C++
```cpp
public:
    virtual bool TryGetValue(
        String^ key,
        [OutAttribute] SharedAccessBlobPolicy^ value
    ) sealed
```

F#
```fsharp
abstract TryGetValue :
    key:string *
    value:SharedAccessBlobPolicy byref ->

override TryGetValue :
    key:string *
    value:SharedAccessBlobPolicy byref ->
```

VB
```vbnet
Public Function TryGetValue (  
    key As String,  
    <OutAttribute> ByRef value As SharedAccessBlobPolicy
) As Boolean
```
See Also

SharedAccessBlobPolicies Class

Return to top
SharedAccessBlobPolicies::IEnumerable::GetEnumerator Method ()()()
See Also
Returns an enumerator that iterates through the collection of shared access policies.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
IEnumerator IEnumerable.GetEnumerator()
```

**C++**

```cpp
private:
virtual IEnumerator^ GetEnumerator() sealed =
```

**F#**

```fsharp
private abstract GetEnumerator : unit -> IEnumerable
private override GetEnumerator : unit -> IEnumerable
```

**VB**

```vbnet
Private Function GetEnumerator As IEnumerable Implements IEnumerable.GetEnumerator
```

**Return Value**

Type:

```
System.Collections.IEnumerator
```

An IEnumerator object that can be used to iterate through the collection of shared access policies.

**Implements**

```
IEnumerable.::GetEnumerator()
```
See Also

SharedAccessBlobPolicies Class

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C# | C++ | F# | VB |
Initializes a new instance of the `SharedAccessBlobPolicy` class.

**Namespace:**  

**Assembly:**  
Syntax

C#

```csharp
public SharedAccessBlobPolicy()
```  

C++

```cpp
public:
SharedAccessBlobPolicy()
```  

F#

```fsharp
new : unit -> SharedAccessBlobPolicy
```  

VB

```vbnet
Public Sub New
```
See Also

SharedAccessBlobPolicy Class

Return to top
See Also
Gets or sets the permissions for a shared access signature associated with this shared access policy.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://aka.ms/WAS)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
public SharedAccessBlobPermissions Permissions
```

**C++**

```cpp
public:
property SharedAccessBlobPermissions Permissions
    SharedAccessBlobPermissions get();
    void set(SharedAccessBlobPermissions value);
}
```

**F#**

```fsharp
member Permissions : SharedAccessBlobPermissions
```

**VB**

```vbnet
Public Property Permissions As SharedAccessBlobPermissions
```

**Property Value**

Type:

- A `SharedAccessBlobPermissions` object.
See Also

SharedAccessBlobPolicy Class
SharedAccessBlobPolicy::SharedAccessExpiryTime

See Also
Gets or sets the expiry time for a shared access signature associated with this shared access policy.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

C#  
```csharp
public Nullable<DateTimeOffset> SharedAccessExpiryTime {
    get;
    set;
}
```

C++  
```cpp
public:
property Nullable<DateTimeOffset> SharedAccessExpiryTime {
    Nullable<DateTimeOffset> get();
    void set(Nullable<DateTimeOffset> value);
}
```

F#  
```fsharp
member SharedAccessExpiryTime : Nullable<DateTimeOffset>
```

VB  
```vb
Public Property SharedAccessExpiryTime As Nullable<DateTimeOffset>
```

**Property Value**

Type:  
```csharp
System.Nullable<DateTimeOffset>
```

A DateTimeOffset specifying the shared access expiry time.
See Also

- SharedAccessBlobPolicy Class

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See Also
Gets or sets the start time for a shared access signature associated with this shared access policy.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```
public Nullable<DateTimeOffset> SharedAccessStartTime {
    get;
    set;
}
```

C++
```
public:
    property Nullable<DateTimeOffset> SharedAccessStartTime {
        Nullable<DateTimeOffset> get();
        void set(Nullable<DateTimeOffset> value);
    }
```

F#
```
member SharedAccessStartTime : Nullable<DateTimeOffset>
```

VB
```
Public Property SharedAccessStartTime As Nullable
```

**Property Value**

Type:

- `System.Nullable<DateTimeOffset>`
- `System::Nullable<DateTimeOffset>`

A DateTimeOffset specifying the shared access start time.
See Also

SharedAccessBlobPolicy Class

Return to top
SharedAccessBlobPolicy...PermissionsFromString

Method (String)(String^)(String)(String)

See Also
Constructs a `SharedAccessBlobPermissions` object from a permissions string.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public static SharedAccessBlobPermissions PermissionsFromString(string input)
```

C++  
```cpp
public:
static SharedAccessBlobPermissions PermissionsFromString(String^ input)
```

F#  
```fsharp
static member PermissionsFromString : input:string -> SharedAccessBlobPermissions
```

VB  
```vbnet
Public Shared Function PermissionsFromString (input As String) As SharedAccessBlobPermissions
```

Parameters

`input`  
Type: `System.String`<br>  `System::String`<br>  `System.String`<br>  `System.String`<br>  The shared access permissions, in string format.
See Also

- SharedAccessBlobPolicy Class
SharedAccessBlobPolicy::PermissionsToString

Method (SharedAccessBlobPermissions)

(SharedAccessBlobPermissions)(SharedAccessBlobPermissions)

See Also
Converts the permissions specified for the shared access policy to a string.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public static string PermissionsToString(
    SharedAccessBlobPermissions permission
)
```

C++  
```cpp
public:
static String^ PermissionsToString(
    SharedAccessBlobPermissions permissions
)
```

F#  
```fsharp
static member PermissionsToString :
    permissions:SharedAccessBlobPermissions	->	string
```

VB  
```vbnet
Public Shared Function PermissionsToString (  
    permissions As SharedAccessBlobPermissions
) As String
```

Parameters

- `permissions`  
  Type:  
  A `SharedAccessBlobPermissions` object.
See Also

- SharedAccessBlobPolicy Class

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See Also
Gets the type of the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
BlobType BlobType { get; }
```

C++  
```cpp
property BlobType BlobType {
    BlobType get();
}
```

F#  
```fsharp
abstract BlobType : BlobType with get
```

VB  
```vbnet
ReadOnly Property BlobType As BlobType
```

Property Value

Type:  
A `BlobType` enumeration value.
See Also

ICloudBlob Interface

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See Also
Gets the state of the most recent or pending copy operation.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
CopyState CopyState { get; }

C++  
property CopyState& CopyState {  
    CopyState& get();  
}

F#  
abstract CopyState : CopyState with get

VB  
ReadOnly Property CopyState As CopyState

Property Value

Type:  
A CopyState object containing the copy state, or null if there is no copy state for the blob.
See Also

ICloudBlob Interface

Return to top
ICloudBlob.IsSnapshot
PropertyICloudBlob::IsSnapshot
PropertyICloudBlob.IsSnapshot PropertyICloudBlob.IsSnapshot Property
See Also
Gets a value indicating whether this blob is a snapshot.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
bool IsSnapshot { get; }
```

C++  
```cpp
property bool IsSnapshot {
    bool get();
}
```

F#  
```fsharp
abstract IsSnapshot : bool with get
```

VB  
```vbnet
ReadOnly Property IsSnapshot As Boolean
```

Property Value

Type: System:Boolean
true if this blob is a snapshot; otherwise, false.
See Also

ICloudBlob Interface

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</table>
Gets the user-defined metadata for the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```
IDictionary<string, string> Metadata { get; }
```

C++  
```
property IDictionary<String^, String^>^ Metadata  
    IDictionary<String^, String^>^ get();
```

F#  
```
abstract Metadata : IDictionary<string, string>
```

VB  
```
ReadOnly Property Metadata As IDictionary(Of String)
```

Property Value

Type:  

`System.Collections.Generic.IDictionary<String, String>`

An `IDictionary<TKey, TValue<TKey, TValue>` object containing the blob's metadata as a collection of name-value pairs.
See Also

ICloudBlob Interface

Return to top
ICloudBlob.Name Property ICloudBlob::Name Property

See Also

C# C++ F# VB
Gets the blob's name.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
string Name { get; }
```

**C++**

```cpp
property String^ Name {
    String^ get();
}
```

**F#**

```fsharp
abstract Name : string with get
```

**VB**

```vbnet
ReadOnly Property Name As String
```

### Property Value

Type: `System.String System::String ^ System.String System.String`

A string containing the name of the blob.
See Also

ICloudBlob Interface

Return to top
ICloudBlob.Properties

See Also
Gets the blob's system properties.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
BlobProperties Properties { get; }

C++  
property BlobProperties^ Properties {  
    BlobProperties^ get();
}

F#  
abstract Properties : BlobProperties with get

VB  
ReadOnly Property Properties As BlobProperties

Property Value

Type:  
A BlobProperties object.
See Also

ICloudBlob Interface

Return to top
ICloudBlob.ServiceClient
Property ICloudBlob::ServiceClient
Property ICloudBlob.ServiceClient
Property ICloudBlob.ServiceClient Property
See Also
Gets the CloudBlobClient object that represents the Blob service.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
CloudBlobClient ServiceClient { get; }
```

C++

```cpp
property CloudBlobClient^ ServiceClient { 
    CloudBlobClient^ get();
}
```

F#

```fsharp
abstract ServiceClient : CloudBlobClient with get
```

VB

```vbnet
ReadOnly Property ServiceClient As CloudBlobClient
```

Property Value

Type:


See Also

ICloudBlob Interface

Return to top
ICloudBlob.SnapshotQualifiedStorageUri
Property
See Also
Gets the blob's URI for both the primary and secondary locations, including query string information if the blob is a snapshot.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
StorageUri SnapshotQualifiedStorageUri { get; }

C++  
property StorageUri^ SnapshotQualifiedStorageUri  
  StorageUri^ get();

F#  
abstract SnapshotQualifiedStorageUri : StorageUri

VB  
ReadOnly Property SnapshotQualifiedStorageUri As

Property Value

Type:  
Microsoft.WindowsAzure.Storage.StorageUri
An object of type StorageUri containing the blob's URIs for both the primary and secondary locations, including snapshot query information if the blob is a snapshot.
See Also

ICloudBlob Interface

Return to top
ICloudBlob.SnapshotQualifiedUri Property

See Also
Gets the absolute URI to the blob, including query string information if the blob is a snapshot.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
Uri SnapshotQualifiedUri { get; }
```

C++  
```cpp
property Uri^ SnapshotQualifiedUri {
    Uri^ get();
}
```

F#  
```fsharp
abstract SnapshotQualifiedUri : Uri with get
```

VB  
```vbnet
ReadOnly Property SnapshotQualifiedUri As Uri
```

Property Value

Type: `System.Uri`\`System.Uri`\`System.Uri`\`System.Uri`

A Uri specifying the absolute URI to the blob, including snapshot query information if the blob is a snapshot.
See Also

ICloudBlob Interface

Return to top
ICloudBlob.SnapshotTime Property
ICloudBlob::SnapshotTime Property
ICloudBlob.SnapshotTime Property
See Also
Gets the date and time that the blob snapshot was taken, if this blob is a snapshot.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  Nullable<DateTimeOffset> SnapshotTime { get; }

C++

property Nullable<DateTimeOffset> SnapshotTime

F#

abstract SnapshotTime : Nullable<DateTimeOffset>

VB

ReadOnly Property SnapshotTime As Nullable(Of DateTimeOffset)

Property Value

Type:

System.Nullable<DateTimeOffset>

A DateTimeOffset containing the blob's snapshot time if the blob is a snapshot; otherwise, null.
Remarks

If the blob is not a snapshot, the value of this property is `null`.
See Also

ICloudBlob Interface

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Gets or sets the minimum number of bytes to buffer when reading from a blob stream.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  int StreamMinimumReadSizeInBytes { get; set; }

C++  property int StreamMinimumReadSizeInBytes {
       int get();
       void set(int value);
    }

F#  abstract StreamMinimumReadSizeInBytes : int with

VB  Property StreamMinimumReadSizeInBytes As Integer

Property Value

Type: System.Int32
The minimum number of bytes to buffer.
See Also

ICloudBlob Interface

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See Also
Gets or sets the number of bytes to buffer when writing to a page blob stream or the block size for writing to a block blob.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
int StreamWriteSizeInBytes { get; set; }
```

C++  
```cpp
property int StreamWriteSizeInBytes {
    int get();
    void set(int value);
}
```

F#  
```fsharp
abstract StreamWriteSizeInBytes : int with get,
```

VB  
```vbnet
Property StreamWriteSizeInBytes As Integer
```

Property Value

Type: System.Int32

The number of bytes to buffer or the size of a block, in bytes.
See Also

ICloudBlob Interface

Return to top
ICloudBlob.....AbortCopyAsync Method (String)
(String^)(String)(String)

See Also
Initiates an asynchronous operation to abort an ongoing blob copy operation.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  Task AbortCopyAsync(
               string copyId
            )

C++  Task^ AbortCopyAsync(
               String^ copyId
            )

F#  abstract AbortCopyAsync :
       copyId:string -> Task

VB  Function AbortCopyAsync ( 
       copyId As String 
    ) As Task

Parameters

*copyId*

Type: System.String

A string identifying the copy operation.
See Also

AbortCopyAsync Overload
ICloudBlob Interface

Return to top
ICloudBlob:::AbortCopyAsync Method (String, AccessCondition, BlobRequestOptions, OperationContext)(String^, AccessCondition^, BlobRequestOptions^, OperationContext^)(String, AccessCondition, BlobRequestOptions, OperationContext)(String, AccessCondition, BlobRequestOptions, OperationContext)
See Also
Initiates an asynchronous operation to abort an ongoing blob copy operation.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/Azure/azure-storage-dotnet)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Task AbortCopyAsync(
   string copyId,
   AccessCondition accessCondition,
   BlobRequestOptions options,
   OperationContext operationContext
 )

C++
Task^ AbortCopyAsync(
   String^ copyId,
   AccessCondition^ accessCondition,
   BlobRequestOptions^ options,
   OperationContext^ operationContext
 )

F#
abstract AbortCopyAsync :
   copyId:string *
   accessCondition:AccessCondition *
   options:BlobRequestOptions *
   operationContext:OperationContext -> Task

VB
Function AbortCopyAsync (  
   copyId As String, 
   accessCondition As AccessCondition, 
   options As BlobRequestOptions,  
)
See Also

AbortCopyAsync Overload
ICloudBlob Interface

Return to top
ICloudBlob::AbortCopyAsync Method (String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to abort an ongoing blob copy operation.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
Task AbortCopyAsync(
    string copyId,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++  

```cpp
Task^ AbortCopyAsync(
    String^ copyId,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#  

```fsharp
abstract AbortCopyAsync :
    copyId:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->
```

VB  

```vb
Function AbortCopyAsync (  
```
See Also

AbortCopyAsync_ Overload
ICloudBlob Interface

Return to top
ICloudBlob::AbortCopyAsync Method (String, CancellationToken)(String, CancellationToken)(String, CancellationToken)(String, CancellationToken)(String^, CancellationToken)(String, CancellationToken)(String, CancellationToken)

See Also
Initiates an asynchronous operation to abort an ongoing blob copy operation.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

**C#**

```csharp
Task AbortCopyAsync(
    string copyId,
    CancellationToken cancellationToken
)
```

**C++**

```cpp
Task^ AbortCopyAsync(
    String^ copyId,
    CancellationToken cancellationToken
)
```

**F#**

```fsharp
abstract AbortCopyAsync :
    copyId:string *
    cancellationToken:CancellationToken ->
```

**VB**

```vbnet
Function AbortCopyAsync ( 
    copyId As String,
    cancellationToken As CancellationToken
) As Task
```

## Parameters

**copyId**

Type: `System.String`
See Also

AbortCopyAsync_Overload
ICloudBlob Interface

Return to top
ICloudBlob:::AcquireLeaseAsync Method
(Nullable<TimeSpan>, String)
(Nullable<TimeSpan>, String^)(Nullable<TimeSpan>, String)
(Nullable(Of TimeSpan), String)

See Also
Initiates an asynchronous operation to acquire a lease on this blob.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
`Task<string> AcquireLeaseAsync(
    Nullable<TimeSpan> leaseTime,
    string proposedLeaseId = null
)`

C++  
`Task<String^>^ AcquireLeaseAsync(
    Nullable<TimeSpan> leaseTime,
    String^ proposedLeaseId = null
)`

F#  
`abstract AcquireLeaseAsync :
    leaseTime:Nullable<TimeSpan> *
    proposedLeaseId:string = null -> Task<string>`

VB  
`Function AcquireLeaseAsync (  
    leaseTime As Nullable(Of TimeSpan),
    proposedLeaseId As String
) As Task(Of String)`

Parameters

`leaseTime`  
Type:
See Also

AcquireLeaseAsync_Overload
ICloudBlob Interface

Return to top
ICloudBlob.*.AcquireLeaseAsync Method

See Also
Initiates an asynchronous operation to acquire a lease on this blob.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
Task<string> AcquireLeaseAsync(
    Nullable<TimeSpan> leaseTime,
    string proposedLeaseId,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

**C++**

```cpp
Task<String^>^ AcquireLeaseAsync(
    Nullable<TimeSpan> leaseTime,
    String^ proposedLeaseId,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

**F#**

```fsharp
abstract AcquireLeaseAsync :
    leaseTime:Nullable<TimeSpan> *
    proposedLeaseId:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<string>
```

**VB**

```vb
Function AcquireLeaseAsync (    leaseTime As Nullable(Of TimeSpan),
    proposedLeaseId As String,
    accessCondition As AccessCondition,
    options As BlobRequestOptions,
    operationContext As OperationContext
) As Task(Of String)
```
See Also

AcquireLeaseAsync_Overload
ICloudBlob Interface

Return to top
ICloudBlob:::AcquireLeaseAsync Method

(Nullable<TimeSpan>, String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(Nullable<TimeSpan>, String^, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)
(Nullable<TimeSpan>, String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(Nullable(Of TimeSpan), String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to acquire a lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

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| C#       | Task<\textit{string}> AcquireLeaseAsync( Nullable<
|          | \textit{TimeSpan}> leaseTime, \textit{string} proposedLeaseId, AccessCondition accessCondition, BlobRequestOptions options, OperationContext operationContext, CancellationToken cancellationToken ) |
| C++      | Task<String^>^ AcquireLeaseAsync( Nullable<
|          | \textit{TimeSpan}> leaseTime, String^ proposedLeaseId, AccessCondition^ accessCondition, BlobRequestOptions^ options, OperationContext^ operationContext, CancellationToken cancellationToken ) |
| F#       | abstract AcquireLeaseAsync : leaseTime:Nullable<
|          | \textit{TimeSpan}> * proposedLeaseId:string * accessCondition:AccessCondition * options:BlobRequestOptions * operationContext:OperationContext * cancellationToken:CancellationToken -> Task<string> |
| VB       | Function AcquireLeaseAsync( leaseTime As Nullable(
|          | Of \textit{TimeSpan}), proposedLeaseId As String, accessCondition As AccessCondition, options As BlobRequestOptions, operationContext As OperationContext, cancellationToken As CancellationToken ) -> Task<string> |
See Also

AcquireLeaseAsync_Overload
ICloudBlob Interface

Return to top
ICloudBlob AcquireLeaseAsync Method
(Nullable<TimeSpan>, String, CancellationToken)
(Nullable<TimeSpan>, String^, CancellationToken)
(Nullable<TimeSpan>, String, CancellationToken)

See Also
Initiates an asynchronous operation to acquire a lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Task<string> AcquireLeaseAsync(
    Nullable<TimeSpan> leaseTime,
    string proposedLeaseId,
    CancellationToken cancellationToken
)

C++  
Task<String^>^ AcquireLeaseAsync(
    Nullable<TimeSpan> leaseTime,
    String^ proposedLeaseId,
    CancellationToken cancellationToken
)

F#  
abstract AcquireLeaseAsync :
    leaseTime:Nullable<TimeSpan>  *
    proposedLeaseId:string  *
    cancellationToken:CancellationToken  ->

VB  
Function AcquireLeaseAsync (    leaseTime As Nullable(Of TimeSpan),
    proposedLeaseId As String,
    cancellationToken As CancellationToken
) As Task(Of String)
See Also

AcquireLeaseAsync_Overload
ICloudBlob Interface

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See Also
Begins an asynchronous operation to abort an ongoing blob copy operation.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  Copy Code

ICancellableAsyncResult BeginAbortCopy(
    string copyId,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++  Copy Code

ICancellableAsyncResult^ BeginAbortCopy(
    String^ copyId,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#  Copy Code

abstract BeginAbortCopy :
    copyId:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
See Also

BeginAbortCopy Overload
ICloudBlob Interface

Return to top
ICloudBlob...BeginAbortCopy Method (String, AsyncCallback, Object)(String^, AsyncCallback^, Object^)(String, AsyncCallback, Object)(String, AsyncCallback, Object)

See Also
Begins an asynchronous operation to abort an ongoing blob copy operation.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

ICancellableAsyncResult BeginAbortCopy(
    string copyId,
    AsyncCallback callback,
    object state
)

C++  

ICancellableAsyncResult* BeginAbortCopy(
    String^ copyId,
    AsyncCallback^ callback,
    Object^ state
)

F#  

abstract BeginAbortCopy : 
    copyId:string *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

VB  

Function BeginAbortCopy ( 
    copyId As String ,
    callback As AsyncCallback ,
    state As Object
) As ICancellableAsyncResult
See Also

BeginAbortCopy_Overload
ICloudBlob Interface

Return to top
ICloudBlob::BeginAcquireLease Method

(Nullable<TimeSpan>, String, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(Nullable<TimeSpan>, String^, AccessCondition^,
BlobRequestOptions^, OperationContext^, AsyncCallback^,
Object^)(Nullable<TimeSpan>, String, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(Nullable(Of TimeSpan), String, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)

See Also
Begins an asynchronous operation to acquire a lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

ICancellableAsyncResult BeginAcquireLease(
    Nullable<TimeSpan> leaseTime,
    string proposedLeaseId,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state

)

C++

ICancellableAsyncResult^ BeginAcquireLease(
    Nullable<TimeSpan> leaseTime,
    String^ proposedLeaseId,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state

)

F#

abstract BeginAcquireLease :
    leaseTime:Nullable<TimeSpan> *
    proposedLeaseId:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
See Also

BeginAcquireLease Overload
ICloudBlob Interface

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ICloudBlob.....BeginAcquireLease Method

C#  

BeginAcquireLease Method  

C++

BeginAcquireLease Method  

F#

BeginAcquireLease Method  

VB

BeginAcquireLease Method  

(Nullable<TimeSpan>, String, AsyncCallback, Object)
(Nullable<TimeSpan>, String^, AsyncCallback^, Object^)
(Nullable<TimeSpan>, String, AsyncCallback, Object)
(Nullable(Of TimeSpan), String, AsyncCallback, Object)

See Also
Begins an asynchronous operation to acquire a lease on this blob.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```
ICancellableAsyncResult BeginAcquireLease(
    Nullable<TimeSpan> leaseTime,
    string proposedLeaseId,
    AsyncCallback callback,
    object state
)
```

C++

```
ICancellableAsyncResult^ BeginAcquireLease(
    Nullable<TimeSpan> leaseTime,
    String^ proposedLeaseId,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```
abstract BeginAcquireLease :
    leaseTime:Nullable<TimeSpan> *
    proposedLeaseId:string *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```

VB

```
Function BeginAcquireLease (        
    leaseTime As Nullable(Of TimeSpan),
    proposedLeaseId As String,
    callback As AsyncCallback,
```
See Also

BeginAcquireLease_Overload
ICloudBlob Interface

Return to top
ICloudBlob::BeginBreakLease Method

(Nullable<TimeSpan>, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)

See Also
Begins an asynchronous operation to break the current lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
ICancellableAsyncResult BeginBreakLease(
    Nullable<TimeSpan> breakPeriod,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++  
ICancellableAsyncResult^ BeginBreakLease(
    Nullable<TimeSpan>^ breakPeriod,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#  
abstract BeginBreakLease :
    breakPeriod:Nullable<TimeSpan> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
See Also

- BeginBreakLease Overload
- ICloudBlob Interface

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ICloudBlob....BeginBreakLease Method (Nullable<TimeSpan>, AsyncCallback, Object) (Nullable<TimeSpan>, AsyncCallback^, Object^) (Nullable<TimeSpan>, AsyncCallback, Object) (Nullable(Of TimeSpan), AsyncCallback, Object) (Nullable(Of TimeSpan), AsyncCallback^, Object^) See Also
Begins an asynchronous operation to break the current lease on this blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

ICancellableAsyncResult BeginBreakLease(
    Nullable<TimeSpan> breakPeriod,
    AsyncCallback callback,
    object state
)

C++

ICancellableAsyncResult^ BeginBreakLease(
    Nullable<TimeSpan> breakPeriod,
    AsyncCallback^ callback,
    Object^ state
)

F#

abstract BeginBreakLease :
    breakPeriod:Nullable<TimeSpan>  *
    callback:AsyncCallback  *
    state:Object  ->  ICancellableAsyncResult

VB

Function BeginBreakLease (
    breakPeriod As Nullable(Of TimeSpan),
    callback As AsyncCallback,
    state As Object
) As ICancellableAsyncResult
See Also

**BeginBreakLease Overload**

ICloudBlob Interface

**Microsoft.WindowsAzure.Storage.Blob Namespace**

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See Also
Begins an asynchronous operation to change the lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

ICancellableAsyncResult BeginChangeLease(
    string proposedLeaseId,
    AccessCondition accessCondition,
    AsyncCallback callback,
    object state
)

C++

ICancellableAsyncResult* BeginChangeLease(
    String* proposedLeaseId,
    AccessCondition* accessCondition,
    AsyncCallback* callback,
    Object* state
)

F#

abstract BeginChangeLease :
    proposedLeaseId:string *
    accessCondition:AccessCondition *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

VB

Function BeginChangeLease ( 
    proposedLeaseId As String,
    accessCondition As AccessCondition,
    callback As AsyncCallback,
See Also

BeginChangeLease Overload
ICloudBlob Interface

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See Also
Begins an asynchronous operation to change the lease on this blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
ICancellableAsyncResult BeginChangeLease(
    string proposedLeaseId,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++  
```cpp
ICancellableAsyncResult* BeginChangeLease(
    String* proposedLeaseId,
    AccessCondition* accessCondition,
    BlobRequestOptions* options,
    OperationContext* operationContext,
    AsyncCallback* callback,
    Object* state
)
```

F#  
```fsharp
abstract BeginChangeLease : 
    proposedLeaseId:string * 
    accessCondition:AccessCondition * 
    options:BlobRequestOptions * 
    operationContext:OperationContext * 
    callback:AsyncCallback * 
    state:Object -> ICancellableAsyncResult
```
See Also

- BeginChangeLease Overload
- ICloudBlob Interface

Return to top
ICloudBlob::BeginDelete Method
(AsyncCallback, Object)(AsyncCallback^, Object^)(AsyncCallback, Object)(AsyncCallback, Object)

See Also
Begins an asynchronous operation to delete the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
ICancellableAsyncResult BeginDelete(  
    AsyncCallback callback,  
    object state
)

C++  
ICancellableAsyncResult^ BeginDelete(  
    AsyncCallback^ callback,  
    Object^ state
)

F#  
abstract BeginDelete :  
    callback:AsyncCallback *  
    state:Object -> ICancellableAsyncResult

VB  
Function BeginDelete (  
    callback As AsyncCallback,  
    state As Object
) As ICancellableAsyncResult

Parameters

callback
  Type:
See Also

BeginDelete_Overload
ICloudBlob Interface

Return to top
ICloudBlob..::..BeginDelete Method

(DeleteSnapshotsOption, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(DeleteSnapshotsOption, AccessCondition^,
BlobRequestOptions^, OperationContext^, AsyncCallback^,
Object^)(DeleteSnapshotsOption, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(DeleteSnapshotsOption, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)

See Also
Begins an asynchronous operation to delete the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
ICancellableAsyncResult BeginDelete(
    DeleteSnapshotsOption deleteSnapshotsOption,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

**C++**

```c++
ICancellableAsyncResult^ BeginDelete(
    DeleteSnapshotsOption^ deleteSnapshotsOption,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

**F#**

```fsharp
abstract BeginDelete :
    deleteSnapshotsOption : DeleteSnapshotsOption *
    accessCondition : AccessCondition *
    options : BlobRequestOptions *
    operationContext : OperationContext *
    callback : AsyncCallback *
    state : Object -> ICancellableAsyncResult
```
See Also

- BeginDelete Overload
- ICloudBlob Interface

Return to top
ICloudBlob::BeginDeleteIfExists Method
(AsyncCallback, Object)(AsyncCallback^, Object^)(AsyncCallback, Object)(AsyncCallback, Object)

See Also
Begins an asynchronous request to delete the blob if it already exists.

**Namespace**: Microsoft.WindowsAzure.Storage.Blob

Syntax

C#  
ICancellableAsyncResult BeginDeleteIfExists(  
    AsyncCallback callback,  
    object state  
)

C++  
ICancellableAsyncResult^ BeginDeleteIfExists(  
    AsyncCallback^ callback,  
    Object^ state  
)

F#  
abstract BeginDeleteIfExists :  
    callback:AsyncCallback *  
    state:Object -> ICancellableAsyncResult

VB  
Function BeginDeleteIfExists (  
    callback As AsyncCallback,  
    state As Object  
) As ICancellableAsyncResult

Parameters

*callback*  
Type:
See Also

BeginDeleteIfExists_Overload
ICloudBlob Interface

Return to top
ICloudBlob...BeginDeleteIfExists Method
(DeleteSnapshotsOption, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(DeleteSnapshotsOption, AccessCondition^,
BlobRequestOptions^, OperationContext^, AsyncCallback^,
Object^)(DeleteSnapshotsOption, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(DeleteSnapshotsOption, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)

See Also
Begins an asynchronous request to delete the blob if it already exists.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```
ICancellableAsyncResult BeginDeleteIfExists(
    DeleteSnapshotsOption deleteSnapshotsOption,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++  
```
ICancellableAsyncResult^ BeginDeleteIfExists(
    DeleteSnapshotsOption^ deleteSnapshotsOption,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#  
```
abstract BeginDeleteIfExists :
    deleteSnapshotsOption:DeleteSnapshotsOption *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
See Also

BeginDeleteIfExists_Overload
ICloudBlob Interface

Return to top
ICloudBlob::BeginDownloadRangeToByteArray Method (Byte[], Int32, Nullable<Int64>, Nullable<Int64>, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)(array<Byte>^, Int32, Nullable<Int64>, Nullable<Int64>, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)(Byte[], Int32, Nullable<Int64>, Nullable<Int64>, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)(Byte(), Int32, Nullable(Of Int64), Nullable(Of Int64), AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to download a range of bytes from a blob to a byte array.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
ICancellableAsyncResult BeginDownloadRangeToByteArray(
    byte[] target,
    int index,
    Nullable<long> blobOffset,
    Nullable<long> length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++  
```cpp
ICancellableAsyncResult* BeginDownloadRangeToByteArray(
    array<unsigned char>* target,
    int index,
    Nullable<long long> blobOffset,
    Nullable<long long> length,
    AccessCondition* accessCondition,
    BlobRequestOptions* options,
    OperationContext* operationContext,
    AsyncCallback* callback,
    Object* state
)
```

F#  
```fsharp
abstract BeginDownloadRangeToByteArray : 
    target:byte[] * 
    index:int * 
    blobOffset:Nullable<int64> * 
    length:Nullable<int64> * 
```

See Also

BeginDownloadRangeToByteArray_ Overload
ICloudBlob Interface

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ICloudBlob...BeginDownloadRangeToByteArray Method (Byte[], Int32, Nullable<Int64>, Nullable<Int64>, AsyncCallback, Object)(array<Byte>^, Int32, Nullable<Int64>, Nullable<Int64>, AsyncCallback^, Object^)(Byte[], Int32, Nullable<Int64>, Nullable<Int64>, AsyncCallback, Object)(Byte(), Int32, Nullable(Of Int64), Nullable(Of Int64), AsyncCallback, Object)

See Also
Begins an asynchronous operation to download a range of bytes from a blob to a byte array.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
ICancellableAsyncResult BeginDownloadRangeToByteArray(
    byte[] target,
    int index,
    Nullable<long> blobOffset,
    Nullable<long> length,
    AsyncCallback callback,
    object state
)

C++  
ICancellableAsyncResult^ BeginDownloadRangeToByteArray(
    array<unsigned char>^ target,
    int index,
    Nullable<long> blobOffset,
    Nullable<long> length,
    AsyncCallback^ callback,
    Object^ state
)

F#  
abstract BeginDownloadRangeToByteArray :
    target:byte[] *
    index:int *
    blobOffset:Nullable<int64> *
    length:Nullable<int64> *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

VB  
Function BeginDownloadRangeToByteArray(target As Byte() As

See Also

BeginDownloadRangeToByteArray_ Overload
ICloudBlob Interface

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ICloudBlob::BeginDownloadRangeToStream

C# C++ F# VB

Method (Stream, Nullable<Int64>, Nullable<Int64>, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)(Stream^, Nullable<Int64>, Nullable<Int64>, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)(Stream, Nullable<Int64>, Nullable<Int64>, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)(Stream, Nullable(Of Int64), Nullable(Of Int64), AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to download a range of bytes from a blob to a stream.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://example.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  Copy Code
ICancellableAsyncResult BeginDownloadRangeToStream(
    Stream target,
    Nullable<long> offset,
    Nullable<long> length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++  Copy Code
ICancellableAsyncResult< Stream > BeginDownloadRangeToStream(
    Stream^ target,
    Nullable<long long> offset,
    Nullable<long long> length,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#  Copy Code
abstract BeginDownloadRangeToStream : 
    target:Stream *
    offset:Nullable<int64> *
    length:Nullable<int64> *
See Also

BeginDownloadRangeToStream_Overload
ICloudBlob Interface

Return to top
ICloudBlob::BeginDownloadRangeToStream Method (Stream, Nullable<Int64>, Nullable<Int64>, AsyncCallback, Object)
(Stream^, Nullable<Int64>, Nullable<Int64>, AsyncCallback^, Object^)
(Stream, Nullable<Int64>, Nullable<Int64>, AsyncCallback, Object)(Stream, Nullable(Of Int64), Nullable(Of Int64), AsyncCallback, Object)

See Also
Begins an asynchronous operation to download a range of bytes from a blob to a stream.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

C#  
```
ICancellableAsyncResult BeginDownloadRangeToStream(
    Stream target,
    Nullable<long> offset,
    Nullable<long> length,
    AsyncCallback callback,
    object state
)
```

C++  
```
ICancellableAsyncResult^ BeginDownloadRangeToStream(
    Stream^ target,
    Nullable<long long> offset,
    Nullable<long long> length,
    AsyncCallback^ callback,
    Object^ state
)
```

F#  
```
abstract BeginDownloadRangeToStream :
    target:Stream *
    offset:Nullable<int64> *
    length:Nullable<int64> *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```

VB  
```
Function BeginDownloadRangeToStream (  
    
)
See Also

BeginDownloadRangeToStream_Overload
ICloudBlob Interface

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ICloudBlob::BeginDownloadToByteArray Method

C# C++ F# VB
(Byte[], Int32, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(array<Byte>^, Int32, AccessCondition^,
BlobRequestOptions^, OperationContext^, AsyncCallback^,
Object^)(Byte[], Int32, AccessCondition, BlobRequestOptions,
OperationContext, AsyncCallback, Object)(Byte(), Int32,
AccessCondition, BlobRequestOptions, OperationContext,
AsyncCallback, Object)

See Also
Begins an asynchronous operation to download the contents of a blob to a byte array.

**Assembly:**  Microsoft.WindowsAzure.Storage (in `Microsoft.WindowsAzure.Storage.dll`)
Syntax

C#  
```csharp
ICancellableAsyncResult BeginDownloadToByteArray(
    byte[] target,
    int index,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++
```cpp
ICancellableAsyncResult* BeginDownloadToByteArray(
    array<unsigned char>* target,
    int index,
    AccessCondition* accessCondition,
    BlobRequestOptions* options,
    OperationContext* operationContext,
    AsyncCallback* callback,
    Object* state
)
```

F#
```fsharp
abstract BeginDownloadToByteArray : 
    target:byte[] *
    index:int *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
```
See Also

BeginDownloadToArray_Overload
ICloudBlob Interface

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ICloudBlob....BeginDownloadToByteArray Method C#C++F#VB
(Byte[], Int32, AsyncCallback, Object)
(array<Byte>^, Int32, AsyncCallback^, Object^)(Byte[],
Int32, AsyncCallback, Object)(Byte(), Int32, AsyncCallback,
Object)
See Also
Begins an asynchronous operation to download the contents of a blob to a byte array.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
ICancellableAsyncResult BeginDownloadToByteArray(
    byte[] target,
    int index,
    AsyncCallback callback,
    object state
)
```

**C++**

```cpp
ICancellableAsyncResult^ BeginDownloadToByteArray(
    array<unsigned char>^ target,
    int index,
    AsyncCallback^ callback,
    Object^ state
)
```

**F#**

```fsharp
abstract BeginDownloadToByteArray :
    target:byte[] *
    index:int *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```

**VB**

```vb
Function BeginDownloadToByteArray (target As Byte(),
    index As Integer,
    callback As AsyncCallback,
```
See Also

BeginDownloadToByteArray_Overload
ICloudBlob Interface

Return to top
ICloudBlob::BeginDownloadToFile Method
(String, FileMode, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(String^, FileMode, AccessCondition^,
BlobRequestOptions^, OperationContext^, AsyncCallback^,
Object^)(String, FileMode, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(String, FileMode, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)

See Also
Begins an asynchronous operation to download the contents of a blob to a file.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
ICancellableAsyncResult BeginDownloadToFile(
    string path,
    FileMode mode,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++  
```cpp
ICancellableAsyncResult^ BeginDownloadToFile(
    String^ path,
    FileMode mode,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#  
```fsharp
abstract BeginDownloadToFile :
    path:string *
    mode:FileMode *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:object * -> ICancellableAsyncResult
```
See Also

BeginDownloadToFile Overload
ICloudBlob Interface

Return to top
ICloudBlob.....BeginDownloadToFile Method
(String, FileMode, AsyncCallback, Object)
(String^, FileMode, AsyncCallback^, Object^)
See Also
Begins an asynchronous operation to download the contents of a blob to a file.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

ICancellableAsyncResult BeginDownloadToFile(
    string path,
    FileMode mode,
    AsyncCallback callback,
    object state
)

C++

ICancellableAsyncResult* BeginDownloadToFile(
    String* path,
    FileMode mode,
    AsyncCallback* callback,
    Object* state
)

F#

abstract BeginDownloadToFile :
    path:string *
    mode:FileMode *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

VB

Function BeginDownloadToFile (path As String,
    mode As FileMode,
    callback As AsyncCallback,
See Also

BeginDownloadToFile Overload
ICloudBlob Interface

Return to top
ICloudBlob::BeginDownloadToStream Method

C# ++ F# VB


See Also
Begins an asynchronous operation to download the contents of a blob to a stream.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://msdn.microsoft.com/)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

ICancellableAsyncResult BeginDownloadToStream(
    Stream target,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++

ICancellableAsyncResult* BeginDownloadToStream(
    Stream* target,
    AccessCondition* accessCondition,
    BlobRequestOptions* options,
    OperationContext* operationContext,
    AsyncCallback* callback,
    Object* state
)

F#

abstract BeginDownloadToStream : 
    target:Stream *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
See Also

BeginDownloadToStream_Overload
ICloudBlob Interface

Return to top
ICloudBlob......BeginDownloadToStream Method
(Stream, AsyncCallback, Object)(Stream^,
AsyncCallback^, Object^)(Stream, AsyncCallback, Object)
(Stream, AsyncCallback, Object)
See Also
Begins an asynchronous operation to download the contents of a blob to a stream.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C# Copy Code

ICancellableAsyncResult BeginDownloadToStream(
    Stream target,
    AsyncCallback callback,
    object state
)

C++ Copy Code

ICancellableAsyncResult^ BeginDownloadToStream(
    Stream^ target,
    AsyncCallback^ callback,
    Object^ state
)

F# Copy Code

abstract BeginDownloadToStream :
    target:Stream *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

VB Copy Code

Function BeginDownloadToStream (target As Stream,
    callback As AsyncCallback,
    state As Object
) As ICancellableAsyncResult
See Also

BeginDownloadToStream Overload
ICloudBlob Interface

Return to top
ICloudBlob...BeginExists Method
(AsyncCallback, Object)(AsyncCallback^, Object^)(AsyncCallback, Object)(AsyncCallback, Object)
See Also
Begins an asynchronous request to check existence of the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
ICancellableAsyncResult BeginExists(
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
ICancellableAsyncResult^ BeginExists(
    AsyncCallback^ callback,
    Object^ state
)
```

F#  

```fsharp
abstract BeginExists :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```

VB  

```vbnet
Function BeginExists (  
    callback As AsyncCallback,
    state As Object  
) As ICancellableAsyncResult
```

Parameters

`callback`  
Type:
See Also

BeginExists Overload
ICloudBlob Interface

Return to top
ICloudBlob...BeginExists Method
(BlobRequestOptions, OperationContext, AsyncCallback, Object)
(BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)
(BlobRequestOptions, OperationContext, AsyncCallback, Object)
(BlobRequestOptions, OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous request to check existence of the blob.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
ICancellableAsyncResult BeginExists(
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++  
ICancellableAsyncResult\* BeginExists(
    BlobRequestOptions\* options,
    OperationContext\* operationContext,
    AsyncCallback\* callback,
    Object\* state
)

F#  
abstract BeginExists :
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

VB  
Function BeginExists (  
    options As BlobRequestOptions,
    operationContext As OperationContext,
    callback As AsyncCallback,
See Also

- BeginExists Overload
- ICloudBlob Interface

Return to top
ICloudBlob......BeginFetchAttributes Method
(AccessCondition, BlobRequestOptions,
OperationContext, AsyncCallback, Object)(AccessCondition^,
BlobRequestOptions^, OperationContext^, AsyncCallback^,
Object^)(AccessCondition, BlobRequestOptions,
OperationContext, AsyncCallback, Object)(AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)
See Also
Begins an asynchronous operation to populate the blob's properties and metadata.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
ICancellableAsyncResult BeginFetchAttributes(
    AccessCondition accessCondition,  
    BlobRequestOptions options,  
    OperationContext operationContext,  
    AsyncCallback callback,  
    object state
)

C++  
ICancellableAsyncResult* BeginFetchAttributes(
    AccessCondition* accessCondition,  
    BlobRequestOptions* options,  
    OperationContext* operationContext,  
    AsyncCallback* callback,  
    Object* state
)

F#  
abstract BeginFetchAttributes :  
    accessCondition:AccessCondition *  
    options:BlobRequestOptions *  
    operationContext:OperationContext *  
    callback:AsyncCallback *  
    state:Object -> ICancellableAsyncResult

VB  
Function BeginFetchAttributes (  
    accessCondition As AccessCondition,  
    options As BlobRequestOptions,  
    operationContext As OperationContext,  
    callback As AsyncCallback,  
    state As Object) As ICancellableAsyncResult
See Also

BeginFetchAttributes_ Overload
ICloudBlob Interface

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See Also
Begins an asynchronous operation to populate the blob's properties and metadata.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
ICancellableAsyncResult BeginFetchAttributes(
    AsyncCallback callback,
    object state
)
```

C++  
```cpp
ICancellableAsyncResult^ BeginFetchAttributes(
    AsyncCallback^ callback,
    Object^ state
)
```

F#  
```fsharp
abstract BeginFetchAttributes :
    callback:AsyncCallback -> ICancellableAsyncResult
```

VB  
```vbnet
Function BeginFetchAttributes (    callback As AsyncCallback,
    state As Object ) As ICancellableAsyncResult
```

Parameters

**callback**

Type:
See Also

- BeginFetchAttributes Overload
- ICloudBlob Interface

Return to top
ICloudBlob.::.BeginOpenRead Method

(Credentials, BlobRequestOptions,
OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to open a stream for reading from the blob

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://aka.ms/namespace)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
ICancellableAsyncResult BeginOpenRead(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

**C++**

```cpp
ICancellableAsyncResult* BeginOpenRead(
    AccessCondition* accessCondition,
    BlobRequestOptions* options,
    OperationContext* operationContext,
    AsyncCallback* callback,
    Object* state
)
```

**F#**

```fsharp
abstract BeginOpenRead :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```

**VB**

```vb
Function BeginOpenRead (  
    accessCondition,  
    options,  
    operationContext,  
    callback,  
    state
)  
```

Copy Code
Remarks

On the Stream object returned by the EndOpenRead method, the EndRead method must be called exactly once for every BeginRead call. Failing to end the read process before beginning another read process can cause unexpected behavior.

Note that this method always makes a call to the BeginFetchAttributes method under the covers.

Set the StreamMinimumReadSizeInBytes property before calling this method to specify the minimum number of bytes to buffer when reading from the stream. The value must be at least 16 KB.
See Also

BeginOpenRead Overload
ICloudBlob Interface

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ICloudBlob..:..BeginOpenRead Method
(AsyncCallback, Object)(AsyncCallback^, Object^)(AsyncCallback, Object)(AsyncCallback, Object)

See Also
Begins an asynchronous operation to open a stream for reading from the blob


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

ICancellableAsyncResult BeginOpenRead(
    AsyncCallback callback,
    object state
)

C++

ICancellableAsyncResult^ BeginOpenRead(
    AsyncCallback^ callback,
    Object^ state
)

F#

abstract BeginOpenRead :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

VB

Function BeginOpenRead (callback As AsyncCallback, state As Object) As ICancellableAsyncResult

Parameters

callback
    Type:
**Remarks**

On the Stream object returned by the [EndOpenRead](#) method, the EndRead method must be called exactly once for every BeginRead call. Failing to end the read process before beginning another read process can cause unexpected behavior.

Note that this method always makes a call to the [BeginFetchAttributes](#) method under the covers.

Set the [StreamMinimumReadSizeInBytes](#) property before calling this method to specify the minimum number of bytes to buffer when reading from the stream. The value must be at least 16 KB.
See Also

BeginOpenRead_Overload
ICloudBlob Interface

Return to top
ICloudBlob::BeginReleaseLease Method

(CAccessCondition, AsyncCallback, Object)
(CAccessCondition^, AsyncCallback^, Object^)
(CAccessCondition, AsyncCallback, Object)(CAccessCondition, AsyncCallback, Object)

See Also
Begins an asynchronous operation to release the lease on this blob.

## Syntax

### C#  

```csharp
ICancellableAsyncResult BeginReleaseLease(
    AccessCondition accessCondition,
    AsyncCallback callback,
    object state
)
```

### C++  

```cpp
ICancellableAsyncResult^ BeginReleaseLease(
    AccessCondition^ accessCondition,
    AsyncCallback^ callback,
    Object^ state
)
```

### F#  

```fsharp
abstract BeginReleaseLease :
    accessCondition:AccessCondition * 
    callback:AsyncCallback * 
    state:Object -> ICancellableAsyncResult
```

### VB  

```vb
Function BeginReleaseLease ( 
    accessCondition As AccessCondition, 
    callback As AsyncCallback, 
    state As Object 
) As ICancellableAsyncResult
```
See Also

BeginReleaseLease Overload
ICloudBlob Interface

Return to top
ICloudBlob::BeginReleaseLease Method

(ACCESSCONDITION, BLOBREQUESTOPTIONS,
OPERATIONCONTEXT, ASYNCCALLBACK, OBJECT)(ACCESSCONDITION, BLOBREQUESTOPTIONS, OPERATIONCONTEXT, ASYNCCALLBACK, OBJECT)

See Also
Begins an asynchronous operation to release the lease on this blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://microsoft.windowsazure.storage.blob)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  Copy Code
ICancellableAsyncResult BeginReleaseLease(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++  Copy Code
ICancellableAsyncResult^ BeginReleaseLease(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#  Copy Code
abstract BeginReleaseLease : 
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

VB  Copy Code
Function BeginReleaseLease ( 
    accessCondition As AccessCondition,
    options As BlobRequestOptions,
    operationContext As OperationContext,
    callback As AsyncCallback,
    state As Object
)
See Also

BeginReleaseLease Overload
ICloudBlob Interface

Return to top
**ICloudBlob:**...BeginRenewLease Method

(CAccessCondition, AsyncCallback, Object)
(CAccessCondition^, AsyncCallback^, Object^)
(CAccessCondition, AsyncCallback, Object)(CAccessCondition, AsyncCallback, Object)

See Also
Begins an asynchronous operation to renew a lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
ICancellableAsyncResult BeginRenewLease(
    AccessCondition accessCondition,
    AsyncCallback callback,
    object state
)

C++  
ICancellableAsyncResult^ BeginRenewLease(
    AccessCondition^ accessCondition,
    AsyncCallback^ callback,
    Object^ state
)

F#  
abstract BeginRenewLease : 
    accessCondition:AccessCondition *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

VB  
Function BeginRenewLease ( 
    accessCondition As AccessCondition,
    callback As AsyncCallback,
    state As Object
) As ICancellableAsyncResult
See Also

BeginRenewLease_Overload
ICloudBlob Interface

Return to top
ICloudBlob::BeginRenewLease Method


See Also
Begins an asynchronous operation to renew a lease on this blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
ICancellableAsyncResult BeginRenewLease(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
ICancellableAsyncResult^ BeginRenewLease(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
abstract BeginRenewLease :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```

VB

```vb
Function BeginRenewLease (      
    accessCondition As AccessCondition,      
    options As BlobRequestOptions,      
    operationContext As OperationContext,      
    callback As AsyncCallback,      
    state As Object      
) As ICancellableAsyncResult
```
See Also

BeginRenewLease Overload
ICloudBlob Interface

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ICloudBlob...BeginSetMetadata Method C# C++ F# VB
(ACCESSCONDITION, BLOBREQUESTOPTIONS,
OPERATIONCONTEXT, ASYNCCALLBACK, OBJECT)(ACCESSCONDITION^,
BLOBREQUESTOPTIONS^, OPERATIONCONTEXT^, ASYNCCALLBACK^,
OBJECT^)(ACCESSCONDITION, BLOBREQUESTOPTIONS,
OPERATIONCONTEXT, ASYNCCALLBACK, OBJECT)(ACCESSCONDITION,
BLOBREQUESTOPTIONS, OPERATIONCONTEXT, ASYNCCALLBACK,
OBJECT)

See Also
Begins an asynchronous operation to update the blob's metadata.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
ICancellableAsyncResult BeginSetMetadata(  
    AccessCondition accessCondition,  
    BlobRequestOptions options,  
    OperationContext operationContext,  
    AsyncCallback callback,  
    object state
)

C++  
ICancellableAsyncResult^ BeginSetMetadata(  
    AccessCondition^ accessCondition,  
    BlobRequestOptions^ options,  
    OperationContext^ operationContext,  
    AsyncCallback^ callback,  
    Object^ state
)

F#  
abstract BeginSetMetadata :  
    accessCondition:AccessCondition *  
    options:BlobRequestOptions *  
    operationContext:OperationContext *  
    callback:AsyncCallback *  
    state:Object -> ICancellableAsyncResult

VB  
Function BeginSetMetadata (  
    accessCondition As AccessCondition,  
    options As BlobRequestOptions,  
    operationContext As OperationContext,  
    callback As AsyncCallback,  
    state As Object
)
See Also

BeginSetMetadata_Overload
ICloudBlob Interface

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</table>

See Also
Begins an asynchronous operation to update the blob's metadata.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
ICancellableAsyncResult BeginSetMetadata(
    AsyncCallback callback,
    object state
)

C++  
ICancellableAsyncResult^ BeginSetMetadata(
    AsyncCallback^ callback,
    Object^ state
)

F#  
abstract BeginSetMetadata : 
    callback:AsyncCallback * 
    state:Object -> ICancellableAsyncResult

VB  
Function BeginSetMetadata ( 
    callback As AsyncCallback, 
    state As Object 
) As ICancellableAsyncResult

Parameters

callback
Type:
See Also

BeginSetMetadata_Overload
ICloudBlob Interface

Return to top
ICloudBlob...BeginSetProperties Method

(AccessCondition, BlobRequestOptions,
OperationContext, AsyncCallback, Object)(AccessCondition^,
BlobRequestOptions^, OperationContext^, AsyncCallback^,
Object^)(AccessCondition, BlobRequestOptions,
OperationContext, AsyncCallback, Object)(AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)

See Also
Begins an asynchronous operation to update the blob's properties.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
ICancellableAsyncResult BeginSetProperties(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++  
```cpp
ICancellableAsyncResult^ BeginSetProperties(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#  
```fsharp
abstract BeginSetProperties :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```

VB  
```vb
Function BeginSetProperties (  
    accessCondition As AccessCondition,
    options As BlobRequestOptions,
    operationContext As OperationContext,
    callback As AsyncCallback,
    state As Object
)  
```
See Also

BeginSetProperties_ Overload
ICloudBlob Interface

Return to top
**ICloudBlob...BeginSetProperties Method**

(Callback, Object)(Callback^, Object^)(Callback, Object)(Callback, Object)

See Also
Begins an asynchronous operation to update the blob's properties.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

ICancellableAsyncResult BeginSetProperties(
    AsyncCallback callback,
    object state
)

**C++**

ICancellableAsyncResult^ BeginSetProperties(
    AsyncCallback^ callback,
    Object^ state
)

**F#**

abstract BeginSetProperties :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

**VB**

Function BeginSetProperties (  
callback As AsyncCallback,
state As Object
) As ICancellableAsyncResult

**Parameters**

callback

Type:
See Also

- BeginSetProperties_Overload
- ICloudBlob Interface

Return to top
ICloudBlob..:.BeginUploadFromByteArray Method

C# C++ F# VB
(Byte[], Int32, Int32, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(array<Byte>^, Int32, Int32, AccessCondition^,
BlobRequestOptions^, OperationContext^, AsyncCallback^,
Object^)(Byte[], Int32, Int32, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(Byte(), Int32, Int32, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)

See Also
Begins an asynchronous operation to upload the contents of a byte array to a blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
ICancellableAsyncResult BeginUploadFromByteArray(
    byte[] buffer,
    int index,
    int count,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++
```cpp
ICancellableAsyncResult^ BeginUploadFromByteArray(
    array<unsigned char>^ buffer,
    int index,
    int count,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#
```fsharp
abstract BeginUploadFromByteArray : 
    buffer:byte[] *
    index:int *
    count:int *
See Also

- BeginUploadFromByteArray_Overload
- ICloudBlob Interface

Return to top
ICloudBlob....BeginUploadFromByteArray Method

(C# C++ F# VB)
(Byte[], Int32, Int32, AsyncCallback, Object)
(array<Byte>^, Int32, Int32, AsyncCallback^, Object^)
(Byte[], Int32, Int32, AsyncCallback, Object)
(Byte(), Int32, Int32, AsyncCallback, Object)

See Also
Begins an asynchronous operation to upload the contents of a byte array to a blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
ICancellableAsyncResult BeginUploadFromByteArray(
byte[] buffer,
int index,
int count,
AsyncCallback callback,
object state
)
```

C++  

```cpp
ICancellableAsyncResult^ BeginUploadFromByteArray(
array<unsigned char>^ buffer,
int index,
int count,
AsyncCallback^ callback,
Object^ state
)
```

F#  

```fsharp
abstract BeginUploadFromByteArray : 
buffer:byte[] *
index:int *
count:int *
callback:AsyncCallback *
state:Object -> ICancellableAsyncResult
```

VB  

```vbnet
Function BeginUploadFromByteArray ( 
buffer As Byte(),
index As Integer,
count As Integer,
callback As AsyncCallback,
state As Object)
```

See Also

BeginUploadFromByteArray_Overload
ICloudBlob Interface

Return to top
ICloudBlob...BeginUploadFromFile Method

See Also
Begins an asynchronous operation to upload a file to a blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
ICancellableAsyncResult BeginUploadFromFile(
    string path,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

**C++**

```cpp
ICancellableAsyncResult^ BeginUploadFromFile(
    String^ path,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

**F#**

```fsharp
abstract BeginUploadFromFile :
    path:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
See Also

BeginUploadFromFile_Overload
ICloudBlob Interface

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ICloudBlob::BeginUploadFromFile Method

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See Also
Begins an asynchronous operation to upload a file to a blob.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

### C#
```csharp
ICancellableAsyncResult BeginUploadFromFile(
    string path,
    AsyncCallback callback,
    object state
)
```

### C++
```csharp
ICancellableAsyncResult^ BeginUploadFromFile(
    String^ path,
    AsyncCallback^ callback,
    Object^ state
)
```

### F#
```fsharp
abstract BeginUploadFromFile :
    path:string *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```

### VB
```vbnet
Function BeginUploadFromFile (  
    path As String,  
    callback As AsyncCallback,  
    state As Object
) As ICancellableAsyncResult
```
See Also

BeginUploadFromFile_Overload
ICloudBlob Interface

Return to top
ICloudBlob::BeginUploadFromStream Method

See Also
Begins an asynchronous operation to upload a stream to a blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https:// goto.microsoft.com/fwlink/?LinkID=852583)
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  Copy Code

ICancellableAsyncResult BeginUploadFromStream(
    Stream source,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++  Copy Code

ICancellableAsyncResult^ BeginUploadFromStream(
    Stream^ source,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#  Copy Code

abstract BeginUploadFromStream : 
    source:Stream *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
See Also

- BeginUploadFromStream_Overload
- ICloudBlob Interface

Return to top
ICloudBlob.....BeginUploadFromStream Method (Stream, AsyncCallback, Object)(Stream^, AsyncCallback^, Object^)(Stream, AsyncCallback, Object) (Stream, AsyncCallback, Object)

See Also
Begins an asynchronous operation to upload a stream to a blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
ICancellableAsyncResult BeginUploadFromStream(
    Stream source,
    AsyncCallback callback,  
    object state
)

C++  
ICancellableAsyncResult^ BeginUploadFromStream(
    Stream^ source,  
    AsyncCallback^ callback,  
    Object^ state
)

F#  
abstract BeginUploadFromStream : 
    source:Stream * 
    callback:AsyncCallback * 
    state:Object -> ICancellableAsyncResult

VB  
Function BeginUploadFromStream ( 
    source As Stream, 
    callback As AsyncCallback, 
    state As Object
) As ICancellableAsyncResult
See Also

BeginUploadFromStream_Overload
ICloudBlob Interface

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ICloudBlob....BeginUploadFromStream Method
(Stream, Int64, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(Stream^, Int64, AccessCondition^,
BlobRequestOptions^, OperationContext^, AsyncCallback^,
Object^)(Stream, Int64, AccessCondition,
BlobRequestOptions, OperationContext, AsyncCallback,
Object)(Stream, Int64, AccessCondition, BlobRequestOptions,
OperationContext, AsyncCallback, Object)
See Also
Begins an asynchronous operation to upload a stream to a blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

ICancellableAsyncResult BeginUploadFromStream(
    Stream source,
    long length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++  

ICancellableAsyncResult^ BeginUploadFromStream(
    Stream^ source,
    long long length,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#  

abstract BeginUploadFromStream : 
    source:Stream *
    length:int64 *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
See Also

- BeginUploadFromStream_Overload
- ICloudBlob Interface
ICloudBlob::BeginUploadFromStream Method

C#  C++  F#  VB
(Stream, Int64, AsyncCallback, Object)(Stream^, Int64, AsyncCallback^, Object^)(Stream, Int64, AsyncCallback, Object)(Stream, Int64, AsyncCallback, Object)

See Also
Begins an asynchronous operation to upload a stream to a block blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

ICancellableAsyncResult BeginUploadFromStream(
    Stream source,
    long length,
    AsyncCallback callback,
    object state
)

C++

ICancellableAsyncResult^ BeginUploadFromStream(
    Stream^ source,
    long long length,
    AsyncCallback^ callback,
    Object^ state
)

F#

abstract BeginUploadFromStream :
    source:Stream *
    length:int64 *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

VB

Function BeginUploadFromStream (
    source As Stream,
    length As Long,
    callback As AsyncCallback,
)
See Also

BeginUploadFromStream_Overload
ICloudBlob Interface

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See Also
Initiates an asynchronous operation to break the current lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Task<TimeSpan> BreakLeaseAsync(
    Nullable<TimeSpan> breakPeriod
)

C++  
Task<TimeSpan> BreakLeaseAsync(
    Nullable<TimeSpan> breakPeriod
)

F#  
abstract BreakLeaseAsync :
    breakPeriod:Nullable<TimeSpan> -> Task<TimeSpan>

VB  
Function BreakLeaseAsync (  
    breakPeriod As Nullable(Of TimeSpan)  
) As Task(Of TimeSpan)

Parameters

breakPeriod  
Type:  

A TimeSpan representing the amount of time to allow the lease to remain, which will be rounded down to seconds.
See Also

BreakLeaseAsync_Overload
ICloudBlob Interface

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ICloudBlob....BreakLeaseAsync Method
(Nullable<TimeSpan>, AccessCondition,
BlobRequestOptions, OperationContext)(Nullable<TimeSpan>,
AccessCondition^, BlobRequestOptions^, OperationContext^)
(Nullable<TimeSpan>, AccessCondition, BlobRequestOptions,
OperationContext)(Nullable(Of TimeSpan), AccessCondition,
BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to break the current lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
Task<TimeSpan> BreakLeaseAsync(
    Nullable<TimeSpan> breakPeriod,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++  

```cpp
Task<TimeSpan>^ BreakLeaseAsync(
    Nullable<TimeSpan> breakPeriod,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#  

```fsharp
abstract BreakLeaseAsync :
    breakPeriod:Nullable<TimeSpan>  *
    accessCondition:AccessCondition  *
    options:BlobRequestOptions  *
    operationContext:OperationContext  ->  Task<TimeSpan>
```

VB  

```vb
Function BreakLeaseAsync (    breakPeriod As Nullable(Of TimeSpan),
    accessCondition As AccessCondition,
    options As BlobRequestOptions,
```
See Also

BreakLeaseAsync_Overload
ICloudBlob Interface

Return to top
ICloudBlob:::BreakLeaseAsync Method
(Nullable<TimeSpan>, AccessCondition,
BlobRequestOptions, OperationContext, CancellationToken)
(Nullable<TimeSpan>, AccessCondition^,
BlobRequestOptions^, OperationContext^, CancellationToken)
(Nullable<TimeSpan>, AccessCondition, BlobRequestOptions,
OperationContext, CancellationToken)(Nullable(Of
TimeSpan), AccessCondition, BlobRequestOptions,
OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to break the current lease on this blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/WindowsAzure/azure-sdk-for-net/tree/master/sdk/storage/windows/PublishProfiles/1.9.0
to 1.9.1)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  Copy Code
Task<TimeSpan> BreakLeaseAsync(
    Nullable<TimeSpan> breakPeriod,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++  Copy Code
Task<TimeSpan>^ BreakLeaseAsync(
    Nullable<TimeSpan> ^breakPeriod,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
   CancellationToken cancellationToken
)

F#  Copy Code
abstract BreakLeaseAsync :
    breakPeriod:Nullable<TimeSpan> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->

VB  Copy Code
Function BreakLeaseAsync (  
    breakPeriod As Nullable(Of TimeSpan),
    accessCondition As AccessCondition,
    options As BlobRequestOptions,
    operationContext As OperationContext,
    cancellationToken As CancellationToken)

See Also

- BreakLeaseAsync_Overload
- ICloudBlob Interface

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See Also
Initiates an asynchronous operation to break the current lease on this blob.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
Task<TimeSpan> BreakLeaseAsync(
    Nullable<TimeSpan> breakPeriod,
    CancellationToken cancellationToken
)
```

**C++**

```cpp
Task<TimeSpan>^ BreakLeaseAsync(
    Nullable<TimeSpan> breakPeriod,
    CancellationToken cancellationToken
)
```

**F#**

```fsharp
abstract BreakLeaseAsync :
    breakPeriod:Nullable<TimeSpan> *
    cancellationToken:CancellationToken ->
```

**VB**

```vb
Function BreakLeaseAsync (    breakPeriod As Nullable(Of TimeSpan),
    cancellationToken As CancellationToken) ) As Task(Of TimeSpan)
```

### Parameters

**breakPeriod**

Type:
See Also

- BreakLeaseAsync_Overload
- ICloudBlob Interface

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ICloudBlob.ChangeLeaseAsync Method (String, AccessCondition)
(String^, AccessCondition^)
(String, AccessCondition)(String, AccessCondition)

See Also
Initiates an asynchronous operation to change the lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Task<string> ChangeLeaseAsync( 
    string proposedLeaseId, 
    AccessCondition accessCondition 
)

C++  
Task<String^>^ ChangeLeaseAsync( 
    String^ proposedLeaseId, 
    AccessCondition^ accessCondition 
)

F#  
abstract ChangeLeaseAsync : 
    proposedLeaseId:string * 
    accessCondition:AccessCondition -> Task<string>

VB  
Function ChangeLeaseAsync ( 
    proposedLeaseId As String, 
    accessCondition As AccessCondition 
) As Task(Of String)

Parameters

proposedLeaseId
Type: System.StringSystem::String^System.StringSystem.String
See Also

ChangeLeaseAsync_Overload
ICloudBlob Interface

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See Also
Initiates an asynchronous operation to change the lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
Task<string> ChangeLeaseAsync(
    string proposedLeaseId,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext)
```

**C++**

```cpp
Task<String^>^ ChangeLeaseAsync(
    String^ proposedLeaseId,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext)
```

**F#**

```fsharp
abstract ChangeLeaseAsync :
    proposedLeaseId:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<string>
```

**VB**

```vbnet
Function ChangeLeaseAsync (proposedLeaseId As String,
                           accessCondition As AccessCondition,
                           options As BlobRequestOptions,
```
See Also

ChangeLeaseAsync Overload
ICloudBlob Interface

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See Also
Initiates an asynchronous operation to change the lease on this blob.

Syntax

C#  
Task<string> ChangeLeaseAsync(
    string proposedLeaseId,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++  
Task<String^>^ ChangeLeaseAsync(
    String^ proposedLeaseId,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#  
abstract ChangeLeaseAsync :
    proposedLeaseId:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->

VB  
Function ChangeLeaseAsync (}
See Also

- ChangeLeaseAsync Overload
- ICloudBlob Interface

Return to top
ICloudBlob:::ChangeLeaseAsync Method (String, AccessCondition, CancellationToken)(String^, AccessCondition^, CancellationToken)(String, AccessCondition, CancellationToken)(String, AccessCondition, CancellationToken)
See Also
Initiates an asynchronous operation to change the lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
Task<string> ChangeLeaseAsync(
    string proposedLeaseId,
    AccessCondition accessCondition,
    CancellationToken cancellationToken
)
```

C++

```cpp
Task<String^>^ ChangeLeaseAsync(
    String^ proposedLeaseId,
    AccessCondition^ accessCondition,
    CancellationToken cancellationToken
)
```

F#

```fsharp
abstract ChangeLeaseAsync :
    proposedLeaseId:string *
    accessCondition:AccessCondition *
    cancellationToken:CancellationTokenToken ->
```

VB

```vb
Function ChangeLeaseAsync (  
    proposedLeaseId As String,  
    accessCondition As AccessCondition,  
    cancellationToken As CancellationToken  
) As Task(Of String)
```
See Also

ChangeLeaseAsync Overload
ICloudBlob Interface

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**See Also**
Initiates an asynchronous operation to delete the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
Task DeleteAsync()
```

**C++**

```cpp
Task^ DeleteAsync()
```

**F#**

```fsharp
abstract DeleteAsync : unit -> Task
```

**VB**

```vb
Function DeleteAsync As Task
```

### Return Value

Type:  

```csharp
System.Threading.Tasks.Task
```

A Task object that represents the asynchronous operation.
See Also

DeleteAsync_Overload
ICloudBlob Interface

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**See Also**
Initiates an asynchronous operation to delete the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Task DeleteAsync(
    CancellationToken cancellationToken
)

C++  
Task^ DeleteAsync(
    CancellationToken cancellationToken
)

F#  
abstract DeleteAsync :
    cancellationToken:CancellationToken ->

VB  
Function DeleteAsync (  
    cancellationToken As CancellationToken
) As Task

Parameters

cancellationToken  
Type:  
System.Threading.CancellationTokenSystem::Threading::CancellationToken  
A CancellationToken to observe while waiting for a task to complete.
See Also

DeleteAsync_Overload
ICloudBlob Interface

Return to top
ICloudBlob..DeleteAsync Method

(DeleteSnapshotsOption, AccessCondition, BlobRequestOptions, OperationContext)
(DeleteSnapshotsOption, AccessCondition^, BlobRequestOptions^, OperationContext^)
(DeleteSnapshotsOption, AccessCondition, BlobRequestOptions, OperationContext)
(DeleteSnapshotsOption, AccessCondition, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to delete the blob.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

Task DeleteAsync(
    DeleteSnapshotsOption deleteSnapshotsOption,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++

Task^ DeleteAsync(
    DeleteSnapshotsOption deleteSnapshotsOption,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#

abstract DeleteAsync :
    deleteSnapshotsOption:DeleteSnapshotsOption
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task

VB

Function DeleteAsync (
    deleteSnapshotsOption As DeleteSnapshotsOption,
    accessCondition As AccessCondition,
    options As BlobRequestOptions,
    operationContext As OperationContext
) As Task
See Also

DeleteAsync_ Overload
ICloudBlob Interface

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ICloudBlob..:..DeleteAsync Method
(DeleteSnapshotsOption, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(DeleteSnapshotsOption, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)
(DeleteSnapshotsOption, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)
(DeleteSnapshotsOption, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to delete the blob.

Syntax

C#  
Task DeleteAsync(
    DeleteSnapshotsOption deleteSnapshotsOption,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++
Task<
    DeleteSnapshotsOption deleteSnapshotsOption,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
>

F#  
abstract DeleteAsync :
    deleteSnapshotsOption:DeleteSnapshotsOption
    accessCondition:AccessCondition
    options:BlobRequestOptions
    operationContext:OperationContext
    cancellationToken:CancellationToken ->

VB
Function DeleteAsync (  
    deleteSnapshotsOption As DeleteSnapshotsOption,
    accessCondition As AccessCondition,
    options As BlobRequestOptions,
    operationContext As OperationContext,
    cancellationToken As CancellationToken
)
See Also

DeleteAsync_ Overload
ICloudBlob Interface

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ICloudBlob.....DeleteIfExistsAsync Method (0000)  C#C++F#VB
See Also
Initiates an asynchronous operation to delete the blob if it already exists.

Syntax

C#  
Task<bool> DeleteIfExistsAsync()

C++  
Task<bool>^ DeleteIfExistsAsync()

F#  
abstract DeleteIfExistsAsync : unit -> Task<bool>

VB  
Function DeleteIfExistsAsync As Task(Of Boolean

Return Value

Type: 
A Task object of type bool that represents the asynchronous operation.
See Also

DeleteIfExistsAsync_ Overload
ICloudBlob Interface
ICloudBlob:::DeleteIfExistsAsync Method (CancellationToken)(CancellationToken) (CancellationToken)(CancellationToken)

See Also
Initiates an asynchronous operation to delete the blob if it already exists.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/Azure/azure-storage-net)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
Task<bool> DeleteIfExistsAsync(
    CancellationToken cancellationToken
)
```

C++  
```cpp
Task<bool> DeleteIfExistsAsync(
    CancellationToken cancellationToken
)
```

F#  
```fsharp
abstract DeleteIfExistsAsync :
    cancellationToken:CancellationToken ->
```

VB  
```vbnet
Function DeleteIfExistsAsync (    cancellationToken As CancellationToken    ) As Task(Of Boolean)
```

Parameters

`cancellationToken`  
Type:  
`System.Threading.CancellationToken`  
A CancellationToken to observe while waiting for a task to complete.
See Also

DeleteIfExistsAsync_ Overload
ICloudBlob Interface

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ICloudBlob..DeleteIfExistsAsync Method
(DeleteSnapshotsOption, AccessCondition,
BlobRequestOptions, OperationContext)
(DeleteSnapshotsOption, AccessCondition^,
BlobRequestOptions^, OperationContext^)
(DeleteSnapshotsOption, AccessCondition,
BlobRequestOptions, OperationContext)
(DeleteSnapshotsOption, AccessCondition,
BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to delete the blob if it already exists.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Task<bool> DeleteIfExistsAsync(
    DeleteSnapshotsOption deleteSnapshotsOption,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++  
Task<bool>^ DeleteIfExistsAsync(
    DeleteSnapshotsOption deleteSnapshotsOption,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#  
abstract DeleteIfExistsAsync :
    deleteSnapshotsOption:DeleteSnapshotsOption *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<bool>

VB  
Function DeleteIfExistsAsync (  
    deleteSnapshotsOption As DeleteSnapshotsOption,
    accessCondition As AccessCondition,
    options As BlobRequestOptions,  
    operationContext As OperationContext
) As Task(Of Boolean)
See Also

DeleteIfExistsAsync_ Overload
ICloudBlob Interface

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ICloudBlob.

::.

DeleteIfExistsAsync Method
(DeleteSnapshotsOption, AccessCondition,
BlobRequestOptions, OperationContext, CancellationToken)
(DeleteSnapshotsOption, AccessCondition^,
BlobRequestOptions^, OperationContext^, CancellationToken)
(DeleteSnapshotsOption, AccessCondition,
BlobRequestOptions, OperationContext, CancellationToken)
(DeleteSnapshotsOption, AccessCondition,
BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to delete the blob if it already exists.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Task<bool> DeleteIfExistsAsync(  
    DeleteSnapshotsOption deleteSnapshotsOption,  
    AccessCondition accessCondition,  
    BlobRequestOptions options,  
    OperationContext operationContext,  
    CancellationToken cancellationToken
)  

C++  
Task<bool>^ DeleteIfExistsAsync(  
    DeleteSnapshotsOption deleteSnapshotsOption,  
    AccessCondition^ accessCondition,  
    BlobRequestOptions^ options,  
    OperationContext^ operationContext,  
    CancellationToken cancellationToken
)  

F#  
abstract DeleteIfExistsAsync :  
    deleteSnapshotsOption:DeleteSnapshotsOption  
    accessCondition:AccessCondition *  
    options:BlobRequestOptions *  
    operationContext:OperationContext *  
    cancellationToken:CancellationToken ->

VB  
Function DeleteIfExistsAsync (  
    deleteSnapshotsOption As DeleteSnapshotsOption,  
    accessCondition As AccessCondition,  
    options As BlobRequestOptions,  
    operationContext As OperationContext,  
    cancellationToken As CancellationToken
    )
See Also

DeleteIfExistsAsync_ Overload
ICloudBlob Interface

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ICloudBlob...DownloadRangeToByteArrayAsync  C# ++ F# VB
Method (Byte[], Int32, Nullable<Int64>,
Nullable<Int64>)(array<Byte>^, Int32, Nullable<Int64>,
Nullable<Int64>)(Byte[], Int32, Nullable<Int64>,
Nullable<Int64>)(Byte(), Int32, Nullable(Of Int64),
Nullable(Of Int64))

See Also
Initiates an asynchronous operation to download a range of bytes from a blob to a byte array.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
Task<int> DownloadRangeToByteArrayAsync(
    byte[] target,
    int index,
    Nullable<long> blobOffset,
    Nullable<long> length
)
```

C++

```cpp
Task<int> DownloadRangeToByteArrayAsync(
    array<unsigned char>* target,
    int index,
    Nullable<long long> blobOffset,
    Nullable<long long> length
)
```

F#

```fsharp
abstract DownloadRangeToByteArrayAsync :
    target:byte[] *
    index:int *
    blobOffset:Nullable<int64> *
    length:Nullable<int64> -> Task<int>
```

VB

```vb
Function DownloadRangeToByteArrayAsync (target As Byte(),
    index As Integer,
    blobOffset As Nullable(Of Long),
```
See Also

DownloadRangeToByteArrayAsync Overload
ICloudBlob Interface

Return to top
ICloudBlob...DownloadRangeToByteArrayAsync

Method (Byte[], Int32, Nullable<Int64>,
Nullable<Int64>, AccessCondition, BlobRequestOptions,
OperationContext)(array<Byte>^, Int32, Nullable<Int64>,
Nullable<Int64>, AccessCondition^, BlobRequestOptions^,
OperationContext^)(Byte[], Int32, Nullable<Int64>,
Nullable<Int64>, AccessCondition, BlobRequestOptions,
OperationContext)(Byte(), Int32, Nullable(Of Int64),
Nullable(Of Int64), AccessCondition, BlobRequestOptions,
OperationContext)

See Also
Initiates an asynchronous operation to download a range of bytes from a blob to a byte array.

Syntax

C#  

```csharp
Task<int> DownloadRangeToByteArrayAsync(
    byte[] target,
    int index,
    Nullable<long> blobOffset,
    Nullable<long> length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++  

```cpp
Task<int> DownloadRangeToByteArrayAsync(
    array<unsigned char>* target,
    int index,
    Nullable<long long> blobOffset,
    Nullable<long long> length,
    AccessCondition* accessCondition,
    BlobRequestOptions* options,
    OperationContext* operationContext
)
```

F#  

```fsharp
abstract DownloadRangeToByteArrayAsync :
    target:byte[] *
    index:int *
    blobOffset:Nullable<int64> *
    length:Nullable<int64> *
    accessCondition:AccessCondition *
```
See Also

- DownloadRangeToByteArrayAsync Overload
- ICloudBlob Interface

Return to top
ICloudBlob::DownloadRangeToByteArrayAsync (Byte[], Int32, Nullable<Int64>, Nullable<Int64>, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to download a range of bytes from a blob to a byte array.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Task<int> DownloadRangeToByteArrayAsync(
    byte[] target,
    int index,
    Nullable<long> blobOffset,
    Nullable<long> length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++  
Task<int> ^ DownloadRangeToByteArrayAsync(
    array<unsigned char> ^ target,
    int index,
    Nullable<long long> blobOffset,
    Nullable<long long> length,
    AccessCondition ^ accessCondition,
    BlobRequestOptions ^ options,
    OperationContext ^ operationContext,
    CancellationToken cancellationToken
)

F#  
abstract DownloadRangeToByteArrayAsync : 
    target:byte[] *
    index:int *
    blobOffset:Nullable<int64> *
    length:Nullable<int64> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken *
See Also

DownloadRangeToByteArrayAsync Overload
ICloudBlob Interface

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ICloudBlob::DownloadRangeToByteArrayAsync Method (Byte[], Int32, Nullable<Int64>, Nullable<Int64>, CancellationToken)(array<Byte>^, Int32, Nullable<Int64>, Nullable<Int64>, CancellationToken)(Byte[], Int32, Nullable<Int64>, Nullable<Int64>, CancellationToken)(Byte(), Int32, Nullable(Of Int64), Nullable(Of Int64), CancellationToken)

See Also
Initiates an asynchronous operation to download a range of bytes from a blob to a byte array.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://go.microsoft.com/fwlink/?LinkID=245254)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
Task<int> DownloadRangeToByteArrayAsync(
    byte[] target,
    int index,
    Nullable<long> blobOffset,
    Nullable<long> length,
    CancellationToken cancellationToken
)
```

C++

```cpp
Task<int> ^ DownloadRangeToByteArrayAsync(
    array<unsigned char> ^ target,
    int index,
    Nullable<long> blobOffset,
    Nullable<long> length,
    CancellationToken cancellationToken
)
```

F#

```fsharp
abstract DownloadRangeToByteArrayAsync :
    target:byte[] * 
    index:int * 
    blobOffset:Nullable<int64> * 
    length:Nullable<int64> * 
    cancellationToken:CancellationToken ->
```

VB

```vb
Function DownloadRangeToByteArrayAsync ( 
    target As Byte() , 
    index As Integer , 
    blobOffset As Nullable(Of Long) , 
    length As Nullable(Of Long) , 
    cancellationToken As CancellationToken )
```
See Also

DownloadRangeToByteArrayAsync Overload
ICloudBlob Interface

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ICloudBlob::DownloadRangeToStreamAsync C# C++ F# VB
Method (Stream, Nullable<Int64>, Nullable<Int64>)(Stream, Nullable<Int64>, Nullable<Int64>)(Stream, Nullable<Int64>, Nullable<Int64>)(Stream, Nullable(Of Int64), Nullable(Of Int64))

See Also
Initiates an asynchronous operation to download a range of bytes from a blob
to a stream.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in
Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
Task DownloadRangeToStreamAsync(
    Stream target,
    Nullable<long> offset,
    Nullable<long> length
)
```

**C++**

```cpp
Task^ DownloadRangeToStreamAsync(
    Stream^ target,
    Nullable<long> offset,
    Nullable<long> length
)
```

**F#**

```fsharp
abstract DownloadRangeToStreamAsync :
    target:Stream *
    offset:Nullable<int64> *
    length:Nullable<int64> -> Task
```

**VB**

```vb
Function DownloadRangeToStreamAsync (            target As Stream,
    offset As Nullable(Of Long),
    length As Nullable(Of Long)
) As Task
```
See Also

DownloadRangeToStreamAsync Overload
ICloudBlob Interface

Return to top
ICloudBlob::DownloadRangeToStreamAsync

Method (Stream, Nullable<Int64>,
Nullable<Int64>, AccessCondition, BlobRequestOptions,
OperationContext)(Stream^, Nullable<Int64>,
Nullable<Int64>, AccessCondition^, BlobRequestOptions^,
OperationContext^)(Stream, Nullable<Int64>,
Nullable<Int64>, AccessCondition, BlobRequestOptions,
OperationContext)(Stream, Nullable(Of Int64), Nullable(Of Int64), AccessCondition, BlobRequestOptions,
OperationContext)

See Also
Initiates an asynchronous operation to download a range of bytes from a blob to a stream.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
Task DownloadRangeToStreamAsync(
    Stream target,
    Nullable<long> offset,
    Nullable<long> length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++  
```cpp
Task^ DownloadRangeToStreamAsync(
    Stream^ target,
    Nullable<long> offset,
    Nullable<long> length,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#  
```fsharp
abstract DownloadRangeToStreamAsync :
    target:Stream *
    offset:Nullable<int64> *
    length:Nullable<int64> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task
```
See Also

DownloadRangeToStreamAsync_Overload
ICloudBlob Interface

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ICloudBlob.DownloadRangeToStreamAsync Method (Stream, Nullable<Int64>, Nullable<Int64>, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(Stream, Nullable<Int64>, Nullable<Int64>, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(Stream, Nullable(Of Int64), Nullable(Of Int64), AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to download a range of bytes from a blob to a stream.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
Task DownloadRangeToStreamAsync(
    Stream target,
    Nullable<long> offset,
    Nullable<long> length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++

```cpp
Task^ DownloadRangeToStreamAsync(
    Stream^ target,
    Nullable<long long> offset,
    Nullable<long long> length,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#

```fsharp
abstract DownloadRangeToStreamAsync :
    target:Stream *
    offset:Nullable<int64> *
    length:Nullable<int64> *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    cancellationToken:CancellationToken -> Task
```
See Also

DownloadRangeToStreamAsync_Overload
ICloudBlob Interface

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ICloudBlob....DownloadRangeToStreamAsync
Method (Stream, Nullable<Int64>,
Nullable<Int64>, CancellationToken)(Stream^,
Nullable<Int64>, Nullable<Int64>, CancellationToken)
(Stream, Nullable<Int64>, Nullable<Int64>,
CancellationToken)(Stream, Nullable(Of Int64), Nullable(Of
Int64), CancellationToken)
See Also
Initiates an asynchronous operation to download a range of bytes from a blob to a stream.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
Task DownloadRangeToStreamAsync(
    Stream target,
    Nullable<long> offset,
    Nullable<long> length,
    CancellationToken cancellationToken
)
```

**C++**

```cpp
Task^ DownloadRangeToStreamAsync(
    Stream^ target,
    Nullable<long> offset,
    Nullable<long> length,
    CancellationToken cancellationToken
)
```

**F#**

```fsharp
abstract DownloadRangeToStreamAsync :
    target:Stream *
    offset:Nullable<int64> *
    length:Nullable<int64> *
    cancellationToken:CancellationToken ->
```

**VB**

```vb
Function DownloadRangeToStreamAsync (target As Stream,
offset As Nullable(Of Long),
length As Nullable(Of Long),
```
See Also

DownloadRangeToStreamAsync Overload
ICloudBlob Interface

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See Also
Initiates an asynchronous operation to download the contents of a blob to a byte array.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/Azure/azure-storage-net/tree/release/6.0-preview.1)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
Task<int> DownloadToByteArrayAsync(
    byte[] target,
    int index
)
```

C++

```cpp
Task<int> DownloadToByteArrayAsync(
    array<unsigned char>^ target,
    int index
)
```

F#

```fsharp
abstract DownloadToByteArrayAsync :
    target:byte[] *
    index:int -> Task<int>
```

VB

```vb
Function DownloadToByteArrayAsync (target As Byte(),
    index As Integer
) As Task(Of Integer)
```

Parameters

`target`
Type: `System.Byte[]`
See Also

DownloadToByteArrayAsync Overload
ICloudBlob Interface

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ICloudBlob....DownloadToByteArrayAsync Method

See Also
Initiates an asynchronous operation to download the contents of a blob to a byte array.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
Task<int> DownloadToByteArrayAsync(
    byte[] target,
    int index,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

**C++**

```cpp
Task<int>^ DownloadToByteArrayAsync(
    array<unsigned char>^ target,
    int index,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

**F#**

```fsharp
abstract DownloadToByteArrayAsync :
    target:byte[] *
    index:int *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<int>
```

**VB**

```vbnet
Function DownloadToByteArrayAsync (   
) As Integer
```
See Also

DownloadToByteArrayAsync_Overload
ICloudBlob Interface

Return to top
ICloudBlob.DownloadToByteArrayAsync Method

C#:

```csharp
DownloadToByteArrayAsync(Byte[], Int32, AccessCondition,
BlobRequestOptions, OperationContext, CancellationToken)
```

C++:

```cpp
DownloadToByteArrayAsync(array<Byte>^, Int32, AccessCondition^,
BlobRequestOptions^, OperationContext^, CancellationToken)
```

F#:

```fsharp
DownloadToByteArrayAsync(Byte[], Int32, AccessCondition,
BlobRequestOptions, OperationContext, CancellationToken)
```

VB:

```vbnet
DownloadToByteArrayAsync(Byte(), Int32, AccessCondition,
BlobRequestOptions, OperationContext, CancellationToken)
```

See Also
Initiates an asynchronous operation to download the contents of a blob to a byte array.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Task<int> DownloadToByteArrayAsync(
    byte[] target,
    int index,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++  
Task<int>^ DownloadToByteArrayAsync(
    array<unsigned char>^ target,
    int index,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#  
abstract DownloadToByteArrayAsync :
    target:byte[] *
    index:int *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->

See Also

DownloadToByteArrayAsync_Overload
ICloudBlob Interface

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ICloudBlob....DownloadToByteArrayAsync Method

C# C++ F# VB
(Byte[], Int32, CancellationToken)(array<Byte>^, Int32, CancellationToken)(Byte[], Int32, CancellationToken)(Byte(), Int32, CancellationToken)

See Also
Initiates an asynchronous operation to download the contents of a blob to a byte array.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Task<int> DownloadToByteArrayAsync(
    byte[] target,
    int index,
    CancellationToken cancellationToken
)

C++
Task<int> DownloadToByteArrayAsync(
    array<unsigned char> target,
    int index,
    CancellationToken cancellationToken
)

F#
abstract DownloadToByteArrayAsync :
    target:byte[] *
    index:int *
    cancellationToken:CancellationToken ->

VB
Function DownloadToByteArrayAsync (  
    target As Byte(),
    index As Integer,
    cancellationToken As CancellationToken
) As Task(Of Integer)
See Also

DownloadToByteArrayAsync_Overload
ICloudBlob Interface

Return to top
ICloudBlob....DownloadToFileAsync Method
(String, FileMode)(String^, FileMode)(String, FileMode)(String, FileMode)

See Also
Initiates an asynchronous operation to download the contents of a blob to a file.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

Task DownloadToFileAsync(
    string path,
    FileMode mode
)

C++

Task^ DownloadToFileAsync(
    String^ path,
    FileMode mode
)

F#

abstract DownloadToFileAsync :
    path:string *
    mode:FileMode -> Task

VB

Function DownloadToFileAsync (  
    path As String,  
    mode As FileMode  
) As Task

Parameters

path
Type: System.StringSystem::String^System.StringSystem.String
See Also

DownloadToFileAsync Overload
ICloudBlob Interface

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ICloudBlob.::DownloadToFileAsync Method
(String, FileMode, AccessCondition,
BlobRequestOptions, OperationContext)
(String^, FileMode, 
AccessCondition^, BlobRequestOptions^, OperationContext^)
(String, FileMode, AccessCondition, BlobRequestOptions, 
OperationContext)(String, FileMode, AccessCondition, 
BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to download the contents of a blob to a file.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Task DownloadToFileAsync(
    string path,
    FileMode mode,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++  
Task^ DownloadToFileAsync(
    String^ path,
    FileMode mode,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#  
apabstract DownloadToFileAsync :
    path: string *
    mode: FileMode *
    accessCondition: AccessCondition *
    options: BlobRequestOptions *
    operationContext: OperationContext -> Task

VB  
Function DownloadToFileAsync (}
See Also

DownloadToFileAsync_Overload
ICloudBlob Interface

Return to top
ICloudBlob::DownloadToFileAsync Method

C# C++ F# VB

```
DownloadToFileAsync
DownloadToFileAsync
DownloadToFileAsync
DownloadToFileAsync
```

See Also
Initiates an asynchronous operation to download the contents of a blob to a file.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
Task DownloadToFileAsync(
    string path,
    FileMode mode,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

**C++**

```cpp
Task^ DownloadToFileAsync(
    String^ path,
    FileMode mode,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

**F#**

```fsharp
abstract DownloadToFileAsync :
    path:string *
    mode:FileMode *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->
```
See Also

DownloadToFileAsync_Overload
ICloudBlob Interface

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ICloudBlob.

```
DownloadToFileAsync Method
(String, FileMode, CancellationToken)
(String^, FileMode, CancellationToken)
(String, FileMode, CancellationToken)
(String, FileMode, CancellationToken)
```

See Also
Initiates an asynchronous operation to download the contents of a blob to a file.


**Syntax**

**C#**

```csharp
task DownloadToFileAsync(
    string path,
    FileMode mode,
    CancellationToken cancellationToken
)
```

**C++**

```csharp
Task^ DownloadToFileAsync(
    String^ path,
    FileMode mode,
    CancellationToken cancellationToken
)
```

**F#**

```fsharp
abstract DownloadToFileAsync :
    path:string *
    mode:FileMode *
    cancellationToken:CancellationToken ->
```

**VB**

```vb
Function DownloadToFileAsync ( path As String,
    mode As FileMode,
    cancellationToken As CancellationToken
) As Task
```
See Also

DownloadToFileAsync Overload
ICloudBlob Interface

Return to top
ICloudBlob...DownloadToStreamAsync Method (Stream)(Stream^)(Stream)(Stream)
See Also
Initiates an asynchronous operation to download the contents of a blob to a stream.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Task DownloadToStreamAsync(
    Stream target
)

C++  
Task^ DownloadToStreamAsync(
    Stream^ target
)

F#  
abstract DownloadToStreamAsync : 
    target:Stream -> Task

VB  
Function DownloadToStreamAsync ( 
    target As Stream
) As Task

Parameters

*target*  
Type: 
[System.IO.Stream](https://docs.microsoft.com/en-us/dotnet/api/system.io.stream)

A Stream object representing the target stream.
See Also

DownloadToStreamAsync_Overload
ICloudBlob Interface

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See Also
Initiates an asynchronous operation to download the contents of a blob to a stream.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**
```csharp
Task DownloadToStreamAsync(
    Stream target,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

**C++**
```cpp
Task^ DownloadToStreamAsync(
    Stream^ target,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

**F#**
```fsharp
abstract DownloadToStreamAsync :
    target:Stream *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> T
```

**VB**
```vbnet
Function DownloadToStreamAsync (target As Stream,
    accessCondition As AccessCondition,
    options As BlobRequestOptions,
) As Task
```
See Also

DownloadToStreamAsync_Overload
ICloudBlob Interface

Return to top
ICloudBlob.DownloadToStreamAsync Method

(Stream, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

(Stream^, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)

(Stream, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to download the contents of a blob to a stream.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
Task DownloadToStreamAsync(
    Stream target,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

**C++**

```cpp
Task^ DownloadToStreamAsync(
    Stream^ target,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

**F#**

```fsharp
abstract DownloadToStreamAsync : 
    target:Stream * 
    accessCondition:AccessCondition * 
    options:BlobRequestOptions * 
    operationContext:OperationContext * 
    cancellationToken:CancellationToken -> 
```

**VB**

```vbnet
Function DownloadToStreamAsync ( 
```
See Also

DownloadToStreamAsync_Overload
ICloudBlob Interface

Return to top
ICloudBlob....DownloadToStreamAsync Method

See Also
Initiates an asynchronous operation to download the contents of a blob to a stream.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
Task DownloadToStreamAsync(
    Stream target,
    CancellationToken cancellationToken
)
```

C++

```cpp
Task^ DownloadToStreamAsync(
    Stream^ target,
    CancellationToken cancellationToken
)
```

F#

```fsharp
abstract DownloadToStreamAsync :
    target:Stream *
    cancellationToken:CancellationToken ->
    Task
```

VB

```vbnet
Function DownloadToStreamAsync (  
    target As Stream,  
    cancellationToken As CancellationToken  
) As Task
```

Parameters

`target`

Type:
See Also

DownloadToStreamAsync Overload
ICloudBlob Interface

Return to top
ICloudBlob::EndAbortCopy Method
(IAsyncResult)(IAsyncResult^)(IAsyncResult)
(IAsyncResult)

See Also
Ends an asynchronous operation to abort an ongoing blob copy operation.

Syntax

C#

```csharp
void EndAbortCopy(
    IAsyncResult asyncResult
)
```

C++

```cpp
void EndAbortCopy(
    IAsyncResult^ asyncResult
)
```

F#

```fsharp
abstract EndAbortCopy :
    asyncResult:IAsyncResult -> unit
```

VB

```vbnet
Sub EndAbortCopy (    
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`  
Type: [System.IAsyncResult](https://docs.microsoft.com/en-us/dotnet/api/system.iasyncresult)  
An IAsyncResult that references the pending asynchronous operation.
See Also

ICloudBlob Interface

Return to top
ICloudBlob...EndAcquireLease Method
(IAsyncResult)(IAsyncResult^)(IAsyncResult)
(IAsyncResult)
See Also
Ends an asynchronous operation to acquire a lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
string EndAcquireLease(
    IAsyncResult asyncResult
)
```

C++  
```cpp
String^ EndAcquireLease(
    IAsyncResult^ asyncResult
)
```

F#  
```fsharp
abstract EndAcquireLease :
    asyncResult:IAsyncResult -> string
```

VB  
```vbnet
Function EndAcquireLease (  
    asyncResult As IAsyncResult
) As String
```

Parameters

`asyncResult`
Type:

System.IAsyncResult

An IAsyncResult that references the pending asynchronous operation.
See Also

ICloudBlob Interface

Return to top
ICloudBlob::EndBreakLease Method
(IAsyncResult)(IAsyncResult^)(IAsyncResult)
See Also
Ends an asynchronous operation to break the current lease on this blob.

Syntax

C#

```csharp
TimeSpan EndBreak Lease(
    IAsyncResult asyncResult
)
```

C++

```cpp
TimeSpan EndBreakLease(
    IAsyncResult^ asyncResult
)
```

F#

```fsharp
abstract EndBreakLease :
    asyncResult:IAsyncResult -> TimeSpan
```

VB

```vb
Function EndBreakLease ( 
    asyncResult As IAsyncResult
) As TimeSpan
```

Parameters

- **asyncResult**
  Type:
  ```csharp
  System.IAsyncResult
  ```
  An IAsyncResult that references the pending asynchronous operation.
See Also

ICloudBlob Interface

Return to top
| ICloudBlob::EndChangeLease Method (IAsyncResult) (IAsyncResult) (IAsyncResult) |
| C# | C++ | F# | VB |

See Also
Ends an asynchronous operation to change the lease on this blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/Azure/azure-storage-dotnet)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#
```csharp
string EndChangeLease(
    IAsyncResult asyncResult
)
```

C++
```cpp
String^ EndChangeLease(
    IAsyncResult^ asyncResult
)
```

F#
```fsharp
abstract EndChangeLease :
    asyncResult:IAsyncResult -> string
```

VB
```vbnet
Function EndChangeLease (
    asyncResult As IAsyncResult
) As String
```

Parameters

`asyncResult`
Type:
- `System.IAsyncResult`
- `System::IAsyncResult`
- `System.IAsyncResult`
- `System.IAsyncResult`

An IAsyncResult that references the pending asynchronous operation.
See Also

ICloudBlob Interface

Return to top
ICloudBlob...EndDelete Method (IAsyncResult)
(IAsyncResult^)(IAasyncResult)(IAasyncResult)

See Also
Ends an asynchronous operation to delete the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
void EndDelete(  
    IAsyncResult asyncResult
)
```

C++  
```cpp
void EndDelete(  
    IAsyncResult^ asyncResult
)
```

F#  
```fsharp
abstract EndDelete :  
    asyncResult:IAasyncResult  ->  unit
```

VB  
```vb
Sub EndDelete (  
    asyncResult As IAsyncResult
)
```

Parameters

asyncResult
Type:  
`System.IAsyncResultSystem::IAsyncResult^System.IAsyncResultSystem::IAsyncResult System.IAsyncResultSystem::IAsyncResult`
An IAsyncResult that references the pending asynchronous operation.
See Also

ICloudBlob Interface

Return to top
ICloudBlob.EndDeleteIfExists Method
(IAasyncResult)(IAasyncResult^)(IAasyncResult)
(IAasyncResult)

See Also
Returns the result of an asynchronous request to delete the blob if it already exists.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
bool EndDeleteIfExists(
    IAsyncResult asyncResult
)

C++  
bool EndDeleteIfExists(
    IAsyncResult^ asyncResult
)

F#  
abstract EndDeleteIfExists :
    asyncResult:IAsyncResult -> bool

VB  
Function EndDeleteIfExists (  
    asyncResult As IAsyncResult
) As Boolean

Parameters

asyncResult  
Type:  
System.IAsyncResult

An IAsyncResult that references the pending asynchronous operation.
See Also

ICloudBlob Interface

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ICloudBlob......EndDownloadRangeToByteArray

Method (IAsyncResult)(IAsyncResult^)
(IAsyncResult)(IAsyncResult)

See Also
Ends an asynchronous operation to download a range of bytes from a blob to a byte array.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
int EndDownloadRangeToByteArray(IAsyncResult asyncResult)
```

C++  
```cpp
int EndDownloadRangeToByteArray(IAsyncResult^ asyncResult)
```

F#  
```fsharp
abstract EndDownloadRangeToByteArray : asyncResult:IAsyncResult -> int
```

VB  
```vbnet
Function EndDownloadRangeToByteArray (asyncResult As IAsyncResult) As Integer
```

Parameters

`asyncResult`
Type:  
`System.IAsyncResultSystem::IAsyncResult^System.IAsyncResultSystem::IAsyncResult`

An IAsyncResult that references the pending asynchronous operation.
See Also

ICloudBlob Interface

Return to top
ICloudBlob.EndDownloadRangeToStream Method (IAsyncResult)(IAsyncResult^)
See Also
Ends an asynchronous operation to download a range of bytes from a blob to a stream.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
void EndDownloadRangeToStream(
    IAsyncResult asyncResult
)
```

**C++**

```cpp
void EndDownloadRangeToStream(
    IAsyncResult^ asyncResult
)
```

**F#**

```fsharp
abstract EndDownloadRangeToStream :
    asyncResult:IAsyncResult -> unit
```

**VB**

```vb
Sub EndDownloadRangeToStream (  
    asyncResult As IAsyncResult
)
```

### Parameters

**asyncResult**

Type: 

```csharp
System.IAsyncResultSystem::IAsyncResult
```

An IAsyncResult that references the pending asynchronous operation.
See Also

ICloudBlob Interface

Return to top
ICloudBlob.EndDownloadToByteArray Method (IAsyncResult)(IAsyncResult^)(IAsyncResult)
See Also
Ends an asynchronous operation to download the contents of a blob to a byte array.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
int EndDownloadToByteArray(
    IAsyncResult asyncResult
)
```

**C++**

```cpp
int EndDownloadToByteArray(
    IAsyncResult^ asyncResult
)
```

**F#**

```fsharp
abstract EndDownloadToByteArray :
    asyncResult:IAsyncResult -> int
```

**VB**

```vb
Function EndDownloadToByteArray (    
    asyncResult As IAsyncResult
) As Integer
```

**Parameters**

`asyncResult`

Type:

- `System.IAsyncResult`
- `System::IAsyncResult`
- `System.IAsyncResult`

An IAsyncResult that references the pending asynchronous operation.
See Also

ICloudBlob Interface

Return to top
ICloudBlob...EndDownloadToFile Method
(IAasyncResult)(IAasyncResult^)(IAasyncResult)
(IAasyncResult)

See Also
Ends an asynchronous operation to download the contents of a blob to a file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
void EndDownloadToFile(
    IAsyncResult asyncResult
)
```

C++  
```cpp
void EndDownloadToFile(
    IAsyncResult^ asyncResult
)
```

F#  
```fsharp
abstract EndDownloadToFile : 
    asyncResult:IAsyncResult -> unit
```

VB  
```vbnet
Sub EndDownloadToFile ( 
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`
Type:
- `System.IAsyncResult`

An IAsyncResult that references the pending asynchronous operation.
See Also

ICloudBlob Interface

Return to top
ICloudBlob:::EndDownloadToStream Method
(IAasyncResult)(IAasyncResult^)(IAasyncResult)
(IAasyncResult)
See Also
Ends an asynchronous operation to download the contents of a blob to a stream.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
void EndDownloadToStream(
    IAsyncResult asyncResult
)
```

**C++**

```cpp
void EndDownloadToStream(
    IAsyncResult^ asyncResult
)
```

**F#**

```fsharp
abstract EndDownloadToStream : 
    asyncResult:IAsyncResult -> unit
```

**VB**

```vb
Sub EndDownloadToStream ( 
    asyncResult As IAsyncResult
)
```

### Parameters

**asyncResult**

Type: 

```csharp
System.IAsyncResult
```

An IAsyncResult that references the pending asynchronous operation.
See Also

ICloudBlob Interface

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</table>

See Also
Returns the asynchronous result of the request to check existence of the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
bool EndExists(
    IAsyncResult asyncResult
)
```

**C++**

```cpp
bool EndExists(
    IAsyncResult^ asyncResult
)
```

**F#**

```fsharp
abstract EndExists :
    asyncResult:IAsyncResult -> bool
```

**VB**

```vbnet
Function EndExists (
    asyncResult As IAsyncResult
) As Boolean
```

Parameters

`asyncResult`

Type:

`System.IAsyncResult` or `System::IAsyncResult` or `System.IAsyncResult`

An IAsyncResult that references the pending asynchronous operation.
See Also

ICloudBlob Interface

Return to top
ICloudBlob:::EndFetchAttributes Method
(IAasyncResult)(IAasyncResult^)(IAasyncResult)
(IAasyncResult)

See Also
Ends an asynchronous operation to populate the blob's properties and metadata.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
void EndFetchAttributes(IAsyncResult asyncResult)

C++  
void EndFetchAttributes(IAsyncResult^ asyncResult)

F#  
abstract EndFetchAttributes : asyncResult:IAsyncResult -> unit

VB  
Sub EndFetchAttributes (asyncResult As IAsyncResult)

Parameters

asyncResult  
Type: System.IAsyncResult

An IAsyncResult that references the pending asynchronous operation.
See Also

ICloudBlob Interface

Return to top
ICloudBlob::EndOpenRead Method

(C::IAasyncResult)(IAasyncResult^)(IAasyncResult)

See Also
Ends an asynchronous operation to open a stream for reading from the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#       
Stream EndOpenRead(
    IAsyncResult asyncResult
)

C++       
Stream^ EndOpenRead(
    IAsyncResult^ asyncResult
)

F#       
abstract EndOpenRead :
    asyncResult:IAsyncResult -> Stream

VB       
Function EndOpenRead (  
    asyncResult As IAsyncResult
) As Stream

Parameters

asyncResult  
Type: 
System.IAsyncResultSystem::IAsyncResult^System.IAsyncResultSystem::IAsyncResultSystem::IAsyncResultSystem::IAsyncResult
An IAsyncResult that references the pending asynchronous operation.
Remarks

On the Stream object returned by this method, the EndRead method must be called exactly once for every BeginRead call. Failing to end the read process before beginning another read process can cause unexpected behavior.
See Also

ICloudBlob Interface

Return to top
ICloudBlob...EndReleaseLease Method (IAsyncResult)(IAsyncResult^)(IAsyncResult) (IAsyncResult)

See Also
Ends an asynchronous operation to release the lease on this blob.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
void EndReleaseLease(IAsyncResult asyncResult)
```

C++  
```cpp
void EndReleaseLease(IAsyncResult^ asyncResult)
```

F#  
```fsharp
abstract EndReleaseLease : asyncResult:IAsyncResult -> unit
```

VB  
```vb
Sub EndReleaseLease (asyncResult As IAsyncResult)
```

Parameters

`asyncResult`
Type:  
```fsharp
System.IAsyncResultSystem::IAsyncResult^System.IAsyncResultSystem::IAsyncResult
```
An IAsyncResult that references the pending asynchronous operation.
See Also

ICloudBlob Interface

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</table>

See Also
Ends an asynchronous operation to renew a lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
void EndRenewLease(
   IAsyncResult asyncResult
 )
```

C++  
```cpp
void EndRenewLease(  
   IAsyncResult^ asyncResult  
)
```

F#  
```fsharp
abstract EndRenewLease :  
   asyncResult:IAasyncResult -> unit
```

VB  
```vbnet
Sub EndRenewLease (  
   asyncResult As IAsyncResult
 )
```

Parameters

asyncResult  
Type:  
`System.IAsyncResult`  
An IAsyncResult that references the pending asynchronous operation.
See Also

ICloudBlob Interface

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</table>
Ends an asynchronous operation to update the blob's metadata.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
void EndSetMetadata(
    IAsyncResult asyncResult
)

C++  
void EndSetMetadata(
    IAsyncResult^ asyncResult
)

F#  
abstract EndSetMetadata :
    asyncResult:IAsyncResult -> unit

VB  
Sub EndSetMetadata (
    asyncResult As IAsyncResult
)

Parameters

asyncResult
Type: System.IAsyncResult  
An IAsyncResult that references the pending asynchronous operation.
See Also

ICloudBlob Interface

Return to top
ICloudBlob:::EndSetProperties Method

(IAsyncResult)(IAsyncResult^)(IAsyncResult)
(IAsyncResult)

See Also
Ends an asynchronous operation to update the blob's properties.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
void EndSetProperties(
    IAsyncResult asyncResult
)
```

C++  
```cpp
void EndSetProperties(
    IAsyncResult^ asyncResult
)
```

F#  
```fsharp
abstract EndSetProperties : 
    asyncResult:IAsyncResult -> unit
```

VB  
```vbnet
Sub EndSetProperties ( 
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`  
Type:  
`System.IAsyncResult`  
An IAsyncResult that references the pending asynchronous operation.
See Also

ICloudBlob Interface

Return to top
See Also
Ends an asynchronous operation to upload the contents of a byte array to a blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
void EndUploadFromByteArray(
    IAsyncResult asyncResult
)
```

C++  
```cpp
void EndUploadFromByteArray(
    IAsyncResult^ asyncResult
)
```

F#  
```fsharp
abstract EndUploadFromByteArray :
    asyncResult:IAsyncResult -> unit
```

VB  
```vbnet
Sub EndUploadFromByteArray (
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`
Type:  
[System.IAsyncResult](https://docs.microsoft.com/en-us/dotnet/api/system.iasyncresult)

An IAsyncResult that references the pending asynchronous operation.
See Also

ICloudBlob Interface

Return to top
ICloudBlob..::..EndUploadFromFile Method
(IAsyncResult)(IAsyncResult^)(IAsyncResult)
See Also
Ends an asynchronous operation to upload a file to a blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
void EndUploadFromFile(
    IAsyncResult asyncResult
)
```

C++  
```cpp
void EndUploadFromFile(
    IAsyncResult^ asyncResult
)
```

F#  
```fsharp
abstract EndUploadFromFile :
    asyncResult:IAasyncResult -> unit
```

VB  
```vbnet
Sub EndUploadFromFile (  
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`
Type:  
`System.IAsyncResult`  
An IAsyncResult that references the pending asynchronous operation.
See Also

ICloudBlob Interface

Return to top
ICloudBlob::EndUploadFromStream Method
(IAasyncResult^)(IAasyncResult)
See Also
Ends an asynchronous operation to upload a stream to a blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
void EndUploadFromStream(
    IAsyncResult asyncResult
)
```

**C++**

```csharp
void EndUploadFromStream(
    IAsyncResult^ asyncResult
)
```

**F#**

```fsharp
abstract EndUploadFromStream : 
    asyncResult:IAsyncResult -> unit
```

**VB**

```vbnet
Sub EndUploadFromStream ( 
    asyncResult As IAsyncResult
)
```

**Parameters**

*asyncResult*

Type:

```fsharp
System.IAsyncResult
```

An IAsyncResult that references the pending asynchronous operation.
See Also

ICloudBlob Interface

Return to top
ICloudBlob.ExistsAsync Method ()()()

See Also
Initiates an asynchronous operation to check existence of the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
Task<bool> ExistsAsync()
```

C++

```cpp
Task<bool> ExistsAsync()
```

F#

```fsharp
abstract ExistsAsync : unit -> Task<bool>
```

VB

```vbnet
Function ExistsAsync As Task(Of Boolean)
```

Return Value

Type:

- `System.Threading.Tasks.Task<bool>`
  - A Task object of type `bool` that represents the asynchronous operation.
See Also

ExistsAsync Overload
ICloudBlob Interface

Return to top
| ICloudBlob.
| ExistsAsync Method
| (BlobRequestOptions, OperationContext)
| (BlobRequestOptions^, OperationContext^)
| (BlobRequestOptions, OperationContext)(BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to check existence of the blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
Task<bool> ExistsAsync(
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++  
```cpp
Task<bool> ExistsAsync(
    BlobRequestOptions options,
    OperationContext operationContext
)
```

F#  
```fsharp
abstract ExistsAsync :
    options : BlobRequestOptions *
    operationContext : OperationContext  ->  Task<bool>
```

VB  
```vbnet
Function ExistsAsync (  
    options As BlobRequestOptions,  
    operationContext As OperationContext  
) As Task(Of Boolean)
```

**Parameters**

(options)

Type:
See Also

ExistsAsync_Overload
ICloudBlob Interface

Return to top
ICloudBlob...ExistsAsync Method

(ClobRequestOptions, OperationContext, CancellationToken)(BlobRequestOptions^, OperationContext^, CancellationToken)(BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to check existence of the blob.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
Task<bool> ExistsAsync(
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++

```cpp
Task<bool> ExistsAsync(
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

F#

```fsharp
abstract ExistsAsync :
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationTokenToken ->
```

VB

```vb
Function ExistsAsync (    options As BlobRequestOptions,    operationContext As OperationContext,    cancellationToken As CancellationToken    ) As Task(Of Boolean)
```
See Also

ExistsAsync_Overload
ICloudBlob Interface

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ICloudBlob::: ExistsAsync Method
(CancellationToken)(CancellationToken)
See Also
Initiates an asynchronous operation to check existence of the blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
Task<bool> ExistsAsync(
    CancellationToken cancellationToken
)
```

C++  
```cpp
Task<bool> ExistsAsync(
    CancellationToken cancellationToken
)
```

F#  
```fsharp
abstract ExistsAsync :
    cancellationToken:CancellationToken ->
```

VB  
```vbnet
Function ExistsAsync (  
    cancellationToken As CancellationToken  
) As Task(Of Boolean)
```

Parameters

`cancellationToken`  
Type:  
`System.Threading.CancellationToken`  
A CancellationToken to observe while waiting for a task to complete.
See Also

ExistsAsync_ Overload
ICloudBlob Interface

Return to top
ICloudBlob.....FetchAttributesAsync Method (0000) C#++F#VB
See Also
Initiates an asynchronous operation to populate the blob's properties and metadata.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Task FetchAttributesAsync()

C++  
Task^ FetchAttributesAsync()

F#  
abstract FetchAttributesAsync : unit -> Task

VB  
Function FetchAttributesAsync As Task

Return Value

Type:
System.Threading.Tasks.Task
A Task object that represents the asynchronous operation.
See Also

FetchAttributesAsync_Overload
ICloudBlob Interface

Return to top
ICloudBlob.

FetchAttributesAsync Method

(AccessCondition, BlobRequestOptions, OperationContext)

(AccessCondition^, BlobRequestOptions^, OperationContext^)

(AccessCondition, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to populate the blob's properties and metadata.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Task FetchAttributesAsync(
    AccessCondition accessCondition,  
    BlobRequestOptions options,  
    OperationContext operationContext,
)

C++  
Task^ FetchAttributesAsync(
    AccessCondition^ accessCondition,  
    BlobRequestOptions^ options,  
    OperationContext^ operationContext,
)

F#  
abstract FetchAttributesAsync :  
    accessCondition:AccessCondition *  
    options:BlobRequestOptions *  
    operationContext:OperationContext -> Task

VB  
Function FetchAttributesAsync (  
    accessCondition As AccessCondition,  
    options As BlobRequestOptions,  
    operationContext As OperationContext
)  
    As Task
See Also

FetchAttributesAsync_Overload
ICloudBlob Interface

Return to top
ICloudBlob.....FetchAttributesAsync Method

(AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to populate the blob's properties and metadata.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/MicrosoftDocs/azure-docs/blob/master/)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
Task FetchAttributesAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++

```cpp
Task^ FetchAttributesAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#

```fsharp
abstract FetchAttributesAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->
```

VB

```vbnet
Function FetchAttributesAsync (accessCondition As AccessCondition,
    options As BlobRequestOptions,
    operationContext As OperationContext,
```
See Also

FetchAttributesAsync_Overload
ICloudBlob Interface

Return to top
ICloudBlob.FetchAttributesAsync Method (CancellationToken)(CancellationToken)
See Also
Initiates an asynchronous operation to populate the blob's properties and metadata.


Syntax

C#  
Task FetchAttributesAsync(
    CancellationToken cancellationToken
)

C++  
Task^ FetchAttributesAsync(
    CancellationToken cancellationToken
)

F#  
abstract FetchAttributesAsync :
    cancellationToken:CancellationToken ->

VB  
Function FetchAttributesAsync (  
    cancellationToken As CancellationToken
) As Task

Parameters

cancellationToken
Type:  
System.Threading.CancellationToken
System.Threading::CancellationToken
A CancellationToken to observe while waiting for a task to complete.
See Also

FetchAttributesAsync Overload
ICloudBlob Interface

Return to top
ICloudBlob...GetSharedAccessSignature Method
(SharedAccessBlobPolicy)
(SharedAccessBlobPolicy^)(SharedAccessBlobPolicy)
(SharedAccessBlobPolicy)

See Also
Returns a shared access signature for the blob.

Syntax

C#  
```csharp
string GetSharedAccessSignature(
    SharedAccessBlobPolicy policy
)
```

C++  
```cpp
String^ GetSharedAccessSignature(
    SharedAccessBlobPolicy^ policy
)
```

F#  
```fsharp
abstract GetSharedAccessSignature :
    policy:SharedAccessBlobPolicy -> string
```

VB  
```vbnet
Function GetSharedAccessSignature (  
    policy As SharedAccessBlobPolicy
) As String
```

Parameters

*policy*

Type:  

A [SharedAccessBlobPolicy](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage.blob.sharedaccessblobpolicy) object specifying the access policy for the shared access signature.
Remarks

The query string returned includes the leading question mark.
See Also

GetSharedAccessSignature Overload
ICloudBlob Interface
ICloudBlob:::GetSharedAccessSignature Method
(SharedAccessBlobPolicy,
SharedAccessBlobHeaders)(SharedAccessBlobPolicy^,
SharedAccessBlobHeaders^)(SharedAccessBlobPolicy,
SharedAccessBlobHeaders)(SharedAccessBlobPolicy,
SharedAccessBlobHeaders)

See Also
Returns a shared access signature for the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
string GetSharedAccessSignature(
    SharedAccessBlobPolicy policy,
    SharedAccessBlobHeaders headers
)
```

C++  
```cpp
String^ GetSharedAccessSignature(
    SharedAccessBlobPolicy^ policy,
    SharedAccessBlobHeaders^ headers
)
```

F#  
```fsharp
abstract GetSharedAccessSignature :
    policy:SharedAccessBlobPolicy *
    headers:SharedAccessBlobHeaders ->
    string
```

VB  
```vb
Function GetSharedAccessSignature (  
    policy As SharedAccessBlobPolicy,  
    headers As SharedAccessBlobHeaders  
) As String
```

Parameters

`policy`  
Type:
See Also

GetSharedAccessSignature Overload
ICloudBlob Interface

Return to top
ICloudBlob...GetSharedAccessSignature Method
(SharedAccessBlobPolicy,
SharedAccessBlobHeaders, String)(SharedAccessBlobPolicy^,
SharedAccessBlobHeaders^, String^)(SharedAccessBlobPolicy,
SharedAccessBlobHeaders, String)
See Also
Returns a shared access signature for the blob.

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<td><code>string GetSharedAccessSignature(\n    SharedAccessBlobPolicy policy,\n    SharedAccessBlobHeaders headers,\n    string groupPolicyIdentifier\n)\n</code></td>
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<tr>
<td><strong>C++</strong></td>
<td><code>String^ GetSharedAccessSignature(\n    SharedAccessBlobPolicy^ policy,\n    SharedAccessBlobHeaders^ headers,\n    String^ groupPolicyIdentifier\n)\n</code></td>
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<td><strong>F#</strong></td>
<td><code>abstract GetSharedAccessSignature :\n    policy:SharedAccessBlobPolicy *\n    headers:SharedAccessBlobHeaders *\n    groupPolicyIdentifier:string -&gt; string\n</code></td>
</tr>
<tr>
<td><strong>VB</strong></td>
<td><code>Function GetSharedAccessSignature (\n    policy As SharedAccessBlobPolicy,\n    headers As SharedAccessBlobHeaders,\n    groupPolicyIdentifier As String\n) As String\n</code></td>
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See Also

GetSharedAccessSignature Overload
ICloudBlob Interface

Return to top
ICloudBlob.GetSharedAccessSignature Method

C# ++ F# VB

(SharedAccessBlobPolicy, SharedAccessBlobHeaders, String, Nullable<SharedAccessProtocol>, IPAddressOrRange)

(SharedAccessBlobPolicy^, SharedAccessBlobHeaders^, String^, Nullable<SharedAccessProtocol>, IPAddressOrRange^)

(SharedAccessBlobPolicy, SharedAccessBlobHeaders, String, Nullable(Of SharedAccessProtocol), IPAddressOrRange)

See Also
Returns a shared access signature for the blob.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob  
**Assembly:** Microsoft.WindowsAzure.Storage (in  
Microsoft.WindowsAzure.Storage.dll)
Syntax

C#
```csharp
string GetSharedAccessSignature(
    SharedAccessBlobPolicy policy,
    SharedAccessBlobHeaders headers,
    string groupPolicyIdentifier,
    Nullable<SharedAccessProtocol> protocols,
    IPAddressOrRange ipAddressOrRange)
```

C++
```cpp
String^ GetSharedAccessSignature(
    SharedAccessBlobPolicy^ policy,
    SharedAccessBlobHeaders^ headers,
    String^ groupPolicyIdentifier,
    Nullable<SharedAccessProtocol> protocols,
    IPAddressOrRange^ ipAddressOrRange)
```

F#
```fsharp
abstract GetSharedAccessSignature :
    policy:SharedAccessBlobPolicy *
    headers:SharedAccessBlobHeaders *
    groupPolicyIdentifier:string *
    protocols:Nullable<SharedAccessProtocol>*
    ipAddressOrRange:IPAddressOrRange -> string
```

VB
```vb
Function GetSharedAccessSignature (    policy As SharedAccessBlobPolicy,    headers As SharedAccessBlobHeaders,    groupPolicyIdentifier As String,    protocols As Nullable(Of SharedAccessProtocol),    ipAddressOrRange As IPAddressOrRange) As String
```
See Also

GetSharedAccessSignature Overload
ICloudBlob Interface

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</table>
Returns a shared access signature for the blob.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
string GetSharedAccessSignature(
    SharedAccessBlobPolicy policy,
    string groupPolicyIdentifier
)
```

C++
```cpp
String^ GetSharedAccessSignature(
    SharedAccessBlobPolicy^ policy,
    String^ groupPolicyIdentifier
)
```

F#
```fsharp
abstract GetSharedAccessSignature :
    policy:SharedAccessBlobPolicy *
    groupPolicyIdentifier:string -> string
```

VB
```vbnet
Function GetSharedAccessSignature (    policy As SharedAccessBlobPolicy,    groupPolicyIdentifier As String    ) As String
```

Parameters

* `policy`
  Type:
Remarks

The query string returned includes the leading question mark.
See Also

GetSharedAccessSignature Overload
ICloudBlob Interface

Return to top
ICloudBlob.....OpenReadAsync Method (())

See Also
Initiates an asynchronous operation to open a stream for reading from the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
Task<Stream> OpenReadAsync()
```

C++  
```cpp
Task<Stream^>^ OpenReadAsync()
```

F#  
```fsharp
abstract OpenReadAsync : unit -> Task<Stream>
```

VB  
```vbnet
Function OpenReadAsync As Task(Of Stream)
```

Return Value

Type:
```csharp
System.Threading.Tasks.Task<Stream>
```

A `Task<TResult>` object of type `Stream` that represents the asynchronous operation.
Remarks

On the Stream object returned by this method, the EndRead method must be called exactly once for every BeginRead call. Failing to end the read process before beginning another read process can cause unexpected behavior.

Note that this method always makes a call to the FetchAttributesAsync method under the covers.

Set the StreamMinimumReadSizeInBytes property before calling this method to specify the minimum number of bytes to buffer when reading from the stream. The value must be at least 16 KB.
See Also

OpenReadAsync Overload
ICloudBlob Interface

Return to top
ICloudBlob....OpenReadAsync Method

(AccessCondition, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to open a stream for reading from the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Task<Stream> OpenReadAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++  
Task<Stream^> OpenReadAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#  
abstract OpenReadAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task<Stream>

VB  
Function OpenReadAsync (  
    accessCondition As AccessCondition,  
    options As BlobRequestOptions,  
    operationContext As OperationContext
) As Task(Of Stream)
Remarks

On the Stream object returned by this method, the EndRead method must be called exactly once for every BeginRead call. Failing to end the read process before beginning another read process can cause unexpected behavior.

Note that this method always makes a call to the FetchAttributesAsync method under the covers.

Set the StreamMinimumReadSizeInBytes property before calling this method to specify the minimum number of bytes to buffer when reading from the stream. The value must be at least 16 KB.
See Also

OpenReadAsync Overload
ICloudBlob Interface

Return to top
ICloudBlob.....OpenReadAsync Method
(AccessCondition, BlobRequestOptions,
OperationContext, CancellationToken)(AccessCondition^,
BlobRequestOptions^, OperationContext^, CancellationToken)
(AccessCondition, BlobRequestOptions, OperationContext,
CancellationToken)(AccessCondition, BlobRequestOptions,
OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to open a stream for reading from the blob.

Syntax

C#  
Task<Stream> OpenReadAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++
Task<Stream^>^ OpenReadAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#  
abstract OpenReadAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->

VB
Function OpenReadAsync (  
    accessCondition As AccessCondition,  
    options As BlobRequestOptions,  
    operationContext As OperationContext,  
    cancellationToken As CancellationToken
)
Remarks

On the Stream object returned by this method, the EndRead method must be called exactly once for every BeginRead call. Failing to end the read process before beginning another read process can cause unexpected behavior.

Note that this method always makes a call to the FetchAttributesAsync method under the covers.

Set the StreamMinimumReadSizeInBytes property before calling this method to specify the minimum number of bytes to buffer when reading from the stream. The value must be at least 16 KB.
See Also

OpenReadAsync_Overload
ICloudBlob Interface

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**See Also**
Initiates an asynchronous operation to open a stream for reading from the blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Task<Stream> OpenReadAsync(
    CancellationToken cancellationToken
)

C++  
Task<Stream^>^ OpenReadAsync(
    CancellationToken cancellationToken
)

F#  
abstract OpenReadAsync : 
    cancellationToken:CancellationToken ->

VB  
Function OpenReadAsync ( 
    cancellationToken As CancellationToken 
) As Task(Of Stream)

Parameters

cancellationToken
Type:  
System.Threading.CancellationTokenSystem::Threading::CancellationToken
A CancellationToken to observe while waiting for a task to complete.
Remarks

On the Stream object returned by this method, the EndRead method must be called exactly once for every BeginRead call. Failing to end the read process before beginning another read process can cause unexpected behavior.

Note that this method always makes a call to the FetchAttributesAsync method under the covers.

Set the StreamMinimumReadSizeInBytes property before calling this method to specify the minimum number of bytes to buffer when reading from the stream. The value must be at least 16 KB.
See Also

OpenReadAsync_Overload
ICloudBlob Interface

Return to top
ICloudBlob::ReleaseLeaseAsync Method
(AccessCondition)(AccessCondition^)
(AccessCondition)(AccessCondition)

See Also
Initiates an asynchronous operation to release the lease on this blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Task ReleaseLeaseAsync(
    AccessCondition accessCondition
)

C++  
Task^ ReleaseLeaseAsync(
    AccessCondition^ accessCondition
)

F#  
abstract ReleaseLeaseAsync :
    accessCondition:AccessCondition -> Task

VB  
Function ReleaseLeaseAsync (  
    accessCondition As AccessCondition
) As Task

Parameters

*accessCondition*

Type:  

An *AccessCondition* object that represents the condition that must be met in order for the request to proceed, including a required lease ID.
See Also

ReleaseLeaseAsync_Overload
ICloudBlob Interface

Return to top
ICloudBlob:::ReleaseLeaseAsync Method
(AccessCondition, BlobRequestOptions, OperationContext)
(AccessCondition^, BlobRequestOptions^, OperationContext^)
(AccessCondition, BlobRequestOptions, OperationContext)
See Also
Initiates an asynchronous operation to release the lease on this blob.

**Namespace:**  

**Assembly:**  
Syntax

C#

```csharp
Task ReleaseLeaseAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++

```cpp
Task^ ReleaseLeaseAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#

```fsharp
abstract ReleaseLeaseAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task
```

VB

```vb
Function ReleaseLeaseAsync (  
    accessCondition As AccessCondition,  
    options As BlobRequestOptions,  
    operationContext As OperationContext  
) As Task
```
See Also

ReleaseLeaseAsync_Overload
ICloudBlob Interface

Return to top
ICloudBlob.ReleaseLeaseAsync Method

(AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)
(AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to release the lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

Task ReleaseLeaseAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++

Task^ ReleaseLeaseAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#

abstract ReleaseLeaseAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationTokenToken ->

VB

Function ReleaseLeaseAsync (accessCondition As AccessCondition, options As BlobRequestOptions, operationContext As OperationContext, cancellationToken As CancellationToken)
See Also

ReleaseLeaseAsync Overload
ICloudBlob Interface

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</table>

**See Also**
Initiates an asynchronous operation to release the lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Task ReleaseLeaseAsync(
    AccessCondition accessCondition,
    CancellationToken cancellationToken
)

C++  
Task^ ReleaseLeaseAsync(
    AccessCondition^ accessCondition,
    CancellationToken cancellationToken
)

F#  
abstract ReleaseLeaseAsync :  
    accessCondition:AccessCondition *  
    cancellationToken:CancellationTokenToken ->

VB  
Function ReleaseLeaseAsync (  
    accessCondition As AccessCondition,  
    cancellationToken As CancellationToken
) As Task

Parameters

accessCondition
Type:
See Also

- ReleaseLeaseAsync_Overload
- ICloudBlob Interface

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See Also
Initiates an asynchronous operation to renew a lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Task RenewLeaseAsync(
    AccessCondition accessCondition
)

C++

Task^ RenewLeaseAsync(
    AccessCondition^ accessCondition
)

F#

abstract RenewLeaseAsync :
    accessCondition:AccessCondition -> Task

VB

Function RenewLeaseAsync (    accessCondition As AccessCondition
) As Task

Parameters

accessCondition  
Type:  
An AccessCondition object that represents the condition that must be met in order for the request to proceed, including a required lease ID.
See Also

RenewLeaseAsync_ Overload
ICloudBlob Interface

Return to top
ICloudBlob..RenewLeaseAsync Method

(AccessCondition, BlobRequestOptions,
OperationContext)(AccessCondition^, BlobRequestOptions^,
OperationContext^)(AccessCondition, BlobRequestOptions,
OperationContext)(AccessCondition, BlobRequestOptions,
OperationContext)

See Also
Initiates an asynchronous operation to renew a lease on this blob.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Task RenewLeaseAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++  
Task^ RenewLeaseAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#  
abstract RenewLeaseAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task

VB  
Function RenewLeaseAsync (  
    accessCondition As AccessCondition,  
    options As BlobRequestOptions,  
    operationContext As OperationContext  
) As Task
See Also

- RenewLeaseAsync_Overload
- ICloudBlob Interface

Return to top
ICloudBlob...RenewLeaseAsync Method

(AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(AccessCondition\^, BlobRequestOptions\^, OperationContext\^, CancellationToken)

See Also
Initiates an asynchronous operation to renew a lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

Task RenewLeaseAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++

Task^ RenewLeaseAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#

abstract RenewLeaseAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->

VB

Function RenewLeaseAsync (accessCondition As AccessCondition, options As BlobRequestOptions, operationContext As OperationContext,
See Also

RenewLeaseAsync_ Overload
ICloudBlob Interface

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Initiates an asynchronous operation to renew a lease on this blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
Task RenewLeaseAsync(
    AccessCondition accessCondition,
    CancellationToken cancellationToken
)
```

**C++**

```cpp
Task^ RenewLeaseAsync(
    AccessCondition^ accessCondition,
    CancellationToken cancellationToken
)
```

**F#**

```fsharp
abstract RenewLeaseAsync :
    accessCondition:AccessCondition *
    cancellationToken:CancellationTokenToken ->
```

**VB**

```vbnet
Function RenewLeaseAsync (  
    accessCondition As AccessCondition,  
    cancellationToken As CancellationTokenToken  
) As Task
```

**Parameters**

*accessCondition*

Type:
See Also

RenewLeaseAsync_ Overload
ICloudBlob Interface

Return to top
ICloudBlob....SetMetadataAsync Method ()()() C# C++ F# VB
See Also
Initiates an asynchronous operation to update the blob's metadata.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Task SetMetadataAsync()

C++  
Task^ SetMetadataAsync()

F#  
abstract SetMetadataAsync : unit -> Task

VB  
Function SetMetadataAsync As Task

Return Value

Type:
System Threading Tasks TaskSystem Threading Tasks::Task^ System Threa
A Task object that represents the asynchronous operation.
See Also

SetMetadataAsync Overload
ICloudBlob Interface

Return to top
ICloudBlob::SetMetadataAsync Method

(ReadOnlyAccessCondition, BlobRequestOptions,
OperationContext)(AccessCondition, BlobRequestOptions,
OperationContext)(AccessCondition, BlobRequestOptions,
OperationContext)(AccessCondition, BlobRequestOptions,
OperationContext)

See Also
Initiates an asynchronous operation to update the blob's metadata.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Task SetMetadataAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
 )

C++  
Task^ SetMetadataAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
 )

F#  
abstract SetMetadataAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task

VB  
Function SetMetadataAsync (  
    accessCondition As AccessCondition,  
    options As BlobRequestOptions,  
    operationContext As OperationContext  
) As Task
See Also

SetMetadataAsync_Overload
ICloudBlob Interface

Return to top
ICloudBlob::SetMetadataAsync Method

See Also
Initiates an asynchronous operation to update the blob's metadata.

**Namespace:** Microsoft.WindowsAzure.Storage.Blob

**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Task SetMetadataAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++  
Task^ SetMetadataAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#  
abstract SetMetadataAsync :
    accessCondition:AccessCondition  *
    options:BlobRequestOptions  *
    operationContext:OperationContext  *
    cancellationToken:CancellationToken  ->

VB  
Function SetMetadataAsync (  
    accessCondition As AccessCondition,  
    options As BlobRequestOptions,  
    operationContext As OperationContext,
See Also

SetMetadataAsync_Overload
ICloudBlob Interface

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| ICloudBlob:::SetMetadataAsync Method (CancellationToken)(CancellationToken)(CancellationToken) |
| See Also |

| C# | C++ | F# | VB |
Initiates an asynchronous operation to update the blob's metadata.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://github.com/Azure/azure-storage-dotnet)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
Task SetMetadataAsync(
    CancellationToken cancellationToken
)
```

**C++**

```cpp
Task^ SetMetadataAsync(
    CancellationToken cancellationToken
)
```

**F#**

```fsharp
abstract SetMetadataAsync :
    cancellationToken:CancellationToken ->
```

**VB**

```vbnet
Function SetMetadataAsync (cancellationToken As CancellationToken)
) As Task
```

Parameters

`cancellationToken`

Type:  
```csharp
System.Threading.CancellationToken
```

A CancellationToken to observe while waiting for a task to complete.
See Also

SetMetadataAsync_ Overload
ICloudBlob Interface

Return to top
ICloudBlob.....SetPropertiesAsync Method ()()()
Initiates an asynchronous operation to update the blob's properties.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](https://msdn.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

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Return Value

Type:

```system.threads.tasks.task
System.Threading.Tasks::Task
System.Threading.Tasks.Task```

A Task object that represents the asynchronous operation.
See Also

SetPropertiesAsync Overload
ICloudBlob Interface

Return to top
ICloudBlob:::SetPropertiesAsync Method

C#

ICloudBlob:::SetPropertiesAsync Method

C++

ICloudBlob:::SetPropertiesAsync Method

F#

ICloudBlob:::SetPropertiesAsync Method

VB

C# C++ F# VB

(AccessCondition, BlobRequestOptions, OperationContext)

(AccessCondition^, BlobRequestOptions^, OperationContext^)

(AccessCondition, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to update the blob's properties.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Task SetPropertiesAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++  
Task^ SetPropertiesAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#  
abstract SetPropertiesAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task

VB  
Function SetPropertiesAsync ( 
    accessCondition As AccessCondition, 
    options As BlobRequestOptions, 
    operationContext As OperationContext 
) As Task
See Also

SetPropertiesAsync Overload
ICloudBlob Interface

Return to top
ICloudBlob:::SetPropertiesAsync Method

(AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)

(See Also)
Initiates an asynchronous operation to update the blob's properties.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
Task SetPropertiesAsync(
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

**C++**

```cpp
Task^ SetPropertiesAsync(
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

**F#**

```fsharp
abstract SetPropertiesAsync :
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->
```

**VB**

```vbnet
Function SetPropertiesAsync (accessCondition As AccessCondition,
    options As BlobRequestOptions,
    operationContext As OperationContext,
```
See Also

SetPropertiesAsync Overload
ICloudBlob Interface

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| ICloudBlob::SetPropertiesAsync Method (CancellationToken)(CancellationToken) (CancellationToken)(CancellationToken) |
|---|---|

See Also
Initiates an asynchronous operation to update the blob's properties.

data%20storage%20model%20for%20windows%20azure%20blob%20storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Task SetPropertiesAsync(
    CancellationToken cancellationToken
)

C++  
Task^ SetPropertiesAsync(
    CancellationToken cancellationToken
)

F#  
abstract SetPropertiesAsync :
    cancellationToken:CancellationToken ->

VB  
Function SetPropertiesAsync (  
    cancellationToken As CancellationToken
) As Task

Parameters

cancellationToken
  Type:  
  System.Threading.CancellationToken
  System.Threading::CancellationToken
  A CancellationToken to observe while waiting for a task to complete.
See Also

SetPropertiesAsync Overload
ICloudBlob Interface

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ICloudBlob...UploadFromByteArrayAsync Method C# C++ F# VB
[Byte[], Int32, Int32](array<Byte>^, Int32, Int32)
[Byte[], Int32, Int32](Byte(), Int32, Int32)
See Also
Initiates an asynchronous operation to upload the contents of a byte array to a blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Task UploadFromByteArrayAsync(
    byte[] buffer,
    int index,
    int count
)

C++  
Task<array<unsigned char>>^ UploadFromByteArrayAsync(
    array<unsigned char>^ buffer,
    int index,
    int count
)

F#  
abstract UploadFromByteArrayAsync :
    buffer:byte[] *
    index:int *
    count:int -> Task

VB  
Function UploadFromByteArrayAsync (    buffer As Byte(),
    index As Integer,
    count As Integer
) As Task
See Also

UploadFromByteArrayAsync_Overload
ICloudBlob Interface

Return to top
ICloudBlob.....UploadFromByteArrayAsync Method

C# C++ F# VB
(Byte[], Int32, Int32, AccessCondition,
BlobRequestOptions, OperationContext)(array<Byte>^, Int32,
Int32, AccessCondition^, BlobRequestOptions^,
OperationContext^)(Byte[], Int32, Int32, AccessCondition,
BlobRequestOptions, OperationContext)(Byte(), Int32, Int32,
AccessCondition, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to upload the contents of a byte array to a blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
Task UploadFromByteArrayAsync(
    byte[] buffer,
    int index,
    int count,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
```

C++  
```cpp
Task^ UploadFromByteArrayAsync(
    array<unsigned char>^ buffer,
    int index,
    int count,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#  
```fsharp
abstract UploadFromByteArrayAsync :
    buffer:byte[] *
    index:int *
    count:int *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task
```
See Also

UploadFromByteArrayAsync_Overload
ICloudBlob Interface

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ICloudBlob...UploadFromByteArrayAsync Method C# C++ F# VB
(Byte[], Int32, Int32, AccessCondition,
BlobRequestOptions, OperationContext, CancellationToken)
(array<Byte>^, Int32, Int32, AccessCondition^,
BlobRequestOptions^, OperationContext^, CancellationToken)
(Byte[], Int32, Int32, AccessCondition, BlobRequestOptions,
OperationContext, CancellationToken)(Byte(), Int32, Int32,
AccessCondition, BlobRequestOptions, OperationContext,
CancellationToken)
See Also
Initiates an asynchronous operation to upload the contents of a byte array to a blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
Task UploadFromByteArrayAsync(
    byte[] buffer,
    int index,
    int count,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++

```cpp
Task^ UploadFromByteArrayAsync(
    array<unsigned char>^ buffer,
    int index,
    int count,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#

```fsharp
abstract UploadFromByteArrayAsync :
    buffer:byte[] *
    index:int *
    count:int *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    cancellationToken:CancellationToken *
```

See Also

UploadFromByteArrayAsync_Overload
ICloudBlob Interface

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ICloudBlob.:..UploadFromByteArrayAsync Method C# C++ F# VB
(Byte[], Int32, Int32, CancellationToken)
See Also
Initiates an asynchronous operation to upload the contents of a byte array to a blob.

**Namespace**:  Microsoft.WindowsAzure.Storage.Blob  
Syntax

C#

Task UploadFromByteArrayAsync(
    byte[] buffer,
    int index,
    int count,
    CancellationToken cancellationToken
)

C++

Task^ UploadFromByteArrayAsync(
    array<unsigned char>^ buffer,
    int index,
    int count,
    CancellationToken cancellationToken
)

F#

abstract UploadFromByteArrayAsync :
    buffer:byte[] *
    index:int *
    count:int *
    cancellationToken:CancellationToken ->

VB

Function UploadFromByteArrayAsync (buffer As Byte(),
    index As Integer,
    count As Integer,
See Also

UploadFromByteArrayAsync_Overload
ICloudBlob Interface

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See Also
Initiates an asynchronous operation to upload a file to a blob.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
Task UploadFromFileAsync(
    string path
)
```

**C++**

```cpp
Task^ UploadFromFileAsync(
    String^ path
)
```

**F#**

```fsharp
abstract UploadFromFileAsync :
    path:string -> Task
```

**VB**

```vbnet
Function UploadFromFileAsync (p    path As String
) As Task
```

Parameters

**path**

Type: `System.String System::String^ System.String System.String`

A string containing the file path providing the blob content.
See Also

UploadFromFileAsync_Overload
ICloudBlob Interface

Return to top
ICloudBlob...UploadFromFileAsync Method

C#  

C++  

F#  

VB

See Also
Initiates an asynchronous operation to upload a file to a blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Task UploadFromFileAsync(
    string path,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++
Task^ UploadFromFileAsync(
    String^ path,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#
abstract UploadFromFileAsync :
    path:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task

VB
Function UploadFromFileAsync (  
    path As String,
    accessCondition As AccessCondition,  
    options As BlobRequestOptions,
See Also

UploadFromFileAsync Overload
ICloudBlob Interface

Return to top
ICloudBlob:::UploadFromFileAsync Method
(String, AccessCondition, BlobRequestOptions,
OperationContext, CancellationToken)(String^,
AccessCondition^, BlobRequestOptions^, OperationContext^,
CancellationToken)(String, AccessCondition,
BlobRequestOptions, OperationContext, CancellationToken)
(String, AccessCondition, BlobRequestOptions,
OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to upload a file to a blob.

**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```
Task UploadFromFileAsync(
    string path,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

**C++**

```
Task^ UploadFromFileAsync(
    String^ path,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

**F#**

```
abstract UploadFromFileAsync :
    path:string *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->
```

**VB**

```
Function UploadFromFileAsync (         
```

See Also

UploadFromFileAsync_Overload
ICloudBlob Interface

Return to top
ICloudBlob...UploadFromFileAsync Method
(String, CancellationToken)(String^,
CancellationToken)(String, CancellationToken)(String,
CancellationToken)

See Also
Initiates an asynchronous operation to upload a file to a blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

Task UploadFromFileAsync(
    string path,
    CancellationToken cancellationToken
)

C++

Task^ UploadFromFileAsync(
    String^ path,
    CancellationToken cancellationToken
)

F#

abstract UploadFromFileAsync :
    path:string *
    cancellationToken:CancellationToken ->

VB

Function UploadFromFileAsync ( 
    path As String,
    cancellationToken As CancellationToken
) As Task

Parameters

path
    Type:  System.String
            System::String
            System.String
            System.String
See Also

UploadFromFileAsync_ Overload
ICloudBlob Interface

Return to top
ICloudBlob.

### UploadFromStreamAsync Method

See Also
Initiates an asynchronous operation to upload a stream to a blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

C#  
```
Task UploadFromStreamAsync(
    Stream source
)
```

C++  
```
Task^ UploadFromStreamAsync(
    Stream^ source
)
```

F#  
```
abstract UploadFromStreamAsync :
    source:Stream -> Task
```

VB  
```
Function UploadFromStreamAsync (  
    source As Stream
) As Task
```

**Parameters**

`source`

Type:  
```
System.IO.Stream
```

A Stream object providing the blob content.
See Also

UploadFromStreamAsync Overload
ICloudBlob Interface

Return to top
ICloudBlob....UploadFromStreamAsync Method
(Stream, AccessCondition, BlobRequestOptions, OperationContext)
(Stream^, AccessCondition^, BlobRequestOptions^, OperationContext^)
(Stream, AccessCondition, BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to upload a stream to a blob.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

Task UploadFromStreamAsync(
    Stream source,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)

C++

Task^ UploadFromStreamAsync(
    Stream^ source,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext
)

F#

abstract UploadFromStreamAsync :
    source:Stream *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext -> Task

VB

Function UploadFromStreamAsync (source As Stream,
    accessCondition As AccessCondition,
    options As BlobRequestOptions,
See Also

UploadFromStreamAsync_Overload
ICloudBlob Interface

Return to top
ICloudBlob....UploadFromStreamAsync Method
See Also
Initiates an asynchronous operation to upload a stream to a blob.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Task UploadFromStreamAsync(
    Stream source,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++  
Task^ UploadFromStreamAsync(
    Stream^ source,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#  
abstract UploadFromStreamAsync :
    source:Stream *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->

VB  
Function UploadFromStreamAsync (}
See Also

UploadFromStreamAsync_Overload
ICloudBlob Interface

Return to top
ICloudBlob.....UploadFromStreamAsync Method
(Stream, CancellationToken)(Stream^,
CancellationToken)(Stream, CancellationToken)(Stream,
CancellationToken)
See Also
Initiates an asynchronous operation to upload a stream to a blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
Task UploadFromStreamAsync(
    Stream source,
    CancellationToken cancellationToken
)
```

**C++**

```cpp
Task^ UploadFromStreamAsync(
    Stream^ source,
    CancellationToken cancellationToken
)
```

**F#**

```fsharp
abstract UploadFromStreamAsync :
    source:Stream *
    cancellationToken:CancellationToken ->
```

**VB**

```vb
Function UploadFromStreamAsync (  
    source As Stream,  
    cancellationToken As CancellationToken  
) As Task
```

**Parameters**

*source*

Type:
See Also

UploadFromStreamAsync_Overload
ICloudBlob Interface

Return to top
<table>
<thead>
<tr>
<th>Method</th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICloudBlob::UploadFromStreamAsync Method</td>
<td>(Stream, Int64)</td>
<td>(Stream^, Int64)</td>
<td>(Stream, Int64)</td>
<td>(Stream, Int64)</td>
</tr>
</tbody>
</table>

See Also
Initiates an asynchronous operation to upload a stream to a block blob.


Syntax

C#

```csharp
Task UploadFromStreamAsync(
    Stream source,
    long length
)
```

C++

```cpp
Task^ UploadFromStreamAsync(
    Stream^ source,
    long long length
)
```

F#

```fsharp
abstract UploadFromStreamAsync :
    source:Stream *
    length:int64 -> Task
```

VB

```vb
Function UploadFromStreamAsync (source As Stream,
    length As Long)
) As Task
```

Parameters

source
Type:
See Also

UploadFromStreamAsync_Overload
ICloudBlob Interface

Return to top
ICloudBlob....UploadFromStreamAsync Method
(Stream, Int64, AccessCondition,
BlobRequestOptions, OperationContext)(Stream^, Int64,
AccessCondition^, BlobRequestOptions^, OperationContext^)
(Stream, Int64, AccessCondition, BlobRequestOptions,
OperationContext)(Stream, Int64, AccessCondition,
BlobRequestOptions, OperationContext)

See Also
Initiates an asynchronous operation to upload a stream to a blob.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  Task UploadFromStreamAsync(
    Stream source,
    long length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext
)
See Also

UploadFromStreamAsync_Overload
ICloudBlob Interface

Return to top
ICloudBlob....UploadFromStreamAsync Method
(Stream, Int64, AccessCondition,
BlobRequestOptions, OperationContext, CancellationToken)
(Stream^, Int64, AccessCondition^, BlobRequestOptions^,
OperationContext^, CancellationToken)(Stream, Int64,
AccessCondition, BlobRequestOptions, OperationContext,
CancellationToken)(Stream, Int64, AccessCondition,
BlobRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to upload a stream to a blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

Task UploadFromStreamAsync(
    Stream source,
    long length,
    AccessCondition accessCondition,
    BlobRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++

Task^ UploadFromStreamAsync(
    Stream^ source,
    long long length,
    AccessCondition^ accessCondition,
    BlobRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#

abstract UploadFromStreamAsync :
    source:Stream *
    length:int64 *
    accessCondition:AccessCondition *
    options:BlobRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->
See Also

UploadFromStreamAsync_Overload
ICloudBlob Interface

Return to top
ICloudBlob.

UploadFromStreamAsync Method
(Stream, Int64, CancellationToken)(Stream^,
Int64, CancellationToken)(Stream, Int64, CancellationToken)
(See Also)
Initiates an asynchronous operation to upload a stream to a block blob.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

### C#
```csharp
Task UploadFromStreamAsync(
    Stream source,
    long length,
    CancellationToken cancellationToken
)
```

### C++
```cpp
Task<
    UploadFromStreamAsync(
    Stream* source,
    long long length,
    CancellationToken cancellationToken
)
```

### F#
```fsharp
abstract UploadFromStreamAsync : 
    source:Stream *
    length:int64 *
    cancellationToken:CancellationToken ->
```

### VB
```vb
Function UploadFromStreamAsync ( 
    source As Stream, 
    length As Long, 
    cancellationToken As CancellationToken 
) As Task
```
See Also

UploadFromStreamAsync_Overload
ICloudBlob Interface

Return to top
CloudStorageAccount Class

See Also
Represents a Windows Azure Storage account.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System:::Object
  Microsoft.WindowsAzure.Storage:::CloudStorageAccount
## Syntax

**C#**

```csharp
public sealed class CloudStorageAccount
```

**C++**

```cpp
public ref class CloudStorageAccount sealed
```

**F#**

```fsharp
[<Sealed>]
type CloudStorageAccount = class end
```

**VB**

```vbnet
Public NotInheritable Class CloudStorageAccount
```
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CloudStorageAccount</strong>*(StorageCredentials, Boolean) (StorageCredentials^, Boolean) (StorageCredentials, Boolean)**</td>
<td>Initializes a new instance of the <strong>CloudStorageAccount</strong> class using the specified credentials, and specifies whether to use HTTP or HTTPS to connect to the storage services.</td>
</tr>
<tr>
<td><strong>CloudStorageAccount</strong>*(StorageCredentials, StorageUri, StorageUri, StorageUri, StorageUri) (StorageCredentials^, StorageUri^, StorageUri^, StorageUri^, StorageUri^) (StorageCredentials, StorageUri, StorageUri, StorageUri, StorageUri) (StorageCredentials, StorageUri, StorageUri, StorageUri, StorageUri)**</td>
<td>Initializes a new instance of the <strong>CloudStorageAccount</strong> class using the specified account credentials and service endpoints.</td>
</tr>
<tr>
<td><strong>CloudStorageAccount</strong>*(StorageCredentials, String, Boolean) (StorageCredentials^, String^, Boolean) (StorageCredentials, String, Boolean)**</td>
<td>Initializes a new instance of the <strong>CloudStorageAccount</strong> class using the specified credentials and endpoint suffix, and specifies whether to use HTTP or HTTPS to connect to the storage services.</td>
</tr>
<tr>
<td>Name</td>
<td>BlobEndpoint</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------</td>
</tr>
<tr>
<td></td>
<td>BlobStorageUri</td>
</tr>
<tr>
<td></td>
<td>Credentials</td>
</tr>
<tr>
<td></td>
<td>DevelopmentStorageAccount</td>
</tr>
<tr>
<td>Method</td>
<td></td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>createCloudAnalyticsClient()</td>
<td></td>
</tr>
<tr>
<td>createCloudBlobClient()</td>
<td></td>
</tr>
<tr>
<td>createCloudFileClient()</td>
<td></td>
</tr>
<tr>
<td>createCloudQueueClient()</td>
<td></td>
</tr>
<tr>
<td>createCloudTableClient()</td>
<td></td>
</tr>
<tr>
<td>equals(Object)</td>
<td></td>
</tr>
</tbody>
</table>
**Thread Safety**

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

Microsoft.WindowsAzure.Storage Namespace

Return to top
DoesServiceRequestAttribute Class

See Also
Specifies that the method will make one or more requests to the storage service.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System..Object
   System..Attribute
      Microsoft.WindowsAzure.Storage..DoesServiceRequestAttribute
Syntax

C#  
```csharp
[AttributeUsageAttribute(AttributeTargets.Method, AllowMultiple = true)]
public sealed class DoesServiceRequestAttribute
```

C++
```cpp
[AttributeUsageAttribute(AttributeTargets::Method, AllowMultiple = true)]
public ref class DoesServiceRequestAttribute sealed
```

F#
```fsharp
[<Sealed>]
[<AttributeUsageAttribute(AttributeTargets.Method, AllowMultiple = true)]
type DoesServiceRequestAttribute =
    class
        inherit Attribute
    end
```

VB
```vb
<AttributeUsageAttribute(AttributeTargets.Method, AllowMultiple = True)]
Public NotInheritable Class DoesServiceRequestAttribute
    Inherits Attribute
```
### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>DoesServiceRequestAttribute()</code></td>
<td></td>
</tr>
</tbody>
</table>
# Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Equals" /> (Object) (Object^) (Object) (Object)</td>
<td>(Inherited from Attribute.)</td>
</tr>
<tr>
<td><img src="image" alt="GetHashCode" /> () () () ()</td>
<td>(Inherited from Attribute.)</td>
</tr>
<tr>
<td><img src="image" alt="GetType" /> () () () () ()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td><img src="image" alt="Match" /> (Object) (Object^) (Object) (Object)</td>
<td>(Inherited from Attribute.)</td>
</tr>
<tr>
<td><img src="image" alt="ToString" /> () () () () ()</td>
<td>(Inherited from Object.)</td>
</tr>
</tbody>
</table>
Thread Safety

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

Microsoft.WindowsAzure.Storage Namespace

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<table>
<thead>
<tr>
<th>IPAddressOrRange Class</th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Specifies either a single IP Address or a single range of IP Addresses (a minimum and a maximum, inclusive.)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System::..Object
Microsoft.WindowsAzure.Storage::..IPAddressOrRange
Syntax

C#

```csharp
public class IPAddressOrRange
```

C++

```cpp
public ref class IPAddressOrRange
```

F#

```fsharp
type IPAddressOrRange = class end
```

VB

```vbnet
Public Class IPAddressOrRange
```

```vbnet```
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPAddressOrRange(String)(String^)(String)(String)</td>
<td>Initializes a new instance of the IPAddressOrRange class from a single IPAddress.</td>
</tr>
<tr>
<td>IPAddressOrRange(String, String)(String^, String^)(String, String)(String, String)</td>
<td>Initializes a new instance of the IPAddressOrRange class from two IPAddress objects, minimum and a maximum.</td>
</tr>
</tbody>
</table>
# Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>IsSingleAddress</th>
<th>MaximumAddress</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Address</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Address</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Address</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Address</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals(Object)(Object^)(Object)(Object)</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>Finalize()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetHashCode()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetType()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>MemberwiseClone()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td></td>
<td>Provides a string representation of this object.</td>
</tr>
</tbody>
</table>

Provides a string representation of this IPAddressOrRange object.
Thread Safety

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

Microsoft.WindowsAzure.Storage Namespace

Return to top
<table>
<thead>
<tr>
<th>NameValidator Class</th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Provides helpers to validate resource names across the Microsoft Azure Storage Services.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System..Object
    Microsoft.WindowsAzure.Storage..NameValidator
### Syntax

**C#**
```
public static class NameValidator
```

**C++**
```
public ref class NameValidator abstract sealed
```

**F#**
```
[<AbstractClass>]
[<Sealed>]
type NameValidator = class end
```

**VB**
```
Public NotInheritable Class NameValidator
```
### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ValidateBlobName(String)(String^)(String)(String)</td>
<td>Checks if blob name is valid.</td>
</tr>
<tr>
<td>ValidateContainerName(String)(String^)(String)(String)</td>
<td>Checks if container name is valid.</td>
</tr>
<tr>
<td>ValidateDirectoryName(String)(String^)(String)(String)</td>
<td>Checks if directory name is valid.</td>
</tr>
<tr>
<td>ValidateFileName(String)(String^)(String)(String)</td>
<td>Checks if file name is valid.</td>
</tr>
</tbody>
</table>
**Thread Safety**

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

Microsoft.WindowsAzure.Storage Namespace

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<table>
<thead>
<tr>
<th>OperationContext Class</th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Represents the context for a request operation against the storage service, and provides additional runtime information about its execution.

**Namespace:**  Microsoft.WindowsAzure.Storage  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System:::Object
  Microsoft.WindowsAzure.Storage:::OperationContext
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public sealed class OperationContext</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public ref class OperationContext sealed</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>[&lt;Sealed&gt;] type OperationContext = class end</code></td>
</tr>
<tr>
<td>VB</td>
<td><code>Public NotInheritable Class OperationContext</code></td>
</tr>
</tbody>
</table>
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OperationContext()()()</td>
<td>Initializes a new instance of the <strong>OperationContext</strong> class.</td>
</tr>
<tr>
<td>Name</td>
<td></td>
</tr>
<tr>
<td>---------------</td>
<td></td>
</tr>
<tr>
<td>ClientRequestID</td>
<td></td>
</tr>
<tr>
<td>DefaultLogLevel</td>
<td></td>
</tr>
<tr>
<td>EndTime</td>
<td></td>
</tr>
<tr>
<td>LastResult</td>
<td></td>
</tr>
</tbody>
</table>
### Methods

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✤ ✤ GlobalRequestCompleted</td>
<td>Occurs after a response has been fully received and processed.</td>
</tr>
<tr>
<td>✤ ✤ GlobalResponseReceived</td>
<td>Occurs when a response is received from the server, before any processing or downloading.</td>
</tr>
<tr>
<td>✤ ✤ GlobalRetrying</td>
<td>Occurs before a request is retried</td>
</tr>
<tr>
<td>✤ ✤ GlobalSendingRequest</td>
<td>Occurs immediately before a request is signed.</td>
</tr>
<tr>
<td>✤ ✤ RequestCompleted</td>
<td>Occurs after a response has been fully received and processed.</td>
</tr>
</tbody>
</table>
Thread Safety

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

Microsoft.WindowsAzure.Storage Namespace

Return to top
RequestEventArgs Class

See Also
Provides information and event data that is associated with a request event.

Namespace:  Microsoft.WindowsAzure.Storage
**Inheritance Hierarchy**

```
System::..Object
  System::..EventArgs
    Microsoft.WindowsAzure.Storage::..RequestEventArgs
```
### Syntax

<table>
<thead>
<tr>
<th></th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
</tr>
</thead>
</table>
|      | `public sealed class RequestEventArgs : EventArgs` | `public ref class RequestEventArgs sealed : EventArgs` | `[@<Sealed>] type RequestEventArgs = class
   class
       inherit EventArgs
   end` | `Public NotInheritable Class RequestEventArgs
   Inherits EventArgs` |
### Constructors

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>RequestEventArgs(RequestResult)(RequestResult^)(RequestResult)(Req</code></td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Request</code></td>
</tr>
<tr>
<td><code>RequestInformation</code></td>
</tr>
<tr>
<td><code>Response</code></td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals(Object)(Object^)(Object)(Object)</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetHashCode()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetType()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>ToString()</td>
<td>(Inherited from Object.)</td>
</tr>
</tbody>
</table>
**Thread Safety**

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

Microsoft.WindowsAzure.Storage Namespace

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<table>
<thead>
<tr>
<th>RequestResult Class</th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Represents the result of a physical request.

**Namespace:**  [Microsoft.WindowsAzure.Storage](http://microsoft.windowsazure.storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System:::Object
  Microsoft.WindowsAzure.Storage:::RequestResult
Syntax

C#  
public sealed class RequestResult

C++  
public ref class RequestResult sealed

F#  
[<Sealed>]
type RequestResult = class end

VB  
Public NotInheritable Class RequestResult
### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RequestResult()()()</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>ContentMd5</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------</td>
</tr>
<tr>
<td>EgressBytes</td>
<td>EgressBytes</td>
</tr>
<tr>
<td>EndTime</td>
<td>EndTime</td>
</tr>
<tr>
<td>Etag</td>
<td>Etag</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals(Object)(Object^)(Object)(Object)</td>
</tr>
<tr>
<td>GetHashCode()()()()</td>
</tr>
<tr>
<td>GetType()()()()()</td>
</tr>
<tr>
<td><strong>ReadXml(XmlReader)(XmlReader^)(XmlReader)(XmlReader)</strong></td>
</tr>
</tbody>
</table>
Thread Safety

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

Microsoft.WindowsAzure.Storage Namespace

Return to top
ResultSegment<TElement><TElement>

(OF TElement) Class

See Also
Represents a result segment that was retrieved from the total set of possible results.

Namespace: Microsoft.WindowsAzure.Storage
Inheritance Hierarchy

System:::Object
  Microsoft.WindowsAzure.Storage:::ResultSegment<TElement>
  <TElement>::'TElement>(Of TElement)
Syntax

C#    
public class ResultSegment<TElement>

C++

generic<typename TElement>
public ref class ResultSegment

F#

type ResultSegment<'TElement> = class end

VB

Public Class ResultSegment(Of TElement)

Type Parameters

TElement

The type of the element returned in the result segment.
## Properties

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ContinuationToken</td>
</tr>
<tr>
<td>Results</td>
</tr>
</tbody>
</table>
Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals(Object)(Object^)(Object)(Object)</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>Finalize()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetHashCode()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetType()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>MemberwiseClone()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>ToString()</td>
<td>(Inherited from Object.)</td>
</tr>
</tbody>
</table>
Thread Safety

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

Any instance members are not guaranteed to be thread safe.
See Also

Microsoft.WindowsAzure.Storage Namespace

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<table>
<thead>
<tr>
<th><strong>SharedAccessAccountPolicy Class</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>See Also</strong></td>
</tr>
</tbody>
</table>
Represents a shared access policy for an account, which specifies the start time, expiry time, permissions, signed service, signed resource type, signed protocol, and signed IP addresses for a shared access signature.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System:::Object

Microsoft.WindowsAzure.Storage:::SharedAccessAccountPolicy
Syntax

C#  
`public sealed class SharedAccessAccountPolicy`

C++  
`public ref class SharedAccessAccountPolicy sealed`

F#  
`[<Sealed>]`  
`type SharedAccessAccountPolicy = class end`

VB  
`Public NotInheritable Class SharedAccessAccountPolicy`
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>SharedAccessAccountPolicy()</code></td>
<td>Initializes a new instance of the SharedAccessAccountPolicy class</td>
</tr>
<tr>
<td>Name</td>
<td></td>
</tr>
<tr>
<td>------</td>
<td></td>
</tr>
<tr>
<td>IPAddressOrRange</td>
<td>IPAddressOrRange</td>
</tr>
<tr>
<td>Permissions</td>
<td>Permissions</td>
</tr>
<tr>
<td>Protocols</td>
<td>Protocols</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Equals(Object)(Object^)(Object)(Object)</code></td>
</tr>
<tr>
<td><code>GetHashCode()</code></td>
</tr>
<tr>
<td><code>GetType()</code></td>
</tr>
<tr>
<td><code>PermissionsToString(SharedAccessAccountPermissions)(SharedAccessAccountPermissions)</code></td>
</tr>
</tbody>
</table>
Thread Safety

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

Microsoft.WindowsAzure.Storage Namespace

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<table>
<thead>
<tr>
<th>StorageException Class</th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Represents an exception thrown by the Windows Azure storage service.

**Namespace:**  Microsoft.WindowsAzure.Storage  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Inheritance Hierarchy**

System...Object
  System...Exception
    Microsoft.WindowsAzure.Storage...StorageException
Syntax

C#
public class StorageException : Exception

C++
public ref class StorageException : Exception

F#
type StorageException =
    class
        inherit Exception
    end

VB
Public Class StorageException
    Inherits Exception
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>StorageException()</code></td>
<td>Initializes a new instance of the <code>StorageException</code> class.</td>
</tr>
<tr>
<td><code>StorageException(RequestResult, String, Exception)</code></td>
<td>Initializes a new instance of the <code>StorageException</code> class by using the specified parameters.</td>
</tr>
<tr>
<td><code>StorageException(String)</code></td>
<td>Initializes a new instance of the <code>StorageException</code> class using the specified error message.</td>
</tr>
<tr>
<td><code>StorageException(String^)(String^)(String)(String)</code></td>
<td>Initializes a new instance of the <code>StorageException</code> class using the specified error message.</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data</td>
</tr>
<tr>
<td>HelpLink</td>
</tr>
<tr>
<td>HResult</td>
</tr>
<tr>
<td>InnerException</td>
</tr>
<tr>
<td>Message</td>
</tr>
</tbody>
</table>
### Methods

<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals(Object)(Object^)(Object)(Object)</td>
<td>(Inherited from</td>
</tr>
</tbody>
</table>
Thread Safety

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

Microsoft.WindowsAzure.Storage Namespace

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<table>
<thead>
<tr>
<th>StorageExtendedErrorInformation Class</th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Represents extended error information returned by the Windows Azure storage services.

**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System:::Object

Microsoft.WindowsAzure.Storage:::StorageExtendedErrorInformation
Syntax

C#  

```csharp
public sealed class StorageExtendedErrorInformation
```

C++  

```cpp
public ref class StorageExtendedErrorInformation
```

F#  

```fsharp
[<Sealed>]
type StorageExtendedErrorInformation = class end
```

VB  

```vb
Public NotInheritable Class StorageExtendedErrorInformation
```
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>StorageExtendedErrorInformation(0000)</td>
<td>Initializes a new instance of the StorageExtendedErrorInformation class.</td>
</tr>
<tr>
<td>Name</td>
<td></td>
</tr>
<tr>
<td>----------------------</td>
<td></td>
</tr>
<tr>
<td>AdditionalDetails</td>
<td></td>
</tr>
<tr>
<td>ErrorCode</td>
<td></td>
</tr>
<tr>
<td>ErrorMessage</td>
<td></td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td><code>Equals</code></td>
<td>(Object)(Object^)(Object)(Object)</td>
</tr>
<tr>
<td><code>GetHashCode</code></td>
<td>()()()</td>
</tr>
<tr>
<td><code>GetType</code></td>
<td>0000</td>
</tr>
<tr>
<td><code>ReadAndParseExtendedError</code></td>
<td>(IODataResponseMessage)(IODataResponseMessage^)</td>
</tr>
<tr>
<td><code>ReadFromStream</code></td>
<td>(Stream)(Stream^)(Stream)(Stream)</td>
</tr>
</tbody>
</table>
**Thread Safety**

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

Microsoft.WindowsAzure.Storage Namespace

Return to top
StorageUri Class

See Also
Contains the URIs for both the primary and secondary locations of a Windows Azure Storage resource.

**Namespace**: [Microsoft.WindowsAzure.Storage](https://github.com)
Inheritance Hierarchy

System:::Object
  Microsoft.WindowsAzure.Storage:::StorageUri
Syntax

C#  
```csharp
public sealed class StorageUri : IEquatable<StorageUri>
```

C++  
```cpp
public ref class StorageUri sealed : IEquatable<StorageUri^>
```

F#  
```fsharp
[<Sealed>]
type StorageUri =
    class
        interface IEquatable<StorageUri>
    end
```

VB  
```vbnet
Public NotInheritable Class StorageUri
    Implements IEquatable(Of StorageUri)
```
### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>StorageUri(Uri)(Uri^)(Uri)(Uri)</strong></td>
<td>Initializes a new instance of the <code>StorageUri</code> class using the primary endpoint for the storage account.</td>
</tr>
<tr>
<td><strong>StorageUri(Uri, Uri)(Uri^, Uri^)(Uri, Uri)(Uri, Uri)</strong></td>
<td>Initializes a new instance of the <code>StorageUri</code> class using the primary and secondary endpoints for the storage account.</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PrimaryUri</td>
<td>The endpoint for the primary location for the storage account.</td>
</tr>
<tr>
<td>SecondaryUri</td>
<td>The endpoint for the secondary location for the storage account.</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Equals(Object)</code></td>
<td>Object comparison</td>
</tr>
<tr>
<td><code>Equals(StorageUri)</code></td>
<td>Comparison with StorageUri</td>
</tr>
<tr>
<td><code>GetHashCode()</code></td>
<td>Hash code generation</td>
</tr>
<tr>
<td><code>GetType()</code></td>
<td>Type information</td>
</tr>
<tr>
<td><code>GetUri(StorageLocation)</code></td>
<td>Location URL retrieval</td>
</tr>
</tbody>
</table>
## Operators

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
</table>
| **Equality**(*StorageUri*, *StorageUri*)
  (*StorageUri^*, *StorageUri^*)
  (*StorageUri*, *StorageUri*)
  (*StorageUri*, *StorageUri*) | Compares two *StorageUri* objects for equivalency. |
| **Inequality**(*StorageUri*, *StorageUri*)
  (*StorageUri^*, *StorageUri^*)
  (*StorageUri*, *StorageUri*)
  (*StorageUri*, *StorageUri*) | Compares two *StorageUri* objects for non-equivalency. |
**Thread Safety**

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

Microsoft.WindowsAzure.Storage Namespace

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<table>
<thead>
<tr>
<th>IContinuationToken Interface</th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
An interface required for continuation token types.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td>public interface IContinuationToken</td>
</tr>
<tr>
<td>C++</td>
<td>public interface class IContinuationToken</td>
</tr>
<tr>
<td>F#</td>
<td>type IContinuationToken = interface end</td>
</tr>
<tr>
<td>VB</td>
<td>Public Interface IContinuationToken</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>TargetLocation</code></td>
<td>Gets the location that the token applies to.</td>
</tr>
</tbody>
</table>
Remarks

The TableContinuationToken, BlobContinuationToken, and QueueContinuationToken classes implement the IContinuationToken interface.
See Also

Microsoft.WindowsAzure.Storage Namespace

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<table>
<thead>
<tr>
<th>IRequestOptions Interface</th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
An interface required for request option types.

**Namespace:**  Microsoft.WindowsAzure.Storage  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
public interface IRequestOptions
```

**C++**

```cpp
public interface class IRequestOptions
```

**F#**

```fsharp
type IRequestOptions = interface end
```

**VB**

```vb
Public Interface IRequestOptions
```
### Properties

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>LocationMode</td>
</tr>
<tr>
<td>LocationMode</td>
</tr>
<tr>
<td>LocationMode</td>
</tr>
<tr>
<td>LocationMode</td>
</tr>
<tr>
<td>LocationMode</td>
</tr>
<tr>
<td>MaximumExecutionTime</td>
</tr>
<tr>
<td>MaximumExecutionTime</td>
</tr>
<tr>
<td>MaximumExecutionTime</td>
</tr>
<tr>
<td>RequireEncryption</td>
</tr>
<tr>
<td>RequireEncryption</td>
</tr>
<tr>
<td>RequireEncryption</td>
</tr>
<tr>
<td>RequireEncryption</td>
</tr>
</tbody>
</table>
Remarks

The `QueueRequestOptions`, `BlobRequestOptions`, and `TableRequestOptions` classes implement the `IRequestOptions` interface.
See Also

Microsoft.WindowsAzure.Storage Namespace

Return to top
AuthenticationScheme Enumeration

See Also
Specifies the authentication scheme used to sign HTTP requests.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public enum AuthenticationScheme
```

C++  

```cpp
public enum class AuthenticationScheme
```

F#  

```fsharp
type AuthenticationScheme
```

VB  

```vbnet
Public Enumeration AuthenticationScheme
```
# Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SharedKey</td>
<td>Signs HTTP requests using the Shared Key authentication scheme.</td>
</tr>
<tr>
<td>SharedKeyLite</td>
<td>Signs HTTP requests using the Shared Key Lite authentication scheme.</td>
</tr>
</tbody>
</table>
See Also

Microsoft.WindowsAzure.Storage Namespace

Return to top
LogLevel Enumeration

See Also
Specifies what messages to output to the log.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#
public enum LogLevel

C++
public enum class LogLevel

F#
type LogLevel

VB
Public Enumeration LogLevel
# Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Error</td>
<td>Output error-handling messages.</td>
</tr>
<tr>
<td>Informational</td>
<td>Output informational messages, warnings, and error-handling messages.</td>
</tr>
<tr>
<td>Off</td>
<td>Output no tracing and debugging messages.</td>
</tr>
<tr>
<td>Verbose</td>
<td>Output all debugging and tracing messages.</td>
</tr>
<tr>
<td>Warning</td>
<td>Output warnings and error-handling messages.</td>
</tr>
</tbody>
</table>
See Also

Microsoft.WindowsAzure.Storage Namespace

Return to top
SharedAccessAccountPermissions Enumeration

See Also
Specifies the set of possible permissions for a shared access account policy.

This enumeration has a FlagsAttribute attribute that allows a bitwise combination of its member values.

**Namespace:**  [Microsoft.WindowsAzure.Storage](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>[FlagsAttribute]&lt;br/&gt;public enum SharedAccessAccountPermissions</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>[FlagsAttribute]&lt;br/&gt;public enum class SharedAccessAccountPermissions</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>[&lt;FlagsAttribute&gt;]&lt;br/&gt;type SharedAccessAccountPermissions</td>
</tr>
<tr>
<td><strong>VB</strong></td>
<td>&lt;FlagsAttribute&gt;&lt;br/&gt;Public Enumeration SharedAccessAccountPermissions</td>
</tr>
</tbody>
</table>
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add</td>
<td>Permission to add messages, table entities, blobs, and files granted.</td>
</tr>
<tr>
<td>Create</td>
<td>Permission to create containers, blobs, shares, directories, and files granted.</td>
</tr>
<tr>
<td>Delete</td>
<td>Permission to delete resources granted.</td>
</tr>
<tr>
<td>List</td>
<td>Permission to list blob containers, blobs, shares, directories, and files granted.</td>
</tr>
<tr>
<td>None</td>
<td>No shared access granted.</td>
</tr>
</tbody>
</table>
See Also

Microsoft.WindowsAzure.Storage Namespace

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SharedAccessAccountResourceTypes Enumeration

See Also
 Specifies the set of possible signed resource types for a shared access account policy.

This enumeration has a FlagsAttribute attribute that allows a bitwise combination of its member values.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>[FlagsAttribute]</code>&lt;br&gt;<code>public enum SharedAccessAccountResourceTypes</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>[FlagsAttribute]</code>&lt;br&gt;<code>public enum class SharedAccessAccountResourceTypes</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>&lt;FlagsAttribute&gt;</code>&lt;br&gt;<code>type SharedAccessAccountResourceTypes</code></td>
</tr>
<tr>
<td>VB</td>
<td><code>&lt;FlagsAttribute&gt;</code>&lt;br&gt;<code>Public Enumeration SharedAccessAccountResourceTypes</code></td>
</tr>
</tbody>
</table>
# Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Container</strong></td>
<td>Permission to access container level APIs (Blob Containers, Tables, Queues, File Shares) granted.</td>
</tr>
<tr>
<td><strong>None</strong></td>
<td>No shared access granted.</td>
</tr>
<tr>
<td><strong>Object</strong></td>
<td>Permission to access object level APIs (Blobs, Table Entities, Queue Messages, Files) granted.</td>
</tr>
<tr>
<td><strong>Service</strong></td>
<td>Permission to access service level APIs granted.</td>
</tr>
</tbody>
</table>
See Also

Microsoft.WindowsAzure.Storage Namespace

Return to top
SharedAccessAccountServices Enumeration
See Also
Specifies the set of possible signed services for a shared access account policy.

This enumeration has a FlagsAttribute attribute that allows a bitwise combination of its member values.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[FlagsAttribute]
public enum SharedAccessAccountServices

C++  
[FlagsAttribute]
public enum class SharedAccessAccountServices

F#  
[<FlagsAttribute>]
type SharedAccessAccountServices

VB  
<FlagsAttribute>
Public Enumeration SharedAccessAccountServices
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blob</td>
<td>Permission to access blob resources granted.</td>
</tr>
<tr>
<td>File</td>
<td>Permission to access file resources granted.</td>
</tr>
<tr>
<td>None</td>
<td>No shared access granted.</td>
</tr>
<tr>
<td>Queue</td>
<td>Permission to access queue resources granted.</td>
</tr>
<tr>
<td>Table</td>
<td>Permission to access table resources granted.</td>
</tr>
</tbody>
</table>
See Also

Microsoft.WindowsAzure.Storage Namespace

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SharedAccessProtocol Enumeration

See Also
Specifies the set of possible signed protocols for a shared access account policy.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax for SharedAccessProtocol</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public enum SharedAccessProtocol</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public enum class SharedAccessProtocol</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>type SharedAccessProtocol</code></td>
</tr>
<tr>
<td>VB</td>
<td><code>Public Enumeration SharedAccessProtocol</code></td>
</tr>
</tbody>
</table>
Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HttpsOnly</td>
<td>Permission to use SAS only through https granted.</td>
</tr>
<tr>
<td>HttpsOrHttp</td>
<td>Permission to use SAS through https or http granted. Equivalent to not specifying any permission at all.</td>
</tr>
</tbody>
</table>
See Also

Microsoft.WindowsAzure.Storage Namespace

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<table>
<thead>
<tr>
<th>StorageLocation Enumeration</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
</tr>
</tbody>
</table>
 Represents a storage service location.

**Namespace:**  [Microsoft.WindowsAzure.Storage]

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

**C#**

```csharp
public enum StorageLocation
```

**C++**

```cpp
public enum class StorageLocation
```

**F#**

```fsharp
type StorageLocation
```

**VB**

```vbnet
Public Enumeration StorageLocation
```
# Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary</td>
<td>Primary storage service location.</td>
</tr>
<tr>
<td>Secondary</td>
<td>Secondary storage service location.</td>
</tr>
</tbody>
</table>
See Also

Microsoft.WindowsAzure.Storage Namespace

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<table>
<thead>
<tr>
<th>StorageCredentials Class</th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Represents a set of credentials used to authenticate access to a Windows Azure storage account.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Auth](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage.auth)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System:::Object
    Microsoft.WindowsAzure.Storage.Auth:::StorageCredentials
Syntax

C#  
```csharp
public sealed class StorageCredentials
```

C++  
```cpp
public ref class StorageCredentials sealed
```

F#  
```fsharp
[<Sealed>]
type StorageCredentials = class end
```

VB  
```vbnet
Public NotInheritable Class StorageCredentials
```
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>StorageCredentials()</strong></td>
<td>Initializes a new instance of the <code>StorageCredentials</code> class.</td>
</tr>
<tr>
<td><strong>StorageCredentials(String)(String^)(String)(String)</strong></td>
<td>Initializes a new instance of the <code>StorageCredentials</code> class with the specified shared access signature token.</td>
</tr>
<tr>
<td><strong>StorageCredentials(String, Byte[])(String^, array&lt;Byte&gt;^)(String, Byte[])(String, Byte())</strong></td>
<td>Initializes a new instance of the <code>StorageCredentials</code> class with the specified account name and key value.</td>
</tr>
</tbody>
</table>
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccountName</td>
<td>Gets the associated account name for the credentials.</td>
</tr>
<tr>
<td>IsAnonymous</td>
<td>Gets a value indicating whether the credentials are for anonymous access.</td>
</tr>
<tr>
<td>IsSAS</td>
<td>Gets a value indicating whether the credentials are a shared access signature token.</td>
</tr>
<tr>
<td>IsSharedKey</td>
<td>Gets a value indicating whether the credentials are a shared key.</td>
</tr>
<tr>
<td>Name</td>
<td></td>
</tr>
<tr>
<td>------</td>
<td></td>
</tr>
<tr>
<td>Equals(Object)(Object^)(Object)(Object)</td>
<td></td>
</tr>
<tr>
<td>Equals(StorageCredentials)(StorageCredentials^)(StorageCredentials)(StorageCredentials)</td>
<td></td>
</tr>
<tr>
<td>ExportBase64EncodedKey()()()</td>
<td></td>
</tr>
<tr>
<td>ExportKey()()()</td>
<td></td>
</tr>
</tbody>
</table>
Thread Safety

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

Microsoft.WindowsAzure.Storage.Auth Namespace

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<table>
<thead>
<tr>
<th>CloudBlob Constructor</th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
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<tr>
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</tbody>
</table>
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CloudBlob(StorageUri, Nullable&lt;DateTimeOffset&gt;, StorageCredentials)(StorageUri^, Nullable&lt;DateTimeOffset&gt;, StorageCredentials^) (StorageUri, Nullable&lt;DateTimeOffset&gt;, StorageCredentials)(StorageUri, Nullable(Of DateTimeOffset), StorageCredentials)</td>
<td>Initializes a new instance of the CloudBlob class using an absolute URI to the blob.</td>
</tr>
<tr>
<td>CloudBlob(Uri)(Uri^)(Uri)</td>
<td></td>
</tr>
<tr>
<td>CloudBlob(Uri, Nullable&lt;DateTimeOffset&gt;, StorageCredentials)(Uri^, Nullable&lt;DateTimeOffset&gt;, StorageCredentials^) (Uri, Nullable&lt;DateTimeOffset&gt;, StorageCredentials)(Uri, Nullable(Of DateTimeOffset), StorageCredentials)</td>
<td>Initializes a new instance of the CloudBlob class using an absolute URI to the blob.</td>
</tr>
</tbody>
</table>
See Also

- CloudBlob Class

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See Also
### Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AbortCopyAsync(String)(String^)(String)(String)</strong></td>
<td>Initiates an asynchronous operation to abort an ongoing blob copy operation.</td>
</tr>
<tr>
<td><strong>AbortCopyAsync(String, AccessCondition, BlobRequestOptions, OperationContext)(String^, AccessCondition^, BlobRequestOptions^, OperationContext^)</strong></td>
<td>Initiates an asynchronous operation to abort an ongoing blob copy operation.</td>
</tr>
<tr>
<td><strong>AbortCopyAsync(String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(String^, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)</strong></td>
<td>Initiates an asynchronous operation to abort an ongoing blob copy operation.</td>
</tr>
</tbody>
</table>
See Also

CloudBlob Class

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<table>
<thead>
<tr>
<th>CloudBlob::AcquireLeaseAsync Method</th>
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</table>

See Also
# Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AcquireLeaseAsync</strong>&lt;br&gt;(Nullable&lt;TimeSpan&gt;, String)</td>
<td>Initiates an asynchronous operation to acquire a lease on this blob.</td>
</tr>
<tr>
<td><strong>AcquireLeaseAsync</strong>&lt;br&gt;(Nullable&lt;TimeSpan&gt;, String^)</td>
<td></td>
</tr>
<tr>
<td><strong>AcquireLeaseAsync</strong>&lt;br&gt;(Nullable&lt;TimeSpan&gt;, String)(Nullable(Of TimeSpan), String)</td>
<td></td>
</tr>
<tr>
<td><strong>AcquireLeaseAsync</strong>&lt;br&gt;(Nullable&lt;TimeSpan&gt;, String, AccessCondition, BlobRequestOptions, OperationContext)(Nullable&lt;TimeSpan&gt;, String^, AccessCondition^, BlobRequestOptions^, OperationContext^)</td>
<td>Initiates an asynchronous operation to acquire a lease on this blob.</td>
</tr>
<tr>
<td><strong>AcquireLeaseAsync</strong>&lt;br&gt;(Nullable&lt;TimeSpan&gt;, String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(Nullable&lt;TimeSpan&gt;, String^, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken^)</td>
<td>Initiates an asynchronous operation to acquire a lease on this blob.</td>
</tr>
</tbody>
</table>
See Also

CloudBlob Class

Return to top
CloudBlob::BeginAbortCopy Method

See Also
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BeginAbortCopy(String, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)(String^, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)(String, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to abort an ongoing blob copy operation.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BeginAbortCopy(String, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to abort an ongoing blob copy operation.</td>
</tr>
</tbody>
</table>
See Also

CloudBlob Class

Return to top
CloudBlob::BeginAcquireLease Method

See Also
# Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BeginAcquireLease(Nullable&lt;TimeSpan&gt;, String, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to acquire a lease on this blob.</td>
</tr>
<tr>
<td><strong>BeginAcquireLease(Nullable&lt;TimeSpan&gt;, String, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to acquire a lease on this blob.</td>
</tr>
</tbody>
</table>
See Also

CloudBlob Class

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<table>
<thead>
<tr>
<th>CloudBlob:::BeginBreakLease Method</th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Also</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BeginBreakLease</strong>*(Nullable&lt;TimeSpan&gt;, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)**</td>
<td>Begins an asynchronous operation to break the current lease on this blob.</td>
</tr>
<tr>
<td><strong>BeginBreakLease</strong>*(Nullable&lt;TimeSpan&gt;, AsyncCallback, Object)**</td>
<td>Begins an asynchronous operation to break the current lease on this blob.</td>
</tr>
</tbody>
</table>

*Note: Additional overloads are available for the `BeginBreakLease` method.*
See Also

CloudBlob Class

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CloudBlob::BeginChangeLease Method

See Also
# Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BeginChangeLease(String, AccessCondition, AsyncCallback, Object)</strong>(String^, AccessCondition^, AsyncCallback^, Object^)</td>
<td>Begins an asynchronous operation to change the lease on this blob.</td>
</tr>
<tr>
<td><strong>BeginChangeLease(String, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong>(String^, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</td>
<td>Begins an asynchronous operation to change the lease on this blob.</td>
</tr>
</tbody>
</table>
See Also

CloudBlob Class

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CloudBlob:::BeginDelete Method

See Also
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BeginDelete</strong></td>
<td>Begins an asynchronous operation to delete the blob.</td>
</tr>
<tr>
<td>(AsyncCallback, Object)</td>
<td></td>
</tr>
<tr>
<td>(AsyncCallback^, Object^)</td>
<td></td>
</tr>
<tr>
<td>(AsyncCallback, Object)</td>
<td></td>
</tr>
</tbody>
</table>

| **BeginDelete**                           | Begins an asynchronous operation to delete the blob.                       |
| (DeleteSnapshotsOption, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object) |                                                                             |
| (DeleteSnapshotsOption, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^) |                                                                             |
| (DeleteSnapshotsOption, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object) |                                                                             |
See Also

CloudBlob Class

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CloudBlob::BeginDeleteIfExists Method

See Also
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BeginDeleteIfExists(AsyncCallback, Object)</strong></td>
<td></td>
</tr>
<tr>
<td>(AsyncCallback^, Object^)(AsyncCallback, Object)</td>
<td></td>
</tr>
<tr>
<td>(AsyncCallback, Object)</td>
<td></td>
</tr>
<tr>
<td>Begins an asynchronous request to delete the blob if it already exists.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BeginDeleteIfExists(DeleteSnapshotsOption, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td></td>
</tr>
<tr>
<td>(DeleteSnapshotsOption, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)(DeleteSnapshotsOption, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td></td>
</tr>
<tr>
<td>Begins an asynchronous request to delete the blob if it already exists.</td>
<td></td>
</tr>
</tbody>
</table>
See Also

CloudBlob Class

Return to top
CloudBlob..::.BeginDownloadRangeToByteArray

See Also
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BeginDownloadRangeToByteArray(Byte[], Int32, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to download a range of bytes from a blob to byte array.</td>
</tr>
<tr>
<td><strong>BeginDownloadRangeToByteArray</strong> (array&lt;Byte&gt;^, Int32, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</td>
<td>Begins an asynchronous operation to download a range of bytes from a blob to byte array.</td>
</tr>
</tbody>
</table>

**BeginDownloadRangeToByteArray(Byte[], Int32, Nullable(Of Int64), Nullable(Of Int64), AsyncCallback, Object)** (Byte(), Int32, Nullable(Of Int64), Nullable(Of Int64), AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)
See Also

CloudBlob Class

Return to top
| CloudBlob::BeginDownloadRangeToStream Method |
| See Also |

**C#** **C++** **F#** **VB**
**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://microsoftwindowsazurestoragescript.blob)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BeginDownloadRangeToStream(Stream, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)(Stream, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to download a range of bytes from a blob to stream.</td>
</tr>
<tr>
<td><strong>BeginDownloadRangeToStream(Stream, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AsyncCallback, Object)(Stream, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to download a range of bytes from a blob to stream.</td>
</tr>
</tbody>
</table>
See Also

CloudBlob Class

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CloudBlob::BeginDownloadToByteArray Method

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# Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td><strong>BeginDownloadToByteArray(Byte[], Int32, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong>&lt;br&gt;<strong>(array&lt;Byte&gt;^, Int32, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</strong>(Byte[], Int32, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to download the contents of a blob to a byte array.</td>
</tr>
<tr>
<td><strong>BeginDownloadToByteArray(Byte[], Int32, AsyncCallback, Object)</strong>&lt;br&gt;<strong>(array&lt;Byte&gt;^, Int32, AsyncCallback^, Object^)</strong>(Byte[], Int32, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to download the contents of a blob to a byte array.</td>
</tr>
</tbody>
</table>
See Also

CloudBlob Class

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CloudBlob::BeginDownloadToFile Method

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# Overload List

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<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>BeginDownloadToFile(String, FileMode, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to download the contents of a blob to a file.</td>
</tr>
<tr>
<td><code>BeginDownloadToFile(String, FileMode, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to download the contents of a blob to a file.</td>
</tr>
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</table>
See Also

CloudBlob Class

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CloudBlob::BeginDownloadToStream Method  
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<tr>
<th>Name</th>
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<tbody>
<tr>
<td><strong>BeginDownloadToStream(Stream, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong>(Stream^, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</td>
<td>Begins an asynchronous operation to download the contents of a blob to a stream.</td>
</tr>
<tr>
<td><strong>BeginDownloadToStream(Stream, AsyncCallback, Object)</strong>(Stream^, AsyncCallback^, Object^)</td>
<td>Begins an asynchronous operation to download the contents of a blob to a stream.</td>
</tr>
</tbody>
</table>
See Also

CloudBlob Class

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<table>
<thead>
<tr>
<th>CloudBlob::*BeginExists Method</th>
</tr>
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</table>

See Also

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BeginExists(AsyncCallback, Object)</strong>&lt;br&gt; <strong>(AsyncCallback^, Object^)(AsyncCallback, Object)</strong>&lt;br&gt; <strong>(AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous request to check existence of the blob.</td>
</tr>
<tr>
<td><strong>BeginExists(BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong>&lt;br&gt; <strong>(BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</strong>&lt;br&gt; <strong>(BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous request to check existence of the blob.</td>
</tr>
</tbody>
</table>
See Also

CloudBlob Class
CloudBlob::BeginFetchAttributes Method

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<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>BeginFetchAttributes(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to populate the blob's properties and metadata.</td>
</tr>
<tr>
<td><code>BeginFetchAttributes(AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</code></td>
<td>Begins an asynchronous operation to populate the blob's properties and metadata.</td>
</tr>
<tr>
<td><code>BeginFetchAttributes(AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to populate the blob's properties and metadata.</td>
</tr>
<tr>
<td><code>BeginFetchAttributes(AsyncCallback^, Object^)</code></td>
<td>Begins an asynchronous operation to populate the blob's properties and metadata.</td>
</tr>
</tbody>
</table>
See Also

CloudBlob Class

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CloudBlob...BeginOpenRead Method

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<tr>
<td><strong>BeginOpenRead(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong>&lt;br&gt;<strong>(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong>&lt;br&gt;<strong>(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong>&lt;br&gt;<strong>(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to open a stream for reading from the blob.</td>
</tr>
<tr>
<td><strong>BeginOpenRead(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong>&lt;br&gt;<strong>(AsyncCallback, Object)</strong>&lt;br&gt;<strong>(AsyncCallback, Object)</strong>&lt;br&gt;<strong>(AsyncCallback, Object)</strong>&lt;br&gt;<strong>(AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to open a stream for reading from the blob.</td>
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Begins an asynchronous operation to open a stream for reading from the blob.
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<td>Begins an asynchronous operation to release the lease on this blob.</td>
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<tr>
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<td><strong>BeginSetMetadata(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to update the blob's metadata.</td>
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<tr>
<td><strong>BeginSetMetadata(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to update the blob's metadata.</td>
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| **BeginSetProperties**<br>

`BeginSetProperties(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)`<br>
`BeginSetProperties(AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)`<br>
`BeginSetProperties(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)`<br>
`BeginSetProperties(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback^, Object^)`<br>
`BeginSetProperties(AccessCondition, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)`<br>

Begins an asynchronous operation to update the blob's properties. |
| **BeginSetProperties**<br>

`BeginSetProperties(AsyncCallback, Object)`<br>
`BeginSetProperties(AsyncCallback^, Object^)`<br>
`BeginSetProperties(AsyncCallback, Object)`<br>
`BeginSetProperties(AsyncCallback^, Object^)`<br>
`BeginSetProperties(AsyncCallback, Object)`<br>

Begins an asynchronous operation to update the blob's properties. |
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<tr>
<td>----------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
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<tr>
<td>**BeginStartCopy(Uri, AccessCondition, <strong>&lt;br&gt;AccessCondition, <strong>BlobRequestOptions,</strong>&lt;br&gt;OperationContext, AsyncCallback, Object)</strong>(Uri&lt;sup&gt;^&lt;/sup&gt;, **AccessCondition&lt;sup&gt;^&lt;/sup&gt;, **AccessCondition&lt;sup&gt;^&lt;/sup&gt;, **BlobRequestOptions&lt;sup&gt;^&lt;/sup&gt;, OperationContext^&lt;sup&gt;^&lt;/sup&gt;, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to start copying another blob's contents, properties, and metadata to this blob.</td>
<td></td>
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<tr>
<td><strong>AsyncCallback^, Object^)</strong>(Uri, **AccessCondition, <strong>AccessCondition, <strong>BlobRequestOptions,</strong>&lt;br&gt;OperationContext, AsyncCallback, Object)</strong>(Uri, **AccessCondition, **AccessCondition, **BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to start copying another blob's contents, properties, and metadata to this blob.</td>
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<tr>
<td><code>BreakLeaseAsync(Nullable&lt;TimeSpan&gt;, AccessCondition, BlobRequestOptions, OperationContext)(Nullable&lt;TimeSpan&gt;, AccessCondition^, BlobRequestOptions^, OperationContext^)</code></td>
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<tr>
<td><strong>ChangeLeaseAsync(String, AccessCondition, BlobRequestOptions, OperationContext)(String^, AccessCondition^, BlobRequestOptions^, OperationContext^)</strong></td>
<td>Initiates an asynchronous operation to change the lease on this blob.</td>
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<tr>
<td><strong>ChangeLeaseAsync(String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(String^, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken^)</strong></td>
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<tr>
<td><strong>ChangeLeaseAsync(String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(String^, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken^)</strong></td>
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<td><code>DeleteAsync(DeleteSnapshotsOption, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</code></td>
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<td><code>DeleteAsync(DeleteSnapshotsOption^, OperationContext^, CancellationToken)(DeleteSnapshotsOption^, OperationContext^, CancellationToken)(DeleteSnapshotsOption, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</code></td>
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<td>Initiates an asynchronous operation to download a range of bytes from a blob to byte array.</td>
</tr>
<tr>
<td>DownloadRangeToByteArrayAsync(Byte[], Int32, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext)(array&lt;Byte&gt;^, Int32, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AccessCondition^, BlobRequestOptions^, OperationContext^)(Byte[], Int32, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext)(Byte(), Int32, Nullable(Of Int64), Nullable(Of Int64), AccessCondition, BlobRequestOptions, OperationContext)</td>
<td>Initiates an asynchronous operation to download a range of bytes from a blob to byte array.</td>
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<tr>
<td>DownloadRangeToByteArrayAsync(Byte[], Int32, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(array&lt;Byte&gt;^, Int32, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AccessCondition^, BlobRequestOptions^, OperationContext, CancellationToken)</td>
<td>Initiates an asynchronous operation to download...</td>
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<td>Initiates an asynchronous operation to download a range of bytes from a blob to stream.</td>
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<td><code>DownloadRangeToStreamAsync(Stream, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext)(Stream^, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AccessCondition^, BlobRequestOptions^, OperationContext^)(Stream, Nullable(Of Int64), Nullable(Of Int64), AccessCondition, BlobRequestOptions, OperationContext)</code></td>
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<td>Initiates an asynchronous operation to download a range of bytes from a blob to stream.</td>
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<td>Initiates an asynchronous operation to download the contents of a blob to a byte array.</td>
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<tr>
<td><code>DownloadToByteArrayAsync(Byte[], Int32, AccessCondition, BlobRequestOptions, OperationContext)</code></td>
<td>Initiates an asynchronous operation to download the contents of a blob to a byte array.</td>
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<td><code>DownloadToByteArrayAsync(Byte[], Int32, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</code></td>
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<td>DownloadToFileAsync(String, FileMode, AccessCondition, BlobRequestOptions, OperationContext)(String, FileMode, AccessCondition, BlobRequestOptions, OperationContext)(String, FileMode, AccessCondition, BlobRequestOptions, OperationContext)</td>
<td>Initiates an asynchronous operation to download the contents of a blob to a file.</td>
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<td>DownloadToFileAsync(String, FileMode, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(String, FileMode, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</td>
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<tr>
<td>CloudBlob::SetPropertiesAsync Method</td>
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<tr>
<td>SetPropertiesAsync()()()</td>
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<td>SetPropertiesAsync(AccessCondition, BlobRequestOptions, OperationContext)</td>
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<tr>
<td>SetPropertiesAsync(AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</td>
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CloudBlob Class

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<th>CloudBlob::..SnapshotAsync Method</th>
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<td><strong>SnapshotAsync()</strong>()()()</td>
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<tr>
<td><strong>SnapshotAsync(CancellationToken)(CancellationToken)(CancellationToken)</strong></td>
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<tr>
<td><strong>SnapshotAsync(IDictionary&lt;String, String&gt;, AccessCondition, BlobRequestOptions, OperationContext)</strong></td>
</tr>
<tr>
<td><strong>SnapshotAsync(IDictionary&lt;String^, String^&gt;^, AccessCondition^, BlobRequestOptions^, OperationContext^)</strong></td>
</tr>
<tr>
<td><strong>SnapshotAsync(IDictionary&lt;String, String&gt;, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</strong></td>
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<tbody>
<tr>
<td>StartCopyAsync(Uri)(Uri^)(Uri)(Uri)</td>
<td>Initiates an asynchronous operation to start copying another blob's contents, properties, and metadata to this blob.</td>
</tr>
<tr>
<td>StartCopyAsync(Uri, AccessCondition, AccessCondition, BlobRequestOptions, OperationContext)(Uri^, AccessCondition^, AccessCondition^, BlobRequestOptions^, OperationContext^)</td>
<td>Initiates an asynchronous operation to start copying another blob's contents, properties, and metadata to this blob.</td>
</tr>
<tr>
<td>StartCopyAsync(Uri, AccessCondition, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(Uri^, AccessCondition^, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken^)</td>
<td>Initiates an asynchronous operation to start copying another blob's contents, properties, and metadata to this blob.</td>
</tr>
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</table>
See Also

CloudBlob Class

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See Also
Gets the location that the token applies to.


**Syntax**

C#  
```csharp
Nullable<StorageLocation> TargetLocation { get; set; }
```

C++  
```cpp
property Nullable<StorageLocation> TargetLocation
    Nullable<StorageLocation> get();
    void set(Nullable<StorageLocation> value);
}
```

F#  
```fsharp
abstract TargetLocation : Nullable<StorageLocation>
```

VB  
```vbnet
Property TargetLocation As Nullable(Of StorageLocation)
```

**Property Value**

Type:

*System.Nullable<StorageLocation>*

A *StorageLocation* enumeration value.
See Also

IContinuationToken Interface
Microsoft.WindowsAzure.Storage Namespace

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<tr>
<td>BlobProperties()()()</td>
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</table>
See Also

BlobProperties Class

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LocationMode Enumeration

See Also
Specifies the location mode to indicate which location should receive the request.

Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
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<tbody>
<tr>
<td>C#</td>
<td>public enum LocationMode</td>
</tr>
<tr>
<td>C++</td>
<td>public enum class LocationMode</td>
</tr>
<tr>
<td>F#</td>
<td>type LocationMode</td>
</tr>
<tr>
<td>VB</td>
<td>Public Enumeration LocationMode</td>
</tr>
<tr>
<td>Member name</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>PrimaryOnly</td>
<td>Requests are always sent to the primary location.</td>
</tr>
<tr>
<td>PrimaryThenSecondary</td>
<td>Requests are always sent to the primary location first. If a request fails,</td>
</tr>
<tr>
<td></td>
<td>it is sent to the secondary location.</td>
</tr>
<tr>
<td>SecondaryOnly</td>
<td>Requests are always sent to the secondary location.</td>
</tr>
<tr>
<td>SecondaryThenPrimary</td>
<td>Requests are always sent to the secondary location first. If a request fails,</td>
</tr>
<tr>
<td></td>
<td>it is sent to the primary location.</td>
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See Also


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<tr>
<th>IRequestOptions.LocationMode Property</th>
<th>C#</th>
<th>C++</th>
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</tr>
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</table>

See Also
Gets or sets the location mode of the request.

**Namespace:**  [Microsoft.WindowsAzure.Storage](http://www.microsoft.com)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
Nullable<LocationMode> LocationMode { get; set; }
```

C++  
```cpp
property Nullable<LocationMode> LocationMode {
    Nullable<LocationMode> get();
    void set(Nullable<LocationMode> value);
}
```

F#  
```fsharp
abstract LocationMode : Nullable<LocationMode>
```

VB  
```vbnet
Property LocationMode As Nullable(Of LocationMode)
```

Property Value

Type:  
```csharp
System.Nullable<LocationMode> System::Nullable<LocationMode>
```
A `LocationMode` enumeration value.
See Also

IRequestOptions Interface
Microsoft.WindowsAzure.Storage Namespace

Return to top
IRequestOptions.MaximumExecutionTime

See Also
Gets or sets the maximum execution time across all potential retries.

Namespace: Microsoft.WindowsAzure.Storage
## Syntax

### C#  
```csharp
Nullable<TimeSpan> MaximumExecutionTime { get; set; }
```

### C++  
```cpp
property Nullable<TimeSpan> MaximumExecutionTime {
    Nullable<TimeSpan> get();
    void set(Nullable<TimeSpan> value);
}
```

### F#  
```fsharp
abstract MaximumExecutionTime : Nullable<TimeSpan>
```

### VB  
```vb
Property MaximumExecutionTime As Nullable(Of TimeSpan)
```

## Property Value

Type:  
```csharp
System.Nullable<TimeSpan>
```

A `TimeSpan` containing the maximum execution time across all potential retries.
See Also

IRequestOptions Interface
Microsoft.WindowsAzure.Storage Namespace

Return to top
IRequestOptions.RequireEncryption Property

See Also
Gets or sets a value to indicate whether data written and read by the client library should be encrypted.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Nullable<bool> RequireEncryption { get; set; }

C++  
property Nullable<bool> RequireEncryption { 
    Nullable<bool> get();
    void set(Nullable<bool> value);
}

F#  
abstract RequireEncryption : Nullable<bool> with

VB  
Property RequireEncryption As Nullable(Of Boolean)

Property Value

Type:  
System.Nullable<System::Nullable<bool>System::Nullable<bool>System::Nullable<bool>
Use true to specify that data should be encrypted/decrypted for all transactions; otherwise, false.
See Also

IRequestOptions Interface
Microsoft.WindowsAzure.Storage Namespace

Return to top
IRetryPolicy Interface

See Also
Represents a retry policy.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public interface IRetryPolicy
```

C++

```cpp
public interface class IRetryPolicy
```

F#

```fsharp
type IRetryPolicy = interface end
```

VB

```vbnet
Public Interface IRetryPolicy
```
## Methods

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<td><strong>CreateInstance</strong></td>
<td>Generates a new retry policy for the current request attempt.</td>
</tr>
<tr>
<td><strong>ShouldRetry</strong></td>
<td>Determines whether the operation should be retried and the interval until the next retry.</td>
</tr>
<tr>
<td>(Int32, Int32, Exception, TimeSpan, OperationContext)</td>
<td></td>
</tr>
<tr>
<td>(Int32, Int32, Exception^, TimeSpan^, OperationContext^)</td>
<td></td>
</tr>
<tr>
<td>(Int32, Int32, Exception, TimeSpan, OperationContext)</td>
<td></td>
</tr>
<tr>
<td>(Int32, Int32, Exception, TimeSpan, OperationContext)</td>
<td></td>
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See Also


Return to top
IRequestOptions.RetryPolicy

See Also
Gets or sets the retry policy for the request.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://msdn.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
IRetryPolicy RetryPolicy { get; set; }

C++  
property IRetryPolicy^ RetryPolicy { 
    IRetryPolicy^ get();
    void set(IRetryPolicy^ value);
}

F#  
abstract RetryPolicy : IRetryPolicy with get, set

VB  
Property RetryPolicy As IRetryPolicy

Property Value

Type:  
An object of type IRetryPolicy.
See Also

IRequestOptions Interface
Microsoft.WindowsAzure.Storage Namespace

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<tr>
<th>IRequestOptions.ServerTimeout Property</th>
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<tbody>
<tr>
<td>IRequestOptions::ServerTimeout Property</td>
<td>C#</td>
<td>C++</td>
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</tr>
<tr>
<td>See Also</td>
<td>C#</td>
<td>C++</td>
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<td>VB</td>
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</tbody>
</table>
Gets or sets the default server timeout for the request.

**Namespace:**  [Microsoft.WindowsAzure.Storage](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
Nullable<TimeSpan> ServerTimeout { get; set; }

C++

property Nullable<TimeSpan> ServerTimeout {
    Nullable<TimeSpan> get();
    void set(Nullable<TimeSpan> value);
}

F#

abstract ServerTimeout : Nullable<TimeSpan> with

VB

Property ServerTimeout As Nullable(Of TimeSpan)

Property Value

Type:
System.Nullable<
A TimeSpan containing the server timeout interval.
See Also

IRequestOptions Interface
Microsoft.WindowsAzure.Storage Namespace

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<tr>
<th>CloudAppendBlob Constructor</th>
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### Overload List

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<tr>
<th>Name</th>
<th>Description</th>
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<tbody>
<tr>
<td>CloudAppendBlob(StorageUri, Nullable&lt;DateTimeOffset&gt;, StorageCredentials)(StorageUri^, Nullable&lt;DateTimeOffset&gt;, StorageCredentials^)(StorageUri, Nullable(Of DateTimeOffset), StorageCredentials)</td>
<td>Initializes a new instance of the CloudAppendBlob class using an absolute URI to the blob.</td>
</tr>
<tr>
<td>CloudAppendBlob(Uri)(Uri^)(Uri)(Uri)</td>
<td></td>
</tr>
<tr>
<td>CloudAppendBlob(Uri, Nullable&lt;DateTimeOffset&gt;, StorageCredentials)(Uri^, Nullable&lt;DateTimeOffset&gt;, StorageCredentials^)(Uri, Nullable&lt;DateTimeOffset&gt;, StorageCredentials)(Uri, Nullable(Of DateTimeOffset), StorageCredentials)</td>
<td>Initializes a new instance of the CloudAppendBlob class using an absolute URI to the blob.</td>
</tr>
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</table>
See Also

CloudAppendBlob Class

Return to top
CloudAppendBlob::AppendBlockAsync Method

See Also
## Overload List

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<th>Description</th>
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<tbody>
<tr>
<td><code>AppendBlockAsync(Stream, String)(Stream^, String^)</code></td>
<td>Initiates an asynchronous operation to commit a new block of data to the end of the blob.</td>
</tr>
<tr>
<td><code>AppendBlockAsync(Stream, String, AccessCondition, BlobRequestOptions, OperationContext)</code></td>
<td>Initiates an asynchronous operation to commit a new block of data to the end of the blob.</td>
</tr>
<tr>
<td><code>AppendBlockAsync(Stream, String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</code></td>
<td>Initiates an asynchronous operation to commit a new block of data to the end of the blob.</td>
</tr>
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</table>
**See Also**

- [CloudAppendBlob Class](#)

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CloudAppendBlob::...AppendFromByteArrayAsync

Method

See Also
**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
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<tr>
<td><strong>AppendFromByteArrayAsync(Byte[], Int32, Int32)</strong> (array&lt;Byte&gt;^, Int32, Int32) (Byte[], Int32, Int32)(Byte(), Int32, Int32)</td>
<td>Initiates an asynchronous operation to append the contents of a byte array to an append blob. Recommended only for single-writer scenarios.</td>
</tr>
<tr>
<td><strong>AppendFromByteArrayAsync(Byte[], Int32, Int32, AccessCondition, BlobRequestOptions, OperationContext)</strong> (array&lt;Byte&gt;^, Int32, Int32, AccessCondition^, BlobRequestOptions^, OperationContext)(Byte[], Int32, Int32, AccessCondition, BlobRequestOptions, OperationContext)(Byte(), Int32, Int32, AccessCondition, BlobRequestOptions, OperationContext)</td>
<td>Initiates an asynchronous operation to append the contents of a byte array to an append blob. This API should be used strictly in a single writer scenario because the API internally uses the append-offset conditional header to avoid duplicate blocks which does not work in multiple writer scenarios.</td>
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See Also

CloudAppendBlob Class

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CloudAppendBlob:::AppendFromFileSync Method

See Also
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<tr>
<th>Name</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>AppendFromFileAsync(String)</strong></td>
<td>Initiates an asynchronous operation to append a file to an append blob. Recommended only for single-writer scenarios.</td>
</tr>
<tr>
<td><strong>AppendFromFileAsync(String, AccessCondition, BlobRequestOptions, OperationContext)</strong></td>
<td>Initiates an asynchronous operation to append a file to an append blob. Recommended only for single-writer scenarios.</td>
</tr>
<tr>
<td><strong>AppendFromFileAsync(String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</strong></td>
<td>Initiates an asynchronous operation to append a file to an append blob. Recommended only for single-writer scenarios.</td>
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See Also

CloudAppendBlob Class

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CloudAppendBlob::AppendFromStreamAsync Method

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<tbody>
<tr>
<td><strong>AppendFromStreamAsync(Stream)</strong>(Stream^)(Stream)(Stream)</td>
<td>Initiates an asynchronous operation to append a stream to an append blob. Recommended only for single-writer scenarios.</td>
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</table>
See Also

CloudAppendBlob Class

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CloudAppendBlob:::AppendTextAsync Method

See Also
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<th>Name</th>
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<tbody>
<tr>
<td>AppendTextAsync(String)(String^)(String)(String)</td>
<td>Initiates an asynchronous operation to append a string of text to an append blob. This API should be used strictly in a single writer scenario because the API internally uses the append-offset conditional header to avoid duplicate blocks which does not work in a multiple writer scenario.</td>
</tr>
<tr>
<td>AppendTextAsync(String, CancellationToken)(String^, CancellationToken)(String, CancellationToken)</td>
<td>Initiates an asynchronous operation to append a string of text to an append blob. This API should be used strictly in a single writer scenario because the API internally uses the append-offset conditional header to avoid duplicate blocks which does not work in a multiple writer scenario.</td>
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CloudAppendBlob Class

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| CloudAppendBlob::<BeginAppendBlock Method |
| See Also | C# | C++ | F# | VB |
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<tbody>
<tr>
<td><strong>BeginAppendBlock(Stream, AsyncCallback, Object)</strong>(Stream^, AsyncCallback^, Object^) (Stream, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to commit a new block of data to the end of the blob.</td>
</tr>
<tr>
<td><strong>BeginAppendBlock(Stream, String, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong>(Stream^, String^, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^) (Stream, String, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to commit a new block of data to the end of the blob.</td>
</tr>
<tr>
<td><strong>BeginAppendBlock(Stream, String, AsyncCallback, Object)</strong>(Stream^, String^, AsyncCallback^, Object^) (Stream, String, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to commit a new block of data to the end of the blob.</td>
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See Also

CloudAppendBlob Class

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CloudAppendBlob::BeginAppendFromByteArray

C# C++ F# VB

Method

See Also
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<tbody>
<tr>
<td>BeginAppendFromByteArray(Byte[], Int32, Int32, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object) (array&lt;Byte&gt;^, Int32, Int32, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</td>
<td>Begins an asynchronous operation to append the contents of a byte array to an append blob. Recommended only for single-writer scenarios.</td>
</tr>
<tr>
<td>BeginAppendFromByteArray(Byte[], Int32, Int32, AsyncCallback, Object) (Byte[], Int32, Int32, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to append the contents of a byte array to an append blob. Recommended only for single-writer scenarios.</td>
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See Also

CloudAppendBlob Class

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CloudAppendBlob::BeginAppendFromFile Method

See Also
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<tbody>
<tr>
<td>BeginAppendFromFile(String, AccessCondition, BlobRequestOptions,.OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to append a file to an append blob. Recommended only for single-writer scenarios</td>
</tr>
<tr>
<td>BeginAppendFromFile(String, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to append a file to an append blob. Recommended only for single-writer scenarios</td>
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See Also

CloudAppendBlob Class

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CloudAppendBlob::BeginAppendFromStream

See Also
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<th>Description</th>
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<tbody>
<tr>
<td><strong>BeginAppendFromStream(Stream, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to append a stream to an append blob. Recommended only for single-writer scenarios.</td>
</tr>
<tr>
<td><strong>BeginAppendFromStream(Stream, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to append a stream to an append blob. Recommended only for single-writer scenarios.</td>
</tr>
<tr>
<td><strong>BeginAppendFromStream(Stream, Int64, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to...</td>
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See Also

CloudAppendBlob Class

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CloudAppendBlob:::BeginAppendText Method

See Also
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<th>Description</th>
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<tbody>
<tr>
<td>BeginAppendText(String, AsyncCallback, Object)(String^, AsyncCallback^, Object^)</td>
<td>Begins an asynchronous operation to append a string of text to an append blob. This API should be used strictly in a single writer scenario because the API internally uses the append-offset conditional header to avoid duplicate blocks which does not work in a multiple write scenario.</td>
</tr>
<tr>
<td>BeginAppendText(String, Encoding, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)(String^, Encoding^, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</td>
<td>Begins an asynchronous operation to append a string of text to an append blob. This API should be used strictly in a single writer scenario because the API internally uses the append-offset conditional header to avoid duplicate blocks which does not work in a multiple write scenario.</td>
</tr>
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See Also

CloudAppendBlob Class

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<th>CloudAppendBlob::BeginCreateOrReplace Method</th>
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</table>
| `BeginCreateOrReplace(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)`  
`BeginCreateOrReplace(AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)`  
`BeginCreateOrReplace(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)`  
`BeginCreateOrReplace(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)` | Begins an asynchronous operation to create an empty append blob. If the blob already exists, this operation will overwrite it. To throw an exception if the blob exists instead of overwriting, pass an `AccessCondition` object generated using `GenerateIfNotExistsCondition`. |
| `BeginCreateOrReplace(AsyncCallback, Object)`  
`BeginCreateOrReplace(AsyncCallback^, Object^)` | Begins an asynchronous operation to create an empty append blob. If the blob already exists, this operation will overwrite it. To throw an exception if the blob exists instead of overwriting, use `BeginCreateOrReplace`. |
See Also

CloudAppendBlob Class

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<tr>
<td>()</td>
<td></td>
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</table>

See Also
Namespace:  Microsoft.WindowsAzure.Storage
## Syntax

<table>
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<tr>
<th>Language</th>
<th>Code</th>
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<tbody>
<tr>
<td>C#</td>
<td><code>public AccessCondition()</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: AccessCondition()</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>new : unit -&gt; AccessCondition</code></td>
</tr>
<tr>
<td>VB</td>
<td><code>Public Sub New</code></td>
</tr>
</tbody>
</table>
See Also

AccessCondition Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
AccessCondition::IfAppendPositionEqual Property

See Also
Gets or sets a value for a condition specifying the byte offset to check for when committing a block to an append blob. The append will succeed only if the end position is equal to this number.

Syntax

C#
```csharp
public Nullable<long> IfAppendPositionEqual { get; set; }
```

C++
```cpp
public:
property Nullable<long long> IfAppendPositionEqual
    Nullable<long long> get();
    void set(Nullable<long long> value);
```

F#
```fsharp
member IfAppendPositionEqual : Nullable<int64>
```

VB
```vbnet
Public Property IfAppendPositionEqual As Nullable(Of Long)
```

Property Value

Type:

- `System.Nullable<Int64>`

An append position number, or `null` if no value is set.
Remarks

This condition only applies to append blobs.
See Also

AccessCondition Class
Microsoft.WindowsAzure.Storage Namespace

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See Also
Gets or sets an ETag value for a condition specifying that the given ETag must match the ETag of the specified resource.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public string IfMatchETag { get; set; }
```

C++  

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

F#  

```fsharp
member IfMatchETag : string with get, set
```

VB  

```vb
Public Property IfMatchETag As String
```

Property Value

Type: System.String System::String^ System.String System.String
A string containing an ETag value, or "*" to match any ETag. If null, no condition exists.
See Also

AccessCondition Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
AccessCondition::IfMaxSizeLessThanOrEqual Property
See Also
Gets or sets a value for a condition that specifies the maximum size allowed for an append blob when a new block is committed. The append will succeed only if the size of the blob after the append operation is less than or equal to the specified size.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
public Nullable<long> IfMaxSizeLessThanOrEqual{
    get;
    set;
}
```

**C++**

```c++
public:
property Nullable<long long> IfMaxSizeLessThanOrEqual{
    Nullable<long long> get();
    void set(Nullable<long long> value);
}
```

**F#**

```fsharp
member IfMaxSizeLessThanOrEqual : Nullable<int64>
```

**VB**

```vbnet
Public Property IfMaxSizeLessThanOrEqual As Nullable(Of Integer)
```

**Property Value**

Type:

`System.Nullable<Int64>`

The maximum size in bytes, or **null** if no value is set.
Remarks

This condition only applies to append blobs.
See Also

AccessCondition Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
AccessCondition.IfModifiedSinceTime

Property AccessCondition::IfModifiedSinceTime
Property AccessCondition.IfModifiedSinceTime
Property AccessCondition.IfModifiedSinceTime Property

See Also
Gets or sets a DateTimeOffset value for a condition specifying a time since which a resource has been modified.

**Namespace:**  Microsoft.WindowsAzure.Storage

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public Nullable<DateTimeOffset> IfModifiedSinceTime {
    get;
    set;
}
```

C++  
```cpp
public:
    Nullable<DateTimeOffset> IfModifiedSinceTime;

    Nullable<DateTimeOffset> get();

    void set(Nullable<DateTimeOffset> value);
}
```

F#  
```fsharp
member IfModifiedSinceTime : Nullable<DateTimeOffset>
```

VB  
```vbnet
Public Property IfModifiedSinceTime As Nullable
```

Property Value

Type:

System.Nullable<DateTimeOffset> System::Nullable<DateTimeOffset>

A DateTimeOffset value specified in UTC, or null if no condition exists.
See Also

AccessCondition Class
Microsoft.WindowsAzure.Storage Namespace
AccessCondition::IfNoneMatchETag Property
See Also
Gets or sets an ETag value for a condition specifying that the given ETag must not match the ETag of the specified resource.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://msdn.microsoft.com/library/azure/microsoft.windowsazure.storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public string IfNoneMatchETag { get; set; }
```

C++  

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

F#  

```fsharp
member IfNoneMatchETag : string with get, set
```

VB  

```vbnet
Public Property IfNoneMatchETag As String
```

Property Value

Type: `System.String`<br>`System::String`<br>`System.String`

A string containing an ETag value, or "*" to match any ETag. If `null`, no condition exists.
See Also

AccessCondition Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
AccessCondition::IfNotModifiedSinceTime Property

See Also
Gets or sets a DateTimeOffset value for a condition specifying a time since
which a resource has not been modified.

Namespace:  Microsoft.WindowsAzure.Storage
Assembly:  Microsoft.WindowsAzure.Storage (in
Microsoft.WindowsAzure.Storage.dll)
Syntax

C#
```csharp
public Nullable<DateTimeOffset> IfNotModifiedSinceTime {
    get;
    set;
}
```

C++
```cpp
public:

    property Nullable<DateTimeOffset> IfNotModifiedSinceTime {
        Nullable<DateTimeOffset> get();
        void set(Nullable<DateTimeOffset> value);
    }
```

F#
```fsharp
member IfNotModifiedSinceTime : Nullable<DateTimeOffset>
```

VB
```vbnet
Public Property IfNotModifiedSinceTime As Nullable<DateTimeOffset>
```

Property Value

Type:
```fsharp
System.Nullable<DateTimeOffset>
```
A DateTimeOffset value specified in UTC, or null if no condition exists.
See Also

AccessCondition Class
Microsoft.WindowsAzure.Storage Namespace

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</table>
Gets or sets a value for a condition specifying that the current sequence number must be equal to the specified value.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public Nullable<long> IfSequenceNumberEqual { get; set; }
```

C++  
```cpp
public:
    property Nullable<long> IfSequenceNumberEqual
    {
        Nullable<long> get();
        void set(Nullable<long> value);
    }
```

F#  
```fsharp
member IfSequenceNumberEqual : Nullable<int64>
```

VB  
```vb
Public Property IfSequenceNumberEqual As Nullable(Of Int64)
```

Property Value

Type:  
```csharp
System.Nullable<Int64>
```

A sequence number, or `null` if no condition exists.
Remarks

This condition only applies to page blobs.
See Also

AccessCondition Class
Microsoft.WindowsAzure.Storage Namespace

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**See Also**
Gets or sets a value for a condition specifying that the current sequence number must be less than the specified value.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public Nullable<long> IfSequenceNumberLessThan { 
    get; 
    set; 
}
```

C++  
```cpp
public: 

    Nullable<long long> IfSequenceNumberLessThan; 

    Nullable<long long> get(); 
    void set(Nullable<long long> value);
```  

F#  
```fsharp
member IfSequenceNumberLessThan : Nullable<int64> 
```  

VB  
```vb
Public Property IfSequenceNumberLessThan As Nullable<Int64>
```  

Property Value

Type:  

```csharp
System.Nullable<Int64>
```

A sequence number, or null if no condition exists.
Remarks

This condition only applies to page blobs.
See Also

AccessCondition Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
AccessCondition::IfSequenceNumberLessThanOrEqual

See Also
Gets or sets a value for a condition specifying that the current sequence number must be less than or equal to the specified value.

**Namespace:** Microsoft.WindowsAzure.Storage  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```
public Nullable<long> IfSequenceNumberLessThanOrEqual {
    get;
    set;
}
```

C++  
```
public:
property Nullable<long long> IfSequenceNumberLessThanOrEqual {
    Nullable<long long> get();
    void set(Nullable<long long> value);
}
```

F#  
```
member IfSequenceNumberLessThanOrEqual : Nullable<int64>
```

VB  
```
Public Property IfSequenceNumberLessThanOrEqual
```

Property Value

Type:  

System.Nullable<Int64> System::Nullable<Int64> System.Nullable<Int64> System.Nullable<Int64>System.Nullable<Int64>System.Nullable<Int64>  
A sequence number, or null if no condition exists.
Remarks

This condition only applies to page blobs.
See Also

AccessCondition Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
AccessCondition.LeaseId

See Also
Gets or sets a lease ID that must match the lease on a resource.

**Namespace**:  [Microsoft.WindowsAzure.Storage](#)

Syntax

C#  
```csharp
public string LeaseId { get; set; }
```

C++  
```cpp
public:
property String^ LeaseId { 
    String^ get();
    void set(String^ value);
}
```

F#  
```fsharp
member LeaseId : string with get, set
```

VB  
```vbnet
Public Property LeaseId As String
```

Property Value

Type: System.String
A string containing a lease ID, or null if no condition exists.
See Also

AccessCondition Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
AccessCondition.:::GenerateEmptyCondition Method ()()()

See Also
Constructs an empty access condition.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/Namespace)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public static AccessCondition GenerateEmptyCondition()
```

C++  

```cpp
public:
static AccessCondition^ GenerateEmptyCondition()
```

F#  

```fsharp
static member GenerateEmptyCondition : unit ->
```

VB  

```vbnet
Public Shared Function GenerateEmptyCondition
```

Return Value

Type:  


An empty `AccessCondition` object.
See Also

AccessCondition Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
AccessCondition::: GenerateIfAppendPositionEqualCondition Method (Int64)(Int64)(Int64)(Int64)  
See Also
Constructs an access condition such that an operation will be performed only if the end position of the append blob is equal to the specified value.

**Namespace:** Microsoft.WindowsAzure.Storage  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public static AccessCondition GenerateIfAppendPositionEqualCondition(long appendPosition)
```

C++  
```cpp
public:
static AccessCondition^ GenerateIfAppendPositionEqualCondition(long long appendPosition)
```

F#  
```fsharp
static member GenerateIfAppendPositionEqualCondition : appendPosition:int64 -> AccessCondition
```

VB  
```vbnet
Public Shared Function GenerateIfAppendPositionEqualCondition(appendPosition As Long)
) As AccessCondition
```

Parameters

`appendPosition`  
Type: System.Int64
An integer specifying the offset to compare to the current end position of the blob.
See Also

AccessCondition Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
AccessCondition.:::GenerateIfExistsCondition Method ()()()
Constructs an access condition such that an operation will be performed only if the resource exists.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#
```csharp
public static AccessCondition GenerateIfExistsCondition()
```

C++
```cpp
public:
static AccessCondition^ GenerateIfExistsCondition()
```

F#
```fsharp
static member GenerateIfExistsCondition : unit -> AccessCondition
```

VB
```vbnet
Public Shared Function GenerateIfExistsCondition
```

Return Value

Type:

```csharp
```

An `AccessCondition` object that represents a condition where a resource exists.
Remarks

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

AccessCondition Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
| AccessCondition.:::GenerateIfMatchCondition Method (String)(String^)(String)(String) |
| See Also |

C# C++ F# VB
Constructs an access condition such that an operation will be performed only if the resource's ETag value matches the specified ETag value.

**Namespace:**  Microsoft.WindowsAzure.Storage  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public static AccessCondition GenerateIfMatchCondition(
    string etag
)
```

C++  
```cpp
public:
static AccessCondition^ GenerateIfMatchCondition(
    String^ etag
)
```

F#  
```fsharp
static member GenerateIfMatchCondition :
    etag:string -> AccessCondition
```

VB  
```vbnet
Public Shared Function GenerateIfMatchCondition(
    etag As String
) As AccessCondition
```

Parameters

`etag`


The ETag value to check against the resource's ETag.
See Also

AccessCondition Class  
Microsoft.WindowsAzure.Storage Namespace

Return to top
AccessCondition.::.GenerateIfMaxSizeLessThanOrEqualCondition Method (Int64)(Int64)(Int64)(Int64)

See Also
Constructs an access condition such that an operation will be performed only if the size of the append blob after committing the block is less than or equal to the specified value.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
(Syntax)

C#  
```csharp
public static AccessCondition GenerateIfMaxSizeLessThanOrEqualCondition(
    long maxSize
)
```

C++  
```cpp
public:
static AccessCondition^ GenerateIfMaxSizeLessThanOrEqualCondition(
    long long maxSize
)
```

F#  
```fsharp
static member GenerateIfMaxSizeLessThanOrEqualCondition
    : maxSize:int64 -> AccessCondition
```

VB  
```vb
Public Shared Function GenerateIfMaxSizeLessThanOrEqualCondition(
    maxSize As Long
) As AccessCondition
```

(Parameters)

*maxSize*

Type: `System.Int64`  
An integer specifying the maximum allowed size of the blob, in bytes, when committing a new block.
See Also

AccessCondition Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
AccessCondition.{:.GenerateIfModifiedSinceCondition Method (DateTimeOffset)(DateTimeOffset)(DateTimeOffset)(DateTimeOffset)
See Also
Constructs an access condition such that an operation will be performed only if the resource has been modified since the specified time.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://github.com/Azure/azure-sdk-for-net/tree/master/sdk/storage/storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public static AccessCondition GenerateIfModifiedSinceCondition(
    DateTimeOffset modifiedTime
)
```

C++  

```cpp
public:
static AccessCondition^ GenerateIfModifiedSinceCondition(
    DateTimeOffset modifiedTime
)
```

F#  

```fsharp
static member GenerateIfModifiedSinceCondition
    modifiedTime:DateTimeOffset -> AccessCondition
```

VB  

```vb
Public Shared Function GenerateIfModifiedSinceCondition(
    modifiedTime As DateTimeOffset
) As AccessCondition
```

Parameters

modifiedTime  
Type:  
`System.DateTimeOffset`  
A DateTimeOffset value specifying the time since which the resource must have been modified.
See Also

AccessCondition Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
AccessCondition::..GenerateIfNoneMatchCondition

Method (String)(String^)(String)(String)

See Also
Constructs an access condition such that an operation will be performed only if the resource's ETag value does not match the specified ETag value.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public static AccessCondition GenerateIfNoneMatchCondition(string etag)
```

C++

```cpp
public:
static AccessCondition^ GenerateIfNoneMatchCondition(String^ etag)
```

F#

```fsharp
static member GenerateIfNoneMatchCondition : 
  etag:string -> AccessCondition
```

VB

```vbnet
Public Shared Function GenerateIfNoneMatchCondition(etag As String)
  As AccessCondition
```

Parameters

`etag`
Type: `System.String``

The ETag value to check against the resource's ETag, or "*" to require that the resource does not exist.
Remarks

If "*" is specified for the etag parameter, then this condition requires that the resource does not exist.
See Also

AccessCondition Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
AccessCondition.::.GenerateIfNotModifiedSinceCondition
Method (DateTimeOffset)(DateTimeOffset)(DateTimeOffset)
(DateTimeOffset)
See Also
Constructs 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.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
public static AccessCondition GenerateIfNotModifiedSinceCondition(
    DateTimeOffset modifiedTime
)
```

**C++**

```cpp
public:
    static AccessCondition^ GenerateIfNotModifiedSinceCondition(
        DateTimeOffset modifiedTime
    )
```

**F#**

```fsharp
static member GenerateIfNotModifiedSinceCondition : modifiedTime:DateTimeOffset -> AccessCondition
```

**VB**

```vbnet
Public Shared Function GenerateIfNotModifiedSinceCondition(
    modifiedTime As DateTimeOffset
) As AccessCondition
```

### Parameters

**modifiedTime**

Type: System.DateTimeOffset

A DateTimeOffset value specifying the time since which the resource must not have been modified.
See Also

AccessCondition Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
AccessCondition:::GenerateIfSequenceNumberEqualCondition Method (Int64)(Int64)(Int64)(Int64)

See Also
Constructs an access condition such that an operation will be performed only if resource's current sequence number is equal to the specified value.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public static AccessCondition GenerateIfSequenceNumberEqualCondition(
    long sequenceNumber
)
```

C++  
```cpp
public:
static AccessCondition^ GenerateIfSequenceNumberEqualCondition(
    long long sequenceNumber
)
```

F#  
```fsharp
static member GenerateIfSequenceNumberEqualCondition : sequenceNumber:int64 -> AccessCondition
```

VB  
```vbnet
Public Shared Function GenerateIfSequenceNumberEqualCondition(sequenceNumber As Long)
    As AccessCondition
```

Parameters

`sequenceNumber`  
Type: System.Int64

The value to compare to the current sequence number.
See Also

AccessCondition Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
AccessCondition:::.GenerateIfSequenceNumberLessThanCondition

See Also
Constructs an access condition such that an operation will be performed only if resource's current sequence number is less than the specified value.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**
```
public static AccessCondition GenerateIfSequenceNumberLessThanCondition(
    long sequenceNumber
)
```

**C++**
```
public:
static AccessCondition^ GenerateIfSequenceNumberLessThanCondition(
    long long sequenceNumber
)
```

**F#**
```
static member GenerateIfSequenceNumberLessThanCondition
    sequenceNumber:int64 -> AccessCondition
```

**VB**
```
Public Shared Function GenerateIfSequenceNumberLessThanCondition(
    sequenceNumber As Long
) As AccessCondition
```

### Parameters

`sequenceNumber`  
Type: `System.Int64`  
The value to compare to the current sequence number.
See Also

AccessCondition Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
See Also
Constructs an access condition such that an operation will be performed only if resource's current sequence number is less than or equal to the specified value.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public static AccessCondition GenerateIfSequenceNumberLessThanOrEqualCondition(
    long sequenceNumber
)
```

C++  
```cpp
public:
static AccessCondition^ GenerateIfSequenceNumberLessThanOrEqualCondition(
    long long sequenceNumber
)
```

F#  
```fsharp
static member GenerateIfSequenceNumberLessThanOrEqualCondition : sequenceNumber:int64 -> AccessCondition
```

VB  
```vbnet
Public Shared Function GenerateIfSequenceNumberLessThanOrEqualCondition(
    sequenceNumber As Long
) As AccessCondition
```

Parameters

`sequenceNumber`
Type: `System.Int64`  
The value to compare to the current sequence number.
See Also

AccessCondition Class
Microsoft.WindowsAzure.Storage Namespace

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**See Also**
Constructs an access condition such that an operation will be performed only if the lease ID on the resource matches the specified lease ID.

Namespace:  Microsoft.WindowsAzure.Storage
**Syntax**

**C#**

```csharp
public static AccessCondition GenerateLeaseCondition(
    string leaseId
)
```

**C++**

```cpp
public:
static AccessCondition^ GenerateLeaseCondition(
    String^ leaseId
)
```

**F#**

```fsharp
static member GenerateLeaseCondition :
    leaseId:string -> AccessCondition
```

**VB**

```vbnet
Public Shared Function GenerateLeaseCondition(
    leaseId As String
) As AccessCondition
```

**Parameters**

- `leaseId`
  - Type: `System.String`\^`System.String`\^`System.String`
  - The lease ID to compare to the lease ID of the resource.
See Also

AccessCondition Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
CloudAppendBlob::<..BeginCreateSnapshot Method

See Also
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<td><strong>BeginCreateSnapshot(AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to create a snapshot of the blob.</td>
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<td>(AsyncCallback^, Object^)(AsyncCallback, Object)</td>
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</tr>
<tr>
<td>(AsyncCallback, Object)</td>
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<tr>
<td>BeginCreateSnapshot(IDictionary&lt;String, String&gt;, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to create a snapshot of the blob.</td>
</tr>
<tr>
<td>(IDictionary&lt;String^, String^&gt;^, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</td>
<td></td>
</tr>
<tr>
<td>(IDictionary(Of String, String), AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
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CloudAppendBlob Class

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<tr>
<td>BeginDownloadText(AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to download the blob's contents as a string.</td>
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<tr>
<td>BeginDownloadText(Encoding, AccessCondition, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to download the blob's contents as a string.</td>
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See Also

CloudAppendBlob Class

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CloudAppendBlob.<...>.BeginOpenWrite Method

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<tr>
<td><strong>BeginOpenWrite(Boolean, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to open a stream for writing to the blob.</td>
</tr>
<tr>
<td><strong>BeginOpenWrite(Boolean, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to open a stream for writing to the blob.</td>
</tr>
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</table>
See Also

CloudAppendBlob Class

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CloudAppendBlob::BeginStartCopy Method

See Also
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<tr>
<td><code>BeginStartCopy(CloudAppendBlob, AccessCondition, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to start copying another append blob's contents, properties, and metadata to this append blob.</td>
</tr>
<tr>
<td><code>BeginStartCopy(CloudAppendBlob, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to start copying another append blob's contents, properties, and metadata to this append blob.</td>
</tr>
<tr>
<td><code>BeginStartCopy(Uri, AccessCondition, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to start copying another append blob's contents, properties, and metadata to this append blob.</td>
</tr>
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</table>
See Also

CloudAppendBlob Class

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CloudAppendBlob::BeginUploadFromByteArray Method
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<tr>
<td><strong>BeginUploadFromByteArray(Byte[], Int32, Int32, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to upload the contents of a byte array to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.</td>
</tr>
<tr>
<td><strong>AsyncCallback^, Object^</strong>(Byte[], Int32, Int32, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td></td>
</tr>
<tr>
<td><strong>BeginUploadFromByteArray(Byte[], Int32, Int32, AsyncCallback, Object)</strong>(array&lt;Byte&gt;^, Int32, Int32, AsyncCallback^, BlobRequestOptions^, OperationContext^)</td>
<td></td>
</tr>
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</table>
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CloudAppendBlob Class

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CloudAppendBlob::BeginUploadFromFile Method

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<tbody>
<tr>
<td><strong>BeginUploadFromFile</strong> (String, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to upload a file to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.</td>
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<tr>
<td><strong>BeginUploadFromFile</strong> (String, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to upload a file to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.</td>
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CloudAppendBlob Class

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CloudAppendBlob::BeginUploadFromStream Method

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<tbody>
<tr>
<td><strong>BeginUploadFromStream(Stream, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong> (Stream^, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</td>
<td>Begins an asynchronous operation to upload a stream an append blob. the blob already exists, it will be overwritten. Recommended only for single-writer scenarios</td>
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<tr>
<td><strong>BeginUploadFromStream(Stream, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong> (Stream, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to upload a stream an append blob. the blob already exists, it will be overwritten. Recommended only for single-writer scenarios</td>
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<tr>
<td><strong>BeginUploadFromStream(Stream, AsyncCallback, Object)</strong> (Stream^, AsyncCallback^, Object^)</td>
<td>Begins an asynchronous operation to upload a stream an append blob. the blob already exists, it will be overwritten. Recommended only for single-writer scenarios</td>
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CloudAppendBlob Class

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<tbody>
<tr>
<td>CloudAppendBlob::BeginUploadText Method</td>
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<tbody>
<tr>
<td><strong>BeginUploadText(String, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to upload a string of text to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.</td>
</tr>
<tr>
<td><strong>BeginUploadText(String, Encoding, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to upload a string of text to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.</td>
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<th>CloudAppendBlob::CreateOrReplaceAsync Method</th>
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<tr>
<td>CreateOrReplaceAsync()()()</td>
</tr>
<tr>
<td>CreateOrReplaceAsync(AccessCondition, BlobRequestOptions, OperationContext)</td>
</tr>
<tr>
<td>CreateOrReplaceAsync(AccessCondition^, BlobRequestOptions^, OperationContext^)(AccessCondition, BlobRequestOptions, OperationContext)(AccessCondition, BlobRequestOptions, OperationContext)</td>
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CloudAppendBlob.::.CreateSnapshotAsync Method C# C++ F# VB
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<tbody>
<tr>
<td>CreateSnapshotAsync()()()</td>
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<tr>
<td>CreateSnapshotAsync(CancellationToken)(CancellationToken)(CancellationToken)</td>
<td></td>
</tr>
<tr>
<td>CreateSnapshotAsync(IDictionary&lt;String, String&gt;, AccessCondition, BlobRequestOptions, OperationContext)</td>
<td></td>
</tr>
<tr>
<td>CreateSnapshotAsync(IDictionary&lt;String^, String^&gt;,^, AccessCondition^,^, OperationContext^)</td>
<td></td>
</tr>
<tr>
<td>CreateSnapshotAsync(IDictionary&lt;String, String&gt;, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</td>
<td></td>
</tr>
<tr>
<td>CreateSnapshotAsync(IDictionary(Of String, String), AccessCondition, OperationContext)</td>
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See Also

CloudAppendBlob Class

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<td>DownloadTextAsync()</td>
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<tr>
<td>DownloadTextAsync(CancellationToken)</td>
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<tr>
<td>DownloadTextAsync(Encoding, AccessCondition, BlobRequestOptions, OperationContext)</td>
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CloudAppendBlob::OpenWriteAsync Method

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<tbody>
<tr>
<td>OpenWriteAsync(Boolean)(Boolean)(Boolean)(Boolean)</td>
<td>Initiates an asynchronous operation to open a stream for writing to the blob.</td>
</tr>
<tr>
<td>OpenWriteAsync(Boolean, AccessCondition, BlobRequestOptions, OperationContext)(Boolean, AccessCondition^, BlobRequestOptions^, OperationContext^)</td>
<td>Initiates an asynchronous operation to open a stream for writing to the blob.</td>
</tr>
<tr>
<td>OpenWriteAsync(Boolean, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(Boolean, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken^)</td>
<td>Initiates an asynchronous operation to open a stream for writing to the blob.</td>
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</table>
See Also

CloudAppendBlob Class

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**CloudAppendBlob::StartCopyAsync Method**

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<tr>
<td>StartCopyAsync(CloudAppendBlob)(CloudAppendBlob^)(CloudAppendBlob)</td>
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</table>
See Also

CloudAppendBlob Class

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CloudAppendBlob::UploadFromByteArrayAsync

See Also
### Overload List

<table>
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</table>
| **UploadFromArrayAsync(Byte[], Int32, Int32)**<br>
(array<Byte>^, Int32, Int32)(Byte[], Int32, Int32)<br>
(Byte(), Int32, Int32) | Initiates an asynchronous operation to upload the contents of a byte array to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios. |
| **UploadFromArrayAsync(Byte[], Int32, Int32, AccessCondition, BlobRequestOptions, OperationContext)**<br>
(array<Byte>^, Int32, Int32, AccessCondition^, BlobRequestOptions^, OperationContext^)(Byte[], Int32, Int32, AccessCondition, BlobRequestOptions, OperationContext)(Byte(), Int32, Int32, AccessCondition, BlobRequestOptions, OperationContext) | Initiates an asynchronous operation to upload the contents of a byte array to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios. |
See Also

CloudAppendBlob Class

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<tr>
<td>CloudAppendBlob::UploadFromAsync</td>
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<th>Description</th>
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<tbody>
<tr>
<td>UploadFromFileAsync(String)</td>
<td>Initiates an asynchronous operation to upload a file to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.</td>
</tr>
<tr>
<td>UploadFromFileAsync(String, AccessCondition, BlobRequestOptions, OperationContext)</td>
<td>Initiates an asynchronous operation to upload a file to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.</td>
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See Also

CloudAppendBlob Class

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<tr>
<td>CloudAppendBlob:::UploadFromStreamAsync</td>
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<tbody>
<tr>
<td>UploadFromStreamAsync(Stream, AccessCondition, BlobRequestOptions, OperationContext)</td>
<td>Initiates an asynchronous operation to upload a stream to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.</td>
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</table>
See Also

CloudAppendBlob Class

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CloudAppendBlob:::UploadTextAsync Method
See Also
## Overload List

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<tr>
<td>UploadTextAsync(String)(String^)(String)(String)</td>
<td>Initiates an asynchronous operation to upload a string of text to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.</td>
</tr>
<tr>
<td>UploadTextAsync(String, CancellationToken)(String^, CancellationToken)(String, CancellationToken)</td>
<td>Initiates an asynchronous operation to upload a string of text to an append blob. If the blob already exists, it will be overwritten. Recommended only for single-writer scenarios.</td>
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See Also

CloudAppendBlob Class

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## Overload List

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<tbody>
<tr>
<td>CloudBlobClient(StorageUri, StorageCredentials)(StorageUri, StorageCredentials)(StorageUri, StorageCredentials)(StorageUri, StorageCredentials)</td>
<td>Initializes a new instance of the CloudBlobClient class using the specified Blob service endpoint and account credentials.</td>
</tr>
<tr>
<td>CloudBlobClient(Uri)(Uri)(Uri)(Uri)</td>
<td>Initializes a new instance of the CloudBlobClient class using the specified Blob service endpoint and anonymous credentials.</td>
</tr>
<tr>
<td>CloudBlobClient(Uri, StorageCredentials)(Uri, StorageCredentials)(Uri, StorageCredentials)(Uri, StorageCredentials)</td>
<td>Initializes a new instance of the CloudBlobClient class using the specified Blob service endpoint and account credentials.</td>
</tr>
</tbody>
</table>
See Also

CloudBlobClient Class

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See Also

IBufferManager.GetDefaultBufferSize Method ()  C# C++ F# VB
Gets the size, in bytes, of the buffers managed by the given pool. Note that the buffer manager must return buffers of the exact size requested by the client.

**Namespace:**  [Microsoft.WindowsAzure.Storage]

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
int GetDefaultBufferSize()
```

C++  
```cpp
int GetDefaultBufferSize()
```

F#  
```fsharp
abstract GetDefaultBufferSize : unit -> int
```

VB  
```vbnet
Function GetDefaultBufferSize As Integer
```

Return Value

Type: System.Int32
The size, in bytes, of the buffers managed by the given pool.
See Also

IBufferManager Interface
Microsoft.WindowsAzure.Storage Namespace

Return to top
### IBufferManager::ReturnBuffer Method (Byte[]) (array<Byte>^)(Byte[])(Byte())

### See Also
Returns a buffer to the pool.

**Namespace:**  [Microsoft.WindowsAzure.Storage](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
void ReturnBuffer(
    byte[] buffer
)
```

C++

```cpp
void ReturnBuffer(
    array<unsigned char>^ buffer
)
```

F#

```fsharp
abstract ReturnBuffer :
    buffer:byte[] -> unit
```

VB

```vb
Sub ReturnBuffer (
    buffer As Byte()
)
```

Parameters

`buffer`
Type: System.Byte[]array<System::Byte>^System.Byte[]System.Byte
A byte array specifying the buffer to return to the pool.
## Exceptions

<table>
<thead>
<tr>
<th>Exception</th>
<th>Condition</th>
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</thead>
<tbody>
<tr>
<td>ArgumentNullException</td>
<td>Buffer reference cannot be null.</td>
</tr>
<tr>
<td>ArgumentException</td>
<td>Length of buffer does not match the pool's buffer length property.</td>
</tr>
</tbody>
</table>
See Also

IBufferManager Interface
Microsoft.WindowsAzure.Storage Namespace

Return to top
IBufferManager.:..TakeBuffer Method (Int32)
(Int32)(Int32)(Int32)

See Also
Gets a buffer of the specified size or larger from the pool.

Namespace:  Microsoft.WindowsAzure.Storage
Syntax

C#

byte[] TakeBuffer(
    int bufferSize
)

C++

array<unsigned char>^ TakeBuffer(
    int bufferSize
)

F#

abstract TakeBuffer :
    bufferSize:int -> byte[]

VB

Function TakeBuffer (  
    bufferSize As Integer
) As Byte()

Parameters

bufferSize
Type: System.Int32
The size, in bytes, of the requested buffer.
### Exceptions

<table>
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<tr>
<th>Exception</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>ArgumentOutOfRangeException</td>
<td>The value specified for bufferSize cannot be less than zero.</td>
</tr>
</tbody>
</table>
See Also

IBufferManager Interface
Microsoft.WindowsAzure.Storage Namespace

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CloudBlobClient.::.BeginGetBlobReferenceFromServer Method

See Also
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<tr>
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</thead>
<tbody>
<tr>
<td><strong>BeginGetBlobReferenceFromServer(StorageUri, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong> (StorageUri^, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</td>
<td>Begins an asynchronous operation to get a reference to a blob.</td>
</tr>
<tr>
<td><strong>BeginGetBlobReferenceFromServer(Uri, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong>(Uri^, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</td>
<td>Begins an asynchronous operation to get a reference to a blob.</td>
</tr>
<tr>
<td><strong>BeginGetBlobReferenceFromServer(Uri, AsyncCallback, Object)</strong>(Uri^, AsyncCallback^, Object^)</td>
<td>Begins an asynchronous operation to get a reference to a blob.</td>
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<tbody>
<tr>
<td>CloudBlobClient::BeginGetServiceProperties</td>
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</thead>
<tbody>
<tr>
<td><strong>BeginGetServiceProperties</strong>&lt;br&gt; (AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to get service properties for the Blob service.</td>
</tr>
<tr>
<td><strong>BeginGetServiceProperties</strong>&lt;br&gt; (BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to get service properties for the Blob service.</td>
</tr>
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</table>
See Also

CloudBlobClient Class  

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CloudBlobClient..::.BeginGetServiceStats Method  
See Also

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
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</table>
| **BeginGetServiceStats(AsyncCallback, Object)**  
(AsyncCallback^, Object^)(AsyncCallback, Object)  
(AsyncCallback, Object) | Begins an asynchronous operation to get service stats for the secondary Blob service endpoint. |
| **BeginGetServiceStats(BlobRequestOptions, OperationContext, AsyncCallback, Object)**  
(BlobRequestOptions^, OperationContext^,  
AsyncCallback^, Object^)(BlobRequestOptions,  
OperationContext, AsyncCallback, Object)  
(BlobRequestOptions, OperationContext,  
AsyncCallback, Object) | Begins an asynchronous operation to get service stats for the secondary Blob service endpoint. |
See Also

CloudBlobClient Class

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CloudBlobClient..::.BeginListBlobsSegmented Method

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<tr>
<td><code>BeginListBlobsSegmented(String, BlobContinuationToken, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to return a result segment containing a collection of blob items in the container.</td>
</tr>
<tr>
<td><code>BeginListBlobsSegmented(String, Boolean, BlobListingDetails, Nullable&lt;Int32&gt;, BlobContinuationToken, BlobRequestOptions, OperationContext, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to return a result segment containing a collection of blob items in the container.</td>
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See Also

CloudBlobClient Class

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CloudBlobClient.::.BeginListContainersSegmented  C#C++F#VB
Method
See Also
**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
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<tbody>
<tr>
<td><strong>BeginListContainersSegmented</strong> <em>(BlobContinuationToken, AsyncCallback, Object)</em>(BlobContinuationToken^, AsyncCallback^, Object^)</td>
<td>Begins an asynchronous request to return a result segment containing a collection of containers.</td>
</tr>
<tr>
<td><strong>BeginListContainersSegmented</strong> <em>(String, BlobContinuationToken, AsyncCallback, Object)</em> *(String^, BlobContinuationToken^, AsyncCallback^, Object^)</td>
<td>Begins an asynchronous request to return a result segment containing a collection of containers.</td>
</tr>
<tr>
<td><strong>BeginListContainersSegmented</strong> <em>(String, ContainerListingDetails, Nullable&lt;Int32&gt;, BlobContinuationToken, BlobRequestOptions, OperationContext, AsyncCallback, Object)</em>(String^, ContainerListingDetails, Nullable(Of Int32), BlobContinuationToken^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</td>
<td>Begins an asynchronous request to return a result segment containing a collection of containers.</td>
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CloudBlobClient Class

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<th>ServiceProperties Class</th>
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</table>
Class representing a set of properties pertaining to a cloud storage service.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System...Object

## Syntax

**C#**
```
public sealed class ServiceProperties
```

**C++**
```
public ref class ServiceProperties sealed
```

**F#**
```
[<Sealed>]
type ServiceProperties = class end
```

**VB**
```
Public NotInheritable Class ServiceProperties
```
## Constructors

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<tr>
<td>ServiceProperties()()()()</td>
<td>Initializes a new instance of the ServiceProperties class.</td>
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</table>
## Properties

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<td>Equals(Object)(Object^)(Object)(Object)</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetHashCode()()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetType()()()()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>ToString()()0000</td>
<td>(Inherited from Object.)</td>
</tr>
</tbody>
</table>
Thread Safety

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


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<table>
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<th>CloudBlobClient:::BeginSetServiceProperties Method</th>
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<td>Begins an asynchronous operation to set service properties for the Blob service.</td>
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<td>(ServiceProperties, AsyncCallback, Object)</td>
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</table>
See Also

CloudBlobClient Class

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ServiceStats Class

See Also
Class representing a set of stats pertaining to a cloud storage service.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System:::Object

## Syntax

**C#**

```
public sealed class ServiceStats
```

**C++**

```
public ref class ServiceStats sealed
```

**F#**

```
[<Sealed>]
type ServiceStats = class end
```

**VB**

```
Public NotInheritable Class ServiceStats
```
## Properties

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<tr>
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<th>Description</th>
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<tbody>
<tr>
<td>GeoReplication</td>
<td>Gets or the geo replication stats.</td>
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### Methods

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<tr>
<td>Equals(Object)(Object^)(Object)(Object)</td>
<td>(Inherited from Object.)</td>
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<tr>
<td>GetHashCode()()()()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetType()()()()()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>ToString()()()()()</td>
<td>(Inherited from Object.)</td>
</tr>
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</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.
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CloudBlobClient.:::GetBlobReferenceFromServerAsync Method

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<tbody>
<tr>
<td><code>GetBlobReferenceFromServerAsync(StorageUri, AccessCondition, BlobRequestOptions, OperationContext)</code></td>
<td>Initiates an asynchronous operation that gets a reference to a blob.</td>
</tr>
<tr>
<td><code>GetBlobReferenceFromServerAsync(StorageUri^, AccessCondition^, BlobRequestOptions^, OperationContext^)</code></td>
<td>Initiates an asynchronous operation that gets a reference to a blob.</td>
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<tr>
<td><code>GetBlobReferenceFromServerAsync(StorageUri, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</code></td>
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<tr>
<td><code>GetBlobReferenceFromServerAsync(Uri)(Uri)(Uri)</code></td>
<td>Initiates an asynchronous operation that gets a reference to a blob.</td>
</tr>
<tr>
<td><code>GetBlobReferenceFromServerAsync(Uri, AccessCondition, BlobRequestOptions, OperationContext)(Uri^, AccessCondition^, BlobRequestOptions^, OperationContext^)</code></td>
<td>Initiates an asynchronous operation that gets a reference to a blob.</td>
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CloudBlobClient Class

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CloudBlobClient..::.GetServicePropertiesAsync Method

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<td>- <code>GetServicePropertiesAsync()</code></td>
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<tr>
<td>- <code>GetServicePropertiesAsync(BlobRequestOptions, OperationContext)</code></td>
</tr>
<tr>
<td>- <code>GetServicePropertiesAsync(BlobRequestOptions, OperationContext, CancellationToken)</code></td>
</tr>
<tr>
<td>- <code>GetServicePropertiesAsync(BlobRequestOptions^, OperationContext^, CancellationToken^)</code></td>
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<tr>
<td><strong>Name</strong></td>
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<tr>
<td>GetServiceStatsAsync()()()()</td>
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<tr>
<td>GetServiceStatsAsync(BlobRequestOptions, OperationContext)(BlobRequestOptions^, OperationContext^)</td>
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<td>GetServiceStatsAsync(BlobRequestOptions, OperationContext, CancellationToken)</td>
</tr>
<tr>
<td>GetServiceStatsAsync(BlobRequestOptions^, OperationContext^, CancellationToken)(BlobRequestOptions, OperationContext, CancellationToken)</td>
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CloudBlobClient Class

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CloudBlobClient..::.ListBlobsSegmentedAsync Method

See Also
Assembly:  Microsoft.WindowsAzure.Storage (in
           Microsoft.WindowsAzure.Storage.dll)
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<tr>
<td><strong>ListBlobsSegmentedAsync(String, BlobContinuationToken)(String^, BlobContinuationToken^)</strong> (String, BlobContinuationToken)</td>
<td>Initiates an asynchronous operation to return a result segment containing a collection of blob items in the container.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ListBlobsSegmentedAsync(String, BlobContinuationToken, CancellationToken)</strong> (String^, BlobContinuationToken^, CancellationToken) (String, BlobContinuationToken, CancellationToken)</td>
<td>Initiates an asynchronous operation to return a result segment containing a collection of blob items in the container.</td>
</tr>
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<tr>
<td><strong>ListBlobsSegmentedAsync(String, Boolean, BlobListingDetails, Nullable&lt;Int32&gt;, BlobContinuationToken, BlobRequestOptions, OperationContext)</strong> (String^, Boolean)</td>
<td>Initiates an asynchronous operation to...</td>
</tr>
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Method

See Also
ListContainersSegmentedAsync(BlobContinuationToken)(BlobContinuationToken)

ListContainersSegmentedAsync(BlobContinuationToken, CancellationToken)(BlobContinuationToken)

ListContainersSegmentedAsync(String, BlobContinuationToken)(String)

ListContainersSegmentedAsync(String, BlobContinuationToken, CancellationToken)(String)
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<tr>
<td>SetServicePropertiesAsync(ServiceProperties)(ServiceProperties^)(Ser</td>
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<tr>
<td>SetServicePropertiesAsync(ServiceProperties, BlobRequestOptions, O</td>
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<tr>
<td>SetServicePropertiesAsync(ServiceProperties, BlobRequestOptions, O</td>
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<td>SetServicePropertiesAsync(ServiceProperties, BlobRequestOptions, O</td>
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<td><strong>CloudBlobContainer(StorageUri, StorageCredentials)</strong>&lt;br&gt;<strong>(StorageUri^, StorageCredentials^)</strong>&lt;br&gt;<strong>(StorageUri, StorageCredentials)</strong></td>
<td>Initializes a new instance of the <code>CloudBlobContainer</code> class.</td>
</tr>
<tr>
<td><strong>CloudBlobContainer(Uri)(Uri^)(Uri)(Uri)</strong></td>
<td>Initializes a new instance of the <code>CloudBlobContainer</code> class.</td>
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<tr>
<td><strong>CloudBlobContainer(Uri, StorageCredentials)&lt;br&gt;(Uri^, StorageCredentials^)(Uri, StorageCredentials)</strong></td>
<td>Initializes a new instance of the <code>CloudBlobContainer</code> class.</td>
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CloudBlobContainer.:::AcquireLeaseAsync Method

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<tr>
<td>AcquireLeaseAsync(Nullable&lt;TimeSpan&gt;, String)</td>
<td>Initiates an asynchronous operation that acquires a lease on this container.</td>
</tr>
<tr>
<td>(Nullable&lt;TimeSpan&gt;, String^)</td>
<td></td>
</tr>
<tr>
<td>(Nullable&lt;TimeSpan&gt;, String)(Nullable(Of TimeSpan), String)</td>
<td></td>
</tr>
<tr>
<td>AcquireLeaseAsync(Nullable&lt;TimeSpan&gt;, String, AccessCondition, BlobRequestOptions, OperationContext)(Nullable&lt;TimeSpan&gt;, String^, AccessCondition^, BlobRequestOptions^, OperationContext^)</td>
<td>Initiates an asynchronous operation that acquires a lease on this container.</td>
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<tr>
<td>(Nullable&lt;TimeSpan&gt;, String, AccessCondition, BlobRequestOptions, OperationContext)(Nullable(Of TimeSpan), String, AccessCondition, BlobRequestOptions, OperationContext)</td>
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<tr>
<td>AcquireLeaseAsync(Nullable&lt;TimeSpan&gt;, String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</td>
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<tr>
<td>(Nullable&lt;TimeSpan&gt;, String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(Nullable(Of TimeSpan), String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</td>
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<th>Description</th>
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</table>
| **BeginAcquireLease** *(Nullable<TimeSpan>, String, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)*  
*(Nullable<TimeSpan>, String^, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)*  
*(Nullable<TimeSpan>, String, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)*  
*(Nullable(Of TimeSpan), String, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)* | Begins an asynchronous operation to acquire a lease on this container. |

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</table>
| **BeginAcquireLease** *(Nullable<TimeSpan>, String, AsyncCallback, Object)*  
*(Nullable<TimeSpan>, String^, AsyncCallback^, Object^)*  
*(Nullable<TimeSpan>, String, AsyncCallback, Object)*  
*(Nullable(Of TimeSpan), String, AsyncCallback, Object)* | Begins an asynchronous operation to acquire a lease on this container. |
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<tr>
<td><strong>BeginBreakLease(Nullable&lt;TimeSpan&gt;, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to break the current lease on this container.</td>
</tr>
<tr>
<td><strong>BeginBreakLease(Nullable&lt;TimeSpan&gt;, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to break the current lease on this container.</td>
</tr>
<tr>
<td><strong>BeginBreakLease(Nullable&lt;TimeSpan&gt;, AsyncCallback^, Object^)</strong></td>
<td>Begins an asynchronous operation to break the current lease on this container.</td>
</tr>
<tr>
<td><strong>BeginBreakLease(Nullable(Of TimeSpan), AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to break the current lease on this container.</td>
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<td><strong>BeginBreakLease(Nullable(Of TimeSpan), AsyncCallback^, Object^)</strong></td>
<td>Begins an asynchronous operation to break the current lease on this container.</td>
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<td><strong>BeginBreakLease(Nullable&lt;TimeSpan&gt;, AsyncCallback, Object)(Nullable&lt;TimeSpan&gt;, AsyncCallback^, Object^)</strong></td>
<td>Begins an asynchronous operation to break the current lease on this container.</td>
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CloudBlobContainer.....BeginChangeLease Method

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<tbody>
<tr>
<td><strong>BeginChangeLease(String, AccessCondition, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to change the lease on this container.</td>
</tr>
<tr>
<td><strong>BeginChangeLease(String^, AccessCondition^, AsyncCallback^, Object^)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>BeginChangeLease(String, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to change the lease on this container.</td>
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<td><strong>BeginChangeLease(String^, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</strong></td>
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<tr>
<td>BeginCreate(AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to create a container.</td>
</tr>
<tr>
<td>BeginCreate(BlobContainerPublicAccessType, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to create a container and specify the level of access to the container's data.</td>
</tr>
<tr>
<td>BeginCreate(BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to create a container.</td>
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<tr>
<td><strong>BeginCreateIfNotExists(AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous request to create the container if it does not already exist.</td>
</tr>
<tr>
<td>(AsyncCallback^, Object^)(AsyncCallback, Object)</td>
<td></td>
</tr>
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<td>(AsyncCallback, Object)</td>
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<tr>
<td><strong>BeginCreateIfNotExists(BlobContainerPublicAccessType, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous request to create the container if it does not already exist.</td>
</tr>
<tr>
<td>(BlobContainerPublicAccessType, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
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</tr>
<tr>
<td>(BlobContainerPublicAccessType, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</td>
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<tr>
<td><strong>BeginCreateIfNotExists(BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous request to create the container if it does not already exist.</td>
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<tr>
<td>(BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
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<td>(BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</td>
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<td>(BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
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<td><strong>BeginDelete(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to delete a container.</td>
</tr>
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<td><strong>BeginDelete(AccessCondition, BlobRequestOptions, OperationContext, Object)</strong></td>
<td>Begins an asynchronous operation to delete a container.</td>
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<tr>
<td><strong>BeginDelete(AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to delete a container.</td>
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<td>Begins an asynchronous operation to delete a container.</td>
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<tr>
<td><strong>BeginDeleteIfExists</strong> <em>(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</em> <em>(AsyncCallback^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</em> <em>(AsyncCallback, Object)</em></td>
<td>Begins an asynchronous request to delete the container if it already exists.</td>
</tr>
<tr>
<td><strong>BeginDeleteIfExists</strong> <em>(AsyncCallback, Object)</em> <em>(AsyncCallback^, Object^)</em> <em>(AsyncCallback, Object)</em></td>
<td>Begins an asynchronous request to delete the container if it already exists.</td>
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<tr>
<td><strong>BeginExists(AsyncCallback, Object)</strong>&lt;br&gt;(AsyncCallback^, Object^)&lt;br&gt;(AsyncCallback, Object)</td>
<td>Begins an asynchronous request to check whether the container exists.</td>
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<tr>
<td><strong>BeginExists(BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong>&lt;br&gt;(BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)&lt;br&gt;(BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous request to check whether the container exists.</td>
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<tr>
<td><strong>BeginFetchAttributes</strong> <em>(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</em> <em>(AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</em> <em>(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</em> <em>(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</em></td>
<td>Begins an asynchronous operation to retrieve the container's attributes.</td>
</tr>
<tr>
<td><strong>BeginFetchAttributes</strong> <em>(AsyncCallback, Object)</em> <em>(AsyncCallback^, Object^)</em> <em>(AsyncCallback, Object)</em> <em>(AsyncCallback, Object)</em></td>
<td>Begins an asynchronous operation to retrieve the container's attributes.</td>
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<tr>
<td><strong>BeginGetBlobReferenceFromServer(String, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to get a reference to a blob in this container.</td>
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<tr>
<td><strong>BeginGetBlobReferenceFromServer(String, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to get a reference to a blob in this container.</td>
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</tr>
<tr>
<td>BeginGetPermissions(AsyncCallback, Object)(AsyncCallback^, Object^)(AsyncCallback, Object)(AsyncCallback, Object)</td>
<td>Begins an asynchronous request to get the permissions settings for the container.</td>
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<tbody>
<tr>
<td><code>BeginListBlobsSegmented(BlobContinuationToken, AsyncCallback, Object)</code>(BlobContinuationToken^, AsyncCallback^, Object^) (BlobContinuationToken, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to return a result segment containing a collection of blob items in the container.</td>
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<tr>
<td><code>BeginListBlobsSegmented(String, BlobContinuationToken, AsyncCallback, Object)</code>(String^, BlobContinuationToken^, AsyncCallback^, Object^) (String, BlobContinuationToken, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to return a result segment containing a collection of blob items in the container.</td>
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<tr>
<td><code>BeginListBlobsSegmented(String, Boolean, BlobListingDetails, Nullable&lt;Int32&gt;, BlobContinuationToken, BlobRequestOptions, OperationContext, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to return a result segment containing a collection of blob items in the container.</td>
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<td>`BeginReleaseLease(AccessCondition,</td>
<td>Begins an asynchronous operation to release the lease on this container.</td>
</tr>
<tr>
<td>AsyncCallback, Object)(AccessCondition^,</td>
<td></td>
</tr>
<tr>
<td>AsyncCallback^, Object^)</td>
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</tr>
<tr>
<td>`BeginReleaseLease(BlobRequestOptions,</td>
<td>Begins an asynchronous operation to release the lease on this container.</td>
</tr>
<tr>
<td>OperationContext, AsyncCallback, Object)(AccessCondition^,</td>
<td></td>
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<tr>
<td><strong>BeginRenewLease</strong>(<em>AccessCondition, AsyncCallback, Object</em>)</td>
<td>Begins an asynchronous operation to renew a lease on this container.</td>
</tr>
<tr>
<td><strong>BeginRenewLease</strong>(*AccessCondition^, AsyncCallback^, Object^) (AccessCondition, AsyncCallback, Object) (AccessCondition, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to renew a lease on this container.</td>
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<tr>
<td><strong>BeginSetMetadata</strong> <em>(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</em> <em>(AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</em></td>
<td>Begins an asynchronous operation to set user-defined metadata on the container.</td>
</tr>
<tr>
<td><strong>BeginSetMetadata</strong> <em>(AsyncCallback, Object)</em> <em>(AsyncCallback^, Object^)</em> <em>(AsyncCallback, Object)</em></td>
<td>Begins an asynchronous operation to set user-defined metadata on the container.</td>
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<tr>
<td>BeginSetPermissions(BlobContainerPermissions, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous request to set permissions for the container.</td>
</tr>
<tr>
<td>BeginSetPermissions(BlobContainerPermissions, AsyncCallback, Object)</td>
<td>Begins an asynchronous request to set permissions for the container.</td>
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<td><strong>BreakLeaseAsync(Nullable&lt;TimeSpan&gt;)(Nullable&lt;TimeSpan&gt;)(Nullable&lt;TimeSpan&gt;)</strong></td>
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<td><strong>BreakLeaseAsync(Nullable&lt;TimeSpan&gt;, AccessCondition, BlobRequestOptions, OperationContext)</strong></td>
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<td><strong>BreakLeaseAsync(Nullable&lt;TimeSpan&gt;, AccessCondition^, BlobRequestOptions^, OperationContext^)</strong></td>
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<td><strong>BreakLeaseAsync(Nullable(Of TimeSpan), AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</strong></td>
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<td></td>
<td><strong>BreakLeaseAsync(Nullable&lt;TimeSpan&gt;, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</strong></td>
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<tr>
<td><code>ChangeLeaseAsync(String, AccessCondition)</code> (String^, AccessCondition^)(String, AccessCondition)</td>
<td>Initiates an asynchronous operation that changes the lease ID on this container.</td>
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<tr>
<td><code>ChangeLeaseAsync(String, AccessCondition, BlobRequestOptions, OperationContext)</code> (String^, AccessCondition^, BlobRequestOptions^, OperationContext)</td>
<td>Initiates an asynchronous operation that changes the lease ID on this container.</td>
</tr>
<tr>
<td><code>ChangeLeaseAsync(String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</code> (String^, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)</td>
<td>Initiates an asynchronous operation that changes the lease ID on this container.</td>
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<td><code>CreateAsync(BlobContainerPublicAccessType, BlobRequestOptions, CancellationToken)(BlobContainerPublicAccessType, BlobRequestOptions^, OperationContext^, CancellationToken)</code></td>
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<td><code>CreateAsync(BlobContainerPublicAccessType, BlobRequestOptions^, OperationContext, CancellationToken)(BlobContainerPublicAccessType, BlobRequestOptions, OperationContext, CancellationToken)</code></td>
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DeleteAsync(AccessCondition^, BlobRequestOptions^, OperationContext^)

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DeleteAsync(AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)

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<tr>
<td>GetAppendBlobReference(String)(String^)(String)(String)</td>
<td>Gets a reference to an append blob in this container.</td>
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<tr>
<td>GetAppendBlobReference(String, Nullable&lt;DateTimeOffset&gt;)(String^, Nullable&lt;DateTimeOffset&gt;)(String, Nullable(Of DateTimeOffset))</td>
<td>Gets a reference to an append blob in this container.</td>
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<td>GetBlobReference(String)(String^)(String)(String)</td>
<td>Gets a reference to a blob in this container.</td>
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<td>GetBlobReference(String, Nullable&lt;DateTimeOffset&gt;)(String^, Nullable&lt;DateTimeOffset&gt;)(String, Nullable&lt;DateTimeOffset&gt;)(String, Nullable(Of DateTimeOffset))</td>
<td>Gets a reference to a blob in this container.</td>
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<td>GetBlobReferenceFromServerAsync(String)(String^)(String)(String)</td>
<td>Initiates an asynchronous operation that gets a reference to a blob in this container.</td>
</tr>
<tr>
<td>GetBlobReferenceFromServerAsync(String, AccessCondition, BlobRequestOptions, OperationContext)(String^, AccessCondition^, BlobRequestOptions^, OperationContext^) (String, AccessCondition, BlobRequestOptions, OperationContext) (String, AccessCondition, BlobRequestOptions, OperationContext)</td>
<td>Initiates an asynchronous operation that gets a reference to a blob in this container.</td>
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<tr>
<td>GetBlobReferenceFromServerAsync(String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken) (String^, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken) (String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken) (String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</td>
<td>Initiates an asynchronous operation that gets a reference to a blob in this container.</td>
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<tr>
<td><strong>GetBlockBlobReference(String)(String^)(String)(String)</strong></td>
<td>Gets a reference to a block blob in this container.</td>
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<tr>
<td><strong>GetBlockBlobReference(String, Nullable&lt;DateTimeOffset&gt;)(String^, Nullable&lt;DateTimeOffset&gt;)(String, Nullable(Of DateTimeOffset))</strong></td>
<td>Gets a reference to a block blob in this container.</td>
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<td><strong>GetPageBlobReference(String, Nullable&lt;DateTimeOffset&gt;)(String^, Nullable&lt;DateTimeOffset&gt;)(String, Nullable(Of DateTimeOffset))</strong></td>
<td>Returns a reference to a page blob in the virtual directory.</td>
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<td>Begins an asynchronous operation to return a result segment containing a collection of blob items in the virtual directory.</td>
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<tr>
<td>BeginListBlobsSegmented(Boolean, BlobListingDetails, Nullable&lt;Int32&gt;, BlobContinuationToken, BlobRequestOptions, OperationContext, AsyncCallback, Object)(Boolean, BlobListingDetails, Nullable(Of Int32), BlobContinuationToken, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to return a result segment containing a collection of blob items in the virtual directory.</td>
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<td>Gets a reference to an append blob in this virtual directory.</td>
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<tr>
<td>ListBlobsSegmentedAsync(Boolean, BlobListingDetails, Nullable&lt;Int32&gt;, BlobContinuationToken, BlobRequestOptions, OperationContext)</td>
</tr>
<tr>
<td>ListBlobsSegmentedAsync(Boolean, BlobListingDetails, Nullable(Of Int32), BlobContinuationToken, BlobRequestOptions, OperationContext)</td>
</tr>
<tr>
<td>ListBlobsSegmentedAsync(BlobContinuationToken, CancellationToken)(BlobContinuationToken)</td>
</tr>
<tr>
<td>ListBlobsSegmentedAsync(BlobContinuationToken, CancellationToken)(BlobContinuationToken)</td>
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<tr>
<td><strong>CloudBlockBlob(StorageUri, Nullable&lt;DateTimeOffset&gt;, StorageCredentials)</strong> (StorageUri^, Nullable&lt;DateTimeOffset&gt;, StorageCredentials^) (StorageUri, Nullable&lt;DateTimeOffset&gt;, StorageCredentials) (StorageUri, Nullable(Of DateTimeOffset), StorageCredentials)</td>
<td>Initializes a new instance of the <strong>CloudBlockBlob</strong> class using an absolute URI to the blob.</td>
</tr>
<tr>
<td><strong>CloudBlockBlob(Uri)(Uri^)(Uri)(Uri)</strong></td>
<td>Initializes a new instance of the <strong>CloudBlockBlob</strong> class using an absolute URI to the blob.</td>
</tr>
<tr>
<td><strong>CloudBlockBlob(Uri, Nullable&lt;DateTimeOffset&gt;, StorageCredentials)</strong> (Uri^, Nullable&lt;DateTimeOffset&gt;, StorageCredentials^) (Uri, Nullable&lt;DateTimeOffset&gt;, StorageCredentials) (Uri, Nullable(Of DateTimeOffset), StorageCredentials)</td>
<td>Initializes a new instance of the <strong>CloudBlockBlob</strong> class using an absolute URI to the blob.</td>
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<tr>
<td><strong>BeginCreateSnapshot(AsyncCallback, Object)</strong>&lt;br&gt;<strong>(AsyncCallback^, Object^)(AsyncCallback, Object)</strong>&lt;br&gt;<strong>(AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to create a snapshot of the blob.</td>
</tr>
<tr>
<td><strong>BeginCreateSnapshot(IDictionary&lt;String, String&gt;, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong>&lt;br&gt;<strong>(IDictionary&lt;String^, String^&gt;, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</strong>&lt;br&gt;<strong>(IDictionary(Of String, String), AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to create a snapshot of the blob.</td>
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<tr>
<td><code>CloudBlockBlob.BeginDownloadBlockList</code></td>
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**Overload List**

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<tbody>
<tr>
<td><code>BeginDownloadBlockList(AsyncCallback, Object)</code> (&lt;code&gt;AsyncCallback^, Object^)&lt;/code&gt; (&lt;code&gt;AsyncCallback, Object&lt;/code&gt;)</td>
<td>Begins an asynchronous operation to return an enumerable collection of the blob's blocks, using the specified block list filter.</td>
</tr>
<tr>
<td><code>BeginDownloadBlockList(BlockListingFilter, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</code> (&lt;code&gt;BlockListingFilter, AccessCondition^, BlobRequestOptions^, OperationContext^&lt;/code&gt;) (&lt;code&gt;AsyncCallback^, Object^)&lt;/code&gt; (&lt;code&gt;BlockListingFilter, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object&lt;/code&gt;)</td>
<td>Begins an asynchronous operation to return an enumerable collection of the blob's blocks, using the specified block list filter.</td>
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CloudBlockBlob...BeginDownloadText Method

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<tbody>
<tr>
<td><strong>BeginDownloadText(AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to download the blob's contents as a string.</td>
</tr>
<tr>
<td>(AsyncCallback^, Object^)(AsyncCallback, Object)</td>
<td></td>
</tr>
<tr>
<td>(AsyncCallback, Object)</td>
<td></td>
</tr>
<tr>
<td><strong>BeginDownloadText(Encoding, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to download the blob's contents as a string.</td>
</tr>
<tr>
<td>(Encoding^, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</td>
<td></td>
</tr>
<tr>
<td>(Encoding, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td></td>
</tr>
<tr>
<td>(Encoding, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
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CloudBlockBlob.::::BeginOpenWrite Method

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<tbody>
<tr>
<td><code>BeginOpenWrite(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to open a stream for writing to the blob.</td>
</tr>
<tr>
<td><code>BeginOpenWrite(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to open a stream for writing to the blob.</td>
</tr>
<tr>
<td><code>BeginOpenWrite(AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to open a stream for writing to the blob.</td>
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<tbody>
<tr>
<td><code>BeginPutBlock(String, Stream, String, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to upload a single block.</td>
</tr>
<tr>
<td><code>BeginPutBlock(String, Stream, String, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to upload a single block.</td>
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</table>
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<tbody>
<tr>
<td><strong>BeginPutBlockList</strong> (IEnumerable&lt;String&gt;, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object) (IEnumerable&lt;String^&gt;, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^) (IEnumerable(Of String), AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to upload a list of blocks to a new or existing blob.</td>
</tr>
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</table>

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<tbody>
<tr>
<td><strong>BeginPutBlockList</strong> (IEnumerable&lt;String&gt;, AsyncCallback, Object) (IEnumerable&lt;String^&gt;, AsyncCallback^, Object^) (IEnumerable(Of String), AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to upload a list of blocks to a new or existing blob.</td>
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<tr>
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<tbody>
<tr>
<td><strong>BeginStartCopy</strong>&lt;br&gt;(CloudBlockBlob,&lt;br&gt;AccessCondition, AccessCondition,&lt;br&gt;BlobRequestOptions, OperationContext,&lt;br&gt;AsyncCallback, Object)&lt;br&gt;(CloudBlockBlob^,&lt;br&gt;AccessCondition^, AccessCondition^,&lt;br&gt;BlobRequestOptions^, OperationContext^,&lt;br&gt;AsyncCallback^, Object^)</td>
<td>Begins an asynchronous operation to start copying another block blob's contents, properties, and metadata to this block blob.</td>
</tr>
<tr>
<td><strong>BeginStartCopy</strong>&lt;br&gt;(CloudBlockBlob, AsyncCallback, Object)&lt;br&gt;(CloudBlockBlob^, AsyncCallback^, Object^)</td>
<td>Begins an asynchronous operation to start copying another block blob's contents, properties, and metadata to this block blob.</td>
</tr>
<tr>
<td><strong>BeginStartCopy</strong>&lt;br&gt;(CloudFile, AccessCondition,&lt;br&gt;AccessCondition,&lt;br&gt;BlobRequestOptions, OperationContext, AsyncCallback, Object)&lt;br&gt;(CloudFile^, AccessCondition^, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</td>
<td>Begins an asynchronous operation to start copying a file's contents, properties, and metadata to this block blob.</td>
</tr>
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See Also

CloudBlockBlob Class

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</table>
Represents a file in the Windows Azure File service.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System:::Object
### Syntax

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<th>Language</th>
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<tr>
<td>C#</td>
<td><code>public class CloudFile : IListFileItem</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public ref class CloudFile : IListFileItem</code></td>
</tr>
</tbody>
</table>
| F#       | `type CloudFile =
  class
    interface IListFileItem
  end` |
| VB       | `Public Class CloudFile
  Implements IListFileItem` |
## Constructors

<table>
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</table>
| **CloudFile***(StorageUri, StorageCredentials)*
(StorageUri^, StorageCredentials^)
(StorageUri, StorageCredentials)
(StorageUri, StorageCredentials) | Initializes a new instance of the **CloudFile** class using an absolute URI to the file. |

| **CloudFile***(Uri)^*(Uri)(Uri) | Initializes a new instance of the **CloudFile** class using an absolute URI to the file. |

| **CloudFile***(Uri, StorageCredentials)^*(Uri, StorageCredentials)^*(Uri, StorageCredentials) | Initializes a new instance of the **CloudFile** class using an absolute URI to the file. |
### Methods

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<tr>
<td>AbortCopyAsync(String)(String^)(String)(String)</td>
</tr>
<tr>
<td>AbortCopyAsync(String, AccessCondition, FileRequestOptions, OperationContext)(String, AccessCondition, FileRequestOptions, OperationContext)</td>
</tr>
<tr>
<td>AbortCopyAsync(String, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)(String, AccessCondition^, FileRequestOptions^, OperationContext^, CancellationToken)</td>
</tr>
<tr>
<td>AbortCopyAsync(String, CancellationToken)</td>
</tr>
<tr>
<td>AbortCopyAsync(String^, CancellationToken)</td>
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Thread Safety

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


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<tr>
<td>CloudBlockBlob::BeginUploadFromArray</td>
<td></td>
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<td></td>
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</table>

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<tr>
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<tbody>
<tr>
<td><code>BeginUploadFromByteArray(Byte[], Int32, Int32, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to upload the contents of a byte array to a blob.</td>
</tr>
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</table>

**Begins an asynchronous operation to upload the contents of a byte array to a blob.**
See Also

CloudBlockBlob Class

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<tbody>
<tr>
<td>CloudBlockBlob::BeginUploadFromFile Method</td>
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<tr>
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<tbody>
<tr>
<td><strong>BeginUploadFromFile(String, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to upload a file to a blob. If the blob already exists, it will be overwritten.</td>
</tr>
<tr>
<td><strong>BeginUploadFromFile(String, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to upload a file to a blob. If the blob already exists, it will be overwritten.</td>
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<tr>
<td><strong>BeginUploadFromStream(Stream, OperationContext, BlobRequestOptions, AsyncCallback, Object)</strong> (Stream, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object) (Stream, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to upload a stream to a block blob.</td>
</tr>
<tr>
<td><strong>BeginUploadFromStream(Stream, AsyncCallback, Object)</strong> (Stream, AsyncCallback, Object) (Stream, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to upload a stream to a block blob.</td>
</tr>
<tr>
<td><strong>BeginUploadFromStream(Stream, Int64, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong> (Stream, Int64, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object) (Stream, Int64, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to upload a stream to a block blob.</td>
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<tbody>
<tr>
<td><strong>BeginUploadText</strong>(String, AsyncCallback, Object) (String^, AsyncCallback^, Object^)(String, AsyncCallback, Object)(String, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to upload a string of text to a blob.</td>
</tr>
<tr>
<td><strong>BeginUploadText</strong>(String, Encoding, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)(String, Encoding^, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)(String, Encoding, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to upload a string of text to a blob.</td>
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<td><code>CreateSnapshotAsync()</code></td>
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<td><code>CreateSnapshotAsync(CancellationToken)</code></td>
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<tr>
<td><code>CreateSnapshotAsync(IDictionary&lt;String, String&gt;, AccessCondition, OperationContext)</code></td>
</tr>
<tr>
<td><code>CreateSnapshotAsync(IDictionary&lt;String^, String^&gt;, AccessCondition^, OperationContext^)</code></td>
</tr>
<tr>
<td><code>CreateSnapshotAsync(IDictionary&lt;String, String&gt;, AccessCondition, OperationContext, CancellationToken)</code></td>
</tr>
<tr>
<td><code>CreateSnapshotAsync(IDictionary(Of String, String), AccessCondition, OperationContext)</code></td>
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<td>DownloadBlockListAsync()()()</td>
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<tr>
<td>DownloadBlockListAsync(BlockListingFilter, AccessCondition, BlobRequestOptions, OperationContext)</td>
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</tr>
<tr>
<td>DownloadBlockListAsync(BlockListingFilter, AccessCondition^, BlobRequestOptions^, OperationContext)(BlockListBlobRequestOptions, OperationContext)</td>
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<td>DownloadTextAsync()</td>
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<td>DownloadTextAsync(CancellationToken)</td>
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<td>DownloadTextAsync(Encoding, AccessCondition, BlobRequestOptions, OperationContext)</td>
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<td>- OpenWriteAsync()()()</td>
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<td>- OpenWriteAsync(AccessCondition, BlobRequestOptions, OperationContext)</td>
</tr>
<tr>
<td>(AccessCondition^, BlobRequestOptions^, OperationContext^)</td>
</tr>
<tr>
<td>(AccessCondition, BlobRequestOptions, OperationContext)</td>
</tr>
<tr>
<td>(AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</td>
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<tr>
<td>- OpenWriteAsync(AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</td>
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<tbody>
<tr>
<td><strong>PutBlockAsync(String, Stream, String)(String^, Stream^, String^)</strong></td>
<td>Initiates an asynchronous operation to upload a single block.</td>
</tr>
<tr>
<td><strong>PutBlockAsync(String, Stream, String, AccessCondition, BlobRequestOptions, OperationContext)(String^, Stream^, String^, AccessCondition^, BlobRequestOptions^, OperationContext^)</strong></td>
<td>Initiates an asynchronous operation to upload a single block.</td>
</tr>
<tr>
<td><strong>PutBlockAsync(String, Stream, String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(String^, Stream^, String^, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken^)</strong></td>
<td>Initiates an asynchronous operation to upload a single block.</td>
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<td><code>PutBlockListAsync(IEnumerable&lt;String&gt;)(IEnumerable&lt;String^&gt;^)(IEnumerable&lt;String&gt;)</code></td>
<td></td>
</tr>
<tr>
<td><code>PutBlockListAsync(IEnumerable&lt;String&gt;, AccessCondition, BlobRequestOptions, OperationContext)</code></td>
<td></td>
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<td><code>PutBlockListAsync(IEnumerable&lt;String&gt;, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</code></td>
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<td><code>PutBlockListAsync(IEnumerable&lt;String&gt;, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</code></td>
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<tr>
<td><code>PutBlockListAsync(IEnumerable(Of String), AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</code></td>
<td></td>
</tr>
<tr>
<td><code>PutBlockListAsync(IEnumerable&lt;String&gt;, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</code></td>
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<tr>
<td><img src="CloudBlockBlob" alt="StartCopyAsync" />(CloudBlockBlob^)(CloudBlockBlob)</td>
</tr>
<tr>
<td>![StartCopyAsync](CloudBlockBlob, AccessCondition, AccessCondition, BlobRequestOptions, OperationContext)(CloudBlockBlob^, AccessCondition^, AccessCondition^, BlobRequestOptions^, OperationContext^)</td>
</tr>
<tr>
<td>![StartCopyAsync](CloudBlockBlob, AccessCondition, AccessCondition, BlobRequestOptions, OperationContext)</td>
</tr>
<tr>
<td>![StartCopyAsync](CloudBlockBlob, AccessCondition, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</td>
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<td>![StartCopyAsync](CloudBlockBlob, AccessCondition, AccessCondition, BlobRequestOptions, OperationContext)</td>
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<tbody>
<tr>
<td>CloudBlockBlob:::UploadFromByteArrayAsync</td>
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<tr>
<td><strong>UploadFromByteArrayAsync(Byte[], Int32, Int32)</strong> (array&lt;Byte&gt;, Int32, Int32)(Byte(), Int32, Int32)</td>
<td>Initiates an asynchronous operation to upload the contents of a byte array to a blob.</td>
</tr>
<tr>
<td><strong>UploadFromByteArrayAsync(Byte[], Int32, Int32, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</strong> (array&lt;Byte&gt;, Int32, Int32, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)(Byte())</td>
<td>Initiates an asynchronous operation to upload the contents of a byte array to a blob.</td>
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<tr>
<td><strong>UploadFromFileAsync(String)(String^)(String)(String)</strong></td>
<td>Initiates an asynchronous operation to upload a file to a blob. If the blob already exists, it will be overwritten.</td>
</tr>
<tr>
<td><strong>UploadFromFileAsync(String, AccessCondition, BlobRequestOptions, OperationContext)(String^, AccessCondition^, BlobRequestOptions^, OperationContext^)(String, AccessCondition, BlobRequestOptions, OperationContext)</strong></td>
<td>Initiates an asynchronous operation to upload a file to a blob. If the blob already exists, it will be overwritten.</td>
</tr>
<tr>
<td><strong>UploadFromFileAsync(String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(String^, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)</strong></td>
<td>Initiates an asynchronous operation to upload a file to a blob. If the blob already exists, it will be overwritten.</td>
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<tbody>
<tr>
<td><code>UploadFromStreamAsync(Stream)(Stream^)(Stream)(Stream)</code></td>
<td>Initiates an asynchronous operation to upload a stream to a block blob.</td>
</tr>
<tr>
<td><code>UploadFromStreamAsync(Stream, CancellationToken)(Stream^, CancellationToken)(Stream, CancellationToken)(Stream, CancellationToken)</code></td>
<td>Initiates an asynchronous operation to upload a stream to a block blob.</td>
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<tbody>
<tr>
<td>UploadTextAsync(String)(String^)(String)(String)</td>
<td>Initiates an asynchronous operation to upload a string of text to a blob.</td>
</tr>
<tr>
<td>UploadTextAsync(String, CancellationToken)(String^, CancellationToken)(String, CancellationToken)</td>
<td>Initiates an asynchronous operation to upload a string of text to a blob.</td>
</tr>
<tr>
<td>UploadTextAsync(String, Encoding, AccessCondition, BlobRequestOptions, OperationContext)(String^, Encoding^, AccessCondition^, BlobRequestOptions^, OperationContext^)(String, Encoding, AccessCondition, BlobRequestOptions, OperationContext)</td>
<td>Initiates an asynchronous operation to upload a string of text to a blob.</td>
</tr>
<tr>
<td>UploadTextAsync(String, Encoding, AccessCondition, BlobRequestOptions)</td>
<td>Initiates an asynchronous operation to upload a string of text to a blob.</td>
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</table>
| **CloudPageBlob(StorageUri, Nullable<DateTimeOffset>, StorageCredentials)**  
(StorageUri^, Nullable<DateTimeOffset>, ^StorageCredentials^)(StorageUri, Nullable<DateTimeOffset>, StorageCredentials)  
(StorageUri, Nullable(Of DateTimeOffset), StorageCredentials) | Initializes a new instance of the **CloudPageBlob** class using an absolute URI to the blob. |
| **CloudPageBlob(Uri)(Uri^)(Uri)(Uri)** | Initializes a new instance of the **CloudPageBlob** class using an absolute URI to the blob. |
| **CloudPageBlob(Uri, Nullable<DateTimeOffset>, StorageCredentials)(Uri^, Nullable<DateTimeOffset>, ^StorageCredentials^)  
(Uri, Nullable<DateTimeOffset>, ^StorageCredentials^)  
(Uri, Nullable(Of DateTimeOffset), StorageCredentials) | Initializes a new instance of the **CloudPageBlob** class using an absolute URI to the blob. |
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<tr>
<td><code>BeginClearPages(Int64, Int64, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)(Int64, Int64, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</code></td>
<td>Begins an asynchronous operation to clear pages from a page blob.</td>
</tr>
<tr>
<td><code>BeginClearPages(Int64, Int64, AsyncCallback, Object)(Int64, Int64, AsyncCallback^, Object^)</code></td>
<td>Begins an asynchronous operation to clear pages from a page blob.</td>
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<tr>
<td><strong>BeginCreate</strong>(Int64, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)(Int64, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</td>
<td>Begins an asynchronous operation to create a page blob.</td>
</tr>
<tr>
<td><strong>BeginCreate</strong>(Int64, AsyncCallback, Object)(Int64, AsyncCallback^, Object^)(Int64, AsyncCallback, Object)(Int64, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to create a page blob.</td>
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<td><strong>BeginCreateSnapshot(AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to create a snapshot of the blob.</td>
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<tr>
<td><strong>BeginCreateSnapshot(IDictionary&lt;String, String&gt;, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to create a snapshot of the blob.</td>
</tr>
<tr>
<td><strong>BeginCreateSnapshot(IDictionary&lt;String^, String^&gt;, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</strong></td>
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<tr>
<td><strong>BeginCreateSnapshot(Of String, String, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>BeginCreateSnapshot(Of String, String, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
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<tr>
<td>BeginGetPageRanges(AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to return a collection of valid page ranges and the starting and ending bytes.</td>
</tr>
<tr>
<td>(AsyncCallback^, Object^)(AsyncCallback, Object)</td>
<td></td>
</tr>
<tr>
<td>(AsyncCallback, Object)</td>
<td></td>
</tr>
<tr>
<td>BeginGetPageRanges(Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)(Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to return a collection of valid page ranges and the starting and ending bytes.</td>
</tr>
<tr>
<td>(Nullable(Of Int64), Nullable(Of Int64), AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
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<tr>
<td><strong>BeginGetPageRangesDiff(DateTimeOffset, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to return the collection of page ranges that differ between a specified snapshot and this object.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>BeginGetPageRangesDiff(DateTimeOffset, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to return the collection of page ranges that differ between a specified snapshot and this object.</td>
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<tr>
<td><code>BeginOpenWrite(Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to open a stream for writing to the blob.</td>
</tr>
<tr>
<td><code>BeginOpenWrite(Nullable&lt;Int64&gt;, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</code></td>
<td>Begins an asynchronous operation to open a stream for writing to the blob.</td>
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<tr>
<td><code>BeginOpenWrite(Nullable&lt;Int64&gt;, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to open a stream for writing to the blob.</td>
</tr>
<tr>
<td><code>BeginOpenWrite(Nullable(Of Int64), AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to open a stream for writing to the blob.</td>
</tr>
<tr>
<td><code>BeginOpenWrite(Nullable&lt;Int64&gt;, AsyncCallback^, Object^)</code></td>
<td>Begins an asynchronous operation to open a stream for writing to the blob.</td>
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</table>

```csharp
public async Task BeginOpenWrite(Nullable<Int64> offset, AccessCondition accessCondition, BlobRequestOptions requestOptions, OperationContext context, AsyncCallback callback, Object state)
```
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<th>CloudPageBlob::BeginResize Method</th>
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<tr>
<td><strong>BeginResize(Int64, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)(Int64, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</strong></td>
<td>Begins an asynchronous operation to resize the page blob to the specified size.</td>
</tr>
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</table>

- **BeginResize(Int64, AsyncCallback, Object)(Int64, AsyncCallback^, Object^)**
- **BeginResize(Int64, AsyncCallback, Object)(Int64, AsyncCallback, Object)**

Begins an asynchronous operation to resize the page blob to the specified size.
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<td>CloudPageBlob::BeginSetSequenceNumber</td>
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**Namespace:**  [Microsoft.WindowsAzure.Storage.Blob](http://go.microsoft.com/fwlink/?LinkID=266192)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
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<td><code>BeginSetSequenceNumber(SequenceNumberAction, Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to set the page blob's sequence number.</td>
</tr>
<tr>
<td><code>BeginSetSequenceNumber(SequenceNumberAction, Nullable&lt;Int64&gt;, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</code></td>
<td>Begins an asynchronous operation to set the page blob's sequence number.</td>
</tr>
<tr>
<td><code>BeginSetSequenceNumber(SequenceNumberAction, Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback^, Object)</code></td>
<td>Begins an asynchronous operation to set the page blob's sequence number.</td>
</tr>
<tr>
<td><code>BeginSetSequenceNumber(SequenceNumberAction, Nullable(Of Int64), AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to set the page blob's sequence number.</td>
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<tr>
<td><code>BeginSetSequenceNumber(SequenceNumberAction, Nullable&lt;Int64&gt;, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to set the page blob's sequence number.</td>
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<tr>
<td><code>BeginSetSequenceNumber(SequenceNumberAction, Nullable&lt;Int64&gt;, AsyncCallback^, Object^)</code></td>
<td>Begins an asynchronous operation to set the page blob's sequence number.</td>
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<td><code>BeginSetSequenceNumber(SequenceNumberAction, Nullable&lt;Int64&gt;, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to set the page blob's sequence number.</td>
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<tr>
<td><code>BeginSetSequenceNumber(SequenceNumberAction, Nullable(Of Int64), AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to set the page blob's sequence number.</td>
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<tbody>
<tr>
<td><strong>BeginStartCopy(CloudPageBlob, AccessCondition, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to start copying another page blob's contents, properties, and metadata to this page blob.</td>
</tr>
<tr>
<td><strong>BeginStartCopy(CloudPageBlob^, AccessCondition^, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>BeginStartCopy(CloudPageBlob, AccessCondition, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to start copying another blob's contents, properties, and metadata to this page blob.</td>
</tr>
<tr>
<td><strong>BeginStartCopy(CloudPageBlob^, AsyncCallback^, Object^)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>BeginStartCopy(CloudPageBlob, AsyncCallback, Object)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>BeginStartCopy(Uri, AccessCondition, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to start copying another blob's contents, properties, and metadata to this page blob.</td>
</tr>
<tr>
<td><strong>BeginStartCopy(Uri^, AccessCondition^, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</strong></td>
<td></td>
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<tr>
<td><strong>BeginUploadFromByteArray</strong>&lt;br&gt;<strong>(array&lt;Byte&gt;^, Int32, Int32, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</strong>&lt;br&gt;<strong>BeginUploadFromByteArray</strong>&lt;br&gt;<strong>((Byte(), Int32, Int32, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object))</strong></td>
<td>Begins an asynchronous operation to upload the contents of a byte array to a page blob.</td>
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<tr>
<td><strong>BeginUploadFromFile(String, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to upload a file to a page blob. If the blob already exists, it will be overwritten.</td>
</tr>
<tr>
<td><strong>BeginUploadFromFile(String, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to upload a file to a page blob. If the blob already exists, it will be overwritten.</td>
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<td>BeginUploadFromStream(Stream, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to upload a stream to a page blob.</td>
</tr>
<tr>
<td>BeginUploadFromStream(Stream, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to upload a stream to a page blob.</td>
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<tr>
<td>BeginUploadFromStream(Stream, Int64, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to upload a stream to a page blob.</td>
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<tr>
<td>BeginWritePages(Stream, Int64, String, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to write pages to page blob.</td>
</tr>
<tr>
<td>BeginWritePages(Stream^, Int64, String^, AsyncCallback^, Object^)</td>
<td>Begins an asynchronous operation to write pages to page blob.</td>
</tr>
<tr>
<td>BeginWritePages(Stream, Int64, String, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to write pages to page blob.</td>
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<tr>
<td>ClearPagesAsync(Int64, Int64)(Int64, Int64) (Int64, Int64)</td>
<td>Initiates an asynchronous operation to clear pages from a page blob.</td>
</tr>
<tr>
<td>ClearPagesAsync(Int64, Int64, AccessCondition, BlobRequestOptions, OperationContext)(Int64, Int64, AccessCondition^, BlobRequestOptions^, OperationContext^)(Int64, Int64, AccessCondition, BlobRequestOptions, OperationContext)(Int64, Int64, AccessCondition, BlobRequestOptions, OperationContext)</td>
<td>Initiates an asynchronous operation to clear pages from a page blob.</td>
</tr>
<tr>
<td>ClearPagesAsync(Int64, Int64, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(Int64, Int64, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)(Int64, Int64, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(Int64, Int64, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</td>
<td>Initiates an asynchronous operation to clear pages from a page blob.</td>
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<tr>
<td>CreateAsync(Int64)(Int64)(Int64)(Int64)</td>
<td>Initiates an asynchronous operation to create a page blob.</td>
</tr>
<tr>
<td>CreateAsync(Int64, AccessCondition, BlobRequestOptions, OperationContext)(Int64, AccessCondition^, BlobRequestOptions^, OperationContext^)(Int64, AccessCondition, BlobRequestOptions, OperationContext)</td>
<td>Initiates an asynchronous operation to create a page blob.</td>
</tr>
<tr>
<td>CreateAsync(Int64, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(Int64, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)(Int64, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</td>
<td>Initiates an asynchronous operation to create a page blob.</td>
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<td><strong>CreateSnapshotAsync()</strong></td>
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<td><strong>CreateSnapshotAsync(CancellationToken)</strong></td>
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<tr>
<td><strong>CreateSnapshotAsync(IDictionary&lt;String, String&gt;, AccessCondition, BlobRequestOptions, OperationContext)</strong></td>
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<td><strong>CreateSnapshotAsync(IDictionary&lt;String, String&gt;, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</strong></td>
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<td>GetPageRangesAsync()()()</td>
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<td>GetPageRangesAsync(CancellationToken)(CancellationToken)(CancellationToken)</td>
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<tr>
<td>GetPageRangesAsync(Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext)</td>
</tr>
<tr>
<td>GetPageRangesAsync(Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext)</td>
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<tr>
<td>GetPageRangesAsync(Nullable(Of Int64), Nullable(Of Int64), AccessCondition, BlobRequestOptions, OperationContext)</td>
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<td>GetPageRangesDiffAsync(DateTimeOffset)</td>
<td>Return the ranges of pages that are different between two timepoints.</td>
</tr>
<tr>
<td>GetPageRangesDiffAsync(DateTimeOffset, CancellationToken)</td>
<td>Return the ranges of pages that are different between two timepoints with a cancellation token.</td>
</tr>
<tr>
<td>GetPageRangesDiffAsync(DateTimeOffset, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext)</td>
<td>Return the ranges of pages that are different between two timepoints with additional parameters.</td>
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<td><strong>OpenWriteAsync(Nullable&lt;Int64&gt;)</strong>(Nullable&lt;Int64&gt;)(Nullable&lt;Int64&gt;)</td>
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<tr>
<td><strong>OpenWriteAsync(Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext)</strong>(Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext)</td>
</tr>
<tr>
<td><strong>OpenWriteAsync(Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</strong>(Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</td>
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<tr>
<td><strong>ResizeAsync(Int64)(Int64)(Int64)(Int64)</strong></td>
<td>Initiates an asynchronous operation to resize the page blob to the specified size.</td>
</tr>
<tr>
<td><strong>ResizeAsync(Int64, AccessCondition, BlobRequestOptions, OperationContext)(Int64, AccessCondition^, BlobRequestOptions^, OperationContext^)</strong></td>
<td>Initiates an asynchronous operation to resize the page blob to the specified size.</td>
</tr>
<tr>
<td><strong>ResizeAsync(Int64, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(Int64, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken^)</strong></td>
<td>Initiates an asynchronous operation to resize the page blob to the specified size.</td>
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<tbody>
<tr>
<td>SetSequenceNumberAsync(SequenceNumberAction, Nullable&lt;Int64&gt;)</td>
<td>Initiates an asynchronous operation to set the page blob sequence number.</td>
</tr>
<tr>
<td>SetSequenceNumberAsync(SequenceNumberAction, Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext)</td>
<td>Initiates an asynchronous operation to set the page blob sequence number.</td>
</tr>
<tr>
<td>SetSequenceNumberAsync(SequenceNumberAction, Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</td>
<td>Initiates an asynchronous operation to set the page blob sequence number.</td>
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<tr>
<td>StartCopyAsync(CloudPageBlob)(CloudPageBlob^)(CloudPageBlob)</td>
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<tr>
<td>StartCopyAsync(CloudPageBlob, AccessCondition, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</td>
<td></td>
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<tr>
<td>StartCopyAsync(CloudPageBlob, AccessCondition, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</td>
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**Namespace:**  Microsoft.WindowsAzure.Storage.Blob  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
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<td><strong>UploadFromByteArrayAsync(Byte[], Int32, Int32)</strong> (array&lt;Byte&gt;^, Int32, Int32)(Byte[], Int32, Int32) (Byte(), Int32, Int32)</td>
<td>Initiates an asynchronous operation to upload the contents of a byte array to a page blob.</td>
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<tr>
<td><strong>UploadFromFileAsync(String)(String^)(String)(String)</strong></td>
<td>Initiates an asynchronous operation to upload a file to a page blob. If the blob already exists, it will be overwritten.</td>
</tr>
<tr>
<td><strong>UploadFromFileAsync(String, AccessCondition, BlobRequestOptions, OperationContext)</strong></td>
<td>Initiates an asynchronous operation to upload a file to a page blob. If the blob already exists, it will be overwritten.</td>
</tr>
<tr>
<td><strong>UploadFromFileAsync(String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</strong></td>
<td>Initiates an asynchronous operation to upload a file to a page blob. If the blob already exists, it will be overwritten.</td>
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<tr>
<td>UploadFromStreamAsync(Stream)(Stream^)(Stream)(Stream)</td>
<td>Initiates an asynchronous operation to upload a stream to a page blob.</td>
</tr>
<tr>
<td>UploadFromStreamAsync(Stream, CancellationToken)(Stream^, CancellationToken^)(Stream, CancellationToken)(Stream, CancellationToken)</td>
<td>Initiates an asynchronous operation to upload a stream to a page blob.</td>
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<tr>
<td>WritePagesAsync(Stream, Int64, String)(Stream^, Int64, String^)</td>
<td>Initiates an asynchronous operation to write pages to page blob.</td>
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<tr>
<td>WritePagesAsync(Stream, Int64, String, AccessCondition, BlobRequestOptions, OperationContext^)</td>
<td>Initiates an asynchronous operation to write pages to page blob.</td>
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<tr>
<td>WritePagesAsync(Stream, Int64, String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</td>
<td>Initiates an asynchronous operation to write pages to page blob.</td>
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<td><strong>Add(KeyValuePair&lt;String, SharedAccessBlobPolicy&gt;)</strong> &lt;br&gt;<strong>(KeyValuePair&lt;String^, SharedAccessBlobPolicy^&gt;)</strong> &lt;br&gt;<strong>(KeyValuePair&lt;String, SharedAccessBlobPolicy&gt;)</strong> &lt;br&gt;<strong>(KeyValuePair(Of String, SharedAccessBlobPolicy))</strong></td>
<td>Adds the specified key/SharedAccessBlobPolicy stored in a KeyValuePair to the collection of shared access policies.</td>
</tr>
<tr>
<td><strong>Add(String, SharedAccessBlobPolicy)</strong> &lt;br&gt;<strong>(String^, SharedAccessBlobPolicy^)</strong> &lt;br&gt;<strong>(String, SharedAccessBlobPolicy)</strong> &lt;br&gt;<strong>(String, SharedAccessBlobPolicy)</strong></td>
<td>Adds the specified key and SharedAccessBlobPolicy to the collection of shared access policies.</td>
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<tr>
<td>Remove(KeyValuePair&lt;String, SharedAccessBlobPolicy&gt;)(KeyValuePair&lt;String, SharedAccessBlobPolicy&gt;)(KeyValuePair(Of String, SharedAccessBlobPolicy))</td>
<td>Removes the SharedAccessBlobPolicy specified in the KeyValuePair&lt;TKey, TValue&gt; (&lt;'TKey, 'TValue: TValue) object, from the shared access policies collection.</td>
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<tr>
<td>Remove(String)(String)(String)</td>
<td>Removes the value with the specified key from the shared access policies collection.</td>
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<tr>
<td><img src="AbortCopyAsync(String)(String%5E)(String)(String)" alt="" /></td>
<td>Initiates an asynchronous operation to abort an ongoing blob copy operation.</td>
</tr>
<tr>
<td>![](AbortCopyAsync(String, AccessCondition, BlobRequestOptions, OperationContext)(String^, AccessCondition^, BlobRequestOptions^, OperationContext^))</td>
<td>Initiates an asynchronous operation to abort an ongoing blob copy operation.</td>
</tr>
<tr>
<td>![](AbortCopyAsync(String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(String^, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken))</td>
<td>Initiates an asynchronous operation to abort an ongoing blob copy operation.</td>
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<td><strong>AcquireLeaseAsync(Nullable&lt;TimeSpan&gt;, String)</strong></td>
<td>Initiates an asynchronous operation to acquire a lease on this blob.</td>
</tr>
<tr>
<td><strong>AcquireLeaseAsync(Nullable&lt;TimeSpan&gt;, String, AccessCondition, BlobRequestOptions, OperationContext)</strong></td>
<td>Initiates an asynchronous operation to acquire a lease on this blob.</td>
</tr>
<tr>
<td><strong>AcquireLeaseAsync(Nullable&lt;TimeSpan&gt;, String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</strong></td>
<td>Initiates an asynchronous operation to acquire a lease on this blob.</td>
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<tr>
<td><strong>BeginAbortCopy(String, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong>(String^, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</td>
<td>Begins an asynchronous operation to abort an ongoing blob copy operation.</td>
</tr>
<tr>
<td><strong>BeginAbortCopy(String, AsyncCallback, Object)</strong>(String^, AsyncCallback^, Object^)</td>
<td>Begins an asynchronous operation to abort an ongoing blob copy operation.</td>
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<tr>
<td>BeginAcquireLease(Nullable&lt;TimeSpan&gt;, String, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object) (Nullable&lt;TimeSpan&gt;, String^, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^) (Nullable(Of TimeSpan), String, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to acquire a lease on this blob.</td>
</tr>
<tr>
<td>BeginAcquireLease(Nullable&lt;TimeSpan&gt;, String, AsyncCallback, Object)(Nullable&lt;TimeSpan&gt;, String^, AsyncCallback^, Object^) (Nullable&lt;TimeSpan&gt;, String, AsyncCallback, Object)(Nullable(Of TimeSpan), String, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to acquire a lease on this blob.</td>
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<tr>
<td><strong>BeginBreakLease(Nullable&lt;TimeSpan&gt;, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to break the current lease on this blob.</td>
</tr>
<tr>
<td></td>
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</tr>
<tr>
<td><strong>BeginBreakLease(Nullable&lt;TimeSpan&gt;, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to break the current lease on this blob.</td>
</tr>
<tr>
<td><strong>BeginBreakLease(Nullable&lt;TimeSpan&gt;, AsyncCallback^, Object^)</strong></td>
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<tr>
<td><strong>BeginChangeLease</strong> <em>(String, AccessCondition, AsyncCallback, Object)</em> *(String^, AccessCondition^, AsyncCallback^, Object^) <em>(String, AccessCondition, AsyncCallback, Object)</em></td>
<td>Begins an asynchronous operation to change the lease on this blob.</td>
</tr>
<tr>
<td><strong>BeginChangeLease</strong> <em>(String, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</em> *(String^, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^) <em>(String, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</em></td>
<td>Begins an asynchronous operation to change the lease on this blob.</td>
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<td><strong>BeginDelete(AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to delete the blob.</td>
</tr>
<tr>
<td><strong>BeginDelete(DeleteSnapshotsOption, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to delete the blob.</td>
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<td>BeginDeleteIfExists(AsyncCallback, Object)</td>
<td>Begins an asynchronous request to delete the blob if it already exists.</td>
</tr>
<tr>
<td>BeginDeleteIfExists(AsyncCallback^, Object^)(AsyncCallback, Object)</td>
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<tr>
<td>BeginDeleteIfExists(DeleteSnapshotsOption, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous request to delete the blob if it already exists.</td>
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<tr>
<td>BeginDeleteIfExists(DeleteSnapshotsOption^, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</td>
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<tr>
<td><strong>BeginDownloadRangeToByteArray(Byte[], Int32, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong> (array&lt;Byte&gt;^, Int32, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^) (Byte(), Int32, Nullable(Of Int64), Nullable(Of Int64), AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to download a range of bytes from a blob to byte array.</td>
</tr>
<tr>
<td><strong>BeginDownloadRangeToByteArray(Byte[], Int32, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AsyncCallback, Object)</strong> (Byte[], Int32, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to download a range of bytes from a blob to byte array.</td>
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<td><code>BeginDownloadRangeToStream(Stream, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)(Stream, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to download a range of bytes from a blob to stream.</td>
</tr>
<tr>
<td><code>BeginDownloadRangeToStream(Stream, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AsyncCallback, Object)(Stream, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to download a range of bytes from a blob to stream.</td>
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<td><strong>BeginDownloadToByteArray(Byte[], Int32, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong> (array&lt;Byte&gt;^, Int32, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)(Byte[], Int32, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to download the contents of a blob to a byte array.</td>
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<tr>
<td><strong>BeginDownloadToByteArray(Byte[], Int32, AsyncCallback, Object)</strong>(array&lt;Byte&gt;^, Int32, AsyncCallback^, Object^)(Byte[], Int32, AsyncCallback, Object)(Byte(), Int32, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to download the contents of a blob to a byte array.</td>
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**Namespace:**  Microsoft.WindowsAzure.Storage.Blob

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<td><strong>BeginDownloadToFile</strong> (String, FileMode, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object) (String^, FileMode, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object)</td>
<td>Begins an asynchronous operation to download the contents of a blob to a file.</td>
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<tr>
<td><strong>BeginDownloadToFile</strong> (String, FileMode, AsyncCallback, Object) (String^, FileMode, AsyncCallback^, Object^) (String, FileMode, AsyncCallback, Object) (String, FileMode, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to download the contents of a blob to a file.</td>
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<td>Begins an asynchronous operation to download the contents of a blob to a stream.</td>
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<tr>
<td><code>BeginDownloadToStream(Stream^, AsyncCallback^, Object^)</code>(Stream^, AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</td>
<td>Begins an asynchronous operation to download the contents of a blob to a stream.</td>
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<td><strong>BeginExists(AsyncCallback, Object)</strong>&lt;br&gt;<em>(AsyncCallback^, Object^)(AsyncCallback, Object)</em>&lt;br&gt;(AsyncCallback, Object)</td>
<td>Begins an asynchronous request to check existence of the blob.</td>
</tr>
<tr>
<td><strong>BeginExists(BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong>&lt;br&gt;<em>(BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)(BlobRequestOptions, OperationContext, AsyncCallback, Object)</em>&lt;br&gt;(BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous request to check existence of the blob.</td>
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<td><strong>BeginFetchAttributes(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong>(AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to populate the blob's properties and metadata.</td>
</tr>
<tr>
<td><strong>BeginFetchAttributes(AsyncCallback, Object)</strong>(AsyncCallback^, Object^)(AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to populate the blob's properties and metadata.</td>
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<td><code>BeginOpenRead(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)(AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</code></td>
<td>Begins an asynchronous operation to open a stream for reading from the blob.</td>
</tr>
<tr>
<td><code>BeginOpenRead(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</code></td>
<td>Begins an asynchronous operation to open a stream for reading from the blob.</td>
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<td><code>BeginReleaseLease(AccessCondition, AsyncCallback, Object)</code>(AccessCondition, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to release the lease on this blob.</td>
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<tr>
<td><code>BeginReleaseLease(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</code>(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to release the lease on this blob.</td>
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</table>
| **BeginRenewLease**<br>
(AccessCondition, AsyncCallback, Object)<br>(AccessCondition, AsyncCallback, Object)^<br>(AccessCondition, AsyncCallback, Object)<br>(AccessCondition, AsyncCallback, Object) | Begins an asynchronous operation to renew a lease on this blob. |
| **BeginRenewLease**<br>
(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)<br>(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)^<br>(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)<br>(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object) | Begins an asynchronous operation to renew a lease on this blob. |
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<td><strong>BeginSetMetadata(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to update the blob's metadata.</td>
</tr>
<tr>
<td><strong>BeginSetMetadata(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback^, Object^)</strong></td>
<td>Begins an asynchronous operation to update the blob's metadata.</td>
</tr>
<tr>
<td><strong>BeginSetMetadata(AsyncCallback^, Object^)</strong></td>
<td>Begins an asynchronous operation to update the blob's metadata.</td>
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<tr>
<td><strong>(AsyncCallback^, Object^)</strong>(AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to update the blob's metadata.</td>
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<tr>
<td><strong>BeginSetProperties</strong>(AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)<strong>(AccessCondition^, BlobRequestOptions^, OperationContext^, AsyncCallback^, Object^)</strong></td>
<td>Begins an asynchronous operation to update the blob properties.</td>
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<tr>
<td><strong>BeginSetProperties</strong>(AsyncCallback, Object)<strong>(AsyncCallback^, Object^)</strong></td>
<td>Begins an asynchronous operation to update the blob properties.</td>
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<td><strong>BeginUploadFromByteArray(Byte[], Int32, Int32, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to upload the contents of a byte array to a blob.</td>
</tr>
<tr>
<td><strong>BeginUploadFromByteArray(Byte[], Int32, Int32, AsyncCallback, Object)</strong></td>
<td>Begins an asynchronous operation to upload the contents of a byte array to a blob.</td>
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<td>BeginUploadFromFile(String, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)(String, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to upload a file to a blob.</td>
</tr>
<tr>
<td>BeginUploadFromFile(String, AsyncCallback, Object)(String, AsyncCallback, Object)(String, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to upload a file to a blob.</td>
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<td>Begins an asynchronous operation to upload a stream to a blob.</td>
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<tr>
<td>BeginUploadFromStream(Stream, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to upload a stream to a blob.</td>
</tr>
<tr>
<td>BeginUploadFromStream(Stream, Int64, AccessCondition, BlobRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>Begins an asynchronous operation to upload a stream to a blob.</td>
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<td><strong>BreakLeaseAsync</strong>&lt;br&gt;(Nullable&lt;TimeSpan&gt;)&lt;br&gt;(Nullable&lt;TimeSpan&gt;)&lt;br&gt;(Nullable&lt;TimeSpan&gt;)</td>
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<tr>
<td><strong>BreakLeaseAsync</strong>&lt;br&gt;(Nullable&lt;TimeSpan&gt;, AccessCondition, BlobRequestOptions, OperationContext)&lt;br&gt;(Nullable&lt;TimeSpan&gt;, AccessCondition^, BlobRequestOptions^, OperationContext^)</td>
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<tr>
<td><strong>BreakLeaseAsync</strong>&lt;br&gt;(Nullable&lt;TimeSpan&gt;, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)&lt;br&gt;(Nullable&lt;TimeSpan&gt;, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</td>
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<tr>
<td><code>ChangeLeaseAsync(String, AccessCondition)</code></td>
<td>Initiates an asynchronous operation to change the lease on this blob.</td>
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<tr>
<td><code>(String^, AccessCondition^)</code></td>
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</tr>
<tr>
<td><code>ChangeLeaseAsync(String, AccessCondition, BlobRequestOptions, OperationContext)</code></td>
<td>Initiates an asynchronous operation to change the lease on this blob.</td>
</tr>
<tr>
<td><code>(String^, AccessCondition^, BlobRequestOptions^, OperationContext^)</code></td>
<td></td>
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<tr>
<td><code>ChangeLeaseAsync(String, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</code></td>
<td>Initiates an asynchronous operation to change the lease on this blob.</td>
</tr>
<tr>
<td><code>(String^, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken^)</code></td>
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<td><strong>DeleteAsync(DeleteSnapshotsOption, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</strong></td>
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<tr>
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<tr>
<td>DeleteIfExistsAsync(DeleteSnapshotsOption, AccessCondition, BlobRequestOptions, OperationContext)()()()</td>
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<td>DeleteIfExistsAsync(DeleteSnapshotsOption, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)()()()</td>
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<tr>
<td>DownloadRangeToByteArrayAsync(Byte[], Int32, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;)</td>
<td>Initiates an asynchronous operation to download a range of bytes from a blob to byte array.</td>
</tr>
<tr>
<td>DownloadRangeToByteArrayAsync(Byte[], Int32, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext)</td>
<td>Initiates an asynchronous operation to download a range of bytes from a blob to byte array.</td>
</tr>
<tr>
<td>DownloadRangeToByteArrayAsync(Byte[], Int32, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</td>
<td>Initiates an asynchronous operation to download a range of bytes from a blob to byte array.</td>
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<td><code>DownloadRangeToStreamAsync(Stream, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;)(Stream^, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;)(Stream, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;)(Stream, Nullable(Of Int64), Nullable(Of Int64))</code></td>
<td>Initiates an asynchronous operation to download a range of bytes from a blob to stream.</td>
</tr>
<tr>
<td><code>DownloadRangeToStreamAsync(Stream, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext)(Stream^, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AccessCondition^, BlobRequestOptions^, OperationContext^)(Stream, Nullable(Of Int64), Nullable(Of Int64), AccessCondition, BlobRequestOptions, OperationContext)</code></td>
<td>Initiates an asynchronous operation to download a range of bytes from a blob to stream.</td>
</tr>
<tr>
<td><code>DownloadRangeToStreamAsync(Stream, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(Stream^, Nullable&lt;Int64&gt;, Nullable&lt;Int64&gt;, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)</code></td>
<td>Initiates an asynchronous operation to download a range of bytes from a blob to stream.</td>
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</table>
| **DownloadToByteArrayAsync(Byte[], Int32)**  
(аяр<Byte>^, Int32)(Byte[], Int32)(Byte(), Int32) | Initiates an asynchronous operation to download the contents of a blob to a byte array. |
| **DownloadToByteArrayAsync(Byte[], Int32, AccessCondition, BlobRequestOptions, OperationContext)**  
(array<Byte>^, Int32, AccessCondition^, BlobRequestOptions^, OperationContext^)(Byte[], Int32, AccessCondition, BlobRequestOptions, OperationContext) | Initiates an asynchronous operation to download the contents of a blob to a byte array. |
| **DownloadToByteArrayAsync(Byte[], Int32, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)**  
(array<Byte>^, Int32, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)(Byte[], Int32, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken) | Initiates an asynchronous operation to download the contents of a blob to a byte array. |
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**Namespace:** Microsoft.WindowsAzure.Storage.Blob

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<td>DownloadToFileAsync(String, FileMode)(String^, FileMode)(String, FileMode)</td>
<td>Initiates an asynchronous operation to download the contents of a blob to a file.</td>
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<tr>
<td>DownloadToFileAsync(String, FileMode, AccessCondition, BlobRequestOptions, OperationContext)(String^, FileMode, AccessCondition^, BlobRequestOptions^, OperationContext)</td>
<td>Initiates an asynchronous operation to download the contents of a blob to a file.</td>
</tr>
<tr>
<td>DownloadToFileAsync(String, FileMode, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(String^, FileMode, AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)(String, FileMode, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</td>
<td>Initiates an asynchronous operation to download the contents of a blob to a file.</td>
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<td>DownloadToStreamAsync(Stream)(Stream^)(Stream)</td>
<td>Initiates an asynchronous operation to download the contents of a blob to a stream.</td>
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<tr>
<td>DownloadToStreamAsync(Stream, AccessCondition, BlobRequestOptions, OperationContext)(Stream^, AccessCondition^, BlobRequestOptions^, OperationContext^)</td>
<td>Initiates an asynchronous operation to download the contents of a blob to a stream.</td>
</tr>
<tr>
<td>DownloadToStreamAsync(Stream, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</td>
<td>Initiates an asynchronous operation to download the contents of a blob to a stream.</td>
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<tr>
<td>DownloadToStreamAsync(Stream, AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</td>
<td>Initiates an asynchronous operation to download the contents of a blob to a stream.</td>
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<td>GetSharedAccessSignature(SharedAccessBlobPolicy, SharedAccessBlobHeaders, String, Nullable&lt;SharedAccessProtocol&gt;, IPAddressOrRange)</td>
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<td>OpenReadAsync(AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</td>
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<tr>
<td>OpenReadAsync(AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken^)(AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</td>
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<td><strong>RenewLeaseAsync(AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)(AccessCondition^, BlobRequestOptions^, OperationContext^, CancellationToken)</strong></td>
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<tr>
<td><strong>RenewLeaseAsync(AccessCondition, BlobRequestOptions, OperationContext, CancellationToken)</strong></td>
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<td>![UploadFromFileAsync](String, <em>AccessCondition</em>, BlobRequestOptions, OperationContext)(String^, _AccessCondition^, BlobRequestOptions^, OperationContext)</td>
<td>Initiates an asynchronous operation to upload a file to a blob.</td>
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<td>![UploadFromFileAsync](String, <em>AccessCondition</em>, BlobRequestOptions, OperationContext, CancellationToken)(String^, _AccessCondition^, BlobRequestOptions^, OperationContext)</td>
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<td>![UploadFromFileAsync](String, <em>AccessCondition</em>, BlobRequestOptions, OperationContext, CancellationToken)(String, <em>AccessCondition</em>, BlobRequestOptions, OperationContext, CancellationToken)</td>
<td>Initiates an asynchronous operation to upload a file to a blob.</td>
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<tr>
<td>UploadFromStreamAsync(Stream)</td>
<td>Initiates an asynchronous operation to upload a stream to a blob.</td>
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<tr>
<td>UploadFromStreamAsync(Stream, AccessCondition, BlobRequestOptions, OperationContext)</td>
<td>(Stream^, AccessCondition^, BlobRequestOptions^, OperationContext)</td>
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<td></td>
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<tr>
<td>UploadFromStreamAsync(Stream, CancellationToken)</td>
<td>(Stream^, CancellationToken)</td>
<td></td>
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<tr>
<td>UploadFromStreamAsync(Stream, CancellationToken)</td>
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See Also

ICloudBlob Interface

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CloudStorageAccount Constructor
(StorageCredentials, Boolean)
(StorageCredentials^, Boolean)(StorageCredentials, Boolean)

See Also
Initializes a new instance of the `CloudStorageAccount` class using the specified credentials, and specifies whether to use HTTP or HTTPS to connect to the storage services.

**Namespace:**  [Microsoft.WindowsAzure.Storage](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public CloudStorageAccount(
    StorageCredentials storageCredentials,
    bool useHttps
)
```

C++  
```cpp
public:
CloudStorageAccount(
    StorageCredentials^ storageCredentials,
    bool useHttps
)
```

F#  
```fsharp
new :
    storageCredentials:StorageCredentials
    useHttps:bool -> CloudStorageAccount
```

VB  
```vbnet
Public Sub New (  
    storageCredentials As StorageCredentials,  
    useHttps As Boolean  
)
```

Parameters

`storageCredentials`
Remarks

Using HTTPS to connect to the storage services is recommended.
See Also

CloudStorageAccount_Overload
CloudStorageAccount Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
CloudStorageAccount Constructor

(StorageCredentials, StorageUri, StorageUri, StorageUri, StorageUri)
(StorageCredentials^, StorageUri^, StorageUri^, StorageUri^, StorageUri^)
(StorageCredentials, StorageUri, StorageUri, StorageUri, StorageUri)
(StorageCredentials, StorageUri, StorageUri, StorageUri, StorageUri)

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

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://github.com/Azure/azure-storage-dotnet)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public CloudStorageAccount(
    StorageCredentials storageCredentials,
    StorageUri blobStorageUri,
    StorageUri queueStorageUri,
    StorageUri tableStorageUri,
    StorageUri fileStorageUri
)
```

C++  

```cpp
public:
CloudStorageAccount(
    StorageCredentials^ storageCredentials,
    StorageUri^ blobStorageUri,
    StorageUri^ queueStorageUri,
    StorageUri^ tableStorageUri,
    StorageUri^ fileStorageUri
)
```

F#  

```fsharp
new :
    storageCredentials:StorageCredentials
    blobStorageUri:StorageUri *
    queueStorageUri:StorageUri *
    tableStorageUri:StorageUri *
    fileStorageUri:StorageUri -> CloudStor
```

VB  

```vb
Public Sub New(    storageCredentials As StorageCredentials,    blobStorageUri As StorageUri,
    queueStorageUri As StorageUri,    tableStorageUri As StorageUri,    fileStorageUri As StorageUri)
```
See Also

CloudStorageAccount_Overload
CloudStorageAccount Class
Microsoft.WindowsAzure.Storage Namespace

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<td>(StorageCredentials, String, Boolean)</td>
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See Also
Initializes a new instance of the `CloudStorageAccount` class using the specified credentials and endpoint suffix, and specifies whether to use HTTP or HTTPS to connect to the storage services.

**Namespace:**  Microsoft.WindowsAzure.Storage  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**
```csharp
public CloudStorageAccount(
    StorageCredentials storageCredentials, 
    string endpointSuffix, 
    bool useHttps
)
```

**C++**
```cpp
public:
CloudStorageAccount(
    StorageCredentials* storageCredentials,
    String* endpointSuffix,
    bool useHttps
)
```

**F#**
```fsharp
new :
    storageCredentials:StorageCredentials *
    endpointSuffix:string *
    useHttps:bool -> CloudStorageAccount
```

**VB**
```vbnet
Public Sub New ( 
    storageCredentials As StorageCredentials, 
    endpointSuffix As String, 
    useHttps As Boolean 
)
```
Remarks

Using HTTPS to connect to the storage services is recommended.
See Also

CloudStorageAccount_Overload
CloudStorageAccount Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
CloudStorageAccount Constructor

(StorageCredentials, String, String, Boolean)
(StorageCredentials^, String^, String^, Boolean)
(StorageCredentials, String, String, Boolean)
(StorageCredentials, String, String, Boolean)

See Also
Initializes a new instance of the `CloudStorageAccount` class using the specified credentials and endpoint suffix, and specifies whether to use HTTP or HTTPS to connect to the storage services.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
public CloudStorageAccount(
    StorageCredentials storageCredentials,
    string accountName,
    string endpointSuffix,
    bool useHttps
)
```

**C++**

```cpp
public:
CloudStorageAccount(
    StorageCredentials^ storageCredentials,
    String^ accountName,
    String^ endpointSuffix,
    bool useHttps
)
```

**F#**

```fsharp
ew :
    storageCredentials:StorageCredentials
    accountName:string *
    endpointSuffix:string *
    useHttps:bool -> CloudStorageAccount
```

**VB**

```vbnet
Public Sub New (
    storageCredentials As StorageCredentials,
    accountName As String,
```
Remarks

Using HTTPS to connect to the storage services is recommended.
See Also

CloudStorageAccount_Overload
CloudStorageAccount Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
CloudStorageAccount Constructor

(StorageCredentials, Uri, Uri, Uri, Uri)
(StorageCredentials^, Uri^, Uri^, Uri^, Uri^)
(StorageCredentials, Uri, Uri, Uri, Uri)
(StorageCredentials, Uri, Uri, Uri, Uri)

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

**Namespace:**  Microsoft.WindowsAzure.Storage  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  Copy Code
public CloudStorageAccount(
    StorageCredentials storageCredentials,
    Uri blobEndpoint,
    Uri queueEndpoint,
    Uri tableEndpoint,
    Uri fileEndpoint
)

C++  Copy Code
public:
CloudStorageAccount(
    StorageCredentials^ storageCredentials,
    Uri^ blobEndpoint,
    Uri^ queueEndpoint,
    Uri^ tableEndpoint,
    Uri^ fileEndpoint
)

F#  Copy Code
new :
    storageCredentials:StorageCredentials
    blobEndpoint:Uri *
    queueEndpoint:Uri *
    tableEndpoint:Uri *
    fileEndpoint:Uri  ->  CloudStorageAccount

VB  Copy Code
Public Sub New(
    storageCredentials As StorageCredentials,
    blobEndpoint As Uri,
    queueEndpoint As Uri,
    tableEndpoint As Uri,
    fileEndpoint As Uri
)
See Also

CloudStorageAccount_Overload
CloudStorageAccount Class
Microsoft.WindowsAzure.Storage Namespace

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<td>CloudStorageAccount.BlobEndpoint Property</td>
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Gets the primary endpoint for the Blob service, as configured for the storage account.

**Namespace:**  Microsoft.WindowsAzure.Storage
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

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

C++

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

F#

```fsharp
member BlobEndpoint : Uri with get
```

VB

```vbnet
Public ReadOnly Property BlobEndpoint As Uri
```

Property Value

Type: `System.Uri`<br>System::Uri<br>`System.Uri`<br>A Uri containing the primary Blob service endpoint.
See Also

CloudStorageAccount Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
See Also
Gets the endpoints for the Blob service at the primary and secondary location as configured for the storage account.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```plaintext
public StorageUri BlobStorageUri { get; private set; }
```

C++

```plaintext
public:
    property StorageUri^ BlobStorageUri {
        StorageUri^ get();
        private: void set(StorageUri^ value);
    }
```

F#

```plaintext
member BlobStorageUri : StorageUri with get, private set
```

VB

```plaintext
Public Property BlobStorageUri As StorageUri
    Get
    Private Set
End Property
```

Property Value

Type:


A `StorageUri` containing the Blob service endpoints.
See Also

CloudStorageAccount Class
Microsoft.WindowsAzure.Storage Namespace

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</table>
Gets the credentials used to create this CloudStorageAccount object.

**Namespace:**  Microsoft.WindowsAzure.Storage  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#
```csharp
public StorageCredentials Credentials { get; private set; }
```

C++
```cpp
public:
property StorageCredentials^ Credentials {
    StorageCredentials^ get();
    private: void set(StorageCredentials^ value);
}
```

F#
```fsharp
member Credentials : StorageCredentials with get
```

VB
```vbnet
Public Property Credentials As StorageCredentials
    Get
        Private Set
    End Property
```

Property Value

Type:
```csharp
```
A `StorageCredentials` object.
See Also

CloudStorageAccount Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
See Also
Gets a `CloudStorageAccount` object that references the well-known development storage account.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/framework/dataserialization/microsoft-windowsazure-storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public static CloudStorageAccount DevelopmentStorageAccount {
  get;
}
```

C++  
```cpp
public:
property CloudStorageAccount^ DevelopmentStorageAccount
  static CloudStorageAccount^ get();
}
```

F#  
```fsharp
static member DevelopmentStorageAccount : CloudStorageAccount
```

VB  
```vbnet
Public Shared ReadOnly Property DevelopmentStorageAccount
```

Property Value

Type:  


A `CloudStorageAccount` object representing the development storage account.
See Also

CloudStorageAccount Class
Microsoft.WindowsAzure.Storage Namespace

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<th>CloudStorageAccount.FileEndpoint Property</th>
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<td>CloudStorageAccount.FileEndpoint Property</td>
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See Also
Gets the primary endpoint for the File service, as configured for the storage account.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

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

**C++**

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

**F#**

```fsharp
member FileEndpoint : Uri with get
```

**VB**

```vbnet
Public Readonly Property FileEndpoint As Uri
```

### Property Value

Type: [System.Uri] [System::Uri] [System(Uri) System.Uri]

A Uri containing the primary File service endpoint.
See Also

CloudStorageAccount Class
Microsoft.WindowsAzure.Storage Namespace

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<th>CloudStorageAccount.FileStorageUri Property</th>
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<td>CloudStorageAccount::FileStorageUri Property</td>
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<td>CloudStorageAccount.FileStorageUri Property</td>
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</tbody>
</table>
Gets the endpoints for the File service at the primary and secondary location, as configured for the storage account.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public StorageUri FileStorageUri { get; private }
```

C++  

```cpp
public:
property StorageUri^ FileStorageUri {
    StorageUri^ get();
    private: void set(StorageUri^ value);
}
```

F#  

```fsharp
member FileStorageUri : StorageUri with get, private
```

VB  

```vbnet
Public Property FileStorageUri As StorageUri
    Get
    Private Set
End Property
```

Property Value

Type:  

`Microsoft.WindowsAzure.Storage.StorageUri`  

A `StorageUri` containing the File service endpoints.
See Also

CloudStorageAccount Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
CloudStorageAccount.QueueEndpoint Property

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

**Namespace:** Microsoft.WindowsAzure.Storage

**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

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

**C++**

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

**F#**

```fsharp
member QueueEndpoint : Uri with get
```

**VB**

```vb
Public ReadOnly Property QueueEndpoint As Uri
```

**Property Value**

Type: `System.Uri`<br>
A Uri containing the primary Queue service endpoint.
See Also

CloudStorageAccount Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
CloudStorageAccount.QueueStorageUri  
Property

See Also
Gets the endpoints for the Queue service at the primary and secondary location, as configured for the storage account.

**Namespace:**  [Microsoft.WindowsAzure.Storage](#)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public StorageUri QueueStorageUri { get; private }
```

C++  

```cpp
public:

property StorageUri^ QueueStorageUri {
    StorageUri^ get();
    private: void set(StorageUri^ value);
}
```

F#  

```fsharp
member QueueStorageUri : StorageUri with get, p
```

VB  

```vb
Public Property QueueStorageUri As StorageUri

Get

Private Set

End Property
```

Property Value

Type:  

`Microsoft.WindowsAzure.Storage.StorageUri`  

A `StorageUri` containing the Queue service endpoints.
See Also

CloudStorageAccount Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
CloudStorageAccount.TableEndpoint Property

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

**Namespace:** Microsoft.WindowsAzure.Storage  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

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

C++

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

F#

```fsharp
member TableEndpoint : Uri with get
```

VB

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

Property Value

Type: System.Uri System::Uri System.Uri

A Uri containing the primary Table service endpoint.
See Also

CloudStorageAccount Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
CloudStorageAccount::TableStorageUri Property

See Also
Gets the endpoints for the Table service at the primary and secondary
location, as configured for the storage account.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public StorageUri TableStorageUri { get; private }
```

C++  
```cpp
public:
property StorageUri^ TableStorageUri {
    StorageUri^ get();
    private: void set(StorageUri^ value);
}
```

F#  
```fsharp
member TableStorageUri : StorageUri with get, p
```

VB  
```vbnet
Public Property TableStorageUri As StorageUri
    Get
    Private Set
End Property
```

Property Value

Type:  
```csharp
Microsoft.WindowsAzure.Storage.StorageUri
```
A `StorageUri` containing the Table service endpoints.
See Also

CloudStorageAccount Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
CloudStorageAccount..CreateCloudAnalyticsClient Method ()

See Also
Creates an analytics client.

**Namespace:**  [Microsoft.WindowsAzure.Storage](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public CloudAnalyticsClient CreateCloudAnalyticsClient()
```

C++
```cpp
public:
CloudAnalyticsClient^ CreateCloudAnalyticsClient()
```

F#
```fsharp
member CreateCloudAnalyticsClient : unit -> CloudAnalyticsClient
```

VB
```vbnet
Public Function CreateCloudAnalyticsClient As CloudAnalyticsClient
```

Return Value

Type:
```csharp
```

A `CloudAnalyticsClient` object.
See Also

CloudStorageAccount Class
Microsoft.WindowsAzure.Storage Namespace

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See Also
Creates the Blob service client.

**Namespace:** Microsoft.WindowsAzure.Storage  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

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<td>C#</td>
<td><code>public CloudBlobClient CreateCloudBlobClient()</code></td>
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<tr>
<td>C++</td>
<td><code>public: CloudBlobClient^ CreateCloudBlobClient()</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>member CreateCloudBlobClient : unit -&gt; CloudBlobClient</code></td>
</tr>
<tr>
<td>VB</td>
<td><code>Public Function CreateCloudBlobClient As CloudBlobClient</code></td>
</tr>
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</table>

### Return Value

Type:


A `CloudBlobClient` object.
See Also

CloudStorageAccount Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
See Also
Creates the File service client.

**Namespace:**  Microsoft.WindowsAzure.Storage  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public CloudFileClient CreateCloudFileClient()
```

C++

```cpp
public:
CloudFileClient^ CreateCloudFileClient()
```

F#

```fsharp
member CreateCloudFileClient : unit -> CloudFileClient
```

VB

```vbnet
Public Function CreateCloudFileClient As CloudFileClient
```

Return Value

Type:  


A client object that specifies the File service endpoint.
See Also

CloudStorageAccount Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
CloudStorageAccount.::.CreateCloudQueueClient Method ()()()

See Also
Creates the Queue service client.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public CloudQueueClient CreateCloudQueueClient()
```

C++

```cpp
public:

CloudQueueClient^ CreateCloudQueueClient()
```

F#

```fsharp
member CreateCloudQueueClient : unit -> CloudQueueClient
```

VB

```vbnet
Public Function CreateCloudQueueClient As CloudQueueClient
```

Return Value

Type:

See Also

CloudStorageAccount Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
CloudStorageAccount::CreateCloudTableClient Method

See Also
Creates the Table service client.

**Namespace:**  Microsoft.WindowsAzure.Storage  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public CloudTableClient CreateCloudTableClient()
```

C++  
```cpp
public:
CloudTableClient^ CreateCloudTableClient()
```

F#  
```fsharp
member CreateCloudTableClient : unit -> CloudTableClient
```

VB  
```vbnet
Public Function CreateCloudTableClient As CloudTableClient
```

**Return Value**

Type:  

A `CloudTableClient` object.
See Also

CloudStorageAccount Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
CloudStorageAccount.:::GetSharedAccessSignature  
Method (SharedAccessAccountPolicy)  
(SharedAccessAccountPolicy^)(SharedAccessAccountPolicy)  
(SharedAccessAccountPolicy)  
See Also
Returns a shared access signature for the account.

**Namespace:**  [Microsoft.WindowsAzure.Storage](#)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public string GetSharedAccessSignature(
    SharedAccessAccountPolicy policy
)
```

C++  
```cpp
public:
String^ GetSharedAccessSignature(
    SharedAccessAccountPolicy^ policy
)
```

F#  
```fsharp
member GetSharedAccessSignature :
    policy:SharedAccessAccountPolicy -> string
```

VB  
```vbnet
Public Function GetSharedAccessSignature ( 
    policy As SharedAccessAccountPolicy
) As String
```

Parameters

policy  
Type:  

A `SharedAccessAccountPolicy` object specifying the access policy for the shared access signature.
Remarks

The query string returned includes the leading question mark.
See Also

- CloudStorageAccount Class
- Microsoft.WindowsAzure.Storage Namespace

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</table>

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

**Namespace:**  Microsoft.WindowsAzure.Storage  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

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

C++

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

F#

```fsharp
static member Parse :
    connectionString:string -> CloudStorageAccount
```

VB

```vb
Public Shared Function Parse ( 
    connectionString As String 
) As CloudStorageAccount
```

Parameters

`connectionString`
Type: `System.StringSystem::String^System.StringSystem.String`  
A valid connection string.
### Exceptions

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<td>Thrown if connectionString is null or empty.</td>
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<td>FormatException</td>
<td>Thrown if connectionString is not a valid connection string.</td>
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<td>ArgumentException</td>
<td>Thrown if connectionString cannot be parsed.</td>
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</table>
See Also

CloudStorageAccount Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
CloudStorageAccount::ToString Method

See Also
Returns a connection string for this storage account, without sensitive data.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public override string ToString()
```

C++  
```cpp
public:
virtual String^ ToString() override
```

F#  
```fsharp
override ToString : unit -> string
```

VB  
```vbnet
Public Overrides Function ToString As String
```

Return Value

Type: `System.String`  
A connection string.
See Also

**ToString Overload**

**CloudStorageAccount Class**

**Microsoft.WindowsAzure.Storage Namespace**

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CloudStorageAccount...ToString Method (Boolean) C# C++ F# VB (Boolean) (Boolean) (Boolean)

See Also
Returns a connection string for the storage account, optionally with sensitive data.

Namespace:  Microsoft.WindowsAzure.Storage
Syntax

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

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

F#  
```
member ToString :
    exportSecrets:bool -> string
```

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

Parameters

*exportSecrets*  
Type: [System.Boolean](https://docs.microsoft.com/en-us/dotnet/api/system.boolean)  
True to include sensitive data in the string; otherwise, false.
See Also

ToString Overload
CloudStorageAccount Class
Microsoft.WindowsAzure.Storage Namespace

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CloudStorageAccount::...TryParse Method (String, CloudStorageAccount)(String^, CloudStorageAccount^ %)(String, CloudStorageAccount)

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

**Namespace:**  Microsoft.WindowsAzure.Storage
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

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

C++

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

F#

```fsharp
static member TryParse :
    connectionString:string *
    account:CloudStorageAccount byref -> bool
```

VB

```vb
Public Shared Function TryParse ( connectionString As String,
    <OutAttribute> ByVal account As CloudStorageAccount
) As Boolean
```

Parameters

`connectionString`
See Also

CloudStorageAccount Class
Microsoft.WindowsAzure.Storage Namespace

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DoesServiceRequestAttribute Constructor ()

See Also
Namespace:  Microsoft.WindowsAzure.Storage
## Syntax

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See Also

DoesServiceRequestAttribute Class
Microsoft.WindowsAzure.Storage Namespace

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See Also
Initializes a new instance of the IPAddressOrRange class from a single IPAddress.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://go.microsoft.com/fwlink/?LinkID=760274)
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public IPAddressOrRange(
    string address
)
```

C++  
```cpp
public:
IPAddressOrRange(
    String^ address
)
```

F#  
```fsharp
new :
    address:string -> IPAddressOrRange
```

VB  
```vbnet
Public Sub New (  
    address As String
)
```

Parameters

*address*


The IP Address that the IPAddressOrRange object will represent.
See Also

IPAddressOrRange_Overload
IPAddressOrRange Class
Microsoft.WindowsAzure.Storage Namespace

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</tr>
<tr>
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See Also
Initializes a new instance of the IPAddressOrRange class from two IPAddress objects, a minimum and a maximum.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public IPAddressOrRange(
    string minimum,
    string maximum
)
```

C++

```cpp
public:
IPAddressOrRange(
    String^ minimum,
    String^ maximum
)
```

F#

```fsharp
new :
    minimum:string *
    maximum:string -> IPAddressOrRange
```

VB

```vbnet
Public Sub New (  
    minimum As String,
    maximum As String   
)
```

Parameters

minimum
See Also

IPAddressOrRange_Overload
IPAddressOrRange Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
IPAddressOrRange.Address Property

See Also
The IP Address. Returns null if this object represents a range of IP addresses.

**Namespace:**  [Microsoft.WindowsAzure.Storage](Microsoft.WindowsAzure.Storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

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<tr>
<td><strong>C#</strong></td>
<td><code>public string Address { get; private set; }</code></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><code>public: property String^ Address { String^ get(); private: void set(String^ value); }</code></td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td><code>member Address : string with get, private set</code></td>
</tr>
<tr>
<td><strong>VB</strong></td>
<td><code>Public Property Address As String Get Private Set End Property</code></td>
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### Property Value

Type: System.String System::String ^ System.String System.String
See Also

IPAddressOrRange Class
Microsoft.WindowsAzure.Storage Namespace

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IPAddressOrRange.IsSingleAddress Property
See Also
True if this object represents a single IP Address, false if it represents a range


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public bool IsSingleAddress { get; private set; }

C++  
public:  
property bool IsSingleAddress {  
    bool get();  
    private: void set(bool value);  
}

F#  
member IsSingleAddress : bool with get, private

VB  
Public Property IsSingleAddress As Boolean  
Get  
Private Set  
End Property

Property Value

Type: System.Boolean
See Also

IPAddressOrRange Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
See Also
The maximum IP Address for the range, inclusive. Returns null if this object represents a single IP address.

Namespace: Microsoft.WindowsAzure.Storage
Syntax

C#  
```csharp
public string MaximumAddress { get; private set; }
```

C++  
```cpp
public:
property String^ MaximumAddress {
    String^ get();
    private: void set(String^ value);
}
```

F#  
```fsharp
member MaximumAddress : string with get, private
```

VB  
```vbnet
Public Property MaximumAddress As String
    Get
    Private Set
End Property
```

Property Value

Type: `System.String`
See Also

IPAddressOrRange Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
IPAddressOrRange.MinimumAddress Property
Seen Also
The minimum IP Address for the range, inclusive. Returns null if this object represents a single IP address.

Namespace:  Microsoft.WindowsAzure.Storage
Syntax

C#  
```csharp
public string MinimumAddress { get; private set; }
```

C++  
```cpp
public:
property String^ MinimumAddress {
    String^ get();
    private: void set(String^ value);
}
```

F#  
```fsharp
member MinimumAddress : string with get, private
```

VB  
```vbnet
Public Property MinimumAddress As String
    Get
    Private Set
End Property
```

Property Value

Type: System.String System::System::String System.String System.String System
See Also

IPAddressOrRange Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
IPAddressOrRange...ToString Method ()()()
Provides a string representation of this IPAddressOrRange object.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public override string ToString()

C++  
public: 
virtual String^ ToString() override

F#  
override ToString : unit -> string

VB  
Public Overrides Function ToString As String

Return Value

Type: System.String
System::String
System.String
System.String

The string representation of this IPAddressOrRange object.
See Also

IPAddressOrRange Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
NameValidator..::..ValidateBlobName Method (String)(String^)(String)(String)

See Also
Checks if a blob name is valid.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

<table>
<thead>
<tr>
<th>C#</th>
<th>Copy Code</th>
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</thead>
</table>
| public static void ValidateBlobName(  
  string blobName  
) |          |

<table>
<thead>
<tr>
<th>C++</th>
<th>Copy Code</th>
</tr>
</thead>
</table>
| public:  
static void ValidateBlobName(  
  String^ blobName  
) |          |

<table>
<thead>
<tr>
<th>F#</th>
<th>Copy Code</th>
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</thead>
</table>
| static member ValidateBlobName :  
  blobName:string -> unit |          |

<table>
<thead>
<tr>
<th>VB</th>
<th>Copy Code</th>
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</thead>
</table>
| Public Shared Sub ValidateBlobName (  
  blobName As String  
) |          |

**Parameters**

*blobName*

Type: System.StringSystem::String^System.StringSystem.String

A string representing the blob name to validate.
See Also

NameValidator Class
Microsoft.WindowsAzure.Storage Namespace

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<td>(String)(String^)(String)(String)</td>
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See Also
Checks if a container name is valid.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
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</table>
| **C#**   | ```
public static void ValidateContainerName(
    string containerName
)
``` |
| **C++**  | ```
public:
static void ValidateContainerName(
    String^ containerName
)
``` |
| **F#**   | ```
static member ValidateContainerName :
    containerName:string -> unit
``` |
| **VB**   | ```
Public Shared Sub ValidateContainerName (    containerName As String
) ``` |

### Parameters

- **containerName**
  
  Type: `System.String`<br>
  `System::String`<br>
  `System.String`<br>
  `System.String`<br>
  `System.String`<br>

  A string representing the container name to validate.
See Also

NameValidator Class
Microsoft.WindowsAzure.Storage Namespace

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<td>(String)(String^)(String)(String)</td>
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See Also
Checks if a directory name is valid.

**Namespace:**  [Microsoft.WindowsAzure.Storage](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public static void ValidateDirectoryName(
    string directoryName
)
```

C++  
```cpp
public:
static void ValidateDirectoryName(
    String^ directoryName
)
```

F#  
```fsharp
static member ValidateDirectoryName :
    directoryName:string -> unit
```

VB  
```vb
Public Shared Sub ValidateDirectoryName (  
    directoryName As String
)
```

Parameters

`directoryName`  
Type: `System.String`  
A string representing the directory name to validate.
See Also

NameValidator Class
Microsoft.WindowsAzure.Storage Namespace

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<th>NameValidator.:..ValidateFileName Method</th>
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See Also
Checks if a file name is valid.

**Namespace:** Microsoft.WindowsAzure.Storage  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
public static void ValidateFileName(
    string fileName
)
```

**C++**

```cpp
public:
static void ValidateFileName(
    String^ fileName
)
```

**F#**

```fsharp
static member ValidateFileName :
    fileName:string -> unit
```

**VB**

```vb
Public Shared Sub ValidateFileName ( 
    fileName As String
)
```

**Parameters**

*fileName*

Type: `System.StringSystem::String^System.StringSystem.String`  

A string representing the file name to validate.
See Also

NameValidator Class
Microsoft.WindowsAzure.Storage Namespace

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NameValidator:::ValidateQueueName Method

See Also
Checks if a queue name is valid.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public static void ValidateQueueName(
    string queueName
)
```

C++
```cpp
public:
static void ValidateQueueName(
    String^ queueName
)
```

F#
```fsharp
static member ValidateQueueName :
    queueName:string -> unit
```

VB
```vbnet
Public Shared Sub ValidateQueueName (  
    queueName As String
)
```

Parameters

queueName  
Type: `System.String`  
A string representing the queue name to validate.
See Also

NameValidator Class
Microsoft.WindowsAzure.Storage Namespace

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NameValidator:::ValidateShareName Method
(String)(String^)(String)(String)

See Also
Checks if a share name is valid.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

**C#**

```csharp
public static void ValidateShareName(
    string shareName
)
```

**C++**

```cpp
public:
static void ValidateShareName(
    String^ shareName
)
```

**F#**

```fsharp
static member ValidateShareName :
    shareName:string -> unit
```

**VB**

```vbnet
Public Shared Sub ValidateShareName (  
    shareName As String
)
```

### Parameters

- **shareName**
  - Type: `System.String`;
  - `System::String`;
  - `System.String`;
  - `System.String`
  
  A string representing the share name to validate.
See Also

NameValidator Class
Microsoft.WindowsAzure.Storage Namespace

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Checks if a table name is valid.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://github.com/MicrosoftDocs/Microsoft.WindowsAzure.Storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public static void ValidateTableName(
    string tableName
)
```

C++

```cpp
public:
static void ValidateTableName(
    String^ tableName
)
```

F#

```fsharp
static member ValidateTableName :
    tableName:string -> unit
```

VB

```vb
Public Shared Sub ValidateTableName ( 
    tableName As String
)
```

Parameters

`tableName`

Type: `System.String`\^`System.String`\^`System.String`\^`System.String`\^`System.String`

A string representing the table name to validate.
See Also

NameValidator Class
Microsoft.WindowsAzure.Storage Namespace

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See Also
Initializes a new instance of the `OperationContext` class.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

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<td>C++</td>
<td><code>public: OperationContext()</code></td>
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<td>F#</td>
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<td>OperationContext::ClientRequestID Property</td>
<td>OperationContext.ClientRequestID Property</td>
<td>See Also</td>
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</table>
Gets or sets the client request ID.

**Namespace:**  Microsoft.WindowsAzure.Storage  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public string ClientRequestID { get; set; }

C++  
public:  
property String^ ClientRequestID {  
    String^ get();  
    void set(String^ value);  
}

F#  
member ClientRequestID : string with get, set

VB  
Public Property ClientRequestID As String

Property Value

Type: System.String
A string containing the client request ID.
See Also

OperationContext Class
Microsoft.WindowsAzure.Storage Namespace

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<th>Method/Property</th>
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<tr>
<td>VB</td>
<td>OperationContext.DefaultLogLevel Property</td>
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</table>

See Also
Gets or sets the default logging level to be used for subsequently created instances of the OperationContext class.

**Namespace:**  Microsoft.WindowsAzure.Storage  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public static LogLevel DefaultLogLevel { get; set; }
```

C++  
```cpp
public:
property LogLevel DefaultLogLevel {
    static LogLevel get();
    static void set(LogLevel value);
}
```

F#  
```fsharp
static member DefaultLogLevel : LogLevel with get,
```

VB  
```vbnet
Public Shared Property DefaultLogLevel As LogLevel
```

Property Value

Type:  
`Microsoft.WindowsAzure.Storage.LogLevel`  
A value of type `LogLevel LogLevel LogLevel LogLevel LogLevel` that specifies which events are logged by default by instances of the `OperationContext`.
See Also

OperationContext Class
Microsoft.WindowsAzure.Storage Namespace

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<td>OperationContext.EndTime Property</td>
<td>C#</td>
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</tbody>
</table>

See Also
Gets or sets the end time of the operation.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public DateTime EndTime { get; set; }
```

C++

```cpp
public:
property DateTime EndTime {
    DateTime get();
    void set(DateTime value);
}
```

F#

```fsharp
member EndTime : DateTime with get, set
```

VB

```vbnet
Public Property EndTime As Date
```

Property Value

Type: `System.DateTime`

A DateTime value indicating the end time of the operation.
See Also

OperationContext Class
Microsoft.WindowsAzure.Storage Namespace

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OperationContext.LastResult
Property
OperationContext::LastResult
Property
OperationContext.LastResult Property
See Also
Gets the last request result encountered for the operation.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public RequestResult LastResult { get; }

C++  
public:
    property RequestResult^ LastResult { 
        RequestResult^ get();
    }

F#  
member LastResult : RequestResult with get

VB  
Public ReadOnly Property LastResult As RequestResult

Property Value

Type:
Microsoft.WindowsAzure.Storage.RequestResult

A RequestResult object that represents the last request result.
See Also

OperationContext Class
Microsoft.WindowsAzure.Storage Namespace

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<tr>
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<td><code>OperationContext.LogLevel</code> Property</td>
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</tbody>
</table>

See Also

`OperationContext.LogLevel` Property
Gets or sets the logging level to be used for an instance of the OperationContext class.

**Namespace:** Microsoft.WindowsAzure.Storage

**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**
```
public LogLevel LogLevel { get; set; }
```

**C++**
```
public:
property LogLevel LogLevel {
    LogLevel get();
    void set(LogLevel value);
}
```

**F#**
```
member LogLevel : LogLevel with get, set
```

**VB**
```
Public Property LogLevel As LogLevel
```

**Property Value**

*Type:*

*Microsoft.WindowsAzure.Storage.LogLevel* that specifies which events are logged by the *OperationContext*. 
See Also

OperationContext Class
Microsoft.Windows.Azure.Storage Namespace

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OperationContext.RequestResults
Property

OperationContext::RequestResults
Property

OperationContext.RequestResults Property

See Also
Gets or sets the set of request results that the current operation has created.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public IList<RequestResult> RequestResults { get; }
```

C++  
```cpp
public:
property IList<RequestResult^>^ RequestResults
    IList<RequestResult^>^ get();
```

F#  
```fsharp
member RequestResults : IList<RequestResult> with
```

VB  
```vbnet
Public Readonly Property RequestResults As IList<
```

Property Value

Type:

```
System.Collections.Generic.IList<
```

An IList object that contains RequestResult objects that represent the request results created by the current operation.
See Also

OperationContext Class
Microsoft.WindowsAzure.Storage Namespace

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</table>
Gets or sets the start time of the operation.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public DateTime StartTime { get; set; }
```

C++  
```cpp
public:
property DateTime StartTime {
    DateTime get();
    void set(DateTime value);
}
```

F#  
```fsharp
member StartTime : DateTime with get, set
```

VB  
```vbnet
Public Property StartTime As Date
```

Property Value

Type: `System.DateTime``

A `DateTime` value indicating the start time of the operation.
See Also

OperationContext Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
OperationContext.UserHeaders
Property

See Also
Gets or sets additional headers on the request, for example, for proxy or logging information.

**Namespace:**  [Microsoft.WindowsAzure.Storage](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

**C#**

```csharp
public IDictionary<string, string> UserHeaders
```

**C++**

```cpp
public:
    property IDictionary<String^, String^>^ UserHeaders
    {
        IDictionary<String^, String^>^ get();
        void set(IDictionary<String^, String^>^ value);
    }
```

**F#**

```fsharp
member UserHeaders : IDictionary<string, string>
```

**VB**

```vbnet
Public Property UserHeaders As IDictionary(Of String, String)
```

## Property Value

Type:

```csharp
System.Collections.Generic.IDictionary<String, String>
```

A IDictionary<TKey, TValue>(Of TKey, TValue) object containing additional header information.
See Also

OperationContext Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
OperationContext::GlobalRequestCompleted Event

See Also
Occurs after a response has been fully received and processed.

Namespace:  `Microsoft.WindowsAzure.Storage`
Syntax

C#  
```csharp
public static event EventHandler<RequestEventArgs> GlobalRequestCompleted;
```

C++  
```cpp
public:
    event EventHandler<RequestEventArgs^>^ GlobalRequestCompleted	{
        static void add(EventHandler<RequestEventArgs^>^ value);
        static void remove(EventHandler<RequestEventArgs^>^ value);
    }
```

F#  
```fsharp
static member GlobalRequestCompleted : IEvent<EventHandler<RequestEventArgs, RequestEventArgs>>
```

VB  
```vbnet
Public Shared Event GlobalRequestCompleted As EventHandler(Of RequestEventArgs)
```
See Also

- OperationContext Class
- Microsoft.WindowsAzure.Storage Namespace

Return to top
OperationContext::GlobalResponseReceived Event
See Also
Occurs when a response is received from the server, before any processing or downloading.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/framework/configure-apps转载到代码行)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public static event EventHandler<RequestEventArgs> GlobalResponseReceived;
```

C++

```cpp
public:
    event EventHandler<RequestEventArgs^>^ GlobalResponseReceived;
        static void add(EventHandler<RequestEventArgs^>^ value);
        static void remove(EventHandler<RequestEventArgs^>^ value);
```

F#

```fsharp
static member GlobalResponseReceived : IEvent<EventHandler<RequestEventArgs, RequestEventArgs>>
```

VB

```vb
Public Shared Event GlobalResponseReceived As EventHandler(<RequestEventArgs, RequestEventArgs>)
```
See Also

OperationContext Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
OperationContext:::GlobalRetrying Event

See Also
Occurs before a request is retried

**Namespace:**  [Microsoft.WindowsAzure.Storage](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public static event EventHandler<RequestEventArgs> GlobalRetrying
```

C++  
```cpp
public:
event EventHandler<RequestEventArgs^>^ GlobalRetrying
{
    static void add(EventHandler<RequestEventArgs^>^ value);
    static void remove(EventHandler<RequestEventArgs^>^ value);
}
```

F#  
```fsharp
static member GlobalRetrying : IEvent<EventHandler<RequestEventArgs, RequestEventArgs>>
```

VB  
```vbnet
Public Shared Event GlobalRetrying As EventHandler
```

See Also

OperationContext Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
OperationContext::GlobalSendingRequest Event

See Also
Occurs immediately before a request is signed.

**Namespace:**  [Microsoft.WindowsAzure.Storage](http://msdn.microsoft.com)

**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public static event EventHandler<RequestEventArgs> GlobalSendingRequest;
```

C++  
```cpp
public:
    event EventHandler<RequestEventArgs^>^ GlobalSendingRequest
    {
        static void add(EventHandler<RequestEventArgs^>^ value);
        static void remove(EventHandler<RequestEventArgs^>^ value);
    }
```

F#  
```fsharp
static member GlobalSendingRequest : IEvent<EventHandler<RequestEventArgs>, RequestEventArgs>
```

VB  
```vb
Public Shared Event GlobalSendingRequest As EventHandler<RequestEventArgs>
```
See Also

OperationContext Class  
Microsoft.WindowsAzure.Storage Namespace

Return to top
OperationContext::..RequestCompleted Event

See Also
Occurs after a response has been fully received and processed.

**Namespace:**  Microsoft.WindowsAzure.Storage  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public event EventHandler<RequestEventArgs> RequestCompleted;
```

C++

```cpp
public:

    event EventHandler<RequestEventArgs^>^ RequestCompleted
    {
        void add(EventHandler<RequestEventArgs^>^ value);
        void remove(EventHandler<RequestEventArgs^>^ value);
    }
```

F#

```fsharp
member RequestCompleted : IEvent<EventHandler<RequestEventArgs, RequestEventArgs>>
```

VB

```vbnet
Public Event RequestCompleted As EventHandler(Of RequestEventArgs)
```
See Also

OperationContext Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
OperationContext:::ResponseReceived Event

See Also
Occurs when a response is received from the service, before any processing or downloading.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public event EventHandler<RequestEventArgs> ResponseReceived;
```

C++  
```cpp
public:
    event EventHandler<RequestEventArgs>^ ResponseReceived
    {
        void add(EventHandler<RequestEventArgs>^ value);
        void remove(EventHandler<RequestEventArgs>^ value);
    }
```

F#  
```fsharp
member ResponseReceived : IEvent<EventHandler<RequestEventArgs, RequestEventArgs>>
```

VB  
```vbnet
Public Event ResponseReceived As EventHandler(Of RequestEventArgs)
```
See Also

OperationContext Class
Microsoft.WindowsAzure.Storage Namespace

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Occurs before a request is retried

Namespace:  Microsoft.WindowsAzure.Storage
Syntax

C#  
```csharp
public event EventHandler<RequestEventArgs> Retrying;
```

C++  
```cpp
public:
    event EventHandler<RequestEventArgs^>^ Retrying;
    void add(EventHandler<RequestEventArgs^>^ value);
    void remove(EventHandler<RequestEventArgs^>^ value);
```

F#  
```fsharp
member Retrying : IEvent<EventHandler<RequestEventArgs, RequestEventArgs>>
```

VB  
```vb
Public Event Retrying As EventHandler(Of RequestEventArgs)
```
See Also

- OperationContext Class
- Microsoft.WindowsAzure.Storage Namespace

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C#  C++  F#  VB
Occurs immediately before a request is signed.

**Namespace:** Microsoft.WindowsAzure.Storage  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public event EventHandler<RequestEventArgs> SendingRequest;
```

C++  
```cpp
public:
    event EventHandler<RequestEventArgs> SendingRequest;
    void add(EventHandler<RequestEventArgs> value);
    void remove(EventHandler<RequestEventArgs> value);
```

F#  
```fsharp
member SendingRequest : IEvent<EventHandler<RequestEventArgs>, RequestEventArgs>
```

VB  
```vbnet
Public Event SendingRequest As EventHandler(Of RequestEventArgs)
```
See Also

OperationContext Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
RequestEventArgs Constructor (RequestResult)
(RequestResult^)(RequestResult)(RequestResult)
See Also
Initializes a new instance of the `RequestEventArgs` class by using the specified `RequestResult` parameter.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public RequestEventArgs(
    RequestResult res
)
```

C++

```cpp
public:
RequestEventArgs(
    RequestResult* res
)
```

F#

```fsharp
new :
    res:RequestResult -> RequestEventArgs
```

VB

```vbnet
Public Sub New (
    res As RequestResult
)
```

Parameters

*res*

Type: [Microsoft.WindowsAzure.Storage.RequestResult](#)

The [RequestResult](#) object.
See Also

RequestEventArgs Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
RequestEventArgs::Request
Property
See Also
Gets the HTTP request associated with this event.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/system/net/webclient?view=netframework-4.7.2)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public HttpWebRequest Request { get; internal set; }
```

C++  
```cpp
public:
    property HttpWebRequest^ Request { 
        HttpWebRequest^ get();
        internal: void set(HttpWebRequest^ value);
    }
```

F#  
```fsharp
member Request : HttpWebRequest with get, internal
```

VB  
```vbnet
Public Property Request As HttpWebRequest
    Get
    Friend Set
End Property
```

Property Value

Type:  
```
System.Net.HttpWebRequest
```

The HTTP request associated with this event.
See Also

RequestEventArgs Class
Microsoft.WindowsAzure.Storage Namespace

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See Also
Gets the request information associated with this event.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public RequestResult RequestInformation { get; }
```

C++

```cpp
public:
property RequestResult^ RequestInformation { 
    RequestResult^ get(); 
    internal: void set(RequestResult^ value
 }
```

F#

```fsharp
member RequestInformation : RequestResult with
```

VB

```vbnet
Public Property RequestInformation As RequestResult
    Get
    Friend Set
End Property
```

Property Value

Type:

```csharp
Microsoft.WindowsAzure.Storage.RequestResult
```

The request information associated with this event.
See Also

RequestEventArgs Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
RequestEventArgs.Response

See Also
Gets the HTTP response associated with this event.

**Namespace:**  [Microsoft.WindowsAzure.Storage]

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public HttpWebResponse Response { get; internal set; }
```

C++  
```cpp
public:
property HttpWebResponse^ Response {
    HttpWebResponse^ get();
    internal: void set(HttpWebResponse^ val);
}
```

F#  
```fsharp
member Response : HttpWebResponse with get, internal set
```

VB  
```vbnet
Public Property Response As HttpWebResponse
    Get
    Friend Set
End Property
```

Property Value

Type:  

[System.Net](https://docs.microsoft.com/en-us/dotnet/api/system.net)\%

The HTTP response associated with this event.
See Also

RequestEventArgs Class
Microsoft.WindowsAzure.Storage Namespace

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See Also
Namespace: Microsoft.WindowsAzure.Storage
Syntax

C#  
```csharp
public RequestResult()
```

C++  
```cpp
public:
RequestResult()
```

F#  
```fsharp
new : unit -> RequestResult
```

VB  
```vbnet
Public Sub New
```
See Also

RequestResult Class
Microsoft.WindowsAzure.Storage Namespace

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*See Also*
Gets the content-MD5 value for the request.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/framework/basics/assembly-manifest-overview)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
public string ContentMd5 { get; internal set; }
```

**C++**

```cpp
public:
property String^ ContentMd5 {
   String^ get();
   internal: void set(String^ value);
}
```

**F#**

```fsharp
member ContentMd5 : string with get, internal set
```

**VB**

```vbnet
Public Property ContentMd5 As String
   Get
   Friend Set
End Property
```

**Property Value**

Type: `System.StringSystem::String^System.StringSystem.String`

The content-MD5 value for the request.
See Also

- RequestResult Class
- Microsoft.WindowsAzure.Storage Namespace

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</table>

See Also
The number of bytes written to the request body for a given request

Namespace:  Microsoft.WindowsAzure.Storage
**Syntax**

**C#**

```csharp
public long EgressBytes { get; set; }
```

**C++**

```cpp
public:
property long long EgressBytes {
    long long get();
    void set(long long value);
}
```

**F#**

```fsharp
member EgressBytes : int64 with get, set
```

**VB**

```vbnet
Public Property EgressBytes As Long
```

**Property Value**

Type: `System.Int64`
See Also

RequestResult Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
RequestResult::EndTime Property

See Also
Gets the end time of the operation.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#
public DateTime EndTime { get; internal set; }

C++
public:
property DateTime EndTime {
    DateTime get();
    internal: void set(DateTime value);
}

F#
member EndTime : DateTime with get, internal set

VB
Public Property EndTime As Date
    Get
    Friend Set
End Property

Property Value

Type: System.DateTime
A DateTime value indicating the end time of the operation.
See Also

RequestResult Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
RequestResult.Etag Property

RequestResult::Etag Property

See Also
Gets the ETag value of the request.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

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<tr>
<td>C++</td>
<td><code>public: property String^ Etag { String^ get(); internal: void set(String^ value); }</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>member Etag : string with get, internal set</code></td>
</tr>
<tr>
<td>VB</td>
<td><code>Public Property Etag As String  Get Friend Set  End Property</code></td>
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**Property Value**

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

The ETag value of the request.
See Also

RequestResult Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
RequestResult::Exception

See Also
Gets or sets the exception.

**Namespace:**  [Microsoft.WindowsAzure.Storage]

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public Exception Exception { get; set; }
```

C++

```cpp
public:
property Exception^ Exception {
    Exception^ get();
    void set(Exception^ value);
}
```

F#

```fsharp
member Exception : Exception with get, set
```

VB

```vbnet
Public Property Exception As Exception
```

Property Value

Type:

```csharp
System.Exception
System::Exception
System::Exception
```

An Exception object.
See Also

- RequestResult Class
- Microsoft.WindowsAzure.Storage Namespace

Return to top
RequestResult.ExtendedErrorInformation

See Also
Gets the extended error information.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public StorageExtendedErrorInformation ExtendedErrorInformation {
    get;
}
```

C++  
```cpp
public:
    property StorageExtendedErrorInformation^ ExtendedErrorInformation^ get();
    internal: void set(StorageExtendedErrorInformation^ value);
}
```

F#  
```fsharp
member ExtendedErrorInformation : StorageExtendedErrorInformation
```

VB  
```vb
Public Property ExtendedErrorInformation As StorageExtendedErrorInformation
    Get
        Friend Set
    End Property
```

Property Value

Type:  
See Also

RequestResult Class
Microsoft.WindowsAzure.Storage Namespace

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See Also
Gets or sets the HTTP status code for the request.

**Namespace:**  Microsoft.WindowsAzure.Storage  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public int HttpStatusCode { get; set; }
```

C++

```cpp
public:
property int HttpStatusCode {
  int get();
  void set(int value);
}
```

F#

```fsharp
member HttpStatusCode : int with get, set
```

VB

```vbnet
Public Property HttpStatusCode As Integer
```

Property Value

Type: `System.Int32`<br>The HTTP status code for the request.
See Also

RequestResult Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
RequestResult.HttpStatusMessage
Property
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Property
RequestResult.HttpStatusMessage
Property
See Also
Gets the HTTP status message for the request.

**Namespace:** [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public string HttpStatusMessage { get; internal ...
```

C++

```cpp
public:
property String^ HttpStatusMessage { 
    String^ get();
    internal: void set(String^ value);
}
```

F#

```fsharp
copy Code
member HttpStatusMessage : string with get, int...
```

VB

```vb
Public Property HttpStatusMessage As String
    Get
    Friend Set
End Property
```

Property Value

Type: `System.String System::String ^ System.String System.String`

The HTTP status message for the request.
See Also

RequestResult Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
RequestResult.IngressBytes

See Also
The number of bytes read from the response body for the given request

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public long IngressBytes { get; set; }
```

C++  
```cpp
public:
property long long IngressBytes {
    long long get();
    void set(long long value);
}
```

F#  
```fsharp
member IngressBytes : int64 with get, set
```

VB  
```vbnet
Public Property IngressBytes As Long
```

Property Value

Type: `System.Int64`
See Also

RequestResult Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
RequestResult::RequestDate
Property
RequestResult.RequestDate
Property
RequestResult::RequestDate	Property
See Also
Gets the request date.

**Namespace:**  Microsoft.WindowsAzure.Storage

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

**C#**

```csharp
public string RequestDate { get; internal set; }
```

**C++**

```cpp
public:
property String^ RequestDate {
    String^ get();
    internal: void set(String^ value);
}
```

**F#**

```fsharp
member RequestDate : string with get, internal
```

**VB**

```vbnet
Public Property RequestDate As String
    Get
    Friend Set
End Property
```

## Property Value

Type: System.String

The request date.
See Also

RequestResult Class
Microsoft.WindowsAzure.Storage Namespace

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See Also
Gets the service request ID for this request.

**Namespace:**  [Microsoft.WindowsAzure.Storage](#)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public string ServiceRequestID { get; internal
```

C++
```cpp
public:
property String^ ServiceRequestID {
  String^ get();
  internal: void set(String^ value);
```

F#
```fsharp
member ServiceRequestID : string with get, int
```

VB
```vb
Public Property ServiceRequestID As String
  Get
  Friend Set
End Property
```

Property Value

Type: `System.StringSystem::String^System.StringSystem.String`
The service request ID for this request.
See Also

RequestResult Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
RequestResult::StartTime
Property
RequestResult::StartTime
Property
RequestResult::StartTime Property
See Also
Gets the start time of the operation.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public DateTime StartTime { get; internal set; }
```

C++  
```cpp
public:
property DateTime StartTime {
    DateTime get();
    internal: void set(DateTime value);
}
```

F#  
```fsharp
member StartTime : DateTime with get, internal
```

VB  
```vbnet
Public Property StartTime As Date
    Get
    Friend Set
End Property
```

Property Value

Type: System.DateTime

A DateTime value indicating the start time of the operation.
See Also

RequestResult Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
RequestResult::TargetLocation
Property

See Also
Gets the location to which the request was sent.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public StorageLocation TargetLocation { get; internal set;
}
```

C++  
```cpp
public:
property StorageLocation TargetLocation {
    StorageLocation get();
    internal: void set(StorageLocation value);
}
```

F#  
```fsharp
member TargetLocation : StorageLocation with get
```

VB  
```vbnet
Public Property TargetLocation As StorageLocation
Get
Friend Set
End Property
```

Property Value

Type:
`Microsoft.WindowsAzure.Storage.StorageLocation`  
A `StorageLocation` enumeration value.
See Also

RequestResult Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
RequestResult:::ReadXml Method (XmlReader) (XmlReader^)(XmlReader)(XmlReader)

See Also
Generates a serializable RequestResult from its XML representation.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public void ReadXml(
    XmlReader reader
)
```

C++  
```cpp
public:

void ReadXml(
    XmlReader^ reader
)
```

F#  
```fsharp
member ReadXml :
    reader:XmlReader -> unit
```

VB  
```vb
Public Sub ReadXml (
    reader As XmlReader
)
```

Parameters

reader  
Type:  
```csharp
System.Xml.XmlReader
```  
```cpp
System::Xml::XmlReader
```  
```fsharp
System.Xml.XmlReader
```  
The XmlReader stream from which the RequestResult is deserialized.
See Also

RequestResult Class
Microsoft.WindowsAzure.Storage Namespace

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RequestResult.

\[\text{TranslateFromExceptionMessage} \quad \text{Method (String)(String^{\wedge})(String)(String)}\]

See Also
Translates the specified message into a `RequestResult` object.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/rest/api/storageservices/namespace-microsoft.windowsazure.storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
[ObsoleteAttribute("This should be available only in Microsoft.WindowsAzure.Storage.WinMD and not in Microsoft.WindowsAzure.Storage.dll. Please use ReadXML to deserialize RequestResult when Microsoft.WindowsAzure.Storage.dll is used.")
public static RequestResult TranslateFromExceptionMessage(
    string message
)
```

C++  
```cpp
public:
[ObsoleteAttribute("This should be available only in Microsoft.WindowsAzure.Storage.WinMD and not in Microsoft.WindowsAzure.Storage.dll. Please use ReadXML to deserialize RequestResult when Microsoft.WindowsAzure.Storage.dll is used.")
static RequestResult* TranslateFromExceptionMessage(
    String* message
)
```

F#  
```fsharp
[<ObsoleteAttribute("This should be available only in Microsoft.WindowsAzure.Storage.WinMD and not in Microsoft.WindowsAzure.Storage.dll. Please use ReadXML to deserialize RequestResult when Microsoft.WindowsAzure.Storage.dll is used.")
static member TranslateFromExceptionMessage :
    message:string -> RequestResult
```

VB  
```vbnet
<ObsoleteAttribute("This should be available only in Microsoft.WindowsAzure.Storage.WinMD and not in Microsoft.WindowsAzure.Storage.dll. Please use ReadXML to deserialize RequestResult when Microsoft.WindowsAzure.Storage.dll is used.")
Public Shared Function TranslateFromExceptionMessage(
    message As String
) As RequestResult
```

Parameters

- **message**
See Also

RequestResult Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
RequestResult::WriteXml Method (XmlWriter) (XmlWriter^) (XmlWriter) (XmlWriter)

See Also
Converts a serializable RequestResult into its XML representation.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public void WriteXml(
    XmlWriter writer
)
```

C++

```c++
public:
void WriteXml(
    XmlWriter^ writer
)
```

F#

```fsharp
copy

member WriteXml :
    writer:XmlWriter -> unit
```

VB

```vbnet
Public Sub WriteXml (  
    writer As XmlWriter
)
```

Parameters

**writer**

Type: 

```csharp
System.Xml.XmlWriter
```

The XmlWriter stream to which the RequestResult is serialized.
See Also

RequestResult Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
ResultSegment<TElement>.ContinuationToken
Property
ResultSegment<TElement>::ContinuationToken
Property
ResultSegment<'TElement>.ContinuationToken
Property
ResultSegment(Of TElement).ContinuationToken
Property
See Also
Gets a continuation token to use to retrieve the next set of results with a subsequent call to the operation.

**Namespace:** [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)

**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
public IContinuationToken ContinuationToken { get; }
```

**C++**

```cpp
public:
property IContinuationToken^ ContinuationToken
    IContinuationToken^ get();
    internal: void set(IContinuationToken^ value);
}
```

**F#**

```fsharp
member ContinuationToken : IContinuationToken with
```

**VB**

```vb
Public Property ContinuationToken As IContinuationToken
    Get
        Friend Set
End Property
```

Property Value

Type: [Microsoft.WindowsAzure.Storage.IContinuationToken](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage.icontinuationtoken)

An object of type `IContinuationToken`. 
See Also

ResultSegment<TElement><TElement><'TElement>(Of TElement) Class
Microsoft.WindowsAzure.Storage Namespace

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See Also
Gets an enumerable collection of results.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

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<td>C#</td>
<td>public List&lt;TElement&gt; Results { get; internal set; }</td>
</tr>
<tr>
<td>C++</td>
<td>public: property List&lt;TElement&gt;^ Results { List&lt;TElement&gt;^ get(); internal: void set(List&lt;TElement&gt;^ value); }</td>
</tr>
<tr>
<td>F#</td>
<td>member Results : List&lt;'TElement&gt; with get, internal: set, end property</td>
</tr>
<tr>
<td>VB</td>
<td>Public Property Results As List(Of TElement) Get Friend Set End Property</td>
</tr>
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</table>

### Property Value

Type: System.Collections.Generic.List<TElement>

An enumerable collection of results of type TElement.
See Also

ResultSegment<TElement><TElement><'TElement>(Of TElement) Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
SharedAccessAccountPolicy Constructor (0000)

See Also
Initializes a new instance of the SharedAccessAccountPolicy class.

**Namespace:**  Microsoft.WindowsAzure.Storage

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

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See Also

SharedAccessAccountPolicy Class
Microsoft.WindowsAzure.Storage Namespace

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SharedAccessAccountPolicy.IPAddressOrRange

See Also
Gets or sets the allowed IP address or IP address range for a shared access signature associated with this shared access policy.

**Namespace:**  Microsoft.WindowsAzure.Storage  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public IPAddressOrRange IPAddressOrRange { get; set; }
```

C++  
```cpp
public:
property IPAddressOrRange& IPAddressOrRange {
    IPAddressOrRange& get();
    void set(IPAddressOrRange& value);
}
```

F#  
```fsharp
member IPAddressOrRange : IPAddressOrRange with
```

VB  
```vb
Public Property IPAddressOrRange As IPAddressOrRange
```

Property Value

Type:  
`Microsoft.WindowsAzure.Storage.IPAddressOrRange`
See Also

- SharedAccessAccountPolicy Class
- Microsoft.WindowsAzure.Storage Namespace

Return to top
See Also
Gets or sets the permissions for a shared access signature associated with this shared access policy.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public SharedAccessAccountPermissions Permissions {
    get;
    set;
}
```  

C++  
```cpp
public:
    property SharedAccessAccountPermissions Permissions
    {
        SharedAccessAccountPermissions get();
        void set(SharedAccessAccountPermissions value);
    }
```  

F#  
```fsharp
member Permissions : SharedAccessAccountPermissions
```  

VB  
```vbnet
Public Property Permissions As SharedAccessAccountPermissions
```  

Property Value

Type:

```csharp
```

A `SharedAccessAccountPermissions` object.
See Also

SharedAccessAccountPolicy Class
Microsoft.WindowsAzure.Storage Namespace

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See Also
Gets or sets the allowed protocols for a shared access signature associated with this shared access policy.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public Nullable<SharedAccessProtocol> Protocols {
  get;  
  set;  
}

C++  
public:
property Nullable<SharedAccessProtocol> Protocols {
  Nullable<SharedAccessProtocol> get();
  void set(Nullable<SharedAccessProtocol> value);
}

F#  
member Protocols : Nullable<SharedAccessProtocol>

VB  
Public Property Protocols As Nullable(Of SharedAccessProtocol)

Property Value

Type:
See Also

SharedAccessAccountPolicy Class
Microsoft.WindowsAzure.Storage Namespace

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See Also
Gets or sets the resource type for a shared access signature associated with this shared access policy.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public SharedAccessAccountResourceTypes ResourceTypes {
    get;
    set;
}
```

C++

```cpp
public:
property SharedAccessAccountResourceTypes ResourceTypes {
    SharedAccessAccountResourceTypes get();
    void set(SharedAccessAccountResourceTypes value);
}
```

F#

```fsharp
member ResourceTypes : SharedAccessAccountResourceTypes
```

VB

```vbnet
Public Property ResourceTypes As SharedAccessAccountResourceTypes
```

Property Value

Type:  

See Also

SharedAccessAccountPolicy Class
Microsoft.WindowsAzure.Storage Namespace

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See Also
Gets or sets the services (blob, file, queue, table) for a shared access signature associated with this shared access policy.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
public SharedAccessAccountServices Services { get; set; }
```

**C++**

```cpp
public:
property SharedAccessAccountServices Services {
    SharedAccessAccountServices get();
    void set(SharedAccessAccountServices value);
}
```

**F#**

```fsharp
member Services : SharedAccessAccountServices with
```

**VB**

```vb
Public Property Services As SharedAccessAccountServices
```

### Property Value

Type:

See Also

SharedAccessAccountPolicy Class
Microsoft.WindowsAzure.Storage Namespace

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See Also
Gets or sets the expiry time for a shared access signature associated with this shared access policy.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public Nullable<DateTimeOffset> SharedAccessExpiryTime {
    get;
    set;
}
```

C++

```cpp
public:
property Nullable<DateTimeOffset> SharedAccessExpiryTime {
    Nullable<DateTimeOffset> get();
    void set(Nullable<DateTimeOffset> value);
}
```

F#

```f#
member SharedAccessExpiryTime : Nullable<DateTimeOffset>
```

VB

```vb
Public Property SharedAccessExpiryTime As Nullable(DateTimeOffset)
```

Property Value

Type:

System.Nullable<DateTimeOffset>

A DateTimeOffset specifying the shared access expiry time.
See Also

SharedAccessAccountPolicy Class
Microsoft.WindowsAzure.Storage Namespace

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SharedAccessAccountPolicy.SharedAccessStartTime

See Also
Gets or sets the start time for a shared access signature associated with this shared access policy.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://aka.ms/aws-sdk-for-net)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public Nullable<DateTimeOffset> SharedAccessStartTime {
    get;
    set;
}
```

C++  
```cpp
public:
property Nullable<DateTimeOffset> SharedAccessStartTime {
    Nullable<DateTimeOffset> get();
    void set(Nullable<DateTimeOffset> value);
}
```

F#  
```fsharp
member SharedAccessStartTime : Nullable<DateTimeOffset>
```

VB  
```vbnet
Public Property SharedAccessStartTime As Nullable(Of DateTimeOffset)
```

Property Value

Type:  
```csharp
System.Nullable<DateTimeOffset>
```
```cpp
System::Nullable<DateTimeOffset>
```
```fsharp
System.Nullable<DateTimeOffset>
```
```vbnet
System.Nullable(Of DateTimeOffset)
```

A DateTimeOffset specifying the shared access start time.
See Also

- SharedAccessAccountPolicy Class
- Microsoft.WindowsAzure.Storage Namespace

Return to top
SharedAccessAccountPolicy.:::PermissionsToString Method (SharedAccessAccountPermissions)
(SharedAccessAccountPermissions)
(SharedAccessAccountPermissions)
(SharedAccessAccountPermissions)
See Also
Converts the permissions specified for the shared access policy to a string.

**Namespace:**  Microsoft.WindowsAzure.Storage  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public static string PermissionsToString(
    SharedAccessAccountPermissions permissions
)
```

C++

```cpp
public:
static String^ PermissionsToString(
    SharedAccessAccountPermissions permissions
)
```

F#

```fsharp
static member PermissionsToString :
    permissions:SharedAccessAccountPermissions ->
    string
```

VB

```vbnet
Public Shared Function PermissionsToString (   permissions As SharedAccessAccountPermissions
) As String
```

Parameters

`permissions`

Type: `Microsoft.WindowsAzure.Storage.SharedAccessAccountPermissions`

A `SharedAccessAccountPermissions` object.
See Also

SharedAccessAccountPolicy Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
See Also
Converts the ResourceTypes specified for the shared access policy to a string.

**Namespace:**  Microsoft.WindowsAzure.Storage  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public static string ResourceTypesToString(
    SharedAccessAccountResourceTypes resourceTypes
)
```

C++
```cpp
public:
static String ^ ResourceTypesToString(
    SharedAccessAccountResourceTypes resourceTypes
)
```

F#
```fsharp
static member ResourceTypesToString : resourceTypes:SharedAccessAccountResourceTypes -> string
```

VB
```vbnet
Public Shared Function ResourceTypesToString (  
    resourceTypes As SharedAccessAccountResourceTypes
) As String
```

Parameters

resourceTypes  
Type:  
A `SharedAccessAccountResourceTypes` object.
See Also

SharedAccessAccountPolicy Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
SharedAccessAccountPolicy::ServicesToString C# C++ F# VB
Method (SharedAccessAccountServices)
(SharedAccessAccountServices)
(SharedAccessAccountServices)
See Also
Converts the services specified for the shared access policy to a string.

**Namespace:**  Microsoft.WindowsAzure.Storage  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public static string ServicesToString(
    SharedAccessAccountServices services
)
```

C++
```cpp
public:
static String^ ServicesToString(
    SharedAccessAccountServices services
)
```

F#
```fsharp
static member ServicesToString :
    services:SharedAccessAccountServices ->
    string
```

VB
```vb
Public Shared Function ServicesToString ( 
    services As SharedAccessAccountServices
) As String
```

Parameters

services  
Type:  
A `SharedAccessAccountServices` object.
See Also

- SharedAccessAccountPolicy Class
- Microsoft.WindowsAzure.Storage Namespace

Return to top
StorageException Constructor ()()()

See Also

C# C++ F# VB
Initializes a new instance of the `StorageException` class.

**Namespace**:  `Microsoft.WindowsAzure.Storage`

Syntax

C#  
public StorageException()

C++  
public:
StorageException()

F#  
new : unit -> StorageException

VB  
Public Sub New
See Also

StorageException Overload
StorageException Class
Microsoft.WindowsAzure.Storage Namespace

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See Also
Initializes a new instance of the `StorageException` class by using the specified parameters.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://github.com/Azure/azure-sdk-for-net/blob/master/sdk/storage/storage-net/docs/StorageException.md)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public StorageException(
    RequestResult res,
    string message,
    Exception inner
)
```

C++

```cpp
public:
StorageException(
    RequestResult* res,
    String* message,
    Exception* inner
)
```

F#

```fsharp
new :
    res:RequestResult *
    message:string *
    inner:Exception -> StorageException
```

VB

```vb
Public Sub New (
    res As RequestResult,
    message As String,
    inner As Exception
)
```
See Also

StorageException Overload
StorageException Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
### StorageException Constructor (String)(String^) (String)(String)

**See Also**
Initializes a new instance of the StorageException class using the specified error message.

Namespace: Microsoft.WindowsAzure.Storage
Syntax

C#

```csharp
public StorageException(
    string message
)
```

C++

```cpp
public:
StorageException(
    String^ message
)
```

F#

```fsharp
new :
    message:string -> StorageException
```

VB

```vbnet
Public Sub New (    message As String
)
```

Parameters

- **message**
  
  Type: `System.String`
  
  The message that describes the error.
See Also

StorageException Overload
StorageException Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
StorageException Constructor (String, Exception)  
(String^, Exception^)(String, Exception)(String, Exception)

See Also
 Initializes a new instance of the `StorageException` class with a specified error message and a reference to the inner exception that generated this exception.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#
```csharp
public StorageException(
    string message,
    Exception innerException
)
```

C++
```cpp
public:
StorageException(
    String^ message,
    Exception^ innerException
)
```

F#
```fsharp
new :
    message:string *
    innerException:Exception -> StorageException
```

VB
```vbnet
Public Sub New (
    message As String,
    innerException As Exception
)
```

Parameters

`message`
See Also

StorageException Overload
StorageException Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
StorageException::RequestInformation	Property
StorageException::RequestInformation	Property
StorageException::RequestInformation	Property
See Also
Gets the `RequestResult` object for this `StorageException` object.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://github.com/Azure/Samples/tree/master/storage-csharp-get-requestresult)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public RequestResult RequestInformation { get; }
```

C++  
```cpp
public:
    property RequestResult^ RequestInformation {  
        RequestResult^ get();  
        private: void set(RequestResult^ value);
    }
```

F#  
```fsharp
member RequestInformation : RequestResult with
```

VB  
```vbnet
Public Property RequestInformation As RequestResult
    Get
    Private Set
End Property
```

Property Value

Type:  

Microsoft.WindowsAzure.Storage.RequestResult

The RequestResult object for this StorageException object.
See Also

- **StorageException Class**
- **Microsoft.WindowsAzure.Storage Namespace**

[Return to top](#)
See Also
Represents an exception thrown by the Windows Azure storage client library.

**Namespace:**  [Microsoft.WindowsAzure.Storage]

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public override string ToString()

C++  
public:  
virtual String^ ToString() override

F#  
override ToString : unit -> string

VB  
Public Overrides Function ToString As String

Return Value

Type: System.String System::String^ System.String System.String
A string that represents the exception.
See Also

StorageException Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
StorageException::...TranslateException Method
( Exception, RequestResult )( Exception^, RequestResult^)( Exception, RequestResult )( Exception, RequestResult )

See Also
Translates the specified exception into a StorageException.

**Namespace:**  [Microsoft.WindowsAzure.Storage](#)
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public static StorageException TranslateException(  
    Exception ex,
    RequestResult reqResult  
)
```

C++  
```cpp
public:  
static StorageException^ TranslateException(  
    Exception^ ex,
    RequestResult^ reqResult  
)
```

F#  
```fsharp
static member TranslateException :  
    ex:Exception *
    reqResult:RequestResult -> StorageException  
```

VB  
```vbnet
Public Shared Function TranslateException (  
    ex As Exception,
    reqResult As RequestResult  
) As StorageException
```

Parameters

\( ex \)
See Also

TranslateException Overload
StorageException Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
StorageException.::..TranslateException Method
(Exception, RequestResult, Func<Stream,
StorageExtendedErrorInformation>)(Exception^,
RequestResult^, Func<Stream^,
StorageExtendedErrorInformation^>^)(Exception,
RequestResult, Func<Stream,
StorageExtendedErrorInformation>)(Exception,
RequestResult, Func(Of Stream,
StorageExtendedErrorInformation))

See Also
Translates the specified exception into a storage exception.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  Copy Code

```csharp
public static StorageException TranslateException(
    Exception ex,
    RequestResult reqResult,
    Func<Stream, StorageExtendedErrorInformation>
)
```

C++  Copy Code

```cpp
public:
    static StorageException^ TranslateException(
        Exception^ ex,
        RequestResult^ reqResult,
        Func<Stream^, StorageExtendedErrorInformation^>
    )
```

F#  Copy Code

```fsharp
static member TranslateException :
    ex:Exception *
    reqResult:RequestResult *
    parseError:Func<Stream, StorageExtendedErrorInformation>
```

VB  Copy Code

```vb
Public Shared Function TranslateException (  
    ex As Exception,  
    reqResult As RequestResult,  
    parseError As Func(Of Stream, StorageExtendedErrorInformation)  
) As StorageException
```
See Also

TranslateException Overload
StorageException Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
StorageExtendedErrorInformation Constructor ()

See Also
Initializes a new instance of the `StorageExtendedErrorInformation` class.

**Namespace:** Microsoft.WindowsAzure.Storage

**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public StorageExtendedErrorInformation()
```

C++  
```cpp
public:
StorageExtendedErrorInformation()
```

F#  
```fsharp
new : unit -> StorageExtendedErrorInformation
```

VB  
```vbnet
Public Sub New
```
See Also

StorageExtendedErrorInformation Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
StorageExtendedErrorInformation.AdditionalDetails Property
StorageExtendedErrorInformation::AdditionalDetails Property
StorageExtendedErrorInformation.AdditionalDetails Property
StorageExtendedErrorInformation.AdditionalDetails Property

See Also
Gets additional error details.

**Namespace:**  [Microsoft.WindowsAzure.Storage](http://msdn.microsoft.com/library/ff314270)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public IDictionary<string, string> AdditionalDetails { get; }
```

C++
```cpp
public:
    property IDictionary<String^, String^>^ AdditionalDetails {
        IDictionary<String^, String^>^ get();
        internal: void set(IDictionary<String^, String^>^ value);
    }
```

F#
```fsharp
member AdditionalDetails : IDictionary<string, string>
```

VB
```vbnet
Public Property AdditionalDetails As IDictionary(Of String, String)
    Get
    End Property
```

**Property Value**

Type:

```csharp
System.Collections.Generic.IDictionary<String, String>
```

An IDictionary<TKey, TValue><TKey, TValue><'TKey, 'TValue>(Of TKey, TValue) containing the additional error details.
See Also

StorageExtendedErrorInformation Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
See Also
Gets the storage service error code.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public string ErrorCode { get; internal set; }
```

C++  
```cpp
public:
property String^ ErrorCode {
    String^ get();
    internal: void set(String^ value);
}
```

F#  
```fsharp
member ErrorCode : string with get, internal set
```

VB  
```vbnet
Public Property ErrorCode As String
    Get
    Friend Set
End Property
```

Property Value

Type: `System.StringSystem::String^System.StringSystem.String`
A string containing the storage service error code.
See Also

StorageExtendedErrorInformation Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
Property StorageExtendedErrorInformation::ErrorMessage
See Also
Gets the storage service error message.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public string ErrorMessage { get; internal set; }
```

C++  
```cpp
public:
property String^ ErrorMessage {
    String^ get();
    internal: void set(String^ value);
};
```

F#  
```fsharp
member ErrorMessage : string with get, internal
```

VB  
```vbnet
Public Property ErrorMessage As String
    Get
    Friend Set
End Property
```

Property Value

Type: `System.String`  
`System.String`  
`System.String`  
A string containing the storage service error message.
See Also

StorageExtendedErrorInformation Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
StorageExtendedErrorInformation.:::ReadAndParseExtendedError
Method (IODataResponseMessage)(IODataResponseMessage^)
(IODataResponseMessage)(IODataResponseMessage)

See Also
Parses the error details from the stream using OData library.

**Namespace:**  Microsoft.WindowsAzure.Storage  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public static StorageExtendedErrorInformation
    ReadAndParseExtendedError(IODataResponseMessage responseMessage)
```

C++

```cpp
public:
static StorageExtendedErrorInformation^ ReadAndParseExtendedError(
    IODataResponseMessage^ responseMessage)
```

F#

```fsharp
static member ReadAndParseExtendedError : 
    responseMessage:IODataResponseMessage -> StorageExtendedErrorInformation
```

VB

```vbnet
Public Shared Function ReadAndParseExtendedErrorError(
    responseMessage As IODataResponseMessage) As StorageExtendedErrorInformation
```

Parameters

`responseMessage`
Type: `Microsoft.Data.OData.IODataResponseMessage`
The IODataResponseMessage to parse.
See Also

StorageExtendedErrorInformation Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
StorageExtendedErrorInformation.:..ReadStream Method (Stream)(Stream^)(Stream)(Stream)

See Also
Gets the error details from stream.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
public static StorageExtendedErrorInformation
    ReadFromStream(
        Stream inputStream
    )
```

**C++**

```cpp
public:

static StorageExtendedErrorInformation^ ReadFromStream(
    Stream^ inputStream
)
```

**F#**

```fsharp
static member ReadFromStream :
    inputStream:Stream -> StorageExtendedErrorInformation
```

**VB**

```vbnet
Public Shared Function ReadFromStream (inputStream As Stream)
) As StorageExtendedErrorInformation
```

### Parameters

**(inputStream**

Type:

```fsharp
System.IO.Stream
```

The input stream.
See Also

StorageExtendedErrorInformation Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
StorageExtendedErrorInformation.

See Also
Gets the error details from the stream using OData library.

**Namespace:**  Microsoft.WindowsAzure.Storage  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public static StorageExtendedErrorInformation
    ReadFromStreamUsingODataLib(
        Stream inputStream,
        HttpWebResponse response,
        string contentType
    )
```

C++

```cpp
public:
static StorageExtendedErrorInformation^ ReadFromStreamUsingODataLib(
    Stream^ inputStream,
    HttpWebResponse^ response,
    String^ contentType
)
```

F#

```fsharp
static member ReadFromStreamUsingODataLib :
    inputStream:Stream *
    response:HttpWebResponse *
    contentType:string -> StorageExtendedErrorInformation
```

VB

```vb
Public Shared Function ReadFromStreamUsingODataLib(
    inputStream As Stream,
    response As HttpWebResponse,
    contentType As String
) As StorageExtendedErrorInformation
```
See Also

StorageExtendedErrorInformation Class
Microsoft.WindowsAzure.Storage Namespace

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<tr>
<th>StorageExtendedErrorInformation::ReadXml Method (XmlReader) (XmlReader^) (XmlReader) (XmlReader)</th>
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</table>

See Also
Generates a serializable `StorageExtendedErrorInformation` object from its XML representation.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public void ReadXml(
    XmlReader reader
)
```

C++  
```cpp
public:
void ReadXml(
    XmlReader^ reader
)
```

F#  
```fsharp
member ReadXml :
    reader:XmlReader -> unit
```

VB  
```vbnet
Public Sub ReadXml (  
    reader As XmlReader
)
```

Parameters

*reader*
Type:
```csharp
System.Xml.XmlReader
```
The XmlReader stream from which the
```csharp
StorageExtendedErrorInformation
```
object is deserialized.
See Also

StorageExtendedErrorInformation Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
StorageExtendedErrorInformation.

See Also
Converts a serializable `StorageExtendedErrorInformation` object into its XMI representation.

**Namespace:**  Microsoft.WindowsAzure.Storage

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public void WriteXml(
    XmlWriter writer
)
```

C++  

```cpp
public:
void WriteXml(
    XmlWriter^ writer
)
```

F#  

```fsharp
member WriteXml :
    writer:XmlWriter -> unit
```

VB  

```vbnet
Public Sub WriteXml (
    writer As XmlWriter
)
```

Parameters

writer  
Type:  

```csharp
System.Xml.XmlWriter
```

The XmlWriter stream to which the `StorageExtendedErrorInformation` object is serialized.
See Also

StorageExtendedErrorInformation Class
Microsoft.WindowsAzure.Storage Namespace

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<th>StorageUri Constructor (Uri)(Uri^)(Uri)(Uri)</th>
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**See Also**
Initializes a new instance of the StorageUri class using the primary endpoint for the storage account.

**Namespace:** Microsoft.WindowsAzure.Storage

**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public StorageUri(
    Uri primaryUri
)
```

C++  
```cpp
public:
StorageUri(
    Uri^ primaryUri
)
```

F#  
```fsharp
new :
    primaryUri:Uri -> StorageUri
```

VB  
```vbnet
Public Sub New (  
    primaryUri As Uri
)
```

Parameters

`primaryUri`
Type: `System.Uri`  
The Uri for the primary endpoint.
See Also

StorageUri_ Overload
StorageUri Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
StorageUri Constructor (Uri, Uri)(Uri^, Uri^)
(Uri, Uri)(Uri, Uri)

See Also
Initializes a new instance of the StorageUri class using the primary and secondary endpoints for the storage account.

Namespace:  Microsoft.WindowsAzure.Storage  
Syntax

C#  
```csharp
public StorageUri(
    Uri primaryUri,
    Uri secondaryUri
)
```

C++
```cpp
public:
    StorageUri(
        Uri^ primaryUri,
        Uri^ secondaryUri
    )
```

F#
```fsharp
new :
    primaryUri:Uri *
    secondaryUri:Uri -> StorageUri
```

VB
```vbnet
Public Sub New (  
    primaryUri As Uri,  
    secondaryUri As Uri
)
```

Parameters

`primaryUri`
See Also

StorageUri Overload
StorageUri Class
Microsoft.WindowsAzure.Storage Namespace

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<td></td>
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</tr>
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</table>

See Also
The endpoint for the primary location for the storage account.

**Namespace:**  Microsoft.WindowsAzure.Storage

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
public Uri PrimaryUri { get; private set; }
```

**C++**

```cpp
public:
    property Uri^ PrimaryUri {
        Uri^ get();
        private: void set(Uri^ value);
    }
```

**F#**

```fsharp
member PrimaryUri : Uri with get, private set
```

**VB**

```vb
Public Property PrimaryUri As Uri
    Get
    Private Set
End Property
```

### Property Value

Type: [System.Uri][1][System.Uri][1]

The Uri for the primary endpoint.
See Also

StorageUri Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
StorageUri::SecondaryUri Property
See Also
The endpoint for the secondary location for the storage account.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
public Uri SecondaryUri { get; private set; }
```

**C++**

```cpp
public:
property Uri^ SecondaryUri {
    Uri^ get();
    private: void set(Uri^ value);
}
```

**F#**

```fsharp
member SecondaryUri : Uri with get, private set
```

**VB**

```vb
Public Property SecondaryUri As Uri
    Get
    Private Set
End Property
```

**Property Value**

Type: `System.Uri System::Uri ^ System.Uri System.Uri`

The Uri for the secondary endpoint.
See Also

StorageUri Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
StorageUri::..Equals Method (Object)(Object^) (Object)(Object)

See Also
Determines whether the specified Object is equal to this instance.

**Namespace:**  Microsoft.WindowsAzure.Storage
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
public override bool Equals(
    object obj
)
```

**C++**

```cpp
public:
virtual bool Equals(
    Object^ obj
) override
```

**F#**

```fsharp
override Equals :
    obj:Object -> bool
```

**VB**

```vbnet
Public Overrides Function Equals (  
    obj As Object
) As Boolean
```

### Parameters

- **obj**
  
  Type: `System.Object`  
  
  The Object to compare with this instance.
See Also

Equals Overload
StorageUri Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
StorageUri::..Equals Method (StorageUri)
(StorageUri^)(StorageUri)(StorageUri)

See Also
Indicates whether the current object is equal to another object of the same type.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public bool Equals(
    StorageUri other
)
```

C++

```cpp
public:
    virtual bool Equals(
        StorageUri^ other
) sealed
```

F#

```fsharp
abstract Equals :
    other:StorageUri -> bool
override Equals :
    other:StorageUri -> bool
```

VB

```vb
Public Function Equals (    other As StorageUri ) As Boolean
```

Parameters

*other*

Type: 

```csharp
Microsoft.WindowsAzure.Storage.StorageUri
```
See Also

Equals Overload
StorageUri Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
StorageUri.:::GetHashCode Method (System.Uri)
See Also
Returns a hash code for this instance.

**Namespace:**  [Microsoft.WindowsAzure.Storage](http://msdn.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
`public override int GetHashCode()`  

C++  
`public: virtual int GetHashCode() override`  

F#  
`override GetHashCode : unit -> int`  

VB  
`Public Overrides Function GetHashCode As Integer`  

Return Value

Type: `System.Int32`  
A hash code for this instance, suitable for use in hashing algorithms and data structures like a hash table.
See Also

StorageUri Class
Microsoft.WindowsAzure.Storage Namespace

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<th>StorageUri::GetUri Method (StorageLocation) (StorageLocation) (StorageLocation)</th>
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</table>

See Also
Returns the URI for the storage account endpoint at the specified location.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public Uri GetUri(
    StorageLocation location
)
```

C++  
```cpp
public:
    Uri^ GetUri(
        StorageLocation location
    )
```

F#  
```fsharp
member GetUri :
    location:StorageLocation -> Uri
```

VB  
```vbnet
Public Function GetUri (  
    location As StorageLocation
) As Uri
```

Parameters

`location`

Type:  
```
Microsoft.WindowsAzure.Storage.StorageLocation
```

A `StorageLocation` enumeration value.
See Also

StorageUri Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
StorageUri.:::ToString Method ()()()

See Also
Returns a String that represents this instance.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://github.com/Azure/azure-sdk-for-net/tree/master/sdk/storage/storageservices)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public override string ToString()

C++  
public:  
virtual String^ ToString() override

F#  
override ToString : unit -> string

VB  
Public Overrides Function ToString As String

Return Value

Type: System.String
A String that represents this instance.
See Also

StorageUri Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
StorageUri::Equality Operator (StorageUri, StorageUri)
(StorageUri^, StorageUri^)
(StorageUri, StorageUri)(StorageUri, StorageUri)

See Also
Compares two **StorageUri** objects for equivalency.

**Namespace:**  [Microsoft.WindowsAzure.Storage](https://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public static bool operator ==(
    StorageUri uri1,
    StorageUri uri2
)
```

C++

```cpp
public:
static bool operator ==(
    StorageUri^ uri1,
    StorageUri^ uri2
)
```

F#

```fsharp
static let inline (=)
    uri1:StorageUri *
    uri2:StorageUri : bool
```

VB

```vbnet
Public Shared Operator = (
    uri1 As StorageUri,
    uri2 As StorageUri
) As Boolean
```

Parameters

`uri1`
See Also

StorageUri Class
Microsoft.WindowsAzure.Storage Namespace
StorageUri::...Inequality Operator (StorageUri, StorageUri)(StorageUri^, StorageUri^)(StorageUri, StorageUri)(StorageUri, StorageUri)

See Also
Compares two \texttt{StorageUri} objects for non-equivalency.

\textbf{Namespace:}  \texttt{Microsoft.WindowsAzure.Storage}  \\
Syntax

C#  

```csharp
public static bool operator !=(
    StorageUri uri1,
    StorageUri uri2
)
```

C++  

```cpp
public:
static bool operator !=(
    StorageUri^ uri1,
    StorageUri^ uri2
)
```

F#  

```fsharp
static let inline (<>)
    uri1:StorageUri *
    uri2:StorageUri : bool
```

VB  

```vbnet
Public Shared Operator <> (  
    uri1 As StorageUri,  
    uri2 As StorageUri  
) As Boolean
```

Parameters

`uri1`
See Also

StorageUri Class
Microsoft.WindowsAzure.Storage Namespace

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Represents a continuation token for listing operations.

**Namespace:**  Microsoft.WindowsAzure.Storage.Table  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System:::Object
  Microsoft.WindowsAzure.Storage/Table:::TableContinuationToken
Syntax

C#  

```csharp
public sealed class TableContinuationToken : IContinuationToken,
    IXmlSerializable
```

C++  

```cpp
public ref class TableContinuationToken sealed
    IXmlSerializable
```

F#  

```fsharp
[<Sealed>]
type TableContinuationToken =
    class
        interface IContinuationToken
        interface IXmlSerializable
    end
```

VB  

```vbnet
Public NotInheritable Class TableContinuationToken
    Implements IContinuationToken, IXmlSerializ
```
## Constructors

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</tr>
<tr>
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</tr>
<tr>
<td>NextPartitionKey</td>
<td>NextPartitionKey</td>
</tr>
<tr>
<td>NextPartitionKey</td>
<td>NextPartitionKey</td>
</tr>
<tr>
<td>NextPartitionKey</td>
<td>NextPartitionKey</td>
</tr>
<tr>
<td>NextRowKey</td>
<td>NextRowKey</td>
</tr>
<tr>
<td>NextRowKey</td>
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<tr>
<td>NextRowKey</td>
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<tr>
<td>NextTableName</td>
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<td>NextTableName</td>
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<td>NextTableName</td>
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</table>
### Methods

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<th>Name</th>
<th>Description</th>
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<tr>
<td>Equals(Object)(Object^)(Object)(Object)</td>
<td>(Inherited from Object)</td>
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<tr>
<td>GetHashCode()()()</td>
<td>(Inherited from Object)</td>
</tr>
<tr>
<td>GetSchema()()()</td>
<td>Gets an XML representation of an object.</td>
</tr>
<tr>
<td>GetType()0000</td>
<td>Generates a serializable continuation token from its XML representation.</td>
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</tbody>
</table>
Remarks

A method that may return a partial set of results via a TableResultSegment object also returns a continuation token, which can be used in a subsequent call to return the next set of available 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.
See Also

Microsoft.WindowsAzure.Storage.Table Namespace

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</table>
Represents a continuation token returned by the Queue service.

**Namespace:**  
Microsoft.WindowsAzure.Storage.Queue

**Assembly:**  
Inheritance Hierarchy

System:::Object
  Microsoft.WindowsAzure.Storage.Queue:::QueueContinuationToken
Syntax

C#  
public sealed class QueueContinuationToken : IContinuationToken, IXmlSerializable

C++  
public ref class QueueContinuationToken sealed  
    IXmlSerializable

F#  
[<Sealed>]
type QueueContinuationToken =  
    class  
        interface IContinuationToken  
        interface IXmlSerializable  
    end

VB  
Public NotInheritable Class QueueContinuationToken  
    Implements IContinuationToken, IXmlSerializable
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
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<tr>
<td><code>QueueContinuationToken()</code></td>
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## Properties

<table>
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<th>Name</th>
<th>Description</th>
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<td><strong>NextMarker</strong></td>
<td>Gets or sets the next marker for continuing results for CloudQueue enumeration operations.</td>
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<tr>
<td><strong>TargetLocation</strong></td>
<td>Gets or sets the storage location that the continuation token applies to.</td>
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### Methods

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<td>GetSchema()()()()</td>
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<td>GetType()()()()()</td>
<td>Generates a serializable continuation token from its XML representation.</td>
</tr>
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</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.
See Also

Microsoft.WindowsAzure.Storage.Queue Namespace

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QueueRequestOptions Class

See Also
Represents a set of timeout and retry policy options that may be specified for a request against the Queue service.

**Namespace:** Microsoft.WindowsAzure.Storage.Queue  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System:::Object

Microsoft.WindowsAzure.Storage.Queue:::QueueRequestOptions
Syntax

C#  

```csharp
public sealed class QueueRequestOptions : IRequestOptions
```

C++  

```cpp
public ref class QueueRequestOptions sealed : IRequestOptions
```

F#  

```fsharp
[<Sealed>]
type QueueRequestOptions =
    class
        interface IRequestOptions
    end
```

VB  

```vb
Public NotInheritable Class QueueRequestOptions
    Implements IRequestOptions
```
### Constructors

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<td>Initializes a new instance of the <code>QueueRequestOptions</code> class.</td>
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<tr>
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<td>(Inherited from Object.)</td>
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<tr>
<td>ToString()()()</td>
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Thread Safety

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

Microsoft.WindowsAzure.Storage.Queue Namespace

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Represents a set of timeout and retry policy options that may be specified for a request against the Table service.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Table](https://aka.ms/StorageTable)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System::..Object

Microsoft.WindowsAzure.Storage.Table::..TableRequestOptions
Syntax

C#  
public sealed class TableRequestOptions : IRequestOptions

C++  
public ref class TableRequestOptions sealed : IRequestOptions

F#  
[<Sealed>]  
type TableRequestOptions =  
    class  
        interface IRequestOptions  
    end

VB  
Public NotInheritable Class TableRequestOptions  
    Implements IRequestOptions
### Constructors

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## Methods

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<tr>
<td>Equals(Object)(Object^)(Object)(Object)</td>
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<td>ToString()()()</td>
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</tr>
</tbody>
</table>
Thread Safety

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

Microsoft.WindowsAzure.Storage.Table Namespace

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Microsoft.WindowsAzure.Storage.Auth Namespace
# Classes

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<td>StorageCredentials</td>
<td>Represents a set of credentials used to authenticate access to a Windows Azure storage account.</td>
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See Also
Initializes a new instance of the StorageCredentials class.

Syntax

C#  
public StorageCredentials()

C++  
public:  
StorageCredentials()

F#  
new : unit -> StorageCredentials

VB  
Public Sub New
See Also

StorageCredentials_ Overload
StorageCredentials Class
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<td>(String) (String)</td>
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See Also
Initializes a new instance of the StorageCredentials class with the specified shared access signature token.

Syntax

C#

```csharp
public StorageCredentials(
    string sasToken
)
```

C++

```cpp
public:
StorageCredentials(
    String^ sasToken
)
```

F#

```fsharp
new :
    sasToken:string -> StorageCredentials
```

VB

```vbnet
Public Sub New (
    sasToken As String
)
```

Parameters

`sasToken`
Type: `System.String
A string representing the shared access signature token.`
See Also

StorageCredentials Overload
StorageCredentials Class
Microsoft.WindowsAzure.Storage.Auth Namespace

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StorageCredentials Constructor (String, Byte[]) (String^, array<Byte>^)(String, Byte[])(String, Byte())

See Also
Initializes a new instance of the StorageCredentials class with the specified account name and key value.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Auth](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage.auth)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public StorageCredentials(
    string accountName,
    byte[] keyValue
)
```

C++

```cpp
public:
StorageCredentials(
    String^ accountName,
    array<unsigned char>^ keyValue
)
```

F#

```fsharp
new :
    accountName:string *
    keyValue:byte[] -> StorageCredentials
```

VB

```vb
Public Sub New ( 
    accountName As String,
    keyValue As Byte()
)
```

Parameters

`accountName`
See Also

StorageCredentials Overload
StorageCredentials Class
Microsoft.WindowsAzure.Storage.Auth Namespace

Return to top
StorageCredentials Constructor (String, Byte[], String)(String^, array<Byte>^, String^)(String, Byte[], String)(String, Byte(), String)

See Also
Initializes a new instance of the StorageCredentials class with the specified account name, key value, and key name.

**Namespace:**  Microsoft.WindowsAzure.Storage.Auth  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public StorageCredentials(
    string accountName,
    byte[] keyValue,
    string keyName
)
```

C++  
```cpp
public:
StorageCredentials(
    String^ accountName,
    array<unsigned char>^ keyValue,
    String^ keyName
)
```

F#  
```fsharp
new :
accountName:string *
keyValue:byte[] *
keyName:string -> StorageCredentials
```

VB  
```vbnet
Public Sub New (  
    accountName As String,
    keyValue As Byte(),
    keyName As String
)
```
See Also

StorageCredentials Overload
StorageCredentials Class
Microsoft.WindowsAzure.Storage.Auth Namespace

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StorageCredentials Constructor (String, String)
(String^, String^)(String, String)(String, String)

See Also
Initializes a new instance of the `StorageCredentials` class with the specified account name and key value.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Auth](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage.auth)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public StorageCredentials(
    string accountName,
    string keyValue
)
```

C++

```cpp
public:
StorageCredentials(
    String^ accountName,
    String^ keyValue
)
```

F#

```fsharp
new :
    accountName:string *
    keyValue:string -> StorageCredentials
```

VB

```vbnet
Public Sub New (  
    accountName As String,
    keyValue As String
)
```

**Parameters**

*accountName*
See Also

StorageCredentials Overload
StorageCredentials Class
Microsoft.WindowsAzure.Storage.Auth Namespace

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StorageCredentials Constructor (String, String, String)(String^, String^, String^)(String, String, String)(String, String, String)

See Also
Initializes a new instance of the `StorageCredentials` class with the specified account name, key value, and key name.

**Namespace:**  Microsoft.WindowsAzure.Storage.Auth  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public StorageCredentials(
    string accountName,
    string keyValue,
    string keyName
)
```

C++

```cpp
public:
StorageCredentials(
    String^ accountName,
    String^ keyValue,
    String^ keyName
)
```

F#

```fsharp
new :
    accountName:string *
    keyValue:string *
    keyName:string -> StorageCredentials
```

VB

```vb
Public Sub New (
    accountName As String,
    keyValue As String,
    keyName As String
)
```
See Also

StorageCredentials Overload
StorageCredentials Class
Microsoft.WindowsAzure.Storage.Auth Namespace

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StorageCredentials.AccountName
Property
StorageCredentials::AccountName
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Property
StorageCredentials.AccountName Property

See Also
Gets the associated account name for the credentials.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public string AccountName { get; private set; }
```

C++  
```cpp
public:
property String^ AccountName {
    String^ get();
    private: void set(String^ value);
}
```

F#  
```fsharp
member AccountName : string with get, private set
```

VB  
```vbnet
Public Property AccountName As String
    Get
    Private Set
End Property
```

Property Value

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

StorageCredentials Class
Microsoft.WindowsAzure.Storage.Auth Namespace

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See Also
Gets a value indicating whether the credentials are for anonymous access.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Auth](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage.auth)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**
```csharp
public bool IsAnonymous { get; }
```

**C++**
```cpp
public:
property bool IsAnonymous { 
    bool get();
}
```

**F#**
```fsharp
member IsAnonymous : bool with get
```

**VB**
```vbnet
Public ReadOnly Property IsAnonymous As Boolean
```

**Property Value**

Type: System.Boolean

true if the credentials are for anonymous access; otherwise, false.
See Also

StorageCredentials Class
Microsoft.WindowsAzure.Storage.Auth Namespace

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</table>
Gets a value indicating whether the credentials are a shared access signature token.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
public bool IsSAS { get; }
```

**C++**

```cpp
public:
property bool IsSAS {
    bool get();
}
```

**F#**

```fsharp
member IsSAS : bool with get
```

**VB**

```vbnet
Public ReadOnly Property IsSAS As Boolean
```

**Property Value**

Type: System.Boolean

true if the credentials are a shared access signature token; otherwise, false.
See Also

StorageCredentials Class
Microsoft.WindowsAzure.Storage.Auth Namespace

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StorageCredentials.IsSharedKey

See Also
Gets a value indicating whether the credentials are a shared key.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public bool IsSharedKey { get; }
```

C++

```cpp
public:
property bool IsSharedKey {
    bool get();
}
```

F#

```fsharp
member IsSharedKey : bool with get
```

VB

```vb
Public ReadOnly Property IsSharedKey As Boolean
```

Property Value

Type: `System.Boolean`. `true` if the credentials are a shared key; otherwise, `false`. 
See Also

- StorageCredentials Class

Return to top
StorageCredentials.KeyName
Property

See Also
Gets the associated key name for the credentials.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Auth](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage.auth)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public string KeyName { get; }
```

C++  
```cpp
public:
property String^ KeyName {  
    String^ get();
} 
```

F#  
```fsharp
member KeyName : string with get
```

VB  
```vbnet
Public ReadOnly Property KeyName As String
```

Property Value

Type: `System.String`  
The key name.
See Also

StorageCredentials Class
Microsoft.WindowsAzure.Storage.Auth Namespace

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See Also
Gets the value of the shared access signature token's `sig` parameter.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Auth](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage.auth)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
public string SASSignature { get; }
```

**C++**

```cpp
public:
property String^ SASSignature {
    String^ get();
}
```

**F#**

```fsharp
member SASSignature : string with get
```

**VB**

```vbnet
Public ReadOnly Property SASSignature As String
```

**Property Value**

Type: `System.String`
See Also

StorageCredentials Class
Microsoft.WindowsAzure.Storage.Auth Namespace

Return to top
StorageCredentials.SASToken

Property StorageCredentials::SASToken

Property StorageCredentials.SASToken

See Also
Gets the associated shared access signature token for the credentials.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Auth](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage.auth)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public string SASToken { get; private set; }
```

C++  
```cpp
public:
property String^ SASToken {
    String^ get();
    private: void set(String^ value);
}
```

F#  
```fsharp
member SASToken : string with get, private set
```

VB  
```vbnet
Public Property SASToken As String
    Get
    Private Set
End Property
```

Property Value

Type: `System.StringSystem::String^System.StringSystem.String`

The shared access signature token.
See Also

StorageCredentials Class
Microsoft.WindowsAzure.Storage.Auth Namespace

Return to top
StorageCredentials::..Equals Method
(StorageCredentials)(StorageCredentials^)
(StorageCredentials)(StorageCredentials)

See Also
Determines whether an other StorageCredentials object is equal to this one by comparing their SAS tokens, account names, key names, and key values.

**Namespace:**  
Microsoft.WindowsAzure.Storage.Auth

**Assembly:**  
Syntax

C#

```csharp
public bool Equals(
    StorageCredentials other
)
```

C++

```cpp
public:
bool Equals(
    StorageCredentials^ other
)
```

F#

```fsharp
member Equals :
    other:StorageCredentials -> bool
```

VB

```vbnet
Public Function Equals ( 
    other As StorageCredentials 
) As Boolean
```

Parameters

*other*

Type: 


The `StorageCredentials` object to compare to this one.
See Also

Equals Overload
StorageCredentials Class
Microsoft.WindowsAzure.Storage.Auth Namespace

Return to top
StorageCredentials::ExportBase64EncodedKey

See Also
Exports the value of the account access key to a Base64-encoded string.

**Namespace:**  Microsoft.WindowsAzure.Storage.Auth  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
public string ExportBase64EncodedKey()
```

**C++**

```cpp
public:
String^ ExportBase64EncodedKey()
```

**F#**

```fsharp
member ExportBase64EncodedKey : unit -> string
```

**VB**

```vbnet
Public Function ExportBase64EncodedKey As String
```

Return Value

Type: `System.String`

The account access key.
See Also

StorageCredentials Class
Microsoft.WindowsAzure.Storage.Auth Namespace

Return to top
StorageCredentials::ExportKey Method (0000)

See Also
Returns the account key for the credentials.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Auth](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage.auth)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public byte[] ExportKey()

C++  
public: 
array<unsigned char>^ ExportKey()

F#  
member ExportKey : unit -> byte[]

VB  
Public Function ExportKey As Byte()

Return Value

Type: System.Byte[]array<System::Byte>^System.Byte[]System.Byte()  
An array of bytes that contains the key.
See Also

StorageCredentials Class
Microsoft.WindowsAzure.Storage.Auth Namespace

Return to top
StorageCredentials..::..TransformUri Method
(StorageUri)(StorageUri^)(StorageUri)(StorageUri)

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

**Namespace:** Microsoft.WindowsAzure.Storage.Auth  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**
```csharp
public StorageUri TransformUri(
    StorageUri resourceUri
)
```

**C++**
```cpp
public:
StorageUri^ TransformUri(
    StorageUri^ resourceUri
)
```

**F#**
```fsharp
member TransformUri :
    resourceUri:StorageUri -> StorageUri
```

**VB**
```vbnet
Public Function TransformUri (resourceUri As StorageUri) As StorageUri
```

**Parameters**

`resourceUri`
Type: `Microsoft.WindowsAzure.Storage.StorageUri`
A `StorageUri` object that represents the resource URI to be transformed.
See Also

TransformUri Overload
StorageCredentials Class
Microsoft.WindowsAzure.Storage.Auth Namespace

Return to top
StorageCredentials....TransformUri Method (Uri) (Uri^)(Uri)(Uri)

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

**Namespace:**  [Microsoft.WindowsAzure.Storage.Auth](#)

**Assembly:**  [Microsoft.WindowsAzure.Storage](#) (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public Uri TransformUri(
    Uri resourceUri
)
```

C++
```cpp
public:
    Uri^ TransformUri(
        Uri^ resourceUri
    )
```

F#
```fsharp
member TransformUri :
    resourceUri:Uri -> Uri
```

VB
```vbnet
Public Function TransformUri (resourceUri As Uri) As Uri
```

Parameters

`resourceUri`
Type: `System.Uri System::Uri System.Uri System.Uri`
A Uri object that represents the resource URI to be transformed.
See Also

TransformUri Overload
StorageCredentials Class
Microsoft.WindowsAzure.Storage.Auth Namespace

Return to top
StorageCredentials:::UpdateKey Method (Byte[]) (array<Byte>^) (Byte[]) (Byte())

See Also
Updates the key value for the credentials.

**Namespace**: Microsoft.WindowsAzure.Storage.Auth  
Syntax

C#  
```csharp
public void UpdateKey(
    byte[] keyValue
)
```

C++  
```cpp
public:
void UpdateKey(
    array<unsigned char>^ keyValue
)
```

F#  
```fsharp
member UpdateKey :
    keyValue:byte[] -> unit
```

VB  
```vbnet
Public Sub UpdateKey (  
    keyValue As Byte()  
)
```

Parameters

*keyValue*

Type: `System.Byte[]` array of `System.Byte`

The key value, as an array of bytes, to update.
See Also

- UpdateKey Overload
- StorageCredentials Class

Return to top
StorageCredentials::..UpdateKey Method (Byte[], String)(array<Byte>^, String^)(Byte[], String)(Byte(), String)

See Also
Updates the key value and key name for the credentials.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public void UpdateKey(
    byte[] keyValue,
    string keyName
)
```

C++

```cpp
public:
void UpdateKey(
    array<unsigned char>^ keyValue,
    String^ keyName
)
```

F#

```fsharp
member UpdateKey :
    keyValue:byte[] *
    keyName:string -> unit
```

VB

```vbnet
Public Sub UpdateKey (  
    keyValue As Byte(),  
    keyName As String
)
```

Parameters

* keyValue
See Also

- UpdateKey Overload
- StorageCredentials Class

Return to top
StorageCredentials..::..UpdateKey Method (String) (String^)(String)(String)

See Also
Updates the key value for the credentials.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
public void UpdateKey(
    string keyValue
)
```

**C++**

```cpp
public:
void UpdateKey(
    String^ keyValue
)
```

**F#**

```fsharp
copy
member UpdateKey :
    keyValue:string -> unit
```

**VB**

```vb
Public Sub UpdateKey (keyValue As String)
```

**Parameters**

`keyValue`

Type: `System.String`: `System::String^`: `System.String`

The key value, as a Base64-encoded string, to update.
See Also

UpdateKey Overload
StorageCredentials Class
Microsoft.WindowsAzure.Storage.Auth Namespace

Return to top
StorageCredentials::..UpdateKey Method (String, String)(String^, String^)(String, String)(String, String)

See Also
Updates the key value and key name for the credentials.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public void UpdateKey(
    string keyValue,
    string keyName
)
```

C++
```cpp
public:
void UpdateKey(
    String^ keyValue,
    String^ keyName
)
```

F#
```fsharp
member UpdateKey :
    keyValue:string *
    keyName:string -> unit
```

VB
```vbnet
Public Sub UpdateKey (  
    keyValue As String,
    keyName As String
)
```

Parameters

`keyValue`
See Also

UpdateKey Overload
StorageCredentials Class
Microsoft.WindowsAzure.Storage.Auth Namespace

Return to top
StorageCredentials::UpdateSASToken Method (String)(String^)(String)(String)  

See Also
Updates the shared access signature (SAS) token value for storage credentials created with a shared access signature.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
</table>
| C#       | ```
public void UpdateSASToken(
    string sasToken
)
``` |
| C++      | ```
public:
void UpdateSASToken(
    String^ sasToken
)
``` |
| F#       | ```
member UpdateSASToken : 
    sasToken:string -> unit
``` |
| VB       | ```
Public Sub UpdateSASToken ( 
    sasToken As String
)
``` |

## Parameters

**sasToken**

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

A string that specifies the SAS token value to update.
See Also

StorageCredentials Class
Microsoft.WindowsAzure.Storage.Auth Namespace

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## Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
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<tbody>
<tr>
<td>ExponentialRetry</td>
<td>Represents a retry policy that performs a specified number of retries, using a randomized exponential back off scheme to determine the interval between retries.</td>
</tr>
<tr>
<td>LinearRetry</td>
<td>Represents a retry policy that performs a specified number of retries, using a specified fixed time interval between retries.</td>
</tr>
<tr>
<td>NoRetry</td>
<td>Represents a retry policy that performs no retries.</td>
</tr>
<tr>
<td>RetryContext</td>
<td>Represents the context for one or more retries of a request made against the Windows Azure storage services, including the number of retries made for the request, the results of the last request, and the storage location and location mode for subsequent retries.</td>
</tr>
</tbody>
</table>
## Interfaces

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<thead>
<tr>
<th>Interface</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>IExtendedRetryPolicy</td>
<td>Represents a retry policy.</td>
</tr>
<tr>
<td>IRetryPolicy</td>
<td>Represents a retry policy.</td>
</tr>
<tr>
<td>Enumeration</td>
<td>Description</td>
</tr>
<tr>
<td>----------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>LocationMode</td>
<td>Specifies the location mode to indicate which location should receive the request.</td>
</tr>
<tr>
<td>IRetryPolicy.::.CreateInstance Method ()()()</td>
<td>C#C++F#VB</td>
</tr>
<tr>
<td>--------------------------------------------</td>
<td>-----------</td>
</tr>
</tbody>
</table>

See Also
Generates a new retry policy for the current request attempt.

**Namespace:**  [Microsoft.WindowsAzure.Storage.RetryPolicies](http://msdn.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>IRetryPolicy CreateInstance()</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>IRetryPolicy^ CreateInstance()</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>abstract CreateInstance : unit -&gt; IRetryPolicy</code></td>
</tr>
<tr>
<td>VB</td>
<td><code>Function CreateInstance As IRetryPolicy</code></td>
</tr>
</tbody>
</table>

**Return Value**

Type: [Microsoft.WindowsAzure.Storage.RetryPolicies.IRetryPolicy](#)  
An [IRetryPolicy](#) object that represents the retry policy for the current request attempt.
See Also

IRetryPolicy Interface

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See Also
Determines whether the operation should be retried and the interval until the next retry.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
bool ShouldRetry(
    int currentRetryCount,
    int statusCode,
    Exception lastException,
    out TimeSpan retryInterval,
    OperationContext operationContext
)
```

C++  

```cpp
bool ShouldRetry(
    int currentRetryCount,
    int statusCode,
    Exception* lastException,
    [OutAttribute] TimeSpan* retryInterval,
    OperationContext* operationContext
)
```

F#  

```fsharp
abstract ShouldRetry :
    currentRetryCount:int *
    statusCode:int *
    lastException:Exception *
    retryInterval:TimeSpan byref *
    operationContext:OperationContext -> bool
```

VB  

```vbnet
Function ShouldRetry (  
```
See Also

IRetryPolicy Interface

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<table>
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<th>C#</th>
<th>C++</th>
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<tbody>
<tr>
<td>Class</td>
<td>Description</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>-------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Constants::AnalyticsConstants</td>
<td>Constants for analytics client</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Constants</td>
<td>Contains storage constants.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Constants::ContinuationConstants</td>
<td>Constants for Result Continuations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CorsProperties</td>
<td>Class representing the service properties pertaining to CORS.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CorsRule</td>
<td>Class representing the service properties pertaining to CORS.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Constants::EncryptionConstants</td>
<td>Constants for client encryption.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Enumerations

<table>
<thead>
<tr>
<th>Enumeration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CorsHttpMethods</td>
<td>HTTP methods that are supported by CORS.</td>
</tr>
<tr>
<td>GeoReplicationStatus</td>
<td>Enumeration representing the state of geo-replication in a service.</td>
</tr>
<tr>
<td>LoggingOperations</td>
<td>Enumeration representing the state of logging in a service.</td>
</tr>
<tr>
<td>MetricsLevel</td>
<td>Enumeration representing the state of metrics collection in a service.</td>
</tr>
<tr>
<td>StorageService</td>
<td>Represents a storage service.</td>
</tr>
</tbody>
</table>
ServiceProperties Constructor ()

See Also
Initializes a new instance of the ServiceProperties class.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```c#
public ServiceProperties()
```

C++  
```cpp
public:
ServiceProperties()
```

F#  
```fsharp
new : unit -> ServiceProperties
```

VB  
```vbnet
Public Sub New
```
See Also

ServiceProperties Overload
ServiceProperties Class

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See Also
Initializes a new instance of the ServiceProperties class.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
public ServiceProperties(
    LoggingProperties logging = null,
    MetricsProperties hourMetrics = null,
    MetricsProperties minuteMetrics = null,
    CorsProperties cors = null
)
```

**C++**

```cpp
public:
ServiceProperties(
    LoggingProperties^ logging = nullptr,
    MetricsProperties^ hourMetrics = nullptr,
    MetricsProperties^ minuteMetrics = nullptr,
    CorsProperties^ cors = nullptr
)
```

**F#**

```fsharp
new :
    logging:LoggingProperties = null *
    hourMetrics:MetricsProperties = null *
    minuteMetrics:MetricsProperties = null
    cors:CorsProperties = null -> ServiceProperties
```

**VB**

```vbnet
Public Sub New (  
    logging As LoggingProperties,
    hourMetrics As MetricsProperties,
    minuteMetrics As MetricsProperties,
    cors As CorsProperties
)
```
See Also

ServiceProperties Overload
ServiceProperties Class

Return to top
ServiceProperties.Cors
PropertyServiceProperties::Cors
PropertyServiceProperties.Cors PropertyServiceProperties.Cors Property
See Also
Gets or sets the Cross Origin Resource Sharing (CORS) properties.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

C#  
```csharp
public CorsProperties Cors { get; set; }
```

C++  
```cpp
public:
property CorsProperties^ Cors {
    CorsProperties^ get();
    void set(CorsProperties^ value);
}
```

F#  
```fsharp
member Cors : CorsProperties with get, set
```

VB  
```vb
Public Property Cors As CorsProperties
```

**Property Value**

Type:  

The CORS properties.
See Also

ServiceProperties Class

Return to top
ServiceProperties.DefaultServiceVersion Property
See Also
Gets or sets the default service version.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

public string DefaultServiceVersion { get; set; }

C++

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

F#

member DefaultServiceVersion : string with get, set

VB

Public Property DefaultServiceVersion As String

Property Value

Type: System.String System::String System.String System.String

The default service version identifier.
See Also

ServiceProperties Class

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<th>See Also</th>
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<td></td>
</tr>
<tr>
<td>ServiceProperties.HourMetrics Property</td>
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</table>

See Also
Gets or sets the hour metrics properties.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#
```csharp
public MetricsProperties HourMetrics { get; set; }
```

C++
```cpp
public:
property MetricsProperties^ HourMetrics {
    MetricsProperties^ get();
    void set(MetricsProperties^ value);
}
```

F#
```fsharp
member HourMetrics : MetricsProperties with get,
```

VB
```vbnet
Public Property HourMetrics As MetricsProperties
```

Property Value

Type:
```csharp
```

The metrics properties.
See Also

ServiceProperties Class

Return to top
ServiceProperties.Logging Property
ServiceProperties::Logging Property
ServiceProperties::Logging Property
See Also
Gets or sets the logging properties.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
public LoggingProperties Logging { get; set; }
```

**C++**

```cpp
public:
property LoggingProperties^ Logging {
    LoggingProperties^ get();
    void set(LoggingProperties^ value);
}
```

**F#**

```fsharp
member Logging : LoggingProperties with get, set
```

**VB**

```vb
Public Property Logging As LoggingProperties
```

### Property Value

Type:


The logging properties.
See Also

ServiceProperties Class

Return to top
ServiceProperties.MinuteMetrics
PropertyServiceProperties::MinuteMetrics
PropertyServiceProperties.MinuteMetrics
PropertyServiceProperties.MinutesMetrics Property
See Also
Gets or sets the minute metrics properties.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C# 
`public MetricsProperties MinuteMetrics { get; set; }` 

C++ 
`public: 
property MetricsProperties^ MinuteMetrics { 
    MetricsProperties^ get(); 
    void set(MetricsProperties^ value); 
}

F# 
`member MinuteMetrics : MetricsProperties with get, set` 

VB 
`Public Property MinuteMetrics As MetricsProperties` 

Property Value

Type: 

The minute metrics properties.
See Also

ServiceProperties Class
ServiceStats.GeoReplication
Property ServiceStats::GeoReplication
Property ServiceStats.GeoReplication
Property ServiceStats.GeoReplication Property
See Also
Gets or sets the geo-replication stats.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public GeoReplicationStats GeoReplication { get;
```

C++  
```cpp
public:
property GeoReplicationStats^ GeoReplication {  
    GeoReplicationStats^ get();
    private: void set(GeoReplicationStats^ value);
}
```

F#  
```fsharp
member GeoReplication : GeoReplicationStats with
```

VB  
```vbnet
Public Property GeoReplication As GeoReplicationStats
    Get
    Private Set
End Property
```

Property Value

Type:  
```csharp
```

The geo-replication stats.
See Also

ServiceStats Class

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<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
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<tbody>
<tr>
<td>CloudFile</td>
<td>Represents a file in the Windows Azure File service.</td>
</tr>
<tr>
<td>CloudFileClient</td>
<td>Provides a client-side logical representation of the Windows Azure File service. This client is used to configure and execute requests against the File service.</td>
</tr>
<tr>
<td>CloudFileDirectory</td>
<td>Represents a directory of files, designated by a delimiter character.</td>
</tr>
<tr>
<td>CloudFileShare</td>
<td>Represents a share in the Windows Azure File service.</td>
</tr>
<tr>
<td>CloudFileStream</td>
<td>Represents a stream for writing to a file.</td>
</tr>
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</table>
## Interfaces

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<tr>
<th>Interface</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>IListFileItem</code></td>
<td>Represents an item that may be returned by a file listing operation.</td>
</tr>
</tbody>
</table>
## Enumerations

<table>
<thead>
<tr>
<th>Enumeration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FileSharePublicAccessType</strong></td>
<td>Specifies the level of public access that is allowed on the share.</td>
</tr>
<tr>
<td><strong>SharedAccessFilePermissions</strong></td>
<td>Specifies the set of possible permissions for a shared access policy.</td>
</tr>
<tr>
<td><strong>ShareListingDetails</strong></td>
<td>Specifies which details to include when listing the shares in this storage account.</td>
</tr>
<tr>
<td>CloudFile Constructor (StorageUri, StorageCredentials)</td>
<td>C#</td>
</tr>
<tr>
<td>------------------------------------------------------</td>
<td>----</td>
</tr>
<tr>
<td>(StorageUri^, StorageCredentials^)</td>
<td></td>
</tr>
<tr>
<td>(StorageUri, StorageCredentials)</td>
<td></td>
</tr>
</tbody>
</table>

See Also
Initializes a new instance of the **CloudFile** class using an absolute URI to the file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](https://github.com/Azure/azure-storage-net/
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public CloudFile(
    StorageUri fileAbsoluteUri,
    StorageCredentials credentials
)
```

C++
```cpp
public:
CloudFile(
    StorageUri^ fileAbsoluteUri,
    StorageCredentials^ credentials
)
```

F#
```fsharp
new :
    fileAbsoluteUri:StorageUri *
    credentials:StorageCredentials -> Cloud
```

VB
```vbnet
Public Sub New (
    fileAbsoluteUri As StorageUri,
    credentials As StorageCredentials
)
```

Parameters

`fileAbsoluteUri`
See Also

CloudFile Overload
CloudFile Class
CloudFile Constructor (Uri)(Uri^)(Uri)(Uri)

See Also
Initializes a new instance of the CloudFile class using an absolute URI to the file.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public CloudFile(
    Uri fileAbsoluteUri
)
```

C++  
```cpp
public:
CloudFile(
    Uri^ fileAbsoluteUri
)
```

F#  
```fsharp
new :
    fileAbsoluteUri:Uri -> CloudFile
```

VB  
```vbnet
Public Sub New (   
    fileAbsoluteUri As Uri
)
```

Parameters

`fileAbsoluteUri`
- Type: `System.Uri`  
  The absolute URI to the file.
See Also

CloudFile Overload
CloudFile Class

Return to top
### CloudFile Constructor (Uri, StorageCredentials)

(C#) `CloudFile(Uri, StorageCredentials)`

(C++) `CloudFile(Uri, StorageCredentials)`

(F#) `CloudFile(Uri, StorageCredentials)`

(VB) `CloudFile(Uri, StorageCredentials)`

See Also
Initializes a new instance of the `CloudFile` class using an absolute URI to the file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#
```csharp
public CloudFile(
    Uri fileAbsoluteUri,
    StorageCredentials credentials
)
```

C++
```cpp
public:
CloudFile(
    Uri^ fileAbsoluteUri,
    StorageCredentials^ credentials
)
```

F#
```fsharp
new :
    fileAbsoluteUri:Uri *
    credentials:StorageCredentials -> CloudFile
```

VB
```vbnet
Public Sub New (
    fileAbsoluteUri As Uri,
    credentials As StorageCredentials
)
```

Parameters

$fileAbsoluteUri$
See Also

CloudFile Overload
CloudFile Class

Return to top
CloudFile.CopyState Property

See Also
Gets the state of the most recent or pending copy operation.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public CopyState CopyState { get; }
```

C++  
```cpp
public:
property CopyState^ CopyState {  
    CopyState^ get();  
}
```

F#  
```fsharp
member CopyState : CopyState with get
```

VB  
```vbnet
Public ReadOnly Property CopyState As CopyState
```

Property Value

Type:

A `CopyState` object containing the copy state, or `null` if there is no copy state for the file.
See Also

CloudFile Class

Return to top
CloudFile::Metadata Property
See Also
Gets the user-defined metadata for the file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public IDictionary<string, string> Metadata { get; }

C++  
public:
property IDictionary<String^, String^>^ Metadata
    IDictionary<String^, String^>^ get();
}

F#  
member Metadata : IDictionary<string, string> with

VB  
Public ReadOnly Property Metadata As IDictionary

Property Value

Type:  
The file's metadata, as a collection of name-value pairs.
See Also

CloudFile Class

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<table>
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<tr>
<th>CloudFile.Name Property</th>
<th>CloudFile::Name Property</th>
<th>See Also</th>
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<tbody>
<tr>
<td>C#</td>
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<td>F#</td>
</tr>
<tr>
<td>VB</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Gets the file's name.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
public string Name { get; private set; }
```

**C++**

```cpp
public:
property String^ Name {
    String^ get();
    private: void set(String^ value);
}
```

**F#**

```fsharp
member Name : string with get, private set
```

**VB**

```vbnet
Public Property Name As String
    Get
    Private Set
End Property
```

**Property Value**

Type: `System.String` `String` `System.String` `System.String`

The file's name.
See Also

CloudFile Class

Return to top
CloudFile.Parent Property

See Also
Gets the `CloudFileDirectory` object representing the parent directory for the file.


Syntax

C#  
public CloudFileDirectory Parent { get; }

C++  
public:
property CloudFileDirectory^ Parent {
    virtual CloudFileDirectory^ get() sealed
}

F#  
abstract Parent : CloudFileDirectory with get
override Parent : CloudFileDirectory with get

VB  
Public ReadOnly Property Parent As CloudFileDirectory

Property Value

Type:  
A CloudFileDirectory object.

Implements

IListFileItem.Parent
IListFileItem::Parent
IListFileItem.Parent
IListFileItem.Parent
IListFileItem.Parent
IListFileItem.Parent
IListFileItem.Parent
IListFileItem.Parent
See Also

CloudFile Class

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<th>CloudFileDirectory Class</th>
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</thead>
<tbody>
<tr>
<td>C#</td>
<td>C++</td>
</tr>
</tbody>
</table>
Represents a directory of files, designated by a delimiter character.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System:::Object

### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td><code>public class CloudFileDirectory : IListFileItem</code></td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td><code>public ref class CloudFileDirectory : IListFileItem</code></td>
</tr>
</tbody>
</table>
| **F#**   | `type CloudFileDirectory =
    class
    interface IListFileItem
end` |
| **VB**   | `Public Class CloudFileDirectory
    Implements IListFileItem` |
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
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<tbody>
<tr>
<td>CloudFileDirectory(Uri)(Uri^)(Uri)(Uri)</td>
<td>Initializes a new instance of the CloudFileDirectory class using an absolute URI to the directory.</td>
</tr>
</tbody>
</table>
# Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metadata</td>
<td>Gets the user-defined metadata for the directory.</td>
</tr>
<tr>
<td>Name</td>
<td>Gets the name of the directory.</td>
</tr>
<tr>
<td>Parent</td>
<td>Gets a <code>CloudFileDirectory</code> object that represents the parent directory.</td>
</tr>
<tr>
<td>Properties</td>
<td>Gets a <code>FileDirectory</code> object that represents the directory’s system properties.</td>
</tr>
<tr>
<td>Methods</td>
<td>Name</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>-------------------------------------------</td>
</tr>
<tr>
<td>![BeginCreate](AsyncCallback, Object)</td>
<td>![AsyncCallback](AsyncCallback^, Object^)</td>
</tr>
<tr>
<td>![BeginCreate](FileRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>![AsyncCallback](FileRequestOptions, OperationContext, AsyncCallback^, Object^)</td>
</tr>
<tr>
<td>![BeginCreateIfNotExists](AsyncCallback, Object)</td>
<td>![AsyncCallback](AsyncCallback^, Object^)</td>
</tr>
<tr>
<td>![BeginCreateIfNotExists](FileRequestOptions, OperationContext, AsyncCallback, Object)</td>
<td>![AsyncCallback](FileRequestOptions, OperationContext, AsyncCallback^, Object^)</td>
</tr>
</tbody>
</table>
Remarks

Shares, which are encapsulated as CloudFileShare objects, hold directories, and directories hold files. Directories can also contain sub-directories.
Thread Safety

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


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See Also
Gets the file's system properties.

**Namespace:**  Microsoft.WindowsAzure.Storage.File
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public FileProperties Properties { get; }
```

C++  
```cpp
public:
property FileProperties^ Properties {
    FileProperties^ get();
}
```

F#  
```fsharp
member Properties : FileProperties with get
```

VB  
```vbnet
Public ReadOnly Property Properties As FileProperties
```

**Property Value**

Type:  
A `FileProperties` object.
See Also

CloudFile Class

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<td>CloudFile::ServiceClient</td>
<td>CloudFile::ServiceClient</td>
<td>CloudFile::ServiceClient</td>
</tr>
<tr>
<td>C++</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F#</td>
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</tbody>
</table>

See Also
Gets the CloudFileClient object that represents the File service.

Syntax

C#  
```csharp
public CloudFileClient ServiceClient { get; private set; }
```

C++  
```cpp
public:

    CloudFileClient* ServiceClient { 
        CloudFileClient* get();
        private: void set(CloudFileClient* value);
    }
```

F#  
```fsharp
member ServiceClient : CloudFileClient with get
```

VB  
```vbnet
Public Property ServiceClient As CloudFileClient

    Get
    Private Set

End Property
```

Property Value

Type:


A `CloudFileClient` object that specifies the File service endpoint.
See Also

CloudFile Class

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</table>
Provides a client-side logical representation of the Windows Azure File service. This client is used to configure and execute requests against the File service.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System..::..Object
### Syntax

**C#**
```
public class CloudFileClient
```

**C++**
```
public ref class CloudFileClient
```

**F#**
```
type CloudFileClient = class end
```

**VB**
```
Public Class CloudFileClient
```
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
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<tbody>
<tr>
<td>CloudFileClient(StorageUri, StorageCredentials)(StorageUri^, StorageCredentials^)(StorageUri, StorageCredentials)(StorageUri, StorageCredentials)</td>
<td>Initializes a new instance of the <strong>CloudFileClient</strong> class using the specified File service endpoint and account credentials.</td>
</tr>
<tr>
<td>CloudFileClient(Uri, StorageCredentials)(Uri^, StorageCredentials^)(Uri, StorageCredentials)(Uri, StorageCredentials)</td>
<td>Initializes a new instance of the <strong>CloudFileClient</strong> class using the specified File service endpoint and account credentials.</td>
</tr>
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</table>
## Properties

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<tr>
<th>Name</th>
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<tr>
<td>AuthenticationScheme</td>
</tr>
<tr>
<td>BaseUri</td>
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<tr>
<td>BufferManager</td>
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</table>
## Methods

<table>
<thead>
<tr>
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<tr>
<td>BeginGetServiceProperties(AsyncCallback, Object)</td>
</tr>
<tr>
<td>BeginGetServiceProperties(FileRequestOptions, OperationContext, AsyncCallback, Object)</td>
</tr>
<tr>
<td>BeginListSharesSegmented(FileContinuationToken, AsyncCallback, Object)</td>
</tr>
</tbody>
</table>
Remarks

The service client encapsulates the base URI for the File service. If the service client will be used for authenticated access, it also encapsulates the credentials for accessing 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.
See Also


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<tr>
<th>CloudFile.Share Property</th>
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</tbody>
</table>
Gets a CloudFileShare object representing the file's share.

Syntax

C#

```csharp
public CloudFileShare Share { get; }
```

C++

```cpp
public:
property CloudFileShare^ Share {
    virtual CloudFileShare^ get() sealed;
}
```

F#

```fsharp
abstract Share : CloudFileShare with get
override Share : CloudFileShare with get
```

VB

```vbnet
Public ReadOnly Property Share As CloudFileShare
```

Property Value

Type:


A `CloudFileShare` object.

Implements

- `IListFileItem.Share`
- `IListFileItem::Share`
- `IListFileItem.Share`
See Also

CloudFile Class

Return to top
CloudFileShare Class

See Also
Represents a share in the Windows Azure File service.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System..Object
Syntax

C#  
```csharp
public class CloudFileShare
```

C++  
```cpp
public ref class CloudFileShare
```

F#  
```fsharp
type CloudFileShare = class end
```

VB  
```vbnet
Public Class CloudFileShare
```
## Constructors

<table>
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<th>Name</th>
<th>Description</th>
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<tbody>
<tr>
<td><code>CloudFileShare(StorageUri, StorageCredentials)</code></td>
<td>Initializes a new instance of the <code>CloudFileShare</code> class.</td>
</tr>
<tr>
<td><code>CloudFileShare(Uri)(Uri)(Uri)</code></td>
<td>Initializes a new instance of the <code>CloudFileShare</code> class.</td>
</tr>
<tr>
<td><code>CloudFileShare(Uri, StorageCredentials)(Uri, StorageCredentials)</code></td>
<td>Initializes a new instance of the <code>CloudFileShare</code> class.</td>
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</table>
## Properties

<table>
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<tr>
<th>Name</th>
<th>Description</th>
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<tbody>
<tr>
<td>Metadata</td>
<td>Gets the share's metadata.</td>
</tr>
<tr>
<td>Name</td>
<td>Gets the name of the share.</td>
</tr>
<tr>
<td>Properties</td>
<td>Gets the share's system properties.</td>
</tr>
<tr>
<td>ServiceClient</td>
<td>Gets the service client for the share.</td>
</tr>
<tr>
<td>StorageUri</td>
<td>Gets the list of URIs for all locations.</td>
</tr>
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</table>
## Methods

<table>
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<tr>
<th>Name</th>
<th>Description</th>
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<tbody>
<tr>
<td>BeginCreate(AsyncCallback, Object)</td>
<td>(AsyncCallback^, Object^)(AsyncCallback, Object)</td>
</tr>
<tr>
<td>BeginCreate(FileRequestOptions, OperationContext, AsyncCallback, AsyncCallback^, Object^)</td>
<td>(FileRequestOptions, OperationContext, AsyncCallback, AsyncCallback^, Object^)(AsyncCallback, Object)</td>
</tr>
<tr>
<td>BeginCreateIfNotExists(AsyncCallback, Object)</td>
<td>(AsyncCallback^, Object^)(AsyncCallback, Object)</td>
</tr>
<tr>
<td>BeginCreateIfNotExists(FileRequestOptions, OperationContext, AsyncCallback, AsyncCallback^, Object^)</td>
<td>(FileRequestOptions, OperationContext, AsyncCallback, AsyncCallback^, Object^)(AsyncCallback, Object)</td>
</tr>
</tbody>
</table>
Remarks

Shares hold directories, which are encapsulated as CloudFileDirectory objects, and directories hold files. Directories can also contain sub-directories.
Thread Safety

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


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<td>CloudFile::StorageUri Property</td>
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<tr>
<td>CloudFile::StorageUri Property</td>
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</tr>
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</table>

See Also
Gets the absolute URI to the file.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
public StorageUri StorageUri { get; }
```

**C++**

```cpp
public:
    property StorageUri^ StorageUri {
        virtual StorageUri^ get() sealed;
    }
```

**F#**

```fsharp
abstract StorageUri : StorageUri with get
override StorageUri : StorageUri with get
```

**VB**

```vbnet
Public ReadOnly Property StorageUri As StorageUri
```

Property Value

Type:

`Microsoft.WindowsAzure.Storage.StorageUri`  
A `StorageUri` object.

Implements

`IListFileItem.StorageUri`
See Also

CloudFile Class

Return to top
CloudFile.StreamMinimumReadSizeInBytes

Property CloudFile::StreamMinimumReadSizeInBytes

Property CloudFile.StreamMinimumReadSizeInBytes

Property CloudFile.StreamMinimumReadSizeInBytes Property

See Also
Gets or sets the minimum number of bytes to buffer when reading from a file stream.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public int StreamMinimumReadSizeInBytes { get; set; }
```

C++

```cpp
public:
property int StreamMinimumReadSizeInBytes {
   int get();
   void set(int value);
}
```

F#

```fsharp
member StreamMinimumReadSizeInBytes : int with
```

VB

```vb
Public Property StreamMinimumReadSizeInBytes As
```

Property Value

Type: [System.Int32][System::Int32]

The minimum number of bytes to buffer, being at least 16KB.
See Also

CloudFile Class

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<tr>
<td>F#</td>
<td>CloudFile::StreamWriteSizeInBytes Property</td>
</tr>
<tr>
<td>VB</td>
<td>CloudFile::StreamWriteSizeInBytes Property</td>
</tr>
</tbody>
</table>

See Also
Gets or sets the number of bytes to buffer when writing to a file stream.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)  
**Assembly:**  [Microsoft.WindowsAzure.Storage](#) (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public int StreamWriteSizeInBytes { get; set; }
```

C++  
```cpp
public:
property int StreamWriteSizeInBytes {
    int get();
    void set(int value);
}
```

F#  
```fsharp
member StreamWriteSizeInBytes : int with get, set
```

VB  
```vb
Public Property StreamWriteSizeInBytes As Integer
```

Property Value

Type: System.Int32

The number of bytes to buffer, ranging from between 512 bytes and 4 MB inclusive.
See Also

CloudFile Class

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**See Also**
Gets the file's URI.

**Namespace:** Microsoft.WindowsAzure.Storage.File  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

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

**C++**

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

**F#**

```fsharp
abstract Uri : Uri with get
override Uri : Uri with get
```

**VB**

```vbnet
Public ReadOnly Property Uri As Uri
```

### Property Value

Type: `System.Uri`<br>
The absolute URI to the file.

### Implements

- `IListFileItem.Uri`<br> - `IListFileItem::Uri`<br> - `IListFileItem.Uri`
See Also

CloudFile Class

Return to top
CloudFile::AbortCopyAsync Method (String) (String^)(String)(String)

See Also
Initiates an asynchronous operation to abort an ongoing copy operation.

**Namespace:**  Microsoft.WindowsAzure.Storage.File

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task AbortCopyAsync(
    string copyId
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ AbortCopyAsync(
    String^ copyId
)

F#

[<DoesServiceRequestAttribute>]
abstract AbortCopyAsync :
    copyId:string -> Task
[<DoesServiceRequestAttribute>]
override AbortCopyAsync :
    copyId:string -> Task

VB

<DoesServiceRequestAttribute>
Public Overridable Function AbortCopyAsync ( 
    copyId As String 
) As Task
See Also

AbortCopyAsync_ Overload
CloudFile Class

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See Also
Initiates an asynchronous operation to abort an ongoing copy operation.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task AbortCopyAsync(
    string copyId,
    AccessCondition accessCondition, 
    FileRequestOptions options, 
    OperationContext operationContext
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ AbortCopyAsync( 
    String^ copyId, 
    AccessCondition^ accessCondition, 
    FileRequestOptions^ options, 
    OperationContext^ operationContext
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract AbortCopyAsync : 
    copyId:string *
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext -> Task

[<DoesServiceRequestAttribute>]
override AbortCopyAsync : 
    copyId:string *
```
See Also

AbortCopyAsync Overload
CloudFile Class

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See Also
Initiates an asynchronous operation to abort an ongoing copy operation.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task AbortCopyAsync(
    string copyId,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ AbortCopyAsync(
    String^ copyId,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract AbortCopyAsync :
    copyId:string *
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken
```
See Also

AbortCopyAsync Overload
CloudFile Class

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CloudFile::..AbortCopyAsync Method (String, CancellationToken)(String, CancellationToken)(String, CancellationToken)(String, CancellationToken)

See Also
Initiates an asynchronous operation to abort an ongoing copy operation.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task AbortCopyAsync(
    string copyId,
    CancellationToken cancellationToken
)

C++
public:
[DoesServiceRequestAttribute]
virtual Task^ AbortCopyAsync(
    String^ copyId,
    CancellationToken cancellationToken
)

F#
[<DoesServiceRequestAttribute>]
abstract AbortCopyAsync :
    copyId:string *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override AbortCopyAsync :
    copyId:string *
    cancellationToken:CancellationToken ->

VB
<DoesServiceRequestAttribute>
Public Overridable Function AbortCopyAsync (}
See Also

AbortCopyAsync Overload
CloudFile Class

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See Also
Begins an asynchronous operation to abort an ongoing copy operation.

**Namespace:**  Microsoft.WindowsAzure.Storage.File

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginAbortCopy(
    string copyId,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state)
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginAbortCopy(
    String^ copyId,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginAbortCopy :
    copyId:string *
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    callback:AsyncCallback *
    state:Object *
    ICancellableAsyncResult
```
See Also

BeginAbortCopy Overload
CloudFile Class

Return to top
CloudFile::BeginAbortCopy Method (String, AsyncCallback, Object)

See Also
Begins an asynchronous operation to abort an ongoing copy operation.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginAbortCopy(string copyId, AsyncCallback callback, object state)

C++
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginAbortCopy(String^ copyId, AsyncCallback^ callback, Object^ state)

F#
[<DoesServiceRequestAttribute>]
abstract BeginAbortCopy : 
    copyId:string *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginAbortCopy : 
    copyId:string *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
See Also

BeginAbortCopy Overload
CloudFile Class

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CloudFile::..BeginClearRange Method (Int64, Int64, AccessCondition, FileRequestOptions, OperationContext, AsyncCallback, Object)(Int64, Int64, AccessCondition^, FileRequestOptions^, OperationContext^, AsyncCallback^, Object^)(Int64, Int64, AccessCondition, FileRequestOptions, OperationContext, AsyncCallback, Object)(Int64, Int64, AccessCondition, FileRequestOptions, OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to clear ranges from a file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginClearRange(
    long startOffset,
    long length,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginClearRange(
    long long startOffset,
    long long length,
    AccessCondition* accessCondition,
    FileRequestOptions* options,
    OperationContext* operationContext,
    AsyncCallback* callback,
    Object* state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginClearRange :
    startOffset:int64* ->
```
See Also

BeginClearRange Overload
CloudFile Class

Return to top
CloudFile::BeginClearRange Method (Int64, Int64, AsyncCallback, Object)

See Also
Begins an asynchronous operation to clear ranges from a file.

**Namespace:** [Microsoft.WindowsAzure.Storage.File](http://www.microsoft.com)

**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginClearRange(
    long startOffset,
    long length,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
    [DoesServiceRequestAttribute]
    virtual ICancellableAsyncResult^ BeginClearRange(
        long long startOffset,
        long long length,
        AsyncCallback^ callback,
        Object^ state
    )
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginClearRange :
    startOffset:int64 *
    length:int64 *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginClearRange :
    startOffset:int64 *
```
See Also

- BeginClearRange Overload
- CloudFile Class

Return to top
CloudFile::...BeginCreate Method (Int64,
AccessCondition, FileRequestOptions,
OperationContext, AsyncCallback, Object)(Int64,
AccessCondition^, FileRequestOptions^, OperationContext^,
AsyncCallback^, Object^)(Int64, AccessCondition,
FileRequestOptions, OperationContext, AsyncCallback,
Object)(Int64, AccessCondition, FileRequestOptions,
OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to create a file.

**Namespace:** [Microsoft.WindowsAzure.Storage.File](#)  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginCreate(
    long size,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++  

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginCreate(
    long long size,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#  

[<DoesServiceRequestAttribute>]
abstract BeginCreate :
    size:int64 *
    accessCondition:AccessCondition *
    options:FileRequestOptions *
See Also

- BeginCreate_Overload
- CloudFile Class

Return to top
CloudFile::BeginCreate Method (Int64, AsyncCallback, Object)(Int64, AsyncCallback^, Object^)(Int64, AsyncCallback, Object)(Int64, AsyncCallback^, Object)

See Also
Begins an asynchronous operation to create a file.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginCreate(
    long size,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginCreate(
    long long size,
    AsyncCallback* callback,
    Object* state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginCreate :
    size:int64 *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginCreate :
    size:int64 *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
See Also

- BeginCreate_Overload
- CloudFile Class

Return to top
CloudFile::BeginDelete Method


See Also
Begins an asynchronous operation to delete the file.

**Namespace:**  Microsoft.WindowsAzure.Storage.File

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDelete(
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDelete(
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginDelete :
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
See Also

BeginDelete_Overload
CloudFile Class

Return to top
| CloudFile::BeginDelete Method (AsyncCallback, Object) (AsyncCallback^, Object^) (AsyncCallback, Object) (AsyncCallback, Object) |
|---|---|---|---|

See Also
Begins an asynchronous operation to delete the file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)

**Assembly:**  [Microsoft.WindowsAzure.Storage](#) (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDelete(AsyncCallback callback, object state)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDelete(AsyncCallback^ callback, Object^ state)

F#

[<DoesServiceRequestAttribute>]
abstract BeginDelete :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginDelete :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

VB

<DoesServiceRequestAttribute>
Public Overridable Function BeginDelete (
See Also

BeginDelete_Overload
CloudFile Class

Return to top
CloudFile::BeginDeleteIfExists Method

(ACCESSCONDITION, FILEREQUESTOPTIONS, OPERATIONCONTEXT, ASYNCCALLBACK, OBJECT)(ACCESSCONDITION^, FILEREQUESTOPTIONS^, OPERATIONCONTEXT^, ASYNCCALLBACK^, OBJECT^)(ACCESSCONDITION, FILEREQUESTOPTIONS, OPERATIONCONTEXT, ASYNCCALLBACK, OBJECT)(ACCESSCONDITION, FILEREQUESTOPTIONS, OPERATIONCONTEXT, ASYNCCALLBACK, OBJECT)

See Also
Begins an asynchronous request to delete the file if it already exists.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDeleteIfExists(
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDeleteIfExists(
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]
abstract BeginDeleteIfExists :
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object * -> ICancellableAsyncResult
See Also

BeginDeleteIfExists_Overload
CloudFile Class

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See Also
Begins an asynchronous request to delete the file if it already exists.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDeleteIfExists(AsyncCallback callback, object state)

C++
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDeleteIfExists(AsyncCallback^ callback, Object^ state)

F#
[<DoesServiceRequestAttribute>]
abstract BeginDeleteIfExists : callback:AsyncCallback * state:Object -> ICancellableAsyncResult
[<DoesServiceRequestAttribute>]
override BeginDeleteIfExists : callback:AsyncCallback * state:Object -> ICancellableAsyncResult

VB
< DoesServiceRequestAttribute>
Public Overridable Function BeginDeleteIfExists(AsyncCallback callback, Object state) As ICancellableAsyncResult
See Also

BeginDeleteIfExists_Overload
CloudFile Class

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CloudFile..BeginDownloadRangeToByteArray Method (Byte[], Int32, Nullable<Int64>, Nullable<Int64>, AccessCondition, FileRequestOptions, OperationContext, AsyncCallback, Object)
(array<Byte>^, Int32, Nullable<Int64>, Nullable<Int64>, AccessCondition^, FileRequestOptions^, OperationContext^, AsyncCallback^, Object^)(Byte[], Int32, Nullable<Int64>, Nullable<Int64>, AccessCondition, FileRequestOptions, OperationContext, AsyncCallback, Object)
(Byte(), Int32, Nullable(Of Int64), Nullable(Of Int64), AccessCondition, FileRequestOptions, OperationContext, AsyncCallback, Object)
See Also
Begins an asynchronous operation to download the contents of a file to a byte array.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDownloadRangeToByteArray(
    byte[] target,
    int index,
    Nullable<long> fileOffset,
    Nullable<long> length,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDownloadRangeToByteArray(
    array<unsigned char>^ target,
    int index,
    Nullable<long> fileOffset,
    Nullable<long> length,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginDownloadRangeToByteArray :
```
See Also

BeginDownloadRangeToByteArray Overload
CloudFile Class

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CloudFile::BeginDownloadRangeToByteArray Method (Byte[], Int32, Nullable<Int64>, Nullable<Int64>, AsyncCallback, Object)(array<Byte>^, Int32, Nullable<Int64>, Nullable<Int64>, AsyncCallback^, Object^)(Byte[], Int32, Nullable<Int64>, Nullable<Int64>, AsyncCallback, Object)(Byte(), Int32, Nullable(Of Int64), Nullable(Of Int64), AsyncCallback, Object)

See Also
Begins an asynchronous operation to download the contents of a file to a byte array.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDownloadRangeToByteArray(
    byte[] target,
    int index,
    Nullable<long> fileOffset,
    Nullable<long> length,
    AsyncCallback callback,
    object state
)

C++  
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDownloadRangeToByteArray(
    array<unsigned char>^ target,
    int index,
    Nullable<long long> fileOffset,
    Nullable<long long> length,
    AsyncCallback^ callback,
    Object^ state
)

F#  
[<DoesServiceRequestAttribute>]
abstract BeginDownloadRangeToByteArray :
    target:byte[] *
    index:int *
    fileOffset:Nullable<int64> *

See Also

BeginDownloadRangeToByteArray Overload
CloudFile Class

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CloudFile::BeginDownloadRangeToStream Method (Stream, Nullable<Int64>, Nullable<Int64>, AccessCondition, FileRequestOptions, OperationContext, AsyncCallback, Object)(Stream^, Nullable<Int64>, Nullable<Int64>, AccessCondition^, FileRequestOptions^, OperationContext^, AsyncCallback^, Object^)(Stream, Nullable<Int64>, Nullable<Int64>, AccessCondition, FileRequestOptions, OperationContext, AsyncCallback, Object)(Stream, Nullable(Of Int64), Nullable(Of Int64), AccessCondition, FileRequestOptions, OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to download the contents of a file to a stream.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDownloadRangeToStream(
    Stream target,
    Nullable<long> offset,
    Nullable<long> length,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++  
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDownloadRangeToStream(
    Stream^ target,
    Nullable<long> offset,
    Nullable<long> length,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#  
[<DoesServiceRequestAttribute>]
abstract BeginDownloadRangeToStream : target:Stream *
offset:Nullable<int64> *
...
See Also

BeginDownloadRangeToStream Overload
CloudFile Class

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CloudFile...BeginDownloadRangeToStream

Method (Stream, Nullable<Int64>, Nullable<Int64>, AsyncCallback, Object)(Stream^, Nullable<Int64>, Nullable<Int64>, AsyncCallback^, Object^)(Stream, Nullable<Int64>, Nullable<Int64>, AsyncCallback, Object)(Stream, Nullable(Of Int64), Nullable(Of Int64), AsyncCallback, Object)

See Also
Begins an asynchronous operation to download the contents of a file to a stream.

**Syntax**

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDownloadRangeToStream(
    Stream target,
    Nullable<long> offset,
    Nullable<long> length,
    AsyncCallback callback,
    object state
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDownloadRangeToStream(
    Stream^ target,
    Nullable<long> offset,
    Nullable<long> length,
    AsyncCallback^ callback,
    Object^ state
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginDownloadRangeToStream : 
    target:Stream * 
    offset:Nullable<int64> * 
    length:Nullable<int64> * 
    callback:AsyncCallback * 
    state:Object * -> ICancellableAsyncResult
```
See Also

- BeginDownloadRangeToStream Overload
- CloudFile Class

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### CloudFile::BeginDownloadText Method

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**See Also**
Begins an asynchronous operation to download the file's contents as a string.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDownloadText(
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:

[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDownloadText(
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginDownloadText :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginDownloadText :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```

VB

```vbnet```
```
<DoesServiceRequestAttribute>
Public Overridable Function BeginDownloadText
```

```vbnet```
See Also

BeginDownloadText overload
CloudFile Class

Return to top
CloudFile::BeginDownloadText Method

C#  

C++  

F#  

VB  


See Also
Begins an asynchronous operation to download the file's contents as a string.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancelableAsyncResult BeginDownloadText(
    Encoding encoding,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancelableAsyncResult^ BeginDownloadText(
    Encoding^ encoding,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginDownloadText :
    encoding:Encoding *
    accessCondition:AccessCondition *
    options:FileRequestOptions *
```
See Also

BeginDownloadText Overload
CloudFile Class

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See Also
Begins an asynchronous operation to download the contents of a file to a byte array.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](http://msdn.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDownloadToByteArray(
    byte[] target,
    int index,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDownloadToByteArray(
    array<unsigned char>^ target,
    int index,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginDownloadToByteArray :
    target:byte[] *
See Also

BeginDownloadToByteArray_Overload
CloudFile Class

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See Also
Begins an asynchronous operation to download the contents of a file to a byte array.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDownloadToByteArray(
    byte[] target,
    int index,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDownloadToByteArray(
    array<unsigned char>^ target,
    int index,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginDownloadToByteArray :
    target:byte[] *
    index:int *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginDownloadToByteArray :
    target:byte[] *
```
See Also

BeginDownloadToByteArray_Overload
CloudFile Class

Return to top
CloudFile::BeginDownloadToFile Method

C# C++ F# VB

(String, FileMode, AccessCondition,
FileRequestOptions, OperationContext, AsyncCallback,
Object)(String^, FileMode, AccessCondition^,
FileRequestOptions^, OperationContext^, AsyncCallback^,
Object^)(String, FileMode, AccessCondition,
FileRequestOptions, OperationContext, AsyncCallback,
Object)(String, FileMode, AccessCondition,
FileRequestOptions, OperationContext, AsyncCallback,
Object)

See Also
Begins an asynchronous operation to download the contents of a file in the File service to a local file.

**Syntax**

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDownloadToFile(
    string path,
    FileMode mode,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDownloadToFile(
    String^ path,
    FileMode mode,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginDownloadToFile : path:string *
```
See Also

BeginDownloadToFile_ Overload
CloudFile Class

Return to top
CloudFile::BeginDownloadToFile Method
(String, FileMode, AsyncCallback, Object)
(String^, FileMode, AsyncCallback^, Object^)(String, FileMode, AsyncCallback, Object)(String, FileMode, AsyncCallback, Object)

See Also
Begins an asynchronous operation to download the contents of a file in the File service to a local file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDownloadToFile(
    string path,
    FileMode mode,
    AsyncCallback callback,
    object state
)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDownloadToFile(
    String^ path,
    FileMode mode,
    AsyncCallback^ callback,
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]
abstract BeginDownloadToFile :
    path:string *
    mode:FileMode *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginDownloadToFile :
    path:string *
See Also

BeginDownloadToFile _Overload
CloudFile Class

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See Also
Begins an asynchronous operation to download the contents of a file to a stream.

Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDownload
    Stream target,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state

C++
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDownload
    Stream^ target,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state

F#
[<DoesServiceRequestAttribute>]
abstract BeginDownloadToStream :
    target:Stream *
    accessCondition:AccessCondition *
    options:FileRequestOptions *
See Also

BeginDownloadToStream_Overload
CloudFile Class

Return to top
CloudFile::BeginDownloadToStream Method

(Stream, AsyncCallback, Object)(Stream^, AsyncCallback^, Object^)(Stream, AsyncCallback, Object)
(_Stream, AsyncCallback, Object)

See Also
Begins an asynchronous operation to download the contents of a file to a stream.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginDownloadToStream(
    Stream target,
    AsyncCallback callback,
    object state
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginDownloadToStream(
    Stream^ target,
    AsyncCallback^ callback,
    Object^ state
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginDownloadToStream :
    target:Stream *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginDownloadToStream :
    target:Stream *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
See Also

BeginDownloadToStream_Overload
CloudFile Class

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CloudFile::BeginExists Method (AsyncCallback, Object) (AsyncCallback^, Object^) ( AsyncCallback, Object)(AsyncCallback, Object)

See Also
Begins an asynchronous request to check existence of the file.

**Namespace:**  Microsoft.WindowsAzure.Storage.File
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginExists(AsyncCallback callback, object state)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginExists(AsyncCallback^ callback, Object^ state)

F#

[<DoesServiceRequestAttribute>]
abstract BeginExists : callback:AsyncCallback * state:Object -> ICancellableAsyncResult
[<DoesServiceRequestAttribute>]
override BeginExists : callback:AsyncCallback * state:Object -> ICancellableAsyncResult

VB

<DoesServiceRequestAttribute>
Public Overridable Function BeginExists (
See Also

- BeginExists Overload
- CloudFile Class

Return to top
CloudFile::<...>.BeginExists Method

C# C++ F# VB

(FileRequestOptions, OperationContext,
AsyncCallback, Object)
(FileRequestOptions^,
OperationContext^, AsyncCallback^, Object^)
(FileRequestOptions, OperationContext, AsyncCallback,
Object)(FileRequestOptions, OperationContext,
AsyncCallback, Object)

See Also
Begins an asynchronous request to check existence of the file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginExists(
    FileRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginExists(
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginExists :
    options:FileRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginExists :
    options:FileRequestOptions *
```
See Also

- **BeginExists_ Overload**
- **CloudFile Class**
- **Microsoft.WindowsAzure.Storage.File Namespace**

[Return to top](#)
CloudFile..::.BeginFetchAttributes Method

(CrossMatched: C#)

C#++F#VB

(\(\text{AccessCondition}\), \(\text{FileRequestOptions}\),
\(\text{OperationContext}\), \(\text{AsyncCallback}\), \(\text{Object}\))

(\(\text{AccessCondition}^\wedge\),
\(\text{FileRequestOptions}^\wedge\), \(\text{OperationContext}^\wedge\), \(\text{AsyncCallback}^\wedge\),
\(\text{Object}^\wedge\))

(\(\text{AccessCondition}\), \(\text{FileRequestOptions}\), \(\text{OperationContext}\), \(\text{AsyncCallback}\),
\(\text{Object}\))

See Also
Begins an asynchronous operation to populate the file's properties and metadata.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginFetchAttributes(
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++  
```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginFetchAttributes(
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#  
```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginFetchAttributes :
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
See Also

BeginFetchAttributes_ Overload
CloudFile Class

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<tr>
<td>(AsyncCallback, Object^)</td>
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<td>(AsyncCallback^, Object)</td>
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<td>(AsyncCallback^, Object)</td>
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See Also
Begins an asynchronous operation to populate the file's properties and metadata.

**Namespace:**  Microsoft.WindowsAzure.Storage.File

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginFetchAttributes(
    AsyncCallback callback,
    object state
);

C++  
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginFetchAttributes(
    AsyncCallback^ callback,
    Object^ state
);

F#  
[<DoesServiceRequestAttribute>]
abstract BeginFetchAttributes :
    callback:AsyncCallback  *
    state:Object  ->  ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginFetchAttributes :
    callback:AsyncCallback  *
    state:Object  ->  ICancellableAsyncResult

VB  
<DoesServiceRequestAttribute>
Public Overridable Function BeginFetchAttributes
See Also

BeginFetchAttributes_Overload
CloudFile Class

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CloudFile::..BeginListRanges Method

(AsyncCallback, Object)(AsyncCallback^, Object^)(AsyncCallback, Object)(AsyncCallback, Object)

See Also
Begins an asynchronous operation to return a collection of valid ranges and their starting and ending bytes.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginListRanges(
    AsyncCallback callback,
    object state
)
```

C++

```c++
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginListRanges(
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginListRanges :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginListRanges :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```

VB

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function BeginListRanges (  
```

```vbnet
```
See Also

**BeginListRanges** Overload
CloudFile Class
**Microsoft.WindowsAzure.Storage.File Namespace**

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CloudFile::BeginListRanges Method

C#  C++  F#  VB

(Nullable<Int64>, Nullable<Int64>,
AccessCondition, FileRequestOptions, OperationContext,
AsyncCallback, Object)(Nullable<Int64>, Nullable<Int64>,
AccessCondition^, FileRequestOptions^, OperationContext^,
AsyncCallback^, Object^)(Nullable<Int64>, Nullable<Int64>,
AccessCondition, FileRequestOptions, OperationContext,
AsyncCallback, Object)(Nullable(Of Int64), Nullable(Of Int64),
AccessCondition, FileRequestOptions,
OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to return a collection of valid ranges and their starting and ending bytes.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginListRanges(
    Nullable<long> offset,
    Nullable<long> length,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++

public:

[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginListRanges(
    Nullable<long long> offset,
    Nullable<long long> length,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]
abstract BeginListRanges : 
    offset:Nullable<int64> *
    length:Nullable<int64> *
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object *
See Also

- BeginListRanges Overload
- CloudFile Class

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CloudFile::...BeginOpenRead Method

(C README, FileRequestOptions, OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to open a stream for reading from the file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginOpenRead(
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginOpenRead(
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state)

F#

[<DoesServiceRequestAttribute>]
abstract BeginOpenRead :
    accessCondition:AccessCondition* 
    options:FileRequestOptions* 
    operationContext:OperationContext* 
    callback:AsyncCallback* 
    state:Object* -> ICancellableAsyncResult
See Also

BeginOpenRead_Overload
CloudFile Class

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CloudFile::BeginOpenRead Method
(AsyncCallback, Object)(AsyncCallback^, Object^)(AsyncCallback, Object)(AsyncCallback, Object)

See Also
Begins an asynchronous operation to open a stream for reading from the file.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DllImport("your_dll")]
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginOpenRead(AsyncCallback callback, object state)

C++  

public:
[DllImport("your_dll")]
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginOpenRead(AsyncCallback* callback, Object* state)

F#  

[<DoesServiceRequestAttribute>]
abstract BeginOpenRead :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginOpenRead :
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

VB  

<DoesServiceRequestAttribute>
Public Overridable Function BeginOpenRead (
See Also

BeginOpenRead_Overload
CloudFile Class

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CloudFile::..BeginOpenWrite Method (Nullable<Int64>, AccessCondition, FileRequestOptions, OperationContext, AsyncCallback, Object)(Nullable<Int64>, AccessCondition^, FileRequestOptions^, OperationContext^, AsyncCallback^, Object^)(Nullable<Int64>, AccessCondition, FileRequestOptions, OperationContext, AsyncCallback, Object)(Nullable(Of Int64), AccessCondition, FileRequestOptions, OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to open a stream for writing to the file.

**Namespace:**  
Microsoft.WindowsAzure.Storage.File

**Assembly:**  
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginOpenWrite(
    Nullable<long> size,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginOpenWrite(
    Nullable<long> size,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginOpenWrite :
    size:Nullable<int64> *
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    ... -> ICancellableAsyncResult
```
See Also

BeginOpenWrite Overload
CloudFile Class

Return to top
CloudFile::..BeginOpenWrite Method  
(Nullable<Int64>, AsyncCallback, Object)  
(Nullable<Int64>, AsyncCallback^, Object^)  
(Nullable(Of Int64), AsyncCallback, Object)  
(Nullable(Of Int64), AsyncCallback^, Object^)  

See Also
Begins an asynchronous operation to open a stream for writing to the file.

Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginOpenWrite(Nullable<long> size, AsyncCallback callback, object state)

C++  

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginOpenWrite(Nullable<long long> size, AsyncCallback^ callback, Object^ state)

F#  

[<DoesServiceRequestAttribute>]
abstract BeginOpenWrite :
size:Nullable<int64> *
callback:AsyncCallback *
state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginOpenWrite :
size:Nullable<int64> *
callback:AsyncCallback *
state:Object -> ICancellableAsyncResult
See Also

BeginOpenWrite_ Overload
CloudFile Class

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CloudFile...BeginResize Method (Int64,
AccessCondition, FileRequestOptions,
OperationContext, AsyncCallback, Object)(Int64,
AccessCondition^, FileRequestOptions^, OperationContext^,
AsyncCallback^, Object^)(Int64, AccessCondition,
FileRequestOptions, OperationContext, AsyncCallback,
Object)(Int64, AccessCondition, FileRequestOptions,
OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to resize a file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginResize(
    long size,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginResize(
    long long size,
    AccessCondition* accessCondition,
    FileRequestOptions* options,
    OperationContext* operationContext,
    AsyncCallback* callback,
    Object* state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginResize :
    size:int64 *
    accessCondition:AccessCondition *
    options:FileRequestOptions *
```
See Also

BeginResize_Overload
CloudFile Class

Return to top
CloudFile:::BeginResize Method (Int64, AsyncCallback, Object)(Int64, AsyncCallback^, Object^)(Int64, AsyncCallback, Object)(Int64, AsyncCallback, Object)

See Also
Begins an asynchronous operation to resize a file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File]

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginResize(
    long size,
    AsyncCallback callback,
    object state
)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginResize(
    long long size,
    AsyncCallback^ callback,
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]
abstract BeginResize :
    size:int64 *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginResize :
    size:int64 *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
See Also

- BeginResize_Overload
- CloudFile Class

Return to top
CloudFile::BeginSetMetadata Method

(CheckCondition, FileRequestOptions, OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to update the file's metadata.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginSetMetadata(
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginSetMetadata(
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginSetMetadata :
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object * -> ICancellableAsyncResult
```
See Also

BeginSetMetadata_Overload
CloudFile Class

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See Also

[CloudFile]

[BeginSetMetadata]

[AsyncCallback]

[Object]
Begins an asynchronous operation to update the file's metadata.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginSetMetadata(AsyncCallback callback, object state)

C++  
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginSetMetadata(AsyncCallback^ callback, Object^ state)

F#  
[<DoesServiceRequestAttribute>]
abstract BeginSetMetadata : 
    callback:AsyncCallback * 
    state:Object -> ICancellableAsyncResult

VB  
<DoesServiceRequestAttribute>
Public Overridable Function BeginSetMetadata (AsyncCallback, Object) As ICancellableAsyncResult
See Also

BeginSetMetadata_Overload
CloudFile Class

Return to top
CloudFile.:::BeginSetProperties Method

(ACCESSCONDITION, FILEREQUESTOPTIONS,
OPERATIONCONTEXT, ASYNC_CALLBACK, OBJECT)(ACCESSCONDITION^,
FILEREQUESTOPTIONS^, OPERATIONCONTEXT^, ASYNC_CALLBACK^,
OBJECT^)(ACCESSCONDITION, FILEREQUESTOPTIONS,
OPERATIONCONTEXT, ASYNC_CALLBACK, OBJECT)(ACCESSCONDITION,
FILEREQUESTOPTIONS, OPERATIONCONTEXT, ASYNC_CALLBACK,
OBJECT)

See Also
Begins an asynchronous operation to update the file's properties.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginSetProperties(
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++  

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginSetProperties(
    AccessCondition* accessCondition,
    FileRequestOptions* options,
    OperationContext* operationContext,
    AsyncCallback* callback,
    Object* state
)

F#  

[<DoesServiceRequestAttribute>]
abstract BeginSetProperties :
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
See Also

BeginSetProperties Overload
CloudFile Class

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See Also
Begins an asynchronous operation to update the file's properties.

**Namespace:**  Microsoft.WindowsAzure.Storage.File

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginSetProperties(
    AsyncCallback callback,
    object state
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult\* BeginSetProperties(
    AsyncCallback\* callback,
    Object\* state
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginSetProperties :
    callback:AsyncCallback \* 
    state:Object \rightarrow ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginSetProperties :
    callback:AsyncCallback \* 
    state:Object \rightarrow ICancellableAsyncResult
```

VB  

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function BeginSetProperties(
    callback As AsyncCallback,
    state As Object
) As ICancellableAsyncResult
```
See Also

- **BeginSetProperties Overload**
- **CloudFile Class**
- **Microsoft.WindowsAzure.Storage.File Namespace**

[Return to top]

See Also
Begins an asynchronous operation to start copying a blob's contents, properties, and metadata to this Azure file.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginStartCopy(
    CloudBlob source,
    AccessCondition sourceAccessCondition,
    AccessCondition destAccessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginStartCopy(
    CloudBlob^ source,
    AccessCondition^ sourceAccessCondition,
    AccessCondition^ destAccessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]
abstract BeginStartCopy : 
    source:CloudBlob *
See Also

BeginStartCopy Overload
CloudFile Class

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See Also
Begins an asynchronous operation to start copying a blob's contents, properties, and metadata to this Azure file.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginStartCopy(
    CloudBlob source,
    AsyncCallback callback,
    object state
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginStartCopy(
    CloudBlob^ source,
    AsyncCallback^ callback,
    Object^ state
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginStartCopy :
    source: CloudBlob *
    callback: AsyncCallback *
    state: Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginStartCopy :
    source: CloudBlob *
    callback: AsyncCallback *
    state: Object -> ICancellableAsyncResult
```
See Also

BeginStartCopy Overload
CloudFile Class

Return to top
CloudFile::BeginStartCopy Method (CloudFile, AccessCondition, AccessCondition,
FileRequestOptions, OperationContext, AsyncCallback, Object)
(CloudFile^, AccessCondition^, AccessCondition^,
FileRequestOptions^, OperationContext^, AsyncCallback^,
Object^)(CloudFile, AccessCondition, AccessCondition,
FileRequestOptions, OperationContext, AsyncCallback,
Object)(CloudFile, AccessCondition, AccessCondition,
FileRequestOptions, OperationContext, AsyncCallback,
Object)

See Also
Begins an asynchronous operation to start copying another file's contents, properties, and metadata to this file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginStartCopy(
    CloudFile source,
    AccessCondition sourceAccessCondition,
    AccessCondition destAccessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginStartCopy(
    CloudFile^ source,
    AccessCondition^ sourceAccessCondition,
    AccessCondition^ destAccessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginStartCopy : 
    source:CloudFile *
See Also

BeginStartCopy Overload
CloudFile Class

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See Also
Begins an asynchronous operation to start copying another file's contents, properties, and metadata to this file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginStartCopy(
    CloudFile source,
    AsyncCallback callback,
    object state
)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginStartCopy(
    CloudFile^ source,
    AsyncCallback^ callback,
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]
abstract BeginStartCopy :
    source:CloudFile *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginStartCopy :
    source:CloudFile *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
See Also

BeginStartCopy Overload
CloudFile Class

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See Also
Begins an asynchronous operation to start copying another Azure file or blob's contents, properties, and metadata to this Azure file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginStartCopy(
    Uri source,
    AccessCondition sourceAccessCondition,
    AccessCondition destAccessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginStartCopy(
    Uri^ source,
    AccessCondition^ sourceAccessCondition,
    AccessCondition^ destAccessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginStartCopy : 
    source:Uri * 
    sourceAccessCondition:AccessCondition * 
    destAccessCondition:AccessCondition * 
    options:FileRequestOptions * 
    operationContext:OperationContext * 
    callback:AsyncCallback * 
    state:Object * 
```
See Also

Begin

End

Copy Overload

CloudFile Class


Return to top
CloudFile::BeginStartCopy Method (Uri, AsyncCallback, Object)(Uri^, AsyncCallback^, Object^)(Uri, AsyncCallback, Object)(Uri, AsyncCallback, Object)

See Also
Begins an asynchronous operation to start copying another Azure file or blob's contents, properties, and metadata to this Azure file.

**Namespace:**  Microsoft.WindowsAzure.Storage.File

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginStartCopy(
    Uri source,
    AsyncCallback callback,
    object state
)
```  

C++  

```c++
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginStartCopy(
    Uri^ source,
    AsyncCallback^ callback,
    Object^ state
)
```  

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginStartCopy :
    source:Uri *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginStartCopy :
    source:Uri *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
See Also

BeginCopy Overload
CloudFile Class

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CloudFile::<...BeginUploadFromByteArray Method
(Byte[], Int32, Int32, AccessCondition,
FileRequestOptions, OperationContext, AsyncCallback,
Object)(array<Byte>^, Int32, Int32, AccessCondition^,
FileRequestOptions^, OperationContext^, AsyncCallback^,
Object^)(Byte[], Int32, Int32, AccessCondition,
FileRequestOptions, OperationContext, AsyncCallback,
Object)(Byte(), Int32, Int32, AccessCondition,
FileRequestOptions, OperationContext, AsyncCallback,
Object)

See Also
Begins an asynchronous operation to upload the contents of a byte array to a file.

**Namespace:**  `Microsoft.WindowsAzure.Storage.File`  
**Assembly:**  `Microsoft.WindowsAzure.Storage` (in `Microsoft.WindowsAzure.Storage.dll`)
**Syntax**

**C#**

```
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadFromByteArray(
    byte[] buffer,
    int index,
    int count,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state)
```

**C++**

```
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginUploadFromByteArray(
    array<unsigned char>^ buffer,
    int index,
    int count,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state)
```

**F#**

```
[<DoesServiceRequestAttribute>]
```
See Also

BeginUploadFromByteArray Overload
CloudFile Class

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CloudFile::BeginUploadFromByteArray Method

C# C++ F# VB
(Byte[], Int32, Int32, AsyncCallback, Object)
(array<Byte>^, Int32, Int32, AsyncCallback^, Object^)
(Byte[], Int32, Int32, AsyncCallback, Object)(Byte(), Int32, Int32, AsyncCallback, Object)

See Also
Begins an asynchronous operation to upload the contents of a byte array to a file.

**Namespace:**  Microsoft.WindowsAzure.Storage.File

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DllImport]
public virtual ICancellableAsyncResult BeginUploadFromByteArray(
    byte[] buffer,
    int index,
    int count,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:

[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginUploadFromByteArray(
    array<unsigned char>* buffer,
    int index,
    int count,
    AsyncCallback* callback,
    Object* state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginUploadFromByteArray :
    buffer:byte[] *
    index:int *
    count:int *
    callback:AsyncCallback *
    state:Object * -> ICancellableAsyncResult
```
See Also

BeginUploadFromByteArray_Overload
CloudFile Class

Return to top
CloudFile::BeginUploadFromFile Method

C# C++ F# VB


See Also
Begins an asynchronous operation to upload a file to the File service. If the file already exists on the service, it will be overwritten.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadFromFile(
    string path,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++  

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginUploadFromFile(
    String* path,
    AccessCondition* accessCondition,
    FileRequestOptions* options,
    OperationContext* operationContext,
    AsyncCallback* callback,
    Object* state
)

F#  

[<DoesServiceRequestAttribute>]
abstract BeginUploadFromFile : 
    path:string *
    accessCondition:AccessCondition *
    options:FileRequestOptions *
See Also

BeginUploadFromFile_ Overload
CloudFile Class

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CloudFileBeginUploadFromFile Method  C#C++F#VB
(String, AsyncCallback, Object)(String^,
AsyncCallback^, Object^)(String, AsyncCallback, Object)
(String, AsyncCallback, Object)

See Also
Begins an asynchronous operation to upload a file to the File service. If the file already exists on the service, it will be overwritten.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadFromFile(
    string path,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginUploadFromFile(
    String^ path,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginUploadFromFile :
    path:string *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginUploadFromFile :
    path:string *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
See Also

BeginUploadFromFile Overload
CloudFile Class

Return to top
CloudFile.:...BeginUploadFromStream Method

C# ++ F# VB

(Stream, AccessCondition, FileRequestOptions,
OperationContext, AsyncCallback, Object)(Stream^,
AccessCondition^, FileRequestOptions^, OperationContext^,
AsyncCallback^, Object^)(Stream, AccessCondition,
FileRequestOptions, OperationContext, AsyncCallback,
Object)(Stream, AccessCondition, FileRequestOptions,
OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to upload a stream to a file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](/microsoft.windowsazure/storage/file)
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadFromStream(
    Stream source,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginUploadFromStream(
    Stream^ source,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginUploadFromStream : 
    source:Stream * 
    accessCondition:AccessCondition * 
    options:FileRequestOptions * 
    ```
See Also

BeginUploadFromStream_Overload
CloudFile Class

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See Also

CloudFile::BeginUploadFromStream Method (Stream, AsyncCallback, Object)
Begins an asynchronous operation to upload a stream to a file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadFromStream(
    Stream source,
    AsyncCallback callback,
    object state
)

C++  

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginUploadFromStream(
    Stream^ source,
    AsyncCallback^ callback,
    Object^ state
)

F#  

[<DoesServiceRequestAttribute>]
abstract BeginUploadFromStream : 
    source:Stream *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginUploadFromStream : 
    source:Stream *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
See Also

BeginUploadFromStream_Overload
CloudFile Class

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CloudFile.:::BeginUploadFromStream Method
(Stream, Int64, AccessCondition,
FileRequestOptions, OperationContext, AsyncCallback,
Object)(Stream, Int64, AccessCondition,
FileRequestOptions, OperationContext, AsyncCallback,
Object)(Stream, Int64, AccessCondition,
FileRequestOptions, OperationContext, AsyncCallback,
Object)(Stream, Int64, AccessCondition, FileRequestOptions,
OperationContext, AsyncCallback, Object)

See Also
Begins an asynchronous operation to upload a stream to a file.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
**public virtual** ICancellableAsyncResult BeginUploadFromStream(
    Stream source,
    **long** length,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++

**public:**
[DoesServiceRequestAttribute]
**virtual** ICancellableAsyncResult^ BeginUploadFromStream(
    Stream^ source,
    **long long** length,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]
**abstract** BeginUploadFromStream :
    source:Stream *
See Also

BeginUploadFromStream_Overload
CloudFile Class

Return to top
CloudFile::BeginUploadFromStream Method

C#++F#VB

(Stream, Int64, AsyncCallback, Object)(Stream^, Int64, AsyncCallback^, Object^)(Stream, Int64, AsyncCallback, Object)(Stream, Int64, AsyncCallback, Object)

See Also
Begins an asynchronous operation to upload a stream to a file.

Syntax

C#  

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadFromStream(
    Stream source,
    long length,
    AsyncCallback callback,
    object state
)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginUploadFromStream(
    Stream^ source,
    long long length,
    AsyncCallback^ callback,
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]
abstract BeginUploadFromStream : 
    source:Stream * 
    length:int64 * 
    callback:AsyncCallback * 
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginUploadFromStream : 
    source:Stream *
See Also

BeginUploadFromStream_Overload
CloudFile Class

Return to top
CloudFile::BeginUploadText Method (String, AsyncCallback, Object)

See Also
Begins an asynchronous operation to upload a string of text to a file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadText(
    string content,
    AsyncCallback callback,
    object state
)
```

C++

```
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult* BeginUploadText(
    String^ content,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```
[<DoesServiceRequestAttribute>]
abstract BeginUploadText :
    content:string *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult

[<DoesServiceRequestAttribute>]
override BeginUploadText :
    content:string *
    callback:AsyncCallback *
    state:Object -> ICancellableAsyncResult
```
See Also

**BeginUploadText Overload**

**CloudFile Class**

**Microsoft.WindowsAzure.Storage.File Namespace**

[Return to top](#)

See Also
Begins an asynchronous operation to upload a string of text to a file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)  
**Assembly:**  [Microsoft.WindowsAzure.Storage](#)  
(in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginUploadText(
    string content,
    Encoding encoding,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++  
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginUploadText(
    String^ content,
    Encoding^ encoding,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#  
[<DoesServiceRequestAttribute>]
abstract BeginUploadText : 
    content:string* 

See Also

BeginUploadText Overload
CloudFile Class

Return to top

See Also
Begins an asynchronous operation to write a range to a file.

Syntax

C#

[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginWriteRange(
    Stream rangeData,
    long startOffset,
    string contentMD5,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    AsyncCallback callback,
    object state
)

C++

public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginWriteRange(
    Stream^ rangeData,
    long long startOffset,
    String^ contentMD5,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    AsyncCallback^ callback,
    Object^ state
)

F#

[<DoesServiceRequestAttribute>]
abstract BeginWriteRange : rangeData:Stream ->
    startOffset:int64 -> contentMD5:string ->
    accessCondition:AccessCondition ->
    options:FileRequestOptions ->
    operationContext:OperationContext ->
    callback:AsyncCallback ->
    state:object ->
    ICancellableAsyncResult
See Also

- BeginWriteRange Overload
- CloudFile Class

Return to top
CloudFile:::BeginWriteRange Method (Stream, Int64, String, AsyncCallback, Object)(Stream^, Int64, String^, AsyncCallback^, Object^)(Stream, Int64, String, AsyncCallback, Object)(Stream, Int64, String, AsyncCallback, Object)

See Also
Begins an asynchronous operation to write a range to a file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual ICancellableAsyncResult BeginWriteRange(
    Stream rangeData,
    long startOffset,
    string contentMD5,
    AsyncCallback callback,
    object state
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual ICancellableAsyncResult^ BeginWriteRange(
    Stream^ rangeData,
    long long startOffset,
    String^ contentMD5,
    AsyncCallback^ callback,
    Object^ state
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract BeginWriteRange :
    rangeData:Stream  *
    startOffset:int64  *
    contentMD5:string  *
    callback:AsyncCallback  *
    state:Object  ->  ICancellableAsyncResult
```

See Also

- BeginWriteRange Overload
- CloudFile Class

Return to top
CloudFile::ClearRangeAsync Method (Int64, Int64)(Int64, Int64)(Int64, Int64)(Int64, Int64)

See Also
Returns a task that performs an asynchronous operation to clear ranges from a file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task ClearRangeAsync(
    long startOffset,
    long length
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task ClearRangeAsync(
    long startOffset,
    long length
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract ClearRangeAsync :
    startOffset:int64 *
    length:int64 -> Task
[<DoesServiceRequestAttribute>]
override ClearRangeAsync :
    startOffset:int64 *
    length:int64 -> Task
```

VB

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function ClearRangeAsync ( 
```

```vbnet```
See Also

ClearRangeAsync Overload
CloudFile Class

Return to top
CloudFile:::ClearRangeAsync Method (Int64, Int64, AccessCondition, FileRequestOptions, OperationContext)(Int64, Int64, AccessCondition^, FileRequestOptions^, OperationContext^)(Int64, Int64, AccessCondition, FileRequestOptions, OperationContext) (Int64, Int64, AccessCondition, FileRequestOptions, OperationContext)

See Also
Returns a task that performs an asynchronous operation to clear ranges from a file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](javascript:)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

#### C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task ClearRangeAsync(
    long startOffset,
    long length,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext
)
```

#### C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ ClearRangeAsync(
    long long startOffset,
    long long length,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext
)
```

#### F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract ClearRangeAsync :
    startOffset:int64 *
    length:int64 *
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext *
```

See Also

[ClearRangeAsync Overload](#)
[CloudFile Class](#)

[Return to top](#)
CloudFile:::ClearRangeAsync Method (Int64, Int64, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)(Int64, Int64, AccessCondition^, FileRequestOptions^, OperationContext^, CancellationToken)(Int64, Int64, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)(Int64, Int64, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)

See Also
Returns a task that performs an asynchronous operation to clear ranges from a file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task ClearRangeAsync(
    long startOffset,
    long length,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ ClearRangeAsync(
    long startOffset,
    long length,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract ClearRangeAsync :
    startOffset:int64 *
    length:int64 *
    accessCondition:AccessCondition *
```
See Also

ClearRangeAsync Overload
CloudFile Class

Return to top
ClearRangeAsync Method (Int64, Int64, CancellationToken)(Int64, Int64, CancellationToken)(Int64, Int64, CancellationToken)(Int64, Int64, CancellationToken)

See Also
Returns a task that performs an asynchronous operation to clear ranges from a file.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task ClearRangeAsync(
    long startOffset,
    long length,
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ ClearRangeAsync(
    long long startOffset,
    long long length,
    CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract ClearRangeAsync :
    startOffset:int64 *
    length:int64 *
    cancellationToken:CancellationToken -

[<DoesServiceRequestAttribute>]
override ClearRangeAsync :
    startOffset:int64 *
    length:int64 *
    cancellationToken:CancellationToken -
See Also

ClearRangeAsync_Overload
CloudFile Class

Return to top
CloudFile..::.CreateAsync Method (Int64)(Int64)
(Int64)(Int64)

See Also
Returns a task that performs an asynchronous operation to create a file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task CreateAsync(
    long size
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ CreateAsync(
    long long size
)

F#

[<DoesServiceRequestAttribute>]
abstract CreateAsync :
    size:int64 -> Task
[<DoesServiceRequestAttribute>]
override CreateAsync :
    size:int64 -> Task

VB

<DoesServiceRequestAttribute>
Public Overridable Function CreateAsync ( 
    size As Long
) As Task
See Also

CreateAsync_ Overload
CloudFile Class

Return to top
CloudFile.:::CreateAsync Method (Int64, AccessCondition, FileRequestOptions, OperationContext)(Int64, AccessCondition^, FileRequestOptions^, OperationContext^)(Int64, AccessCondition, FileRequestOptions, OperationContext)

See Also
Returns a task that performs an asynchronous operation to create a file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
**public virtual** Task CreateAsync(
    long size,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext
)

C++  

**public:**
[DoesServiceRequestAttribute]
**virtual** Task^ CreateAsync(
    **long long** size,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext
)

F#  

[<DoesServiceRequestAttribute>]
**abstract** CreateAsync :
    size:int64 *
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext -> Task

[<DoesServiceRequestAttribute>]
**override** CreateAsync :
    size:int64 *
See Also

CreateAsync_Overload
CloudFile Class

Return to top
CloudFile::CreateAsync Method (Int64, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)(Int64, AccessCondition^, FileRequestOptions^, OperationContext^, CancellationToken)(Int64, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)(Int64, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)
Returns a task that performs an asynchronous operation to create a file.

Syntax

C#  Copy Code

[DoesServiceRequestAttribute]
public virtual Task CreateAsync(
    long size,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++  Copy Code

public:
[DoesServiceRequestAttribute]
virtual Task^ CreateAsync(
    long long size,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#  Copy Code

[<DoesServiceRequestAttribute>]
abstract CreateAsync :
    size:int64 *
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken *
See Also

CreateAsync_Overload
CloudFile Class

Return to top
CloudFile..::.CreateAsync Method (Int64, CancellationToken)(Int64, CancellationToken)
(Int64, CancellationToken)(Int64, CancellationToken)

See Also
Returns a task that performs an asynchronous operation to create a file.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task CreateAsync(
    long size,
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ CreateAsync(
    long long size,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract CreateAsync :
    size:int64 *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override CreateAsync :
    size:int64 *
    cancellationToken:CancellationToken ->
```

VB

```vb
<DoesServiceRequestAttribute>
Public Overridable Function CreateAsync (
See Also

CreateAsync_Overload
CloudFile Class

Return to top
CloudFile::DeleteAsync Method ()()
Returns a task that performs an asynchronous operation to delete the file.

Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task DeleteAsync()

C++  
public:
[DoesServiceRequestAttribute]
virtual Task^ DeleteAsync()

F#  
[<DoesServiceRequestAttribute>]
abstract DeleteAsync : unit -> Task
[<DoesServiceRequestAttribute>]
override DeleteAsync : unit -> Task

VB  
<DoesServiceRequestAttribute>
Public Overridable Function DeleteAsync As Task

Return Value

Type:  
A Task object that represents the current operation.
See Also

DeleteAsync_Overload
CloudFile Class

Return to top
CloudFile.DeleteAsync Method

C# C++ F# VB

(ACCESSCONDITION, FILEREQUESTOPTIONS, OPERATIONCONTEXT)(ACCESSCONDITION^, FILEREQUESTOPTIONS^, OPERATIONCONTEXT^)(ACCESSCONDITION, FILEREQUESTOPTIONS, OPERATIONCONTEXT)

See Also
Returns a task that performs an asynchronous operation to delete the file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task DeleteAsync(
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task^ DeleteAsync(
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext
)

F#  
[<DoesServiceRequestAttribute>]
abstract DeleteAsync :
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext -> Task

[<DoesServiceRequestAttribute>]
override DeleteAsync :
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext -> Task
See Also

DeleteAsync_ Overload
CloudFile Class

Return to top
CloudFile::DeleteAsync Method

\[
\text{(AccessCondition, FileRequestOptions, OperationContext, CancellationToken)}(\text{AccessCondition^, FileRequestOptions^, OperationContext^, CancellationToken})
\]

See Also
Returns a task that performs an asynchronous operation to delete the file.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task DeleteAsync(
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++

public:
    [DoesServiceRequestAttribute]
    virtual Task^ DeleteAsync(
        AccessCondition^ accessCondition, 
        FileRequestOptions^ options, 
        OperationContext^ operationContext, 
        CancellationToken cancellationToken
    )

F#

[<DoesServiceRequestAttribute>]
abstract DeleteAsync :
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override DeleteAsync :
    accessCondition:AccessCondition *
See Also

DeleteAsync_ Overload
CloudFile Class

Return to top
CloudFile.
	DeleteAsync Method

(CancellationToken)
(CancellationToken)
See Also
Returns a task that performs an asynchronous operation to delete the file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task DeleteAsync(
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ DeleteAsync(
    CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract DeleteAsync :
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override DeleteAsync :
    cancellationToken:CancellationToken ->

VB

<DoesServiceRequestAttribute>
Public Overridable Function DeleteAsync (cancellationToken As CancellationToken) As Task
See Also

DeleteAsync_Overload
CloudFile Class

Return to top
Returns a task that performs an asynchronous request to delete the file if it already exists.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<bool> DeleteIfExistsAsync()
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<bool>^ DeleteIfExistsAsync()
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract DeleteIfExistsAsync : unit -> Task<bool>
[<DoesServiceRequestAttribute>]
override DeleteIfExistsAsync : unit -> Task<bool>
```

VB  

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function DeleteIfExistsAsync
```

Return Value

Type:

```csharp
System.Threading.Tasks.Task<

A Task<TResult>(Of TResult) object that represents the current operation.
```
See Also

DeleteIfExistsAsync_ Overload
CloudFile Class

Return to top
CloudFile::..DeleteIfExistsAsync Method


See Also
Returns a task that performs an asynchronous request to delete the file if it already exists.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]  
public virtual Task<bool> DeleteIfExistsAsync(
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext
)

C++

public:

[DoesServiceRequestAttribute]
virtual Task<bool>^ DeleteIfExistsAsync(
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext
)

F#

[<DoesServiceRequestAttribute>]
abstract DeleteIfExistsAsync :
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext -> Task<bool>

[<DoesServiceRequestAttribute>]
override DeleteIfExistsAsync :
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext -> Task<bool>
See Also

DeleteIfExistsAsync Overload
CloudFile Class

Return to top
CloudFile.DeleteIfExistsAsync Method
(AccessCondition, FileRequestOptions, OperationContext, CancellationToken)
(AccessCondition^, FileRequestOptions^, OperationContext^, CancellationToken)
(AccessCondition, FileRequestOptions, OperationContext, CancellationToken)
(AccessCondition, FileRequestOptions, OperationContext, CancellationToken)

See Also
Returns a task that performs an asynchronous request to delete the file if it already exists.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)

**Assembly:**  [Microsoft.WindowsAzure.Storage](#) (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task<bool> DeleteIfExistsAsync(
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task<bool>^ DeleteIfExistsAsync(
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#  

[<DoesServiceRequestAttribute>]
abstract DeleteIfExistsAsync :
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override DeleteIfExistsAsync :
    accessCondition:AccessCondition *
See Also

DeleteIfExistsAsync_ Overload
CloudFile Class

Return to top
<table>
<thead>
<tr>
<th>CloudFile::...DeleteIfExistsAsync Method (CancellationToken)(CancellationToken) (CancellationToken)(CancellationToken)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>See Also</strong></td>
</tr>
</tbody>
</table>
Returns a task that performs an asynchronous request to delete the file if it already exists.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  Copy Code

[DoesServiceRequestAttribute]
public virtual Task<bool> DeleteIfExistsAsync(
    CancellationToken cancellationToken
)

C++  Copy Code

public:
[DoesServiceRequestAttribute]
virtual Task<bool>^ DeleteIfExistsAsync( 
    CancellationToken cancellationToken
)

F#  Copy Code

[<DoesServiceRequestAttribute>]
abstract DeleteIfExistsAsync :
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override DeleteIfExistsAsync :
    cancellationToken:CancellationToken ->

VB  Copy Code

<DoesServiceRequestAttribute>
Public Overridable Function DeleteIfExistsAsync
    cancellationToken As CancellationToken
) As Task(Of Boolean)
See Also

DeleteIfExistsAsync Overload
CloudFile Class

Return to top
| **CloudFile.DownloadRangeToByteArrayAsync** Method (Byte[], Int32, Nullable<Int64>, Nullable<Int64>)<br>array<Byte>^, Int32, Nullable<Int64>, Nullable<Int64>)(Byte[], Int32, Nullable<Int64>, Nullable<Int64>)(Byte(), Int32, Nullable(Of Int64), Nullable(Of Int64)) | **See Also** |
Returns a task that performs an asynchronous operation to download the contents of a file to a byte array.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<int> DownloadRangeToByteArrayAsync(
    byte[] target,
    int index,
    Nullable<long> fileOffset,
    Nullable<long> length
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<int>^ DownloadRangeToByteArrayAsync(
    array<unsigned char>^ target,
    int index,
    Nullable<long long> fileOffset,
    Nullable<long long> length
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadRangeToByteArrayAsync :
    target:byte[] *
    index:int *
    fileOffset:Nullable<int64> *
    length:Nullable<int64> -> Task<int>

[<DoesServiceRequestAttribute>]
override DownloadRangeToByteArrayAsync :
    target:byte[] *
See Also

DownloadRangeToByteArrayAsync Overload
CloudFile Class

Return to top
CloudFile.::.DownloadRangeToByteArrayAsync Method (Byte[], Int32, Nullable<Int64>, Nullable<Int64>, AccessCondition, FileRequestOptions, OperationContext)(array<Byte>^, Int32, Nullable<Int64>, Nullable<Int64>, AccessCondition^, FileRequestOptions^, OperationContext^)(Byte[], Int32, Nullable<Int64>, Nullable<Int64>, AccessCondition, FileRequestOptions, OperationContext)(Byte(), Int32, Nullable(Of Int64), Nullable(Of Int64), AccessCondition, FileRequestOptions, OperationContext)

See Also
Returns a task that performs an asynchronous operation to download the contents of a file to a byte array.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task<int> DownloadRangeToByteArrayAsync(
    byte[] target,
    int index,
    Nullable<long> fileOffset,
    Nullable<long> length,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<int>^
DownloadRangeToByteArrayAsync(
    array<unsigned char>^
    target,
    int index,
    Nullable<long long> fileOffset,
    Nullable<long long> length,
    AccessCondition^
    accessCondition,
    FileRequestOptions^
    options,
    OperationContext^
    operationContext
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadRangeToByteArrayAsync :
    target:byte[] *
```
See Also

DownloadRangeToByteArrayAsync Overload
CloudFile Class

Return to top
CloudFile::DownloadRangeToByteArrayAsync Method (Byte[], Int32, Nullable<Int64>, Nullable<Int64>, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)(array<Byte>^, Int32, Nullable<Int64>, Nullable<Int64>, AccessCondition^, FileRequestOptions^, OperationContext^, CancellationToken)(Byte[], Int32, Nullable<Int64>, Nullable<Int64>, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)(Byte(), Int32, Nullable(Of Int64), Nullable(Of Int64), AccessCondition, FileRequestOptions, OperationContext, CancellationToken)

See Also
Returns a task that performs an asynchronous operation to download the contents of a file to a byte array.

**Namespace:**  Microsoft.WindowsAzure.Storage.File

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task<int> DownloadRangeToByteArrayAsync(
    byte[] target,
    int index,
    Nullable<long> fileOffset,
    Nullable<long> length,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<int>^ DownloadRangeToByteArrayAsync(
    array<unsigned char>^ target,
    int index,
    Nullable<long long> fileOffset,
    Nullable<long long> length,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
```
See Also

DownloadRangeToByteArrayAsync Overload
CloudFile Class

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CloudFile::DownloadRangeToByteArrayAsync Method (Byte[], Int32, Nullable<Int64>, Nullable<Int64>, CancellationToken)(array<Byte>^, Int32, Nullable<Int64>, Nullable<Int64>, CancellationToken)(Byte[], Int32, Nullable<Int64>, Nullable<Int64>, CancellationToken)(Byte(), Int32, Nullable(Of Int64), Nullable(Of Int64), CancellationToken)

See Also
Returns a task that performs an asynchronous operation to download the contents of a file to a byte array.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<int> DownloadRangeToByteArrayAsync(
    byte[] target,
    int index,
    Nullable<long> fileOffset,
    Nullable<long> length,
    CancellationToken cancellationToken
)
```

C++  

```c++
public:
[DoesServiceRequestAttribute]
virtual Task<int> ^ DownloadRangeToByteArrayAsync(
    array<unsigned char> ^ target,
    int index,
    Nullable<long long> fileOffset,
    Nullable<long long> length,
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadRangeToByteArrayAsync :
    target:byte[] *
    index:int *
    fileOffset:Nullable<int64> *
    length:Nullable<int64> *
    cancellationToken:CancellationToken *
```
See Also

DownloadRangeToByteArrayAsync Overload
CloudFile Class

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CloudFile::DownloadRangeToStreamAsync

Method (Stream, Nullable<Int64>, Nullable<Int64>)
(Stream^, Nullable<Int64>, Nullable<Int64>)
(Stream, Nullable<Int64>, Nullable<Int64>)
(Stream, Nullable(Of Int64), Nullable(Of Int64))

See Also
Returns a task that performs an asynchronous operation to download the contents of a file to a stream.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task DownloadRangeToStreamAsync(Stream target,
    Nullable<long> offset,
    Nullable<long> length
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ DownloadRangeToStreamAsync(
    Stream^ target,
    Nullable<long long> offset,
    Nullable<long long> length
)

F#

[<DoesServiceRequestAttribute>]
abstract DownloadRangeToStreamAsync : target:Stream *
    offset:Nullable<int64> *
    length:Nullable<int64> -> Task

[<DoesServiceRequestAttribute>]
override DownloadRangeToStreamAsync : target:Stream *
    offset:Nullable<int64> *
    length:Nullable<int64> -> Task
See Also

- DownloadRangeToStreamAsync Overload
- CloudFile Class

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CloudFile::DownloadRangeToStreamAsync Method (Stream, Nullable<Int64>, Nullable<Int64>, AccessCondition, FileRequestOptions, OperationContext)(Stream^, Nullable<Int64>, Nullable<Int64>, AccessCondition^, FileRequestOptions^, OperationContext^)(Stream, Nullable<Int64>, Nullable<Int64>, AccessCondition, FileRequestOptions, OperationContext)(Stream, Nullable(Of Int64), Nullable(Of Int64), AccessCondition, FileRequestOptions, OperationContext)

See Also
Returns a task that performs an asynchronous operation to download the contents of a file to a stream.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task DownloadRangeToStreamAsync(
    Stream target,
    Nullable<long> offset,
    Nullable<long> length,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ DownloadRangeToStreamAsync(
    Stream^ target,
    Nullable<long> offset,
    Nullable<long> length,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadRangeToStreamAsync :
    target:Stream *
    offset:Nullable<int64> *
    length:Nullable<int64> *
```
See Also

DownloadRangeToStreamAsync_Overload
CloudFile Class

Return to top
See Also
Returns a task that performs an asynchronous operation to download the contents of a file to a stream.

Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task DownloadRangeToStreamAsync(
    Stream target,
    Nullable<long> offset,
    Nullable<long> length,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ DownloadRangeToStreamAsync(
    Stream^ target,
    Nullable<long long> offset,
    Nullable<long long> length,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadRangeToStreamAsync : 
    target:Stream *
```
See Also

DownloadRangeToStreamAsync Overload
CloudFile Class

Return to top
### CloudFile::DownloadRangeToStreamAsync Method

C#  
```csharp
public static void DownloadRangeToStreamAsync(Stream stream, Nullable<int> startOffset, Nullable<int> endOffset, CancellationToken cancellationToken)
```

C++  
```cpp
void CloudFile::DownloadRangeToStreamAsync(Stream* stream, Nullable<int>* startOffset, Nullable<int>* endOffset, const CancellationToken& cancellationToken)
```

F#  
```fsharp
async function DownloadRangeToStreamAsync : Stream * Nullable<int> * Nullable<int> * CancellationToken -> unit
```

VB  
```vbnet
Public Shared Async Function DownloadRangeToStreamAsync(ByVal stream As Stream, ByVal startOffset As Nullable(Of Integer), ByVal endOffset As Nullable(Of Integer), ByVal cancellationToken As CancellationToken) As Task
```

**See Also**
- [DownloadRangeToStreamAsync](#)
Returns a task that performs an asynchronous operation to download the contents of a file to a stream.

# Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task DownloadRangeToStreamAsync(
    Stream target,
    Nullable<long> offset,
    Nullable<long> length,
    CancellationToken cancellationToken)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task downloadRangeToStreamAsync(
    Stream target,
    Nullable<long long> offset,
    Nullable<long long> length,
    CancellationToken cancellationToken)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadRangeToStreamAsync :
    target:Stream *
    offset:Nullable<int64> *
    length:Nullable<int64> *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override DownloadRangeToStreamAsync :
    target:Stream *
```
See Also

DownloadRangeToStreamAsync Overload
CloudFile Class

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See Also
Returns a task that performs an asynchronous operation to download the file's contents as a string.

**Namespace:** Microsoft.WindowsAzure.Storage.File

**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<string> DownloadTextAsync()

C++  
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ DownloadTextAsync()

F#  
[<DoesServiceRequestAttribute>]
abstract DownloadTextAsync : unit -> Task<string>
[<DoesServiceRequestAttribute>]
override DownloadTextAsync : unit -> Task<string>

VB  
<DoesServiceRequestAttribute>
Public Overridable Function DownloadTextAsync As

Return Value

Type:  
A Task object that represents the current operation.
See Also

DownloadTextAsync Overload
CloudFile Class

Return to top
See Also
Returns a task that performs an asynchronous operation to download the file's contents as a string.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<string> DownloadTextAsync(
    CancellationToken cancellationToken
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task<String^> DownloadTextAsync(
    CancellationToken cancellationToken
)

F#  
[<DoesServiceRequestAttribute>]
abstract DownloadTextAsync :
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override DownloadTextAsync :
    cancellationToken:CancellationToken ->

VB  
<DoesServiceRequestAttribute>
Public Overridable Function DownloadTextAsync
    cancellationToken As CancellationToken
) As Task(Of String)
See Also

DownloadTextAsync Overload
CloudFile Class

Return to top
CloudFile::DownloadTextAsync Method
(Encoding, AccessCondition, FileRequestOptions, OperationContext)
See Also
Returns a task that performs an asynchronous operation to download the file's contents as a string.

**Namespace:**  

**Assembly:**  
Syntax

C#  

[DoesServiceRequestAttribute]  
public virtual Task<string> DownloadTextAsync(  
    Encoding encoding,  
    AccessCondition accessCondition,  
    FileRequestOptions options,  
    OperationContext operationContext  
)

C++

public:  
[DoesServiceRequestAttribute]  
virtual Task<String^> DownloadTextAsync(  
    Encoding^ encoding,  
    AccessCondition^ accessCondition,  
    FileRequestOptions^ options,  
    OperationContext^ operationContext  
)

F#

[<DoesServiceRequestAttribute>]  
abstract DownloadTextAsync :  
    encoding:Encoding *  
    accessCondition:AccessCondition *  
    options:FileRequestOptions *  
    operationContext:OperationContext -> Task<string>  

[<DoesServiceRequestAttribute>]  
override DownloadTextAsync :  
    encoding:Encoding *
See Also

DownloadTextAsync Overload
CloudFile Class

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CloudFile...DownloadTextAsync Method

(Encoding, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)

See Also
Returns a task that performs an asynchronous operation to download the file's contents as a string.

**Namespace:** Microsoft.WindowsAzure.Storage.File  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<string> DownloadTextAsync(
    Encoding encoding,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ DownloadTextAsync(
    Encoding^ encoding,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadTextAsync :
    encoding:Encoding  *
    accessCondition:AccessCondition  *
    options:FileRequestOptions  *
    operationContext:OperationContext  *
    cancellationToken:CancellationToken
```
See Also

DownloadTextAsync Overload
CloudFile Class

Return to top
CloudFile.:::DownloadToByteArrayAsync Method

C#  

C++

F#

VB

DownloadToByteArrayAsync	Method
(Byte[], Int32)(array<Byte>^, Int32)(Byte[], Int32)
(Byte(), Int32)

See Also
Returns a task that performs an asynchronous operation to download the contents of a file to a byte array.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task<int> DownloadToByteArrayAsync(
    byte[] target,
    int index
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<int>^ DownloadToByteArrayAsync(
    array<unsigned char>^ target,
    int index
)

F#

[<DoesServiceRequestAttribute>]
abstract DownloadToByteArrayAsync :
    target:byte[] *
    index:int -> Task<int>
[<DoesServiceRequestAttribute>]
override DownloadToByteArrayAsync :
    target:byte[] *
    index:int -> Task<int>

VB

<DoesServiceRequestAttribute>
Public Overridable Function DownloadToByteArrayAsync
    target As Byte(),
    index As Integer
As Task(Of Integer)
See Also

DownloadToByteArrayAsync Overload
CloudFile Class

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CloudFile.:..DownloadToByteArrayAsync Method C# C++ F# VB
(Byte[], Int32, AccessCondition, FileRequestOptions, OperationContext)(array<Byte>^, Int32, AccessCondition^, FileRequestOptions^, OperationContext^)
(Byte[], Int32, AccessCondition, FileRequestOptions, OperationContext)(Byte(), Int32, AccessCondition, FileRequestOptions, OperationContext)

See Also
Returns a task that performs an asynchronous operation to download the contents of a file to a byte array.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<int> DownloadToByteArrayAsync(
    byte[] target,
    int index,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<int> DownloadToByteArrayAsync(
    array<unsigned char> target,
    int index,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadToByteArrayAsync :
    target:byte[] *
    index:int *
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext -> Task<int>
    [<DoesServiceRequestAttribute>]
override DownloadToByteArrayAsync :
    target:byte[] *
    index:int *
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext -> Task<int>
```
See Also

DownloadToByteArrayAsync_Overload
CloudFile Class

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CloudFile..DownloadToByteArrayAsync Method
(Byte[], Int32, AccessCondition,
FileRequestOptions, OperationContext, CancellationToken)
(array<Byte>^, Int32, AccessCondition^,
FileRequestOptions^, OperationContext^, CancellationToken)
(Byte[], Int32, AccessCondition, FileRequestOptions,
OperationContext, CancellationToken)(Byte(), Int32,
AccessCondition, FileRequestOptions, OperationContext,
CancellationToken)

See Also
Returns a task that performs an asynchronous operation to download the contents of a file to a byte array.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<int> DownloadToByteArrayAsync(byte[] target,
    int index,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<int>^ DownloadToByteArrayAsync(
    array<unsigned char>^ target,
    int index,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadToByteArrayAsync :
    target:byte[ ] *
    index:int *
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken *
    cancellationToken:CancellationToken *
    -> Task<int>
```
See Also

DownloadToByteArrayAsync Overload
CloudFile Class

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CloudFile::DownloadToByteArrayAsync Method

C# C++ F# VB
(Byte[], Int32, CancellationToken)(array<Byte>^, Int32, CancellationToken)(Byte[], Int32, CancellationToken)(Byte(), Int32, CancellationToken)

See Also
Returns a task that performs an asynchronous operation to download the contents of a file to a byte array.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task<int> DownloadToByteArrayAsync(byte[] target,
   int index,
   CancellationToken cancellationToken)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<int> DownloadToByteArrayAsync(
   array<unsigned char>^ target,
   int index,
   CancellationToken cancellationToken)

F#

[<DoesServiceRequestAttribute>]
abstract DownloadToByteArrayAsync :
   target:byte[] *
   index:int *
   cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override DownloadToByteArrayAsync :
   target:byte[] *
   index:int *
   cancellationToken:CancellationToken ->
See Also

DownloadToByteArrayAsync_Overload
CloudFile Class

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See Also
Returns a task that performs an asynchronous operation to download the contents of a file in the File service to a local file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task DownloadToFileAsync(
    string path,
    FileMode mode
)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task* DownloadToFileAsync(
    String* path,
    FileMode mode
)

F#  

[<DoesServiceRequestAttribute>]
abstract DownloadToFileAsync :
    path:string *
    mode:FileMode -> Task
[<DoesServiceRequestAttribute>]
override DownloadToFileAsync :
    path:string *
    mode:FileMode -> Task

VB  

<DoesServiceRequestAttribute>
Public Overridable Function DownloadToFileAsync(...)

See Also

DownloadToFileAsync Overload
CloudFile Class

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CloudFile::DownloadToFileAsync Method
(String, FileMode, AccessCondition,
FileRequestOptions, OperationContext)(String^, FileMode,
AccessCondition^, FileRequestOptions^, OperationContext^)
(String, FileMode, AccessCondition, FileRequestOptions,
OperationContext)(String, FileMode, AccessCondition,
FileRequestOptions, OperationContext)

See Also
Returns a task that performs an asynchronous operation to download the contents of a file in the File service to a local file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](http://msdn.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task DownloadToFileAsync(
    string path,
    FileMode mode,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ DownloadToFileAsync(
    String^ path,
    FileMode mode,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadToFileAsync :
    path:string *
    mode:FileMode *
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext * -> Task
```

See Also

- [DownloadToFileAsync Overload](#)
- [CloudFile Class](#)

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See Also
Returns a task that performs an asynchronous operation to download the contents of a file in the File service to a local file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](https://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  ```csharp
[DoesServiceRequestAttribute]
public virtual Task DownloadToFileAsync(  
    string path,
    FileMode mode,
    AccessCondition accessCondition,
    FileRequestOptions options,
   .OperationContext operationContext,
    CancellationToken cancellationToken
)
```  

C++  ```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ DownloadToFileAsync(  
    String^ path,
    FileMode mode,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```  

F#  ```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadToFileAsync :
    path:string *
    mode: FileMode *
    accessCondition: AccessCondition *  
```
See Also

DownloadToFileAsync_Overload
CloudFile Class

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See Also
Returns a task that performs an asynchronous operation to download the contents of a file in the File service to a local file.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

#### C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task DownloadToFileAsync(
    string path,
    FileMode mode,
    CancellationToken cancellationToken
)
```

#### C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ DownloadToFileAsync(
    String^ path,
    FileMode mode,
    CancellationToken cancellationToken
)
```

#### F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadToFileAsync :
    path:string ->
    mode:FileMode ->
    cancellationToken:CancellationToken ->
    Task

[<DoesServiceRequestAttribute>]
override DownloadToFileAsync :
    path:string *
    mode:FileMode *
    cancellationToken:CancellationToken ->
    Task
```
See Also

DownloadToFileAsync Overload
CloudFile Class

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CloudFile.:::DownloadToStreamAsync Method
(Stream)(Stream^)(Stream)(Stream)

See Also
Returns a task that performs an asynchronous operation to download the contents of a file to a stream.

**Namespace:** Microsoft.WindowsAzure.Storage.File  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task DownloadToStreamAsync(
    Stream target
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ DownloadToStreamAsync(
    Stream^ target
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadToStreamAsync :
    target:Stream -> Task
[<DoesServiceRequestAttribute>]
override DownloadToStreamAsync :
    target:Stream -> Task
```

VB  

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function DownloadToStreamAs
    target As Stream
) As Task
```
See Also

DownloadToStreamAsync_ Overload
CloudFile Class

Return to top
CloudFile::DownloadToStreamAsync Method
(Stream, AccessCondition, FileRequestOptions, OperationContext)
(Stream^, AccessCondition^, FileRequestOptions^, OperationContext^)
(Stream, AccessCondition, FileRequestOptions, OperationContext)
(See Also)
Returns a task that performs an asynchronous operation to download the contents of a file to a stream.

Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task DownloadToStreamAsync(
    Stream target,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext
)

C++
public:
[DoesServiceRequestAttribute]
virtual Task^ DownloadToStreamAsync(
    Stream^ target,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext
)

F#
[<DoesServiceRequestAttribute>]  
abstract DownloadToStreamAsync : 
    target:Stream *
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext -> T

[<DoesServiceRequestAttribute>]
override DownloadToStreamAsync : 
    target:Stream *
See Also

DownloadToStreamAsync Overload
CloudFile Class

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CloudFile...DownloadToStreamAsync Method
(Stream, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)
(Stream^, AccessCondition^, FileRequestOptions^, OperationContext^, CancellationToken)
(Stream, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)
(Stream, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)
See Also
Returns a task that performs an asynchronous operation to download the contents of a file to a stream.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task DownloadToStreamAsync(
    Stream target,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ DownloadToStreamAsync(
    Stream^ target,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract DownloadToStreamAsync :
    target:Stream *
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken *
    ->
```

```fsharp
```
See Also

DownloadToStreamAsync Overload
CloudFile Class

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--- | --- | --- | --- | ---
(Stream, CancellationToken) | (Stream^, CancellationToken) | (Stream, CancellationToken) | (Stream, CancellationToken)

See Also
Returns a task that performs an asynchronous operation to download the contents of a file to a stream.

**Namespace:** Microsoft.WindowsAzure.Storage.File  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task DownloadToStreamAsync(
    Stream target,
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ DownloadToStreamAsync(
    Stream^ target,
    CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract DownloadToStreamAsync : 
    target:Stream *
    cancellationToken:CancellationTokenToken ->
[<DoesServiceRequestAttribute>]
override DownloadToStreamAsync : 
    target:Stream *
    cancellationToken:CancellationTokenToken ->

VB

<DoesServiceRequestAttribute>
Public Overridable Function DownloadToStreamAs...
See Also

DownloadToStreamAsync Overload
CloudFile Class

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CloudFile:::EndAbortCopy Method (IAsyncResult)

See Also
Ends an asynchronous operation to abort an ongoing copy operation.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
public virtual void EndAbortCopy(
    IAsyncResult asyncResult
)
```

**C++**

```cpp
public:
virtual void EndAbortCopy(
    IAsyncResult^ asyncResult
)
```

**F#**

```fsharp
abstract EndAbortCopy :
    asyncResult:IAsyncResult -> unit
override EndAbortCopy :
    asyncResult:IAsyncResult -> unit
```

**VB**

```vb
Public Overridable Sub EndAbortCopy (    asyncResult As IAsyncResult
)
```

**Parameters**

`asyncResult`

Type: `System.IAsyncResult`
See Also

CloudFile Class

Return to top
CloudFile::..EndClearRange Method (IAsyncResult)(IAsyncResult^)(IAsyncResult) (IAsyncResult)
See Also
Ends an asynchronous operation to clear ranges from a file.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public virtual void EndClearRange(
    IAsyncResult asyncResult
)
```

C++  
```cpp
public:
    virtual void EndClearRange(
        IAsyncResult^ asyncResult
    )
```

F#  
```fsharp
abstract EndClearRange :
    asyncResult:IAsyncResult -> unit
override EndClearRange :
    asyncResult:IAsyncResult -> unit
```

VB  
```vbnet
Public Overridable Sub EndClearRange ( 
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`  
Type: `System.IAsyncResult`
See Also

CloudFile Class
CloudFile::..EndCreate Method (IAsyncResult) (IAsyncResult^) (IAsyncResult) (IAsyncResult)

See Also
Ends an asynchronous operation to create a file.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public virtual void EndCreate(
    IAsyncResult asyncResult
)
```

C++  
```cpp
public:
virtual void EndCreate(
    IAsyncResult^ asyncResult
)
```

F#  
```fsharp
abstract EndCreate :
    asyncResult:IAsyncResult -> unit
override EndCreate :
    asyncResult:IAsyncResult -> unit
```

VB  
```vb
Public Overridable Sub EndCreate (
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`  
Type:  
`System.IAsyncResult`
See Also

- CloudFile Class

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See Also
Ends an asynchronous operation to delete the file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public virtual void EndDelete(
    IAsyncResult asyncResult
)
```

C++

```cpp
public:
virtual void EndDelete(
    IAsyncResult^ asyncResult
)
```

F#

```fsharp
abstract EndDelete :
    asyncResult:IAsyncResult -> unit
override EndDelete :
    asyncResult:IAsyncResult -> unit
```

VB

```vbnet
Public Overridable Sub EndDelete ( 
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`
Type: `System.IAsyncResult`
See Also

CloudFile Class

Return to top
CloudFile::..EndDeleteIfExists Method (IAsyncResult)(IAsyncResult^)(IAsyncResult) (IAsyncResult)

See Also
Returns the result of an asynchronous request to delete the file if it already exists.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public virtual bool EndDeleteIfExists(
    IAsyncResult asyncResult
)
```

C++  

```cpp
public:
virtual bool EndDeleteIfExists(
    IAsyncResult^ asyncResult
)
```

F#  

```fsharp
abstract EndDeleteIfExists :
    asyncResult:IAsyncResult -> bool
override EndDeleteIfExists :
    asyncResult:IAsyncResult -> bool
```

VB  

```vb
Public Overridable Function EndDeleteIfExists
    asyncResult As IAsyncResult
) As Boolean
```

Parameters

`asyncResult`  
Type:  
[System.IAsyncResult][1]  
[System::IAsyncResult][2]  
[System.IAsyncResult^][3]
See Also

CloudFile Class

Return to top
CloudFile::EndDownloadRangeToByteArray Method (IAsyncResult)(IAsyncResult^)
(IAsyncResult)(IAsyncResult)

See Also
Ends an asynchronous operation to download the contents of a file to a byte array.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public virtual int EndDownloadRangeToByteArray(IAsyncResult asyncResult)
```  

C++  
```cpp
public:
virtual int EndDownloadRangeToByteArray(IAsyncResult^ asyncResult)
```  

F#  
```fsharp
abstract EndDownloadRangeToByteArray : asyncResult:IAasyncResult -> int
override EndDownloadRangeToByteArray : asyncResult:IAasyncResult -> int
```  

VB  
```vbnet
Public Overridable Function EndDownloadRangeToByteArray
asyncResult As IAsyncResult
) As Integer
```  

Parameters

`asyncResult`
Type:  
```fsharp
System.IAsyncResult
```
See Also

CloudFile Class

Return to top
CloudFile::EndDownloadRangeToStream Method (IAsyncResult)(IAsyncResult^)(IAsyncResult)

See Also
Ends an asynchronous operation to download the contents of a file to a stream.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public virtual void EndDownloadRangeToStream(
    IAsyncResult asyncResult
)
```

C++

```cpp
public:
    virtual void EndDownloadRangeToStream(
        IAsyncResult^ asyncResult
    )
```

F#

```fsharp
abstract EndDownloadRangeToStream : 
    asyncResult:IAasyncResult -> unit
override EndDownloadRangeToStream :
    asyncResult:IAasyncResult -> unit
```

VB

```vbnet
Public Overridable Sub EndDownloadRangeToStream
    asyncResult As IAsyncResult
)
```

Parameters

asyncResult  
Type:  
`System.IAsyncResultSystem::IAsyncResult^System.IAsyncResultSystem::IAsyncResult`
See Also

CloudFile Class

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See Also
Ends an asynchronous operation to download the file's contents as a string.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
public virtual string EndDownloadText(
    IAsyncResult asyncResult
)
```

**C++**

```cpp
public:
virtual String^ EndDownloadText(
    IAsyncResult^ asyncResult
)
```

**F#**

```fsharp
abstract EndDownloadText :
    asyncResult:IAsyncResult -> string
override EndDownloadText :
    asyncResult:IAsyncResult -> string
```

**VB**

```vbnet
Public Overridable Function EndDownloadText (  
    asyncResult As IAsyncResult
) As String
```

**Parameters**

- **asyncResult**
  Type:
  - System.IAsyncResult
  - System::IAsyncResult
  - System.IAsyncResult
  - System.IAsyncResult
See Also

CloudFile Class

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See Also
Ends an asynchronous operation to download the contents of a file to a byte array.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
public virtual int EndDownloadToByteArray(
    IAsyncResult asyncResult
)
```

**C++**

```cpp
public:
    virtual int EndDownloadToByteArray(
        IAsyncResult^ asyncResult
    )
```

**F#**

```fsharp
abstract EndDownloadToByteArray :
    asyncResult:IAsyncResult -> int
override EndDownloadToByteArray :
    asyncResult:IAsyncResult -> int
```

**VB**

```vb
Public Overridable Function EndDownloadToByteArray(
    asyncResult As IAsyncResult
) As Integer
```

**Parameters**

**asyncResult**

Type:

- `System.IAsyncResult`
- `System::IAsyncResult`
- `System.IAsyncResult^`
See Also

CloudFile Class

Return to top
CloudFile:::EndDownloadToFile Method
(IAsyncResult)(IAsyncResult^)(IAsyncResult)
(IAsyncResult)

See Also
Ends an asynchronous operation to download the contents of a file in the File service to a local file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public virtual void EndDownloadToFile(
    IAsyncResult asyncResult
)
```

C++  

```cpp
public:
virtual void EndDownloadToFile(
    IAsyncResult^ asyncResult
)
```

F#  

```fsharp
abstract EndDownloadToFile :
    asyncResult:IAasyncResult -> unit
override EndDownloadToFile :
    asyncResult:IAasyncResult -> unit
```

VB  

```vb
Public Overridable Sub EndDownloadToFile (    asyncResult As IAsyncResult
)```

Parameters

`asyncResult`

Type:  

`System.IAsyncResultSystem::IAasyncResult^System.IAsyncResultSystem::IAasyncResultSystem::IAasyncResult`
See Also

CloudFile Class

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See Also
Ends an asynchronous operation to download the contents of a file to a stream.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
public virtual void EndDownloadToStream(
    IAsyncResult asyncResult
)
```

**C++**

```cpp
public:
    virtual void EndDownloadToStream(
        IAsyncResult^ asyncResult
    )
```

**F#**

```fsharp
abstract EndDownloadToStream : 
    asyncResult:IAsyncResult -> unit
override EndDownloadToStream : 
    asyncResult:IAsyncResult -> unit
```

**VB**

```vb
Public Overridable Sub EndDownloadToStream ( 
    asyncResult As IAsyncResult
)
```

**Parameters**

*asyncResult*

Type:

`System.IAsyncResult`
See Also

CloudFile Class

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See Also
Returns the asynchronous result of the request to check existence of the file.

**Namespace:**  
Microsoft.WindowsAzure.Storage.File

**Assembly:**  
Syntax

C#  

```csharp
public virtual bool EndExists(
    IAsyncResult asyncResult
)
```

C++

```cpp
public:

virtual bool EndExists(
    IAsyncResult^ asyncResult
)
```

F#

```fsharp
abstract EndExists :
    asyncResult:IAsyncResult -> bool

override EndExists :
    asyncResult:IAsyncResult -> bool
```

VB

```vbnet
Public Overridable Function EndExists (  
    asyncResult As IAsyncResult
) As Boolean
```

Parameters

asyncResult
Type:
`System.IAsyncResult``System::IAsyncResult``System.IAsyncResult`
See Also

CloudFile Class

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**See Also**
Ends an asynchronous operation to populate the file's properties and metadata.

## Syntax

### C#

```csharp
public virtual void EndFetchAttributes(
    IAsyncResult asyncResult
)
```

### C++

```cpp
public:
virtual void EndFetchAttributes(
    IAsyncResult^ asyncResult
)
```

### F#

```fsharp
abstract EndFetchAttributes :
    asyncResult:IAsyncResult -> unit
override EndFetchAttributes :
    asyncResult:IAsyncResult -> unit
```

### VB

```vb
Public Overridable Sub EndFetchAttributes ( 
    asyncResult As IAsyncResult
)
```

### Parameters

*asyncResult*

Type: `System.IAsyncResult`
See Also

CloudFile Class

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CloudFile::<...EndListRanges Method (IAsyncResult) C# C++ F# VB (IAsyncResult^)(IAsyncResult)(IAsyncResult)

See Also
Ends an asynchronous operation to return a collection of valid ranges and their starting and ending bytes.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public virtual IEnumerable<FileRange> EndListRanges(IAsyncResult asyncResult)
```

C++

```cpp
public:
virtual IEnumerable<FileRange^>^ EndListRanges(IAsyncResult^ asyncResult)
```

F#

```fsharp
abstract EndListRanges : asyncResult:IAsyncResult -> IEnumerable/FileRange
```

VB

```vbnet
Public Overridable Function EndListRanges (asyncResult As IAsyncResult) As IEnumerable(Of FileRange)
```

Parameters

`asyncResult`

Type:

`System.IAsyncResult`
See Also

CloudFile Class

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CloudFile:::..EndOpenRead Method (IAasyncResult)  C#++F#VB
(IAasyncResult^)(IAasyncResult)(IAasyncResult)
See Also
Ends an asynchronous operation to open a stream for reading from the file.


Syntax

C#  

```csharp
public virtual Stream EndOpenRead(
    IAsyncResult asyncResult
)
```

C++  

```cpp
public:
    virtual Stream^ EndOpenRead(
        IAsyncResult^ asyncResult
    )
```

F#  

```
abstract EndOpenRead :
    asyncResult:IAsyncResult -> Stream
override EndOpenRead :
    asyncResult:IAsyncResult -> Stream
```

VB  

```
Public Overridable Function EndOpenRead (  
    asyncResult As IAsyncResult  
) As Stream
```

Parameters

asyncResult
Type:  

```csharp
System.IAsyncResult
```
See Also

CloudFile Class

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CloudFile::..EndOpenWrite Method (IAsyncResult)  

See Also
Ends an asynchronous operation to open a stream for writing to the file.


**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public virtual CloudFileStream EndOpenWrite(
    IAsyncResult asyncResult
)
```

C++  

```c++
public:
virtual CloudFileStream^ EndOpenWrite(
    IAsyncResult^ asyncResult
)
```

F#  

```fsharp
abstract EndOpenWrite :
    asyncResult:IAsyncResult -> CloudFileStream
override EndOpenWrite :
    asyncResult:IAsyncResult -> CloudFileStream
```

VB  

```vbnet
Public Overridable Function EndOpenWrite (  
    asyncResult As IAsyncResult  
) As CloudFileStream
```

Parameters

asyncResult  
Type:  
```csharp
System.IAsyncResult  
System::IAsyncResult
```
```c++
System::IAsyncResult
```
```fsharp
System.IAsyncResult
```
```vbnet
System::IAsyncResult
```
See Also

CloudFile Class

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CloudFile::..EndResize Method (IAsyncResult) (IAsyncResult^)(IAsyncResult)(IAsyncResult)

See Also
Ends an asynchronous operation to resize a file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public virtual void EndResize(
    IAsyncResult asyncResult
)
```

C++

```cpp
public:
    virtual void EndResize(
        IAsyncResult^ asyncResult
    )
```

F#

```fsharp
abstract EndResize :
    asyncResult:IAsyncResult -> unit
override EndResize :
    asyncResult:IAsyncResult -> unit
```

VB

```vbnet
Public Overridable Sub EndResize (asyncResult As IAsyncResult)
```

Parameters

asyncResult

Type:

```plaintext
System.IAsyncResult
System::IAsyncResult
System.IAsyncResult
```
See Also

CloudFile Class

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CloudFile::...EndSetMetadata Method

(IAasyncResult)(IAasyncResult^)(IAasyncResult)
(IAasyncResult)

See Also
Ends an asynchronous operation to update the file's metadata.

**Namespace:**  
Microsoft.WindowsAzure.Storage.File

**Assembly:**  
Syntax

C#  
```csharp
public virtual void EndSetMetadata(
    IAsyncResult asyncResult
)
```

C++  
```cpp
public:
virtual void EndSetMetadata(
    IAsyncResult^ asyncResult
)
```

F#  
```fsharp
abstract EndSetMetadata :
    asyncResult:IAsyncResult -> unit
override EndSetMetadata :
    asyncResult:IAsyncResult -> unit
```

VB  
```vb
Public Overridable Sub EndSetMetadata (  
    asyncResult As IAsyncResult
)
```

Parameters

asyncResult  
Type:  
```csharp
System.IAsyncResult
```

```cpp
System::IAsyncResult
```

```fsharp
System.IAsyncResult
```
See Also

CloudFile Class

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CloudFile::EndSetProperties Method

(IAsyncResult)(IAasyncResult^)(IAasyncResult)

See Also
Ends an asynchronous operation to update the file's properties.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public virtual void EndSetProperties(
    IAsyncResult asyncResult
)
```

C++  
```c++
public:
virtual void EndSetProperties(
    IAsyncResult^ asyncResult
)
```

F#  
```fsharp
abstract EndSetProperties :
    asyncResult:IAsyncResult -> unit
override EndSetProperties :
    asyncResult:IAsyncResult -> unit
```

VB  
```vbnet
Public Overridable Sub EndSetProperties (  
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`  
Type:  
```csharp
System.IAsyncResult  
```
See Also

CloudFile Class

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CloudFile::EndStartCopy Method (IAsyncResult)  C++F#VB
(IAsyncResult^)(IAsyncResult)(IAsyncResult)
See Also
Ends an asynchronous operation to start copying another Azure file or blob's contents, properties, and metadata to this Azure file.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public virtual string EndStartCopy(
    IAsyncResult asyncResult
)
```

C++

```cpp
public:
virtual String^ EndStartCopy(
    IAsyncResult^ asyncResult
)
```

F#

```fsharp
abstract EndStartCopy :
    asyncResult:IAsyncResult -> string
override EndStartCopy :
    asyncResult:IAsyncResult -> string
```

VB

```vbnet
Public Overridable Function EndStartCopy ( 
    asyncResult As IAsyncResult 
) As String
```

Parameters

`asyncResult`

Type:

System.IAsyncResult

System::IAsyncResult

System.IAsyncResult^
Remarks

This method fetches the file's ETag, last-modified time, and part of the copy state. The copy ID and copy status fields are fetched, and the rest of the copy state is cleared.
See Also

CloudFile Class

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CloudFile::EndUploadFromByteArray Method
(IAsyncResult)(IAsyncResult^)(IAsyncResult)
(IAsyncResult)
See Also
Ends an asynchronous operation to upload the contents of a byte array to a file.

**Namespace:**  Microsoft.WindowsAzure.Storage.File

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public virtual void EndUploadFromByteArray(
    IAsyncResult asyncResult
)
```

C++  

```cpp
public:
    virtual void EndUploadFromByteArray(
        IAsyncResult^ asyncResult
    )
```

F#  

```fsharp
abstract EndUploadFromByteArray :
    asyncResult:IAsyncResult -> unit

override EndUploadFromByteArray :
    asyncResult:IAsyncResult -> unit
```

VB  

```vb
Public Overridable Sub EndUploadFromByteArray(
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`

Type:  

```csharp
System.IAsyncResult
```
See Also

CloudFile Class

Return to top
CloudFile::EndUploadFromFile Method (IAsyncResult)(IAsyncResult^)(IAsyncResult)
(IAsyncResult)

See Also
Ends an asynchronous operation to upload a file to the File service.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public virtual void EndUploadFromFile(
    IAsyncResult asyncResult
)
```

C++  
```cpp
public:
    virtual void EndUploadFromFile(
        IAsyncResult^ asyncResult
    )
```

F#  
```fsharp
abstract EndUploadFromFile :
    asyncResult:IAsyncResult -> unit
override EndUploadFromFile :
    asyncResult:IAsyncResult -> unit
```

VB  
```vbnet
Public Overridable Sub EndUploadFromFile (  
    asyncResult As IAsyncResult
)
```

Parameters

*asyncResult*

Type:  
```csharp
System.IAsyncResult
```
See Also

CloudFile Class

Return to top
CloudFile:::.EndUploadFromStream Method (IAsyncResult)(IAsyncResult^)(IAsyncResult) (IAsyncResult)

See Also
Ends an asynchronous operation to upload a stream to a file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public virtual void EndUploadFromStream(
    IAsyncResult asyncResult
)
```

C++  

```cpp
public:
    virtual void EndUploadFromStream(
    IAsyncResult^ asyncResult
)
```

F#  

```fsharp
abstract EndUploadFromStream :
    asyncResult:IAsyncResult -> unit
override EndUploadFromStream :
    asyncResult:IAsyncResult -> unit
```

VB  

```vb
Public Overridable Sub EndUploadFromStream (      
    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`  
Type:  
`System.IAsyncResult`
See Also

CloudFile Class

Return to top
CloudFile::EndUploadText Method (IAasyncResult) C# C++ F# VB (IAasyncResult^)(IAasyncResult)(IAasyncResult)

See Also
EEnds an asynchronous operation to upload a string of text to a file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public virtual void EndUploadText(
    IAsyncResult asyncResult
)
```

C++

```cpp
public:
virtual void EndUploadText(
    IAsyncResult^ asyncResult
)
```

F#

```fsharp
abstract EndUploadText :
    asyncResult:IAsyncResult -> unit
override EndUploadText :
    asyncResult:IAsyncResult -> unit
```

VB

```vb
Public Overridable Sub EndUploadText (    asyncResult As IAsyncResult
)
```

Parameters

`asyncResult`

Type: `System.IAsyncResult`
See Also

CloudFile Class

Return to top
CloudFile::..EndWriteRange Method
(IAsyncResult)(IAsyncResult^)(IAsyncResult)
(IAsyncResult)

See Also
Ends an asynchronous operation to write a range to a file.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
public virtual void EndWriteRange(
    IAsyncResult asyncResult
)
```

**C++**

```cpp
public:
    virtual void EndWriteRange(
        IAsyncResult^ asyncResult
    )
```

**F#**

```fsharp
abstract EndWriteRange :
    asyncResult:IAsyncResult -> unit
override EndWriteRange :
    asyncResult:IAsyncResult -> unit
```

**VB**

```vb
Public Overridable Sub EndWriteRange ( 
    asyncResult As IAsyncResult
)
```

### Parameters

**asyncResult**

*Type:*

```csharp
System.IAsyncResult
```

```cpp
System::IAsyncResult
```

```fsharp
System.IAsyncResult
```

```vb
System.IAsyncResult
```
See Also

CloudFile Class

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<tr>
<td>See Also</td>
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<td></td>
</tr>
</tbody>
</table>
Returns a task that performs an asynchronous request to check existence of the file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

### C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task<bool> ExistsAsync()
```

### C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<bool>^ ExistsAsync()
```

### F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract ExistsAsync : unit -> Task<bool>
[<DoesServiceRequestAttribute>]
override ExistsAsync : unit -> Task<bool>
```

### VB

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function ExistsAsync As Task
```

## Return Value

Type: `System.Threading.Tasks.Task System.Threading.Tasks::Task System.Threading.Tasks::Task (Of TResult)` object that represents the current operation.
See Also

ExistsAsync Overload
CloudFile Class

Return to top
Returns a task that performs an asynchronous request to check existence of the file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<bool> ExistsAsync(
    CancellationToken cancellationToken
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task<bool> ExistsAsync(
    CancellationToken cancellationToken
)

F#  
[<DoesServiceRequestAttribute>]
abstract ExistsAsync :
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override ExistsAsync :
    cancellationToken:CancellationToken ->

VB  
<DoesServiceRequestAttribute>
Public Overridable Function ExistsAsync (  
    cancellationToken As CancellationToken
) As Task(Of Boolean)
See Also

ExistsAsync_Overload
CloudFile Class

Return to top
CloudFile.ExistsAsync Method
(FileRequestOptions, OperationContext)
(FileRequestOptions^, OperationContext^)
(FileRequestOptions, OperationContext)(FileRequestOptions, OperationContext)

See Also
Returns a task that performs an asynchronous request to check existence of the file.

Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task<bool> ExistsAsync(
    FileRequestOptions options,
    OperationContext operationContext
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<bool> ExistsAsync(
    FileRequestOptions options,
    OperationContext operationContext
)

F#

[<DoesServiceRequestAttribute>]
abstract ExistsAsync :
    options:FileRequestOptions *
    operationContext:OperationContext -> T

[<DoesServiceRequestAttribute>]
override ExistsAsync :
    options:FileRequestOptions *
    operationContext:OperationContext -> T

VB

<DoesServiceRequestAttribute>
Public Overridable Function ExistsAsync (
See Also

ExistsAsync_Overload
CloudFile Class

Return to top
CloudFile::ExistsAsync Method

C#  C++  F#  VB

(FileRequestOptions, OperationContext, CancellationToken)

See Also
Returns a task that performs an asynchronous request to check existence of the file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<bool> ExistsAsync(
    FileRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<bool>^ ExistsAsync(
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract ExistsAsync :
    options:FileRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override ExistsAsync :
    options:FileRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->
```
See Also

ExistsAsync_Overload
CloudFile Class

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<td>CloudFile::FetchAttributesAsync Method</td>
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</table>
Returns a task that performs an asynchronous operation to populate the file's properties and metadata.

**Namespace:** [Microsoft.WindowsAzure.Storage.File](http://aka.ms/windowsazure-storage)

**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task FetchAttributesAsync()

C++  
public:
[DoesServiceRequestAttribute]
virtual Task^ FetchAttributesAsync()

F#  
[<DoesServiceRequestAttribute>]
abstract FetchAttributesAsync : unit -> Task
[<DoesServiceRequestAttribute>]
override FetchAttributesAsync : unit -> Task

VB  
<DoesServiceRequestAttribute>
Public Overridable Function FetchAttributesAsync

Return Value

Type:
A Task object that represents the current operation.
See Also

FetchAttributesAsync_Overload
CloudFile Class

Return to top
CloudFile:::..FetchAttributesAsync Method (AccessCondition, FileRequestOptions, OperationContext)
(AccessCondition^, FileRequestOptions^, OperationContext^)(AccessCondition, FileRequestOptions, OperationContext)
See Also
Returns a task that performs an asynchronous operation to populate the file's properties and metadata.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task FetchAttributesAsync(
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<T> FetchAttributesAsync(
    AccessCondition<T> accessCondition,
    FileRequestOptions<T> options,
    OperationContext<T> operationContext
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract FetchAttributesAsync :
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext -> Task

[<DoesServiceRequestAttribute>]
override FetchAttributesAsync :
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext -> Task
```
See Also

FetchAttributesAsync_Overload
CloudFile Class

Return to top
CloudFile::FetchAttributesAsync Method

(AccessCondition, FileRequestOptions, OperationContext, CancellationToken)(AccessCondition\^, FileRequestOptions\^, OperationContext\^, CancellationToken)

(Readability improved)

See Also
Returns a task that performs an asynchronous operation to populate the file's properties and metadata.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task FetchAttributesAsync(
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task^ FetchAttributesAsync(
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#  
[<DoesServiceRequestAttribute>]
abstract FetchAttributesAsync :
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override FetchAttributesAsync :
    accessCondition:AccessCondition *
See Also

FetchAttributesAsync_ Overload
CloudFile Class

Return to top
CloudFile...FetchAttributesAsync Method (CancellationToken)(CancellationToken) (CancellationToken)(CancellationToken)
See Also
Returns a task that performs an asynchronous operation to populate the file's properties and metadata.

Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task FetchAttributesAsync(
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ FetchAttributesAsync(
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract FetchAttributesAsync :
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override FetchAttributesAsync :
    cancellationToken:CancellationToken ->
```

VB

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function FetchAttributesAsync (
    cancellationToken As CancellationToken) As Task
```
See Also

FetchAttributesAsync Overload
CloudFile Class

Return to top
CloudFile...GetSharedAccessSignature Method
(SharedAccessFilePolicy)(SharedAccessFilePolicy^)
(SharedAccessFilePolicy)(SharedAccessFilePolicy)

See Also
Returns a shared access signature for the file.

**Namespace:**  Microsoft.WindowsAzure.Storage.File

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public string GetSharedAccessSignature(
    SharedAccessFilePolicy policy
)
```

C++
```cpp
public:
String^ GetSharedAccessSignature(
    SharedAccessFilePolicy^ policy
)
```

F#
```fsharp
member GetSharedAccessSignature :
    policy:SharedAccessFilePolicy -> string
```

VB
```vbnet
Public Function GetSharedAccessSignature ( 
    policy As SharedAccessFilePolicy
) As String
```

Parameters

policy
Type:  
A `SharedAccessFilePolicy` object specifying the access policy for the shared access signature.
Remarks

The query string returned includes the leading question mark.
See Also

GetSharedAccessSignature Overload
CloudFile Class

Return to top
CloudFile...GetSharedAccessSignature Method
(SharedAccessFilePolicy, SharedAccessFileHeaders)
(SharedAccessFilePolicy^, SharedAccessFileHeaders^)
(SharedAccessFilePolicy, SharedAccessFileHeaders)
See Also
Returns a shared access signature for the file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public string GetSharedAccessSignature(
    SharedAccessFilePolicy policy,
    SharedAccessFileHeaders headers
)
```

C++  
```cpp
public:
String^ GetSharedAccessSignature(
    SharedAccessFilePolicy^ policy,
    SharedAccessFileHeaders^ headers
)
```

F#  
```fsharp
member GetSharedAccessSignature :
    policy:SharedAccessFilePolicy *
    headers:SharedAccessFileHeaders -> str
```

VB  
```vbnet
Public Function GetSharedAccessSignature (  
    policy As SharedAccessFilePolicy,
    headers As SharedAccessFileHeaders
) As String
```

Parameters

- `policy`
See Also

GetSharedAccessSignature Overload
CloudFile Class

Return to top
CloudFile:::..GetSharedAccessSignature Method
(SharedAccessFilePolicy,
SharedAccessFileHeaders, String)(SharedAccessFilePolicy^,
SharedAccessFileHeaders^, String^)(SharedAccessFilePolicy,
SharedAccessFileHeaders, String)

See Also
Returns a shared access signature for the file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](http://example.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public string GetSharedAccessSignature(
    SharedAccessFilePolicy policy,
    SharedAccessFileHeaders headers,
    string groupPolicyIdentifier
)
```

C++

```cpp
public:
String^ GetSharedAccessSignature(
    SharedAccessFilePolicy^ policy,
    SharedAccessFileHeaders^ headers,
    String^ groupPolicyIdentifier
)
```

F#

```fsharp
member GetSharedAccessSignature :
    policy:SharedAccessFilePolicy *
    headers:SharedAccessFileHeaders *
    groupPolicyIdentifier:string -> string
```

VB

```vb
Public Function GetSharedAccessSignature (   policy As SharedAccessFilePolicy,   headers As SharedAccessFileHeaders,   groupPolicyIdentifier As String   ) As String
```
See Also

GetSharedAccessSignature Overload
CloudFile Class

Return to top
CloudFile::GetSharedAccessSignature Method

(SharedAccessFilePolicy,
SharedAccessFileHeaders, String,
Nullable<SharedAccessProtocol>, IPAddressOrRange)
(SharedAccessFilePolicy^, SharedAccessFileHeaders^,
String^, Nullable<SharedAccessProtocol>,
IPAddressOrRange^)(SharedAccessFilePolicy,
SharedAccessFileHeaders, String,
Nullable<SharedAccessProtocol>, IPAddressOrRange)
(SharedAccessFilePolicy, SharedAccessFileHeaders, String,
Nullable(Of SharedAccessProtocol), IPAddressOrRange)

See Also
Returns a shared access signature for the file.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public string GetSharedAccessSignature(
    SharedAccessFilePolicy policy,
    SharedAccessFileHeaders headers,
    string groupPolicyIdentifier,
    Nullable<SharedAccessProtocol> protocols,
    IPAddressOrRange ipAddressOrRange
)
```

C++

```cpp
public:
String^ GetSharedAccessSignature(
    SharedAccessFilePolicy^ policy,
    SharedAccessFileHeaders^ headers,
    String^ groupPolicyIdentifier,
    Nullable<SharedAccessProtocol> protocols,
    IPAddressOrRange^ ipAddressOrRange
)
```

F#

```fsharp
member GetSharedAccessSignature :
    policy:SharedAccessFilePolicy *
    headers:SharedAccessFileHeaders *
    groupPolicyIdentifier:string *
    protocols:Nullable<SharedAccessProtocol>
    ipAddressOrRange:IPAddressOrRange -> string
```

VB

```vbnet
Public Function GetSharedAccessSignature (policy As SharedAccessFilePolicy,
                                           headers As SharedAccessFileHeaders,
                                           groupPolicyIdentifier As String,
                                           protocols As Nullable<SharedAccessProtocol>,
                                           ipAddressOrRange As IPAddressOrRange) As String
```
See Also

GetSharedAccessSignature Overload
CloudFile Class

Return to top
CloudFile::GetSharedAccessSignature Method
(SharedAccessFilePolicy, String)
(SharedAccessFilePolicy^, String^)(SharedAccessFilePolicy, String)(SharedAccessFilePolicy^, String^)
See Also
Returns a shared access signature for the file.

Syntax

C#  

```csharp
public string GetSharedAccessSignature(
    SharedAccessFilePolicy policy,
    string groupPolicyIdentifier
)
```

C++

```cpp
public:
String^ GetSharedAccessSignature(
    SharedAccessFilePolicy^ policy,
    String^ groupPolicyIdentifier
)
```

F#

```fsharp
member GetSharedAccessSignature :
    policy:SharedAccessFilePolicy *
    groupPolicyIdentifier:string -> string
```

VB

```vbnet
Public Function GetSharedAccessSignature (    policy As SharedAccessFilePolicy,    groupPolicyIdentifier As String
) As String
```

Parameters

*policy*
Remarks

The query string returned includes the leading question mark.
See Also

GetSharedAccessSignature_Overload
CloudFile Class

Return to top
CloudFile::ListRangesAsync Method

See Also
Returns a task that performs an asynchronous operation to return a collection of valid ranges and their starting and ending bytes.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task(IEnumerable<FileRange>> ListRangesAsync()
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task(IEnumerable<FileRange^>^>^ ListRangesAsync()
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract ListRangesAsync : unit -> Task(IEnumerable
[<DoesServiceRequestAttribute>]
override ListRangesAsync : unit -> Task(IEnumerable
```

VB  

```vb
<DoesServiceRequestAttribute>
Public Overridable Function ListRangesAsync As
```

Return Value

Type:  

```
```
See Also

ListRangesAsync Overload
CloudFile Class

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<td>(CancellationToken)(CancellationToken)</td>
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</table>

See Also
Returns a task that performs an asynchronous operation to return a collection of valid ranges and their starting and ending bytes.

Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task<IEnumerable<FileRange>> ListRangesAsync(
    CancellationToken cancellationToken
)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task<IEnumerable<FileRange^>^> ListRangesAsync(
    CancellationToken cancellationToken
)

F#  

[<DoesServiceRequestAttribute>]
abstract ListRangesAsync :
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override ListRangesAsync :
    cancellationToken:CancellationToken ->

VB  

<DoesServiceRequestAttribute>
Public Overridable Function ListRangesAsync (  
    cancellationToken As CancellationToken
) As Task(Of IEnumerable(Of FileRange))
See Also

ListRangesAsync Overload
CloudFile Class

Return to top
CloudFile::..ListRangesAsync Method

(C#) CloudFile::..ListRangesAsync(Nullable<Int64>, Nullable<Int64>, AccessCondition, FileRequestOptions, OperationContext)

(Visual Basic) CloudFile::..ListRangesAsync(Nullable(Of Int64), Nullable(Of Int64), AccessCondition, FileRequestOptions, OperationContext)

See Also
Returns a task that performs an asynchronous operation to return a collection of valid ranges and their starting and ending bytes.

**Syntax**

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task<IEnumerable<FileRange>> ListRangesAsync(
    Nullable<long> offset,
    Nullable<long> length,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext)
```

**C++**

```c++
public:
[DoesServiceRequestAttribute]
virtual Task<IEnumerable<FileRange^>^> ListRangesAsync(
    Nullable<long> offset,
    Nullable<long> length,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract ListRangesAsync :
    offset:Nullable<int64> *
    length:Nullable<int64> *
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext *
```
See Also

ListRangesAsync Overload
CloudFile Class

Return to top
CloudFile..::.ListRangesAsync Method
(Nullable<Int64>, Nullable<Int64>,
AccessCondition, FileRequestOptions, OperationContext,
CancellationToken)(Nullable<Int64>, Nullable<Int64>,
AccessCondition^, FileRequestOptions^, OperationContext^,
CancellationToken)(Nullable<Int64>, Nullable<Int64>,
AccessCondition, FileRequestOptions, OperationContext,
CancellationToken)(Nullable(Of Int64), Nullable(Of Int64),
AccessCondition, FileRequestOptions, OperationContext,
CancellationToken)

See Also
Returns a task that performs an asynchronous operation to return a collection of valid ranges and their starting and ending bytes.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```
[DoesServiceRequestAttribute]
public virtual Task<IEnumerable<FileRange>> ListRangesAsync(
    Nullable<long> offset,
    Nullable<long> length,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken)
```

**C++**

```
public:
[DoesServiceRequestAttribute]
virtual Task<IEnumerable<FileRange^>^> ListRangesAsync(
    Nullable<long> offset,
    Nullable<long> length,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken)
```

**F#**

```
[<DoesServiceRequestAttribute>]
abstract ListRangesAsync :
    offset:Nullable<int64>  *
    length:Nullable<int64>  *
    accessCondition:AccessCondition  *
```
See Also

ListRangesAsync Overload
CloudFile Class

Return to top
CloudFile::..OpenReadAsync Method (0000)

See Also
Returns a task that performs an asynchronous operation to open a stream for reading from the file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task<Stream> OpenReadAsync()

C++

public:
[DoesServiceRequestAttribute]
virtual Task<Stream^>^ OpenReadAsync()

F#

[<DoesServiceRequestAttribute>]
abstract OpenReadAsync : unit -> Task<Stream>
[<DoesServiceRequestAttribute>]
override OpenReadAsync : unit -> Task<Stream>

VB

<DoesServiceRequestAttribute>
Public Overridable Function OpenReadAsync As Task

Return Value

Type:
A Task<TResult><TResult><TResult>(Of TResult) object that represents the current operation.
See Also

OpenReadAsync_Overload
CloudFile Class

Return to top
CloudFile::..OpenReadAsync Method
(ACCESSCONDITION, FILEREQUESTOPTIONS,
OPERATIONCONTEXT)(ACCESSCONDITION^, FILEREQUESTOPTIONS^,
OPERATIONCONTEXT^)(ACCESSCONDITION, FILEREQUESTOPTIONS,
OPERATIONCONTEXT)(ACCESSCONDITION, FILEREQUESTOPTIONS,
OPERATIONCONTEXT)

See Also
Returns a task that performs an asynchronous operation to open a stream for reading from the file.

Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task<Stream> OpenReadAsync(
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<Stream^> OpenReadAsync(
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext
)

F#

[<DoesServiceRequestAttribute>]
abstract OpenReadAsync :
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext -> Task<Stream>

[<DoesServiceRequestAttribute>]
override OpenReadAsync :
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext -> Task<Stream>
See Also

OpenReadAsync Overload
CloudFile Class

Return to top
CloudFile::OpenReadAsync Method

(AccessCondition, FileRequestOptions, OperationContext, CancellationToken)

See Also
Returns a task that performs an asynchronous operation to open a stream for reading from the file.

**Namespace:** [Microsoft.WindowsAzure.Storage.File](#)

**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task<Stream> OpenReadAsync(
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<Stream^>^ OpenReadAsync(
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract OpenReadAsync :
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override OpenReadAsync :
    accessCondition:AccessCondition *
See Also

OpenReadAsync Overload
CloudFile Class

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</table>

See Also
Returns a task that performs an asynchronous operation to open a stream for reading from the file.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<Stream> OpenReadAsync(
    CancellationToken cancellationToken
)

C++
public:
[DoesServiceRequestAttribute]
virtual Task<Stream^>^ OpenReadAsync(
    CancellationToken cancellationToken
)

F#
[<DoesServiceRequestAttribute>]
abstract OpenReadAsync :
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override OpenReadAsync :
    cancellationToken:CancellationToken ->

VB
<DoesServiceRequestAttribute>
Public Overridable Function OpenReadAsync (  
    cancellationToken As CancellationToken
) As Task(Of Stream)
See Also

OpenReadAsync Overload
CloudFile Class

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<td>(Nullable&lt;Int64&gt;)(Nullable&lt;Int64&gt;)</td>
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<tr>
<td>(Nullable&lt;Int64&gt;)(Nullable(Of Int64))</td>
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</tr>
</tbody>
</table>

See Also
Returns a task that performs an asynchronous operation to open a stream for writing to the file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#:

```csharp
[DoesServiceRequestAttribute]
public virtual Task<CloudFileStream> OpenWriteAsync(
    Nullable<long> size
)
```

C++:

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<CloudFileStream^>^ OpenWriteAsync(
    Nullable<long long> size
)
```

F#:

```fsharp
[<DoesServiceRequestAttribute>]
abstract OpenWriteAsync : 
    size:Nullable<int64> -> Task<CloudFileStream>

[<DoesServiceRequestAttribute>]
override OpenWriteAsync : 
    size:Nullable<int64> -> Task<CloudFileStream>
```

VB:

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function OpenWriteAsync ( 
    size As Nullable(Of Long)
) As Task(Of CloudFileStream)
```
See Also

OpenWriteAsync Overload
CloudFile Class

Return to top
CloudFile::..OpenWriteAsync Method
(Nullable<Int64>, AccessCondition, FileRequestOptions, OperationContext)(Nullable<Int64>, AccessCondition^, FileRequestOptions^, OperationContext^)
(Nullable<Int64>, AccessCondition, FileRequestOptions, OperationContext)(Nullable(Of Int64), AccessCondition, FileRequestOptions, OperationContext)

See Also
Returns a task that performs an asynchronous operation to open a stream for writing to the file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<CloudFileStream> OpenWriteAsync(
    Nullable<long> size,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext)
```

C++

```cpp
public:
    [DoesServiceRequestAttribute]
    virtual Task<CloudFileStream^>^ OpenWriteAsync(
        Nullable<long long> size,
        AccessCondition^ accessCondition,
        FileRequestOptions^ options,
        OperationContext^ operationContext)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract OpenWriteAsync : 
    size:Nullable<int64> *
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext -> Task<CloudFileStream>
```

```fsharp
[<DoesServiceRequestAttribute>]
override OpenWriteAsync : 
    size:Nullable<int64> *
```
See Also

OpenWriteAsync_ Overload
CloudFile Class

Return to top
CloudFile:::..OpenWriteAsync Method
(Nullable<Int64>, AccessCondition,
FileRequestOptions, OperationContext, CancellationToken)
(Nullable<Int64>, AccessCondition^, FileRequestOptions^,
OperationContext^, CancellationToken)(Nullable<Int64>,
AccessCondition, FileRequestOptions, OperationContext,
CancellationToken)(Nullable(Of Int64), AccessCondition,
FileRequestOptions, OperationContext, CancellationToken)

See Also
Returns a task that performs an asynchronous operation to open a stream for writing to the file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<CloudFileStream> OpenWriteAsync(
    Nullable<long> size,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<CloudFileStream^>^ OpenWriteAsync(
    Nullable<long long> size,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract OpenWriteAsync :
    size:Nullable<int64> *
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->
    Task<CloudFileStream>
```
See Also

OpenWriteAsync Overload
CloudFile Class

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See Also
Returns a task that performs an asynchronous operation to open a stream for writing to the file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<CloudFileStream> OpenWriteAsync(
    Nullable<long> size,
    CancellationToken cancellationToken)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<CloudFileStream^>^ OpenWriteAsync(
    Nullable<long long> size,
    CancellationToken cancellationToken)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract OpenWriteAsync :
    size:Nullable<int64> *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override OpenWriteAsync :
    size:Nullable<int64> *
    cancellationToken:CancellationToken ->
```

VB

```vb
<DoesServiceRequestAttribute>
Public Overridable Function OpenWriteAsync (  
```

```vb
)```
See Also

OpenWriteAsync Overload
CloudFile Class

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</table>

See Also
Returns a task that performs an asynchronous operation to resize a file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C# 

[DoesServiceRequestAttribute]  
public virtual Task ResizeAsync(
    long size
)

C++

doesServiceRequestAttribute:virtual Task ResizeAsync(
    long long size
)

F#

<DoesServiceRequestAttribute>  
abstract ResizeAsync : 
    size:int64 -> Task

<DoesServiceRequestAttribute>  
override ResizeAsync : 
    size:int64 -> Task

VB 

<DoesServiceRequestAttribute>  
Public Overridable Function ResizeAsync (  
    size As Long
) As Task
See Also

- ResizeAsync Overload
- CloudFile Class

Return to top
CloudFile::..ResizeAsync Method (Int64, AccessCondition, FileRequestOptions, OperationContext)(Int64, AccessCondition^, FileRequestOptions^, OperationContext^)(Int64, AccessCondition, FileRequestOptions, OperationContext)(Int64, AccessCondition, FileRequestOptions, OperationContext)

See Also
Returns a task that performs an asynchronous operation to resize a file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task ResizeAsync(
    long size,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext
)
```

C++

```cpp

public:
[DoesServiceRequestAttribute]
virtual Task^ ResizeAsync(
    long long size,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#

```fsharp

[<DoesServiceRequestAttribute>]
abstract ResizeAsync :
    size:int64 *
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext -> Task

[<DoesServiceRequestAttribute>]
override ResizeAsync :
    size:int64 *
See Also

ResizeAsync Overload
CloudFile Class

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CloudFile::...ResizeAsync Method (Int64, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)(Int64, AccessCondition^, FileRequestOptions^, OperationContext^, CancellationToken)(Int64, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)(Int64, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)

See Also
Returns a task that performs an asynchronous operation to resize a file.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task ResizeAsync(
    long size,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++
public:
[DoesServiceRequestAttribute]
virtual Task ResizeAsync(
    long long size,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#
[<DoesServiceRequestAttribute>]
abstract ResizeAsync :
    size:int64 *
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken *
See Also

ResizeAsync_ Overload
CloudFile Class

Return to top
See Also
Returns a task that performs an asynchronous operation to resize a file.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task ResizeAsync(
    long size,
    CancellationToken cancellationToken
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task^ ResizeAsync(
    long long size,
    CancellationToken cancellationToken
)

F#  
[<DoesServiceRequestAttribute>]
abstract ResizeAsync :
    size:int64 *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override ResizeAsync :
    size:int64 *
    cancellationToken:CancellationToken ->

VB  
<DoesServiceRequestAttribute>
Public Overridable Function ResizeAsync (  

See Also

ResizeAsync Overload
CloudFile Class

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See Also
Returns a task that performs an asynchronous operation to update the file's metadata.

**Namespace:** Microsoft.WindowsAzure.Storage.File

**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task SetMetadataAsync()
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ SetMetadataAsync()
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract SetMetadataAsync : unit -> Task
[<DoesServiceRequestAttribute>]
override SetMetadataAsync : unit -> Task
```

**VB**

```vb
<DoesServiceRequestAttribute>
Public Overridable Function SetMetadataAsync As
```

**Return Value**

Type:

```plaintext
System.Threading.Tasks.Task
```

A Task object that represents the current operation.
See Also

SetMetadataAsync_ Overload
CloudFile Class

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See Also
Returns a task that performs an asynchronous operation to update the file's metadata.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task SetMetadataAsync(
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext
)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task^ SetMetadataAsync(
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext
)

F#  

[<DoesServiceRequestAttribute>]
abstract SetMetadataAsync :
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext -> Task

[<DoesServiceRequestAttribute>]
override SetMetadataAsync :
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext -> Task
See Also

SetMetadataAsync Overload
CloudFile Class

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CloudFile::... SetMetadataAsync Method
(AccessCondition, FileRequestOptions, OperationContext, CancellationToken)(AccessCondition^, FileRequestOptions^, OperationContext^, CancellationToken)
(AccessCondition, FileRequestOptions, OperationContext, CancellationToken)(AccessCondition, FileRequestOptions, OperationContext, CancellationToken)

See Also
Returns a task that performs an asynchronous operation to update the file's metadata.

**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task SetMetadataAsync(
    AccessCondition accessCondition, 
    FileRequestOptions options, 
    OperationContext operationContext, 
    CancellationToken cancellationToken
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ SetMetadataAsync(
    AccessCondition^ accessCondition, 
    FileRequestOptions^ options, 
    OperationContext^ operationContext, 
    CancellationToken cancellationToken
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract SetMetadataAsync : 
    accessCondition:AccessCondition * 
    options:FileRequestOptions * 
    operationContext:OperationContext * 
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override SetMetadataAsync : 
    accessCondition:AccessCondition *
See Also

SetMetadataAsync Overload
CloudFile Class

Return to top
CloudFile.SetMetadataAsync Method (CancellationToken) (CancellationToken) (CancellationToken) (CancellationToken)

See Also
Returns a task that performs an asynchronous operation to update the file's metadata.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task SetMetadataAsync(
    CancellationToken cancellationToken
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ SetMetadataAsync(
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract SetMetadataAsync :
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override SetMetadataAsync :
    cancellationToken:CancellationToken ->
```

VB  

```vb
< DoesServiceRequestAttribute >
Public Overridable Function SetMetadataAsync (cancellationToken As CancellationToken) As Task
```
See Also

SetMetadataAsync Overload
CloudFile Class

Return to top
CloudFile.SetPropertiesAsync Method

See Also
Returns a task that performs an asynchronous operation to update the file's properties.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```
[DoesServiceRequestAttribute]
public virtual Task SetPropertiesAsync()
```

**C++**

```
public:
[DoesServiceRequestAttribute]
virtual Task^ SetPropertiesAsync()
```

**F#**

```
[<DoesServiceRequestAttribute>]
abstract SetPropertiesAsync : unit -> Task
[<DoesServiceRequestAttribute>]
override SetPropertiesAsync : unit -> Task
```

**VB**

```
<DoesServiceRequestAttribute>
Public Overridable Function SetPropertiesAsync
```

### Return Value

Type:

```System.Threading.Tasks.Task```

A Task object that represents the current operation.
See Also

SetPropertiesAsync Overload
CloudFile Class

Return to top
CloudFile::...SetPropertiesAsync Method

(CAccessCondition, FileRequestOptions,
OperationContext)(AccessCondition^, FileRequestOptions^,
OperationContext^)(AccessCondition, FileRequestOptions,
OperationContext)(AccessCondition, FileRequestOptions,
OperationContext)

See Also
Returns a task that performs an asynchronous operation to update the file's properties.

**Namespace:**  Microsoft.WindowsAzure.Storage.File

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#
[DoesServiceRequestAttribute]
public virtual Task SetPropertiesAsync(
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext
)

C++
public:
[DoesServiceRequestAttribute]
virtual Task^ SetPropertiesAsync(
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext
)

F#
[<DoesServiceRequestAttribute>]
abstract SetPropertiesAsync :
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext -> Task

[<DoesServiceRequestAttribute>]
override SetPropertiesAsync :
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext -> Task
See Also

SetPropertiesAsync Overload
CloudFile Class

Return to top
CloudFile::...SetPropertiesAsync Method

(AccessCondition, FileRequestOptions, OperationContext, CancellationToken)(AccessCondition^, FileRequestOptions^, OperationContext^, CancellationToken)

(See Also)
Returns a task that performs an asynchronous operation to update the file's properties.

Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task SetPropertiesAsync(
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ SetPropertiesAsync(
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract SetPropertiesAsync :
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override SetPropertiesAsync :
    accessCondition:AccessCondition *
See Also

SetPropertiesAsync Overload
CloudFile Class

Return to top
CloudFile.SetPropertiesAsync Method
\(\text{CancellationToken}(\text{CancellationToken})\)
\(\text{CancellationToken}(\text{CancellationToken})\)

See Also
Returns a task that performs an asynchronous operation to update the file's properties.

Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task SetPropertiesAsync(
    CancellationToken cancellationToken
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task^ SetPropertiesAsync(
    CancellationToken cancellationToken
)

F#  
[<DoesServiceRequestAttribute>]
abstract SetPropertiesAsync :
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override SetPropertiesAsync :
    cancellationToken:CancellationToken ->

VB  
<DoesServiceRequestAttribute>
Public Overridable Function SetPropertiesAsync(
    cancellationToken As CancellationToken
) As Task
See Also

SetPropertiesAsync_ Overload
CloudFile Class

Return to top
CloudFile...StartCopyAsync Method (CloudBlob)  C# C++ F# VB
(CloudBlob^)(CloudBlob)(CloudBlob)

See Also
Initiates an asynchronous operation to start copying a blob's contents, properties, and metadata to this Azure file.

Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    CloudBlob source
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ StartCopyAsync(
    CloudBlob^ source
)

F#

[<DoesServiceRequestAttribute>]
abstract StartCopyAsync :
    source:CloudBlob -> Task<string>
[<DoesServiceRequestAttribute>]
override StartCopyAsync :
    source:CloudBlob -> Task<string>

VB

<DoesServiceRequestAttribute>
Public Overridable Function StartCopyAsync (    source As CloudBlob
) As Task(Of String)
See Also

StartCopyAsync_Overload
CloudFile Class

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See Also
Initiates an asynchronous operation to start copying a blob's contents, properties, and metadata to this Azure file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    CloudBlob source,
    AccessCondition sourceAccessCondition,
    AccessCondition destAccessCondition,
    FileRequestOptions options,
    OperationContext operationContext
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ StartCopyAsync(
    CloudBlob^ source,
    AccessCondition^ sourceAccessCondition,
    AccessCondition^ destAccessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext
)

F#

[<DoesServiceRequestAttribute>]
abstract StartCopyAsync :
    source:CloudBlob *
    sourceAccessCondition:AccessCondition
    destAccessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext
See Also

StartCopyAsync_Overload
CloudFile Class

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CloudFile::...StartCopyAsync Method (CloudBlob, AccessCondition, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)
(CloudBlob^, AccessCondition^, AccessCondition^, FileRequestOptions^, OperationContext^, CancellationToken)
(CloudBlob, AccessCondition, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)
(CloudBlob, AccessCondition, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to start copying a blob's contents, properties, and metadata to this Azure file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    CloudBlob source,
    AccessCondition sourceAccessCondition,
    AccessCondition destAccessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++  

public:

[DoesServiceRequestAttribute]
virtual Task<String^> StartCopyAsync( 
    CloudBlob^ source,
    AccessCondition^ sourceAccessCondition,
    AccessCondition^ destAccessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#  

[<DoesServiceRequestAttribute>]
abstract StartCopyAsync : 
    source:CloudBlob  *
    sourceAccessCondition:AccessCondition
    destAccessCondition:AccessCondition  *
See Also

StartCopyAsync_Overload
CloudFile Class

Return to top
CloudFile::StartCopyAsync Method (CloudBlob, CancellationToken)(CloudBlob^, CancellationToken)(CloudBlob, CancellationToken)

See Also
Initiates an asynchronous operation to start copying a blob's contents, properties, and metadata to this Azure file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    CloudBlob source,
    CancellationToken cancellationToken
)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ StartCopyAsync(
    CloudBlob^ source,
    CancellationToken cancellationToken
)

F#  

[<DoesServiceRequestAttribute>]
abstract StartCopyAsync :
    source:CloudBlob *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override StartCopyAsync :
    source:CloudBlob *
    cancellationToken:CancellationToken ->

VB  

<DoesServiceRequestAttribute>
Public Overridable Function StartCopyAsync (“}
See Also

StartCopyAsync_Overload
CloudFile Class

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See Also
Initiates an asynchronous operation to start copying another file's contents, properties, and metadata to this file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    CloudFile source
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ StartCopyAsync(
    CloudFile^ source
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract StartCopyAsync :
    source:CloudFile -> Task<string>
[<DoesServiceRequestAttribute>]
override StartCopyAsync :
    source:CloudFile -> Task<string>
```

VB  

```vb
<DoesServiceRequestAttribute>
Public Overridable Function StartCopyAsync (  
    source As CloudFile  
) As Task(Of String)
```
See Also

StartCopyAsync method overload
CloudFile Class

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See Also
Initiates an asynchronous operation to start copying another file's contents, properties, and metadata to this file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](http://example.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    CloudFile source,
    AccessCondition sourceAccessCondition,
    AccessCondition destAccessCondition,
    FileRequestOptions options,
    OperationContext operationContext
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ StartCopyAsync(
    CloudFile^ source,
    AccessCondition^ sourceAccessCondition,
    AccessCondition^ destAccessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract StartCopyAsync :
    source:CloudFile *
    sourceAccessCondition:AccessCondition
    destAccessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext ->
    Task<string>
```
See Also

StartCopyAsync_Overload
CloudFile Class

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CloudFile.::...StartCopyAsync Method (CloudFile, AccessCondition, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)
(CloudFile^, AccessCondition^, AccessCondition^, FileRequestOptions^, OperationContext^, CancellationToken^)
(CloudFile, AccessCondition, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)
(CloudFile, AccessCondition, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)

See Also
Initiates an asynchronous operation to start copying another file's contents, properties, and metadata to this file.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    CloudFile source,
    AccessCondition sourceAccessCondition,  
    AccessCondition destAccessCondition, 
    FileRequestOptions options, 
    OperationContext operationContext, 
    CancellationToken cancellationToken
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ StartCopyAsync(
    CloudFile^ source, 
    AccessCondition^ sourceAccessCondition,
    AccessCondition^ destAccessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#  
[<DoesServiceRequestAttribute>]
abstract StartCopyAsync : 
    source:CloudFile *
    sourceAccessCondition:AccessCondition
    destAccessCondition:AccessCondition *
See Also

- StartCopyAsync_Overload
- CloudFile Class

Return to top
CloudFile:::StartCopyAsync Method (CloudFile, CancellationToken)

See Also
Initiates an asynchronous operation to start copying another file's contents, properties, and metadata to this file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    CloudFile source,
    CancellationToken cancellationToken
)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ StartCopyAsync(
    CloudFile^ source,
    CancellationToken cancellationToken
)

F#  

[<DoesServiceRequestAttribute>]
abstract StartCopyAsync :
    source:CloudFile *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override StartCopyAsync :
    source:CloudFile *
    cancellationToken:CancellationToken ->

VB  

<DoesServiceRequestAttribute>
Public Overridable Function StartCopyAsync (  

See Also

StartCopyAsync_Overload
CloudFile Class

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<th><strong>CloudFile.::..StartCopyAsync Method (Uri)(Uri^)</strong></th>
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<td>(Uri)(Uri)</td>
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</table>

**See Also**
Initiates an asynchronous operation to start copying another Azure file or blob's contents, properties, and metadata to this Azure file.

**Namespace:** [Microsoft.WindowsAzure.Storage.File](#)

**Assembly:** [Microsoft.WindowsAzure.Storage](#) (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
[DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    Uri source
)
```

C++
```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ StartCopyAsync(
    Uri^ source
)
```

F#
```fsharp
[<DoesServiceRequestAttribute>]
abstract StartCopyAsync :
    source:Uri -> Task<string>
[<DoesServiceRequestAttribute>]
override StartCopyAsync :
    source:Uri -> Task<string>
```

VB
```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function StartCopyAsync (  
    source As Uri
) As Task(Of String)
```
See Also

StartCopyAsync_Overload
CloudFile Class

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See Also
Initiates an asynchronous operation to start copying another Azure file or blob's contents, properties, and metadata to this Azure file.

**Namespace:**  Microsoft.WindowsAzure.Storage.File

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    Uri source,
    AccessCondition sourceAccessCondition,
    AccessCondition destAccessCondition,
    FileRequestOptions options,
    OperationContext operationContext
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ StartCopyAsync(
    Uri^ source,
    AccessCondition^ sourceAccessCondition,
    AccessCondition^ destAccessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract StartCopyAsync :
    source:Uri *
    sourceAccessCondition:AccessCondition
    destAccessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext
```

```
See Also

StartCopyAsync_Overload
CloudFile Class

Return to top
CloudFile::...StartCopyAsync Method (Uri, AccessCondition, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)
(Uri^, AccessCondition^, AccessCondition^, FileRequestOptions^, OperationContext^, CancellationToken)

See Also
Initiates an asynchronous operation to start copying another Azure file or blob's contents, properties, and metadata to this Azure file.

**Namespace:** Microsoft.WindowsAzure.Storage.File  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    Uri source,
    AccessCondition sourceAccessCondition,
    AccessCondition destAccessCondition,
    FileRequestOptions options,
    OperationContext operationContext, 
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ StartCopyAsync(
    Uri^ source,
    AccessCondition^ sourceAccessCondition,
    AccessCondition^ destAccessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken^ cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract StartCopyAsync : 
    source:Uri * 
    sourceAccessCondition:AccessCondition 
    destAccessCondition:AccessCondition *
See Also

StartCopyAsync_Overload
CloudFile Class

Return to top
CloudFile.:..StartCopyAsync Method (Uri, CancellationToken)(Uri^, CancellationToken)(Uri, CancellationToken)

See Also
Initiates an asynchronous operation to start copying another Azure file or blob's contents, properties, and metadata to this Azure file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](https://aka.ms/MAF)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task<string> StartCopyAsync(
    Uri source,
    CancellationToken cancellationToken
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task<String^>^ StartCopyAsync(
    Uri^ source,
    CancellationToken cancellationToken
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract StartCopyAsync :
    source:Uri *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override StartCopyAsync :
    source:Uri *
    cancellationToken:CancellationToken ->
```

**VB**

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function StartCopyAsync (   
```
See Also

StartCopyAsync_Overload
CloudFile Class

Return to top
CloudFile::..UploadFromByteArrayAsync Method
(Byte[], Int32, Int32)(array<Byte>^, Int32, Int32)
(Byte[], Int32, Int32)(Byte(), Int32, Int32)
See Also
Returns a task that performs an asynchronous operation to upload the contents of a byte array to a file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadFromByteArrayAsync(
    byte[] buffer,
    int index,
    int count
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromByteArrayAsync(
    array<unsigned char>^-^ buffer,
    int index,
    int count
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>] abstract UploadFromByteArrayAsync :
    buffer:byte[] *
    index:int *
    count:int -> Task
[<DoesServiceRequestAttribute>] override UploadFromByteArrayAsync :
    buffer:byte[] *
    index:int *
    count:int -> Task
```
See Also

UploadFromByteArrayAsync_Overload
CloudFile Class

Return to top
CloudFile:::UploadFromByteArrayAsync Method

C#  

C++  

F#  

VB  

UploadFromByteArrayAsync(array<Byte>^, Int32, Int32, AccessCondition^, FileRequestOptions^, OperationContext^)

See Also
Returns a task that performs an asynchronous operation to upload the contents of a byte array to a file.

Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadFromByteArrayAsync(
    byte[] buffer,
    int index,
    int count,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromByteArrayAsync(
    array<unsigned char>^ buffer,
    int index,
    int count,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadFromByteArrayAsync :
    buffer:byte[]  *
    index:int  *
    count:int  *
```
See Also

UploadFromByteArrayAsync_Overload
CloudFile Class

Return to top
CloudFile.:..UploadFromByteArrayAsync Method  C# C++ F# VB
(Byte[], Int32, Int32, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)
(array<Byte>^, Int32, Int32, AccessCondition^, FileRequestOptions^, OperationContext^, CancellationToken)
See Also
Returns a task that performs an asynchronous operation to upload the contents of a byte array to a file.

**Namespace:**  Microsoft.WindowsAzure.Storage.File

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task UploadFromByteArrayAsync(
    byte[] buffer,
    int index,
    int count,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromByteArrayAsync(
    array<unsigned char>^ buffer,
    int index,
    int count,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract UploadFromByteArrayAsync :
    buffer:byte[] *
See Also

UploadFromByteArrayAsync_Overload
CloudFile Class

Return to top
CloudFile..::..UploadFromByteArrayAsync Method
(Byte[], Int32, Int32, CancellationToken)
(array<Byte>^, Int32, Int32, CancellationToken)(Byte[],
Int32, Int32, CancellationToken)(Byte(), Int32, Int32,
CancellationToken)

See Also
Returns a task that performs an asynchronous operation to upload the contents of a byte array to a file.

**Namespace**: Microsoft.WindowsAzure.Storage.File

Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadFromByteArrayAsync(
    byte[] buffer,
    int index,
    int count,
    CancellationToken cancellationToken
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromByteArrayAsync(
    array<unsigned char>^ buffer,
    int index,
    int count,
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadFromByteArrayAsync :
    buffer:byte[] *
    index:int *
    count:int *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override UploadFromByteArrayAsync :
    buffer:byte[] *
```
See Also

UploadFromByteArrayAsync_Overload
CloudFile Class

Return to top
CloudFile:::UploadFromFileAsync Method (String) C# C++ F# VB
(String^)(String)(String)
See Also
Returns a task that performs an asynchronous operation to upload a local file to the File service. If the file already exists on the service, it will be overwritten.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task UploadFromFileAsync(
    string path
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromFileAsync(
    String^ path
)

F#  
[<DoesServiceRequestAttribute>]
abstract UploadFromFileAsync : path:string -> Task
[<DoesServiceRequestAttribute>]
override UploadFromFileAsync : path:string -> Task

VB  
<DoesServiceRequestAttribute>
Public Overridable Function UploadFromFileAsync(path As String
) As Task
See Also

UploadFromFileAsync Overload
CloudFile Class

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CloudFile::..UploadFromFileAsync Method

C#

C++

F#

VB

See Also
Returns a task that performs an asynchronous operation to upload a local file to the File service. If the file already exists on the service, it will be overwritten.

**Namespace:** Microsoft.WindowsAzure.Storage.File  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task UploadFromFileAsync(  
    string path,  
    AccessCondition accessCondition,  
    FileRequestOptions options,  
    OperationContext operationContext  
)

C++  
public:  
[DoesServiceRequestAttribute]
virtual Task^ UploadFromFileAsync(  
    String^ path,  
    AccessCondition^ accessCondition,  
    FileRequestOptions^ options,  
    OperationContext^ operationContext  
)

F#  
[<DoesServiceRequestAttribute>]  
abstract UploadFromFileAsync :  
    path:string *  
    accessCondition:AccessCondition *  
    options:FileRequestOptions *  
    operationContext:OperationContext -> Task  
[<DoesServiceRequestAttribute>]  
override UploadFromFileAsync :  
    path:string *  

See Also

UploadFromFileSync Overload
CloudFile Class
CloudFile::..UploadFromFileAsync Method

C# C++ F# VB

(String, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)(String^, AccessCondition^, FileRequestOptions^, OperationContext^, CancellationToken)(String, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)

See Also
Returns a task that performs an asynchronous operation to upload a local file to the File service. If the file already exists on the service, it will be overwritten.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadFromFileAsync(
    string path,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromFileAsync(
    String^ path,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadFromFileAsync :
    path:string *
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken *
```
See Also

UploadFromFileAsync Overload
CloudFile Class

Return to top
CloudFile.::..UploadFromFileAsync Method
(String, CancellationToken)(String^, CancellationToken)(String, CancellationToken)(String, CancellationToken)

See Also
Returns a task that performs an asynchronous operation to upload a local file to the File service. If the file already exists on the service, it will be overwritten.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](https://github.com/MicrosoftDocs/WindowsAzureStorageSDK

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task UploadFromFileAsync(
    string path,
    CancellationToken cancellationToken
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromFileAsync(
    String^ path,
    CancellationToken cancellationToken
)

F#  
[<DoesServiceRequestAttribute>]
abstract UploadFromFileAsync :
    path:string *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override UploadFromFileAsync :
    path:string *
    cancellationToken:CancellationToken ->

VB  
<DoesServiceRequestAttribute>
Public Overridable Function UploadFromFileAsync


See Also

UploadFromFileAsync_ Overload
CloudFile Class

Return to top
CloudFile::..UploadFromStreamAsync Method
(Stream)(Stream^)(Stream)(Stream)

See Also
Returns a task that performs an asynchronous operation to upload a stream to a file.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source
)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(
    Stream^ source
)

F#  

[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync : source:Stream -> Task
[<DoesServiceRequestAttribute>]
override UploadFromStreamAsync : source:Stream -> Task

VB  

<DoesServiceRequestAttribute>
Public Overridable Function UploadFromStreamAsync (source As Stream
) As Task
See Also

UploadFromStreamAsync_Overload
CloudFile Class

Return to top
CloudFile:::UploadFromStreamAsync Method
(Stream, AccessCondition, FileRequestOptions, OperationContext)
(Stream^, AccessCondition^, FileRequestOptions^, OperationContext^)
(Stream, AccessCondition, FileRequestOptions, OperationContext)

See Also
Returns a task that performs an asynchronous operation to upload a stream to a file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext
)
```

**C++**

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(
    Stream^ source,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext
)
```

**F#**

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync :
    source:Stream *
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext -> Task

[<DoesServiceRequestAttribute>]
override UploadFromStreamAsync :
    source:Stream *
```
See Also

UploadFromStreamAsync_Overload
CloudFile Class

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CloudFile::UploadFromStreamAsync Method

(C#)

(Stream, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)

(C++)

(Stream^, AccessCondition^, FileRequestOptions^, OperationContext^, CancellationToken)

(F#)

(Stream, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)

(VB)

(Stream, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)

See Also
Returns a task that performs an asynchronous operation to upload a stream to a file.

Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(
    Stream^ source,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#
[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync : 
    source:Stream *
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext *
    cancellationToken:CancellationToken *
See Also

UploadFromStreamAsync_Overload
CloudFile Class

Return to top
CloudFile:::UploadFromStreamAsync Method
(Stream, CancellationToken)
(Stream^, CancellationToken)
(Stream, CancellationToken)

See Also
Returns a task that performs an asynchronous operation to upload a stream to a file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source,
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(
    Stream^ source,
    CancellationToken cancellationToken
)

F#

[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync :
    source:Stream *
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override UploadFromStreamAsync :
    source:Stream *
    cancellationToken:CancellationToken ->

VB

<DoesServiceRequestAttribute>
Public Overridable Function UploadFromStreamAs
See Also

UploadFromStreamAsync_Overload

CloudFile Class


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See Also
Returns a task that performs an asynchronous operation to upload a stream to a file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source,
    long length
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(
    Stream^ source,
    long long length
)

F#

[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync : 
    source:Stream *
    length:int64 -> Task

[<DoesServiceRequestAttribute>]
override UploadFromStreamAsync :
    source:Stream *
    length:int64 -> Task

VB

<DoesServiceRequestAttribute>
Public Overridable Function UploadFromStreamAsync As
See Also

UploadFromStreamAsync_Overload
CloudFile Class

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CloudFile.UploadFromStreamAsync Method

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See Also
Returns a task that performs an asynchronous operation to upload a stream to a file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source,
    long length,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(
    Stream^ source,
    long long length,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync :
    source:Stream *
    length:int64 *
    accessCondition:AccessCondition *
    options:FileRequestOptions *
    operationContext:OperationContext *
```
See Also

UploadFromStreamAsync Overload
CloudFile Class

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CloudFile::UploadFromStreamAsync Method
(Stream, Int64, AccessCondition,
FileRequestOptions, OperationContext, CancellationToken)
(Stream^, Int64, AccessCondition^, FileRequestOptions^,
OperationContext^, CancellationToken)(Stream, Int64,
AccessCondition, FileRequestOptions, OperationContext,
CancellationToken)(Stream, Int64, AccessCondition,
FileRequestOptions, OperationContext, CancellationToken)

See Also
Returns a task that performs an asynchronous operation to upload a stream to a file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(  
    Stream source,
    long length,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken
)

C++  
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(  
    System::Stream^ source,
    System::Int64 length,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken
)

F#  
[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync :  
    source:Stream *  
    length:int64 *  
    accessCondition:AccessCondition *
See Also

UploadFromStreamAsync Overload
CloudFile Class

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CloudFile:::UploadFromStreamAsync Method
(Stream, Int64, CancellationToken)
(Stream^, Int64, CancellationToken)
(Stream, Int64, CancellationToken)
See Also
Returns a task that performs an asynchronous operation to upload a stream to a file.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task UploadFromStreamAsync(
    Stream source,
    long length,
    CancellationToken cancellationToken
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ UploadFromStreamAsync(  
    Stream^ source,  
    long long length,  
    CancellationToken cancellationToken
)

F#  

[<DoesServiceRequestAttribute>]
abstract UploadFromStreamAsync :  
    source:Stream *  
    length:int64 *  
    cancellationToken:CancellationToken ->  

[<DoesServiceRequestAttribute>]
override UploadFromStreamAsync :  
    source:Stream *  
    length:int64 *  
    cancellationToken:CancellationToken ->
See Also

UploadFromStreamAsync_Overload
CloudFile Class

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See Also
Returns a task that performs an asynchronous operation to upload a string of text to a file.

Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task UploadTextAsync(
    string content
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ UploadTextAsync(
    String^ content
)

F#

[<DoesServiceRequestAttribute>]
abstract UploadTextAsync : content:string -> Task
[<DoesServiceRequestAttribute>]
override UploadTextAsync : content:string -> Task

VB

<DoesServiceRequestAttribute>
Public Overridable Function UploadTextAsync ( content As String ) As Task
See Also

UploadTextAsync_Overload
CloudFile Class

Return to top
CloudFile::..UploadTextAsync Method (String, CancellationToken)(String^, CancellationToken)(String, CancellationToken)(String, CancellationToken)

See Also
Returns a task that performs an asynchronous operation to upload a string of text to a file.

**Namespace:**  [Microsoft.WindowsAzure.Storage.File](https://docs.microsoft.com/en-us/azure/storage/)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadTextAsync(
    string content,
    CancellationToken cancellationToken
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadTextAsync(
    String^ content,
    CancellationToken cancellationToken
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadTextAsync :
    content:string *
    cancellationToken:CancellationToken ->
[<DoesServiceRequestAttribute>]
override UploadTextAsync :
    content:string *
    cancellationToken:CancellationToken ->
```

VB  

```vbnet
<DoesServiceRequestAttribute>
Public Overridable Function UploadTextAsync (  
```

```vbnet
    String, CancellationToken)
```

```vbnet
   .setVerticalGroup
    .ThenAbout
    .TaskToPublish
```
See Also

UploadTextAsync_Overload
CloudFile Class

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See Also
Returns a task that performs an asynchronous operation to upload a string of text to a file.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
[DoesServiceRequestAttribute]
public virtual Task UploadTextAsync(
    string content,
    Encoding encoding,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext
)
```

C++

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ UploadTextAsync(
    String^ content,
    Encoding^ encoding,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#

```fsharp
[<DoesServiceRequestAttribute>]
abstract UploadTextAsync : content:string * encoding:Encoding * accessCondition:AccessCondition * options:FileRequestOptions * operationContext:OperationContext *
See Also

UploadTextAsync_Overload
CloudFile Class

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See Also
Returns a task that performs an asynchronous operation to upload a string of text to a file.

**Namespace:**  Microsoft.WindowsAzure.Storage.File  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task UploadTextAsync(
    string content,
    Encoding encoding,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ UploadTextAsync(
    String^ content,
    Encoding^ encoding,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken)

F#

[<DoesServiceRequestAttribute>]
abstract UploadTextAsync :
    content:string *
    encoding:Encoding *
    accessCondition:AccessCondition *
See Also

UploadTextAsync_Overload
CloudFile Class

Return to top
CloudFile..::.WriteRangeAsync Method (Stream, Int64, String)(Stream^, Int64, String^)(Stream, Int64, String)

See Also
Returns a task that performs an asynchronous operation to write a range to a file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

[DoesServiceRequestAttribute]
public virtual Task WriteRangeAsync(
    Stream rangeData,
    long startOffset,
    string contentMD5
)

C++

public:
[DoesServiceRequestAttribute]
virtual Task^ WriteRangeAsync(
    Stream^ rangeData,
    long long startOffset,
    String^ contentMD5
)

F#

[<DoesServiceRequestAttribute>]
abstract WriteRangeAsync :
    rangeData:Stream *
    startOffset:int64 *
    contentMD5:string -> Task

[<DoesServiceRequestAttribute>]
override WriteRangeAsync :
    rangeData:Stream *
    startOffset:int64 *
    contentMD5:string -> Task
See Also

WriteRangeAsync_Overload
CloudFile Class

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See Also
Returns a task that performs an asynchronous operation to write a range to a file.

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
[DoesServiceRequestAttribute]
public virtual Task WriteRangeAsync(
    Stream rangeData,
    long startOffset,
    string contentMD5,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext
)
```

C++  

```cpp
public:
[DoesServiceRequestAttribute]
virtual Task^ WriteRangeAsync(
    Stream^ rangeData,
    long long startOffset,
    String^ contentMD5,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext
)
```

F#  

```fsharp
[<DoesServiceRequestAttribute>]
abstract WriteRangeAsync :
    rangeData:Stream *
    startOffset:int64 *
    contentMD5:string *
```
See Also

WriteRangeAsync_Overload
CloudFile Class

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CloudFile::WriteRangeAsync Method (Stream, Int64, String, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)
(Stream^, Int64, String^, AccessCondition^, FileRequestOptions^, OperationContext^, CancellationToken)^
(Stream, Int64, String, AccessCondition, FileRequestOptions, OperationContext, CancellationToken)

See Also
Returns a task that performs an asynchronous operation to write a range to a file.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

[DoesServiceRequestAttribute]
public virtual Task WriteRangeAsync(
    Stream rangeData,
    long startOffset,
    string contentMD5,
    AccessCondition accessCondition,
    FileRequestOptions options,
    OperationContext operationContext,
    CancellationToken cancellationToken)

C++  

public:
[DoesServiceRequestAttribute]
virtual Task^ WriteRangeAsync(
    Stream^ rangeData,
    long long startOffset,
    String^ contentMD5,
    AccessCondition^ accessCondition,
    FileRequestOptions^ options,
    OperationContext^ operationContext,
    CancellationToken cancellationToken)

F#  

[<DoesServiceRequestAttribute>]
abstract WriteRangeAsync :
    rangeData:Stream	*
    startOffset:int64	*
    contentMD5:string	*
    accessCondition:AccessCondition	*
See Also

WriteRangeAsync_Overload
CloudFile Class

Return to top
CloudFile::WriteRangeAsync Method (Stream, Int64, String, CancellationToken)(Stream^, Int64, String^, CancellationToken)(Stream, Int64, String, CancellationToken)(Stream, Int64, String, CancellationToken)

See Also
Returns a task that performs an asynchronous operation to write a range to a file.

Syntax

C#  
[DoesServiceRequestAttribute]
public virtual Task WriteRangeAsync(  
    Stream rangeData,
    long startOffset,
    string contentMD5,
    CancellationToken cancellationToken
)

C++
public:
[DoesServiceRequestAttribute]
virtual Task^ WriteRangeAsync(  
    Stream^ rangeData,
    long long startOffset,
    String^ contentMD5,
    CancellationToken cancellationToken
)

F#
[<DoesServiceRequestAttribute>]
abstract WriteRangeAsync :  
    rangeData:Stream *  
    startOffset:int64 *  
    contentMD5:string *  
    cancellationToken:CancellationToken ->

[<DoesServiceRequestAttribute>]
override WriteRangeAsync :  
    rangeData:Stream *
See Also

WriteRangeAsync_Overload
CloudFile Class

Return to top
CloudStorageAccount Constructor

See Also
Namespace:  Microsoft.WindowsAzure.Storage
Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudStorageAccount(StorageCredentials, Boolean)</code>(StorageCredentials^, Boolean)(StorageCredentials, Boolean)</td>
<td>Initializes a new instance of the <code>CloudStorageAccount</code> class using the specified credentials, and specifies whether to use HTTP or HTTPS to connect to the storage services.</td>
</tr>
<tr>
<td><code>CloudStorageAccount(StorageCredentials, StorageUri, StorageUri, StorageUri, StorageUri)</code>(StorageCredentials^, StorageUri^, StorageUri^, StorageUri^, StorageUri^)(StorageCredentials, StorageUri, StorageUri, StorageUri, StorageUri)(StorageCredentials, StorageUri, StorageUri, StorageUri, StorageUri)</td>
<td>Initializes a new instance of the <code>CloudStorageAccount</code> class using the specified account credentials and service endpoints.</td>
</tr>
<tr>
<td><code>CloudStorageAccount(StorageCredentials, String, Boolean)</code>(StorageCredentials^, String^, Boolean)(StorageCredentials, String, Boolean)(StorageCredentials, String, Boolean)</td>
<td>Initializes a new instance of the <code>CloudStorageAccount</code> class using the specified credentials and endpoint suffix, and specifies whether to use HTTP or HTTPS to connect to the storage services.</td>
</tr>
</tbody>
</table>
See Also

CloudStorageAccount Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
CloudAnalyticsClient Class

See Also

C# C++ F# VB
Provides a client-side logical representation for Microsoft Azure Storage Analytics. This client is used to configure and execute requests against storage analytics.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Analytics](#)
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System..Object
  Microsoft.WindowsAzure.Storage.Analytics..CloudAnalyticsClient
Syntax

C#  
```csharp
public sealed class CloudAnalyticsClient
```

C++  
```cpp
public ref class CloudAnalyticsClient sealed
```

F#  
```fsharp
[<Sealed>]
type CloudAnalyticsClient = class end
```

VB  
```vbnet
Public NotInheritable Class CloudAnalyticsClient
```
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CloudAnalyticsClient(StorageUri, StorageUri, StorageCredentials) (StorageUri^, StorageUri^, StorageCredentials^)(StorageUri, StorageUri, StorageCredentials) (StorageUri, StorageUri, StorageCredentials)</td>
<td>Initializes a new instance of the <code>CloudAnalyticsClient</code> class using the specified Blob and Table service endpoints and account credentials.</td>
</tr>
<tr>
<td>Name</td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>CreateCapacityQuery()()()()</td>
<td></td>
</tr>
<tr>
<td>CreateHourMetricsQuery(StorageService, StorageLocation)</td>
<td></td>
</tr>
<tr>
<td>CreateMinuteMetricsQuery(StorageService, StorageLocation)</td>
<td></td>
</tr>
<tr>
<td>Equals(Object^(Object))(Object)(Object)</td>
<td></td>
</tr>
</tbody>
</table>
Remarks

The analytics service client encapsulates the endpoints for the Blob and Table services. It also encapsulates credentials for accessing 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.
See Also

Microsoft.WindowsAzure.Storage.Analytics Namespace

Return to top
CloudQueueClient Class

See Also

C# C++ F# VB
Provides a client-side logical representation of the Windows Azure Queue service. This client is used to configure and execute requests against the Queue service.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System..Object
Microsoft.WindowsAzure.Storage.Queue..CloudQueueClient
**Syntax**

**C#**
```csharp
public class CloudQueueClient
```

**C++**
```cpp
public ref class CloudQueueClient
```

**F#**
```fsharp
type CloudQueueClient = class end
```

**VB**
```vbnet
Public Class CloudQueueClient
```
# Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CloudQueueClient(StorageUri, StorageCredentials)(StorageUri^, StorageCredentials^)(StorageUri, StorageCredentials)</td>
<td>Initializes a new instance of the CloudQueueClient class using the specified Queue service endpoint and account credentials.</td>
</tr>
<tr>
<td>CloudQueueClient(Uri, StorageCredentials)(Uri^, StorageCredentials^)(Uri, StorageCredentials)(Uri, StorageCredentials)</td>
<td>Initializes a new instance of the CloudQueueClient class using the specified Queue service endpoint and account credentials.</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>AuthenticationScheme</td>
</tr>
<tr>
<td>AuthenticationScheme</td>
</tr>
<tr>
<td>AuthenticationScheme</td>
</tr>
<tr>
<td>AuthenticationScheme</td>
</tr>
<tr>
<td>BaseUri</td>
</tr>
<tr>
<td>BaseUri</td>
</tr>
<tr>
<td>BaseUri</td>
</tr>
<tr>
<td>BaseUri</td>
</tr>
<tr>
<td>BufferManager</td>
</tr>
<tr>
<td>BufferManager</td>
</tr>
<tr>
<td>BufferManager</td>
</tr>
<tr>
<td>BufferManager</td>
</tr>
<tr>
<td>BufferManager</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Method</th>
<th>Return Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>BeginGetServiceProperties(AsyncCallback, Object)</td>
<td>AsyncCallback^, Object^</td>
</tr>
<tr>
<td>BeginGetServiceProperties(QueueRequestOptions, OperationContext, AsyncCallback^, Object^)</td>
<td>QueueRequestOptions^, OperationContext, AsyncCallback^, Object^</td>
</tr>
<tr>
<td>BeginGetServiceStats(AsyncCallback, Object)</td>
<td>AsyncCallback^, Object^</td>
</tr>
</tbody>
</table>
Remarks

The service client encapsulates the endpoint or endpoints for the Queue service. If the service client will be used for authenticated access, it also encapsulates the credentials for accessing 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.
See Also

Microsoft.WindowsAzure.Storage.Queue Namespace

Return to top
Provides a client-side logical representation of the Windows Azure Table Service. This client is used to configure and execute requests against the Table Service.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Table](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage.table)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System...Object
  Microsoft.WindowsAzure.Storage.Table...CloudTableClient
Syntax

**C#**
```csharp
public class CloudTableClient
```

**C++**
```cpp
public ref class CloudTableClient
```

**F#**
```fsharp
type CloudTableClient = class end
```

**VB**
```vbnet
Public Class CloudTableClient
```
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>CloudTableClient(StorageUri, StorageCredentials)</code></td>
<td>Initializes a new instance of the <code>CloudTableClient</code> class using the specified Table service endpoint and account credentials.</td>
</tr>
<tr>
<td><code>CloudTableClient(Uri, StorageCredentials)</code></td>
<td>Initializes a new instance of the <code>CloudTableClient</code> class using the specified Table service endpoint and account credentials.</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>AuthenticationScheme</td>
</tr>
<tr>
<td>BaseUri</td>
</tr>
<tr>
<td>BufferManager</td>
</tr>
</tbody>
</table>
### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>BeginGetServiceProperties(AsyncCallback, Object)</code></td>
<td>AsyncCallback^, Object</td>
</tr>
<tr>
<td><code>BeginGetServiceProperties(TableRequestOptions, OperationContext, AsyncCallback^, Object)</code></td>
<td>TableRequestOptions, OperationContext, AsyncCallback^, Object</td>
</tr>
<tr>
<td><code>BeginGetServiceStats(AsyncCallback, Object)</code></td>
<td>AsyncCallback^, Object</td>
</tr>
</tbody>
</table>
Remarks

The service client encapsulates the endpoint or endpoints for the Table service. If the service client will be used for authenticated access, it also encapsulates the credentials for accessing 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.
See Also

Microsoft.WindowsAzure.Storage.Table Namespace

Return to top
| CloudStorageAccount.:::ToString Method | C# | C++ | F# | VB |
| See Also |
Namespace: Microsoft.WindowsAzure.Storage
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>ToString()</code></td>
<td>Returns a connection string for this storage account, without sensitive data.</td>
</tr>
<tr>
<td><code>ToString(Boolean)(Boolean)(Boolean)(Boolean)</code></td>
<td>Returns a connection string for the storage account, optionally with sensitive data.</td>
</tr>
</tbody>
</table>
See Also

CloudStorageAccount Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
IPAddressOrRange Constructor

See Also
Namespace:  Microsoft.WindowsAzure.Storage
# Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPAddressOrRange(String)(String^)(String)(String)</td>
<td>Initializes a new instance of the IPAddressOrRange class from a single IPAddress.</td>
</tr>
<tr>
<td>IPAddressOrRange(String, String)(String^, String^)(String, String)(String, String)</td>
<td>Initializes a new instance of the IPAddressOrRange class from two IPAddress objects, minimum and a maximum.</td>
</tr>
</tbody>
</table>
See Also

IPAddressOrRange Class
Microsoft.WindowsAzure.Storage Namespace

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<table>
<thead>
<tr>
<th><strong>StorageException Constructor</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>See Also</strong></td>
</tr>
</tbody>
</table>
Namespace: Microsoft.WindowsAzure.Storage
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>StorageException()</strong></td>
<td>Initializes a new instance of the StorageException class.</td>
</tr>
<tr>
<td><strong>StorageException(RequestResult, String, Exception)</strong></td>
<td>Initializes a new instance of the StorageException class by using the specified parameters.</td>
</tr>
<tr>
<td><strong>StorageException(String)</strong></td>
<td>Initializes a new instance of the StorageException class using the specified error message.</td>
</tr>
</tbody>
</table>
See Also

StorageException Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
StorageException::..TranslateException Method

See Also
Namespace:  Microsoft.WindowsAzure.Storage
## Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TranslateException(Exception, RequestResult)</strong>&lt;sup&gt;*&lt;/sup&gt;</td>
<td>Translates the specified exception into a StorageException.</td>
</tr>
<tr>
<td><strong>TranslateException(Exception^, RequestResult^)</strong>&lt;sup&gt;*&lt;/sup&gt;</td>
<td>Translates the specified exception into a storage exception.</td>
</tr>
<tr>
<td><strong>TranslateException(Exception, RequestResult, Func&lt;Stream, StorageExtendedErrorInformation&gt;&gt;)</strong>&lt;sup&gt;*&lt;/sup&gt;</td>
<td></td>
</tr>
<tr>
<td><strong>TranslateException(Exception^, RequestResult^, Func&lt;Stream^, StorageExtendedErrorInformation^&gt;&gt;)</strong>&lt;sup&gt;*&lt;/sup&gt;</td>
<td></td>
</tr>
</tbody>
</table>
See Also

StorageException Class
Microsoft.WindowsAzure.Storage Namespace

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<table>
<thead>
<tr>
<th>StorageUri Constructor</th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

See Also
Namespace: Microsoft.WindowsAzure.Storage
### Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="Uri,%E2%80%82Uri" alt="StorageUri(Uri)(Uri^)(Uri)(Uri)" /></td>
<td>Initializes a new instance of the <a href="#">StorageUri</a> class using the primary endpoint for the storage account.</td>
</tr>
<tr>
<td><img src="Uri,%E2%80%82Uri" alt="StorageUri(Uri, Uri)(Uri^)(Uri, Uri)(Uri, Uri)" /></td>
<td>Initializes a new instance of the <a href="#">StorageUri</a> class using the primary and secondary endpoints for the storage account.</td>
</tr>
</tbody>
</table>
See Also

StorageUri Class
Microsoft.WindowsAzure.Storage Namespace

Return to top
<table>
<thead>
<tr>
<th>StorageUri::...Equals Method</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>See Also</strong></td>
</tr>
</tbody>
</table>

C# C++ F# VB
Namespace:  Microsoft.WindowsAzure.Storage
# Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>Equals(Object)(Object^)(Object)(Object)</code></td>
<td>Determines whether the specified object is equal to this instance. (Overrides <code>Equals(Object^)(Object)</code>).</td>
</tr>
<tr>
<td><code>Equals(StorageUri)(StorageUri^)(StorageUri)(StorageUri)</code></td>
<td>Indicates whether the current object is equal to another object of the same type.</td>
</tr>
</tbody>
</table>
See Also

StorageUri Class
Microsoft.WindowsAzure.Storage Namespace

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Microsoft.WindowsAzure.Storage.Table Namespace

C# C++ F# VB
# Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CloudTable</strong></td>
<td>Represents a Windows Azure table.</td>
</tr>
<tr>
<td><strong>CloudTableClient</strong></td>
<td>Provides a client-side logical representation of the Windows Azure Table Service. This client is used to configure and execute requests against the Table Service.</td>
</tr>
<tr>
<td><strong>DynamicTableEntity</strong></td>
<td>A property map of the entity. This class eliminates the use of reflection for serialization and deserialization.</td>
</tr>
</tbody>
</table>
## Interfaces

<table>
<thead>
<tr>
<th>Interface</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>ITableEntity</code></td>
<td>An interface required for table entity types. The <code>ITableEntity</code> interface declares getter and setter methods for the mandatory entity properties, and <code>ReadEntity</code> and <code>WriteEntity</code> methods for serialization and de-serialization of all entity properties using a property dictionary. Create classes implementing <code>ITableEntity</code> to customize property storage, retrieval, serialization and de-serialization, and to provide additional custom logic for a table entity.</td>
</tr>
</tbody>
</table>
## Delegates

<table>
<thead>
<tr>
<th>Delegate</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>EntityResolver&lt;T&gt; Of T</code></td>
<td>Returns a delegate for resolving entities.</td>
</tr>
</tbody>
</table>
## Enumerations

<table>
<thead>
<tr>
<th>Enumeration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EdmType</td>
<td>Enumeration containing the types of values that can be stored in a table entity property.</td>
</tr>
<tr>
<td>SharedAccessTablePermissions</td>
<td>Specifies the set of possible permissions for a shared access table policy.</td>
</tr>
<tr>
<td>TableOperationType</td>
<td>Enumeration containing the types of operations that can be performed by TableOperation.</td>
</tr>
<tr>
<td>TablePayloadFormat</td>
<td>Describes the payload formats supported for Tables.</td>
</tr>
</tbody>
</table>
TableContinuationToken Constructor ()()()  

See Also
Namespace:  Microsoft.WindowsAzure.Storage.Table
Syntax

C#
```csharp
public TableContinuationToken()
```

C++
```cpp
public:
TableContinuationToken()
```

F#
```fsharp
new : unit -> TableContinuationToken
```

VB
```vbnet
Public Sub New
```
See Also

TableContinuationToken Class
Microsoft.WindowsAzure.Storage.Table Namespace

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<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TableContinuationToken.NextPartitionKey Property</td>
<td>See Also</td>
</tr>
</tbody>
</table>
Gets or sets the next partition key for ITableEntity enumeration operations.

Namespace:  Microsoft.WindowsAzure.Storage.Table
Syntax

C#

```csharp
public string NextPartitionKey { get; set; }
```

C++

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

F#

```fsharp
member NextPartitionKey : string with get, set
```

VB

```vbnet
Public Property NextPartitionKey As String
```

Property Value

Type: `System.String`<br>`System::String`<br>`System::String`<br>`System.String`<br>`System.String`<br>A string containing the next partition key.
See Also

TableContinuationToken Class
Microsoft.WindowsAzure.Storage.Table Namespace

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<table>
<thead>
<tr>
<th>Interface</th>
<th>C#</th>
<th>C++</th>
<th>F#</th>
<th>VB</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITableEntity</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

See Also
An interface required for table entity types. The **ITableEntity** interface declares getter and setter methods for the mandatory entity properties, and **ReadEntity** and **WriteEntity** methods for serialization and de-serialization of all entity properties using a property dictionary. Create classes implementing **ITableEntity** to customize property storage, retrieval, serialization and de-serialization, and to provide additional custom logic for a table entity.

**Namespace:** Microsoft.WindowsAzure.Storage.Table  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
## Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td>public interface ITableEntity</td>
</tr>
<tr>
<td>C++</td>
<td>public interface class ITableEntity</td>
</tr>
<tr>
<td>F#</td>
<td>type ITableEntity = interface end</td>
</tr>
<tr>
<td>VB</td>
<td>Public Interface ITableEntity</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ETag</strong></td>
<td>Gets or sets the entity's current ETag. Set this value to '*' in order to blindly overwrite an entity as part of an update operation.</td>
</tr>
<tr>
<td><strong>PartitionKey</strong></td>
<td>Gets or sets the entity's partition key.</td>
</tr>
<tr>
<td><strong>RowKey</strong></td>
<td>Gets or sets the entity's row key.</td>
</tr>
<tr>
<td><strong>Timestamp</strong></td>
<td>Gets or sets the entity's timestamp.</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ReadEntity</strong>&lt;br&gt; (IDictionary&lt;String, EntityProperty&gt;, OperationContext)&lt;br&gt; (IDictionary&lt;String^, EntityProperty^&gt;^), OperationContext^)(IDictionary&lt;EntityProperty&gt;, OperationContext)&lt;br&gt; (IDictionary(Of String, EntityProperty), OperationContext)</td>
<td></td>
</tr>
<tr>
<td><strong>WriteEntity</strong>&lt;br&gt; (OperationContext)(OperationContext^)(OperationContext)</td>
<td></td>
</tr>
</tbody>
</table>
Remarks

The storage client library includes two implementations of ITableEntity that provide for simple property access and serialization:

DynamicTableEntity implements ITableEntity and provides a simple property dictionary to store and retrieve properties. Use a DynamicTableEntity for simple access to entity properties when only a subset of properties are returned (for example, by a select clause in a query), or for scenarios where your query can return multiple entity types with different properties. You can also use this type to perform bulk table updates of heterogeneous entities without losing property information.

TableEntity is an implementation of ITableEntity that uses reflection-based serialization and de-serialization behavior in its ReadEntity and WriteEntity methods. TableEntity -derived classes with methods that follow a conventional naming and type convention are serialized and deserialized automatically. TableEntity -derived classes must also provide a get-able and set-able public property of a type that is supported by the Windows Azure Table service.
See Also

Microsoft.WindowsAzure.Storage.Table Namespace

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TableContinuationToken.NextRowKey

Property TableContinuationToken::NextRowKey

Property TableContinuationToken.NextRowKey

See Also
Gets or sets the next row key for ITableEntity enumeration operations.

**Namespace:** Microsoft.WindowsAzure.Storage.Table  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public string NextRowKey { get; set; }

C++  
public:
    property String^ NextRowKey {  
        String^ get();  
        void set(String^ value);  
    }

F#  
member NextRowKey : string with get, set

VB  
Public Property NextRowKey As String

Property Value

Type: System.String
A string containing the next row key.
See Also

TableContinuationToken Class
Microsoft.WindowsAzure.Storage.Table Namespace

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TableContinuationToken::NextTableName Property
See Also
Gets or sets the next table name for `ITableEntity` enumeration operations.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Table](#)

**Assembly:**  [Microsoft.WindowsAzure.Storage](#) (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public string NextTableName { get; set; }

C++  
public:
    property String^ NextTableName { 
        String^ get();
        void set(String^ value);
    }

F#  
member NextTableName : string with get, set

VB  
Public Property NextTableName As String

Property Value

Type: System.String

A string containing the name of the next table.
See Also

TableContinuationToken Class
Microsoft.WindowsAzure.Storage.Table Namespace

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TableContinuationToken::TargetLocation

See Also
Gets or sets the storage location that the continuation token applies to.

**Namespace:** Microsoft.WindowsAzure.Storage.Table  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public Nullable<StorageLocation> TargetLocation {
    get;
    set;
}
```

C++  
```cpp
public:
property Nullable<StorageLocation> TargetLocation {
    virtual Nullable<StorageLocation> get();
    virtual void set(Nullable<StorageLocation> value);
}
```

F#  
```fsharp
abstract TargetLocation : Nullable<StorageLocation>
override TargetLocation : Nullable<StorageLocation>
```

VB  
```vb
Public Property TargetLocation As Nullable(Of StorageLocation)
```

Property Value

Type:  
```csharp
System.Nullable<StorageLocation>
```

A `StorageLocation` enumeration value.

Implements
See Also

TableContinuationToken Class
Microsoft.WindowsAzure.Storage.Table Namespace

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</tr>
</thead>
<tbody>
<tr>
<td>TableContinuationToken.:::GetSchema Method ()</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**See Also**
Gets an XML representation of an object.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Table](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage.table)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public XmlSchema GetSchema()
```

C++  

```cpp
public:
virtual XmlSchema^ GetSchema() sealed
```

F#  

```fsharp
abstract GetSchema : unit -> XmlSchema
override GetSchema : unit -> XmlSchema
```

VB  

```vb
Public Function GetSchema As XmlSchema
```

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.

Implements

- `IXmlSerializable`
See Also

TableContinuationToken Class  
Microsoft.WindowsAzure.Storage.Table Namespace

Return to top
TableContinuationToken::ReadXml Method
(XmlReader)(XmlReader^)(XmlReader)
(XmlReader)

See Also
Generates a serializable continuation token from its XML representation.

**Namespace:**  Microsoft.WindowsAzure.Storage.Table  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public void ReadXml(
    XmlReader reader
)
```

C++  

```cpp
public:
virtual void ReadXml(
    XmlReader^ reader
) sealed
```

F#  

```fsharp
abstract ReadXml :
    reader:XmlReader -> unit
override ReadXml :
    reader:XmlReader -> unit
```

VB  

```vbnet
Public Sub ReadXml (  
    reader As XmlReader  
)
```

Parameters

reader  
Type:  

[System.Xml.XmlReader] [System::Xml::XmlReader]
See Also

TableContinuationToken Class
Microsoft.WindowsAzure.Storage.Table Namespace

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TableContinuationToken..::..WriteXml Method
(XmlWriter)(XmlWriter^)(XmlWriter)(XmlWriter)

See Also
Converts a serializable continuation token into its XML representation.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Table](https://github.com/Azure/azure-storage-dotnet)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

**C#**

```csharp
public void WriteXml(
    XmlWriter writer
)
```

**C++**

```cpp
public:
virtual void WriteXml(
    XmlWriter^ writer
) sealed
```

**F#**

```fsharp
abstract WriteXml :
    writer:XmlWriter -> unit
override WriteXml :
    writer:XmlWriter -> unit
```

**VB**

```vb
Public Sub WriteXml ( 
    writer As XmlWriter
)
```

**Parameters**

**writer**

Type:

```csharp
System.Xml.XmlWriter
```
See Also

TableContinuationToken Class
Microsoft.WindowsAzure.Storage.Table Namespace

Return to top
TableResultSegment Class

See Also
Represents a segment of CloudTable results, with continuation information for pagination scenarios.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Table]

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System::..Object
  Microsoft.WindowsAzure.Storage.Table::..TableResultSegment
Syntax

C#  

```csharp
public sealed class TableResultSegment : IEnumerable<CloudTable>,
    IEnumerable
```

C++  

```cpp
public ref class TableResultSegment sealed : IE
    IEnumerable
```

F#  

```fsharp
[<Sealed>]
type TableResultSegment =
    class
        interface IEnumerable<CloudTable>
        interface IEnumerable
    end
```

VB  

```vb
Public NotInheritable Class TableResultSegment
    Implements IEnumerable(Of CloudTable),
```
# Properties

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ContinuationToken</td>
</tr>
<tr>
<td>ContinuationToken</td>
</tr>
<tr>
<td>ContinuationToken</td>
</tr>
<tr>
<td>ContinuationToken</td>
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<tr>
<td>ContinuationToken</td>
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<tr>
<td>ContinuationToken</td>
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<tr>
<td>Results</td>
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<tr>
<td>Results</td>
</tr>
<tr>
<td>Results</td>
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<tr>
<td>Results</td>
</tr>
</tbody>
</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equals(Object)(Object^)(Object)(Object)</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetEnumerator()</td>
<td>Returns an enumerator that iterates through the segment CloudTable results.</td>
</tr>
<tr>
<td>GetHashCode()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>GetType()</td>
<td>(Inherited from Object.)</td>
</tr>
<tr>
<td>ToString()</td>
<td>(Inherited from Object.)</td>
</tr>
</tbody>
</table>
## Explicit Interface Implementations

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td><code>IEnumerable..::.GetEnumerator()</code></td>
<td></td>
</tr>
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</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.
See Also

Microsoft.WindowsAzure.Storage.Table Namespace

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Microsoft.WindowsAzure.Storage.Queue Namespace
## Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CloudQueue</td>
<td>This class represents a queue in the Windows Azure Queue service.</td>
</tr>
<tr>
<td>CloudQueueClient</td>
<td>Provides a client-side logical representation of the Windows Azure Queue service. This client is used to configure and execute requests against the Queue service.</td>
</tr>
<tr>
<td>CloudQueueMessage</td>
<td>Represents a message in the Windows Azure Queue service.</td>
</tr>
<tr>
<td>QueueContinuationToken</td>
<td>Represents a continuation token returned by the Queue service.</td>
</tr>
</tbody>
</table>
### Enumerations

<table>
<thead>
<tr>
<th>Enumeration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MessageUpdateFields</td>
<td>Enumeration controlling the options for updating queue messages.</td>
</tr>
<tr>
<td>SharedAccessQueuePermissions</td>
<td>Specifies the set of possible permissions for a shared access queue policy.</td>
</tr>
</tbody>
</table>

[Return to top](#)
Syntax

C#

```csharp
public QueueContinuationToken()
```

C++

```cpp
public:
QueueContinuationToken()
```

F#

```fsharp
new : unit -> QueueContinuationToken
```

VB

```vbnet
Public Sub New
```
See Also

QueueContinuationToken Class
Microsoft.WindowsAzure.Storage.Queue Namespace

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QueueContinuationToken.NextMarker

Property

See Also
Gets or sets the next marker for continuing results for **CloudQueue** enumeration operations.

**Namespace:**  Microsoft.WindowsAzure.Storage.Queue  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public string NextMarker { get; set; }
```

C++  
```cpp
public:
property String^ NextMarker {
    String^ get();
    void set(String^ value);
}
```

F#  
```fsharp
member NextMarker : string with get, set
```

VB  
```vbnet
Public Property NextMarker As String
```

**Property Value**

Type: `System.String`  `String^`  `System.String`  `System.String`  
A string containing the NextMarker value.
See Also

QueueContinuationToken Class
Microsoft.WindowsAzure.Storage.Queue Namespace

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<table>
<thead>
<tr>
<th>CloudQueue Class</th>
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<tr>
<td>See Also</td>
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</tbody>
</table>
This class represents a queue in the Windows Azure Queue service.

**Namespace:**  Microsoft.WindowsAzure.Storage.Queue  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Inheritance Hierarchy

System..Object
  Microsoft.WindowsAzure.Storage.Queue..CloudQueue
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C#</strong></td>
<td>public class CloudQueue</td>
</tr>
<tr>
<td><strong>C++</strong></td>
<td>public ref class CloudQueue</td>
</tr>
<tr>
<td><strong>F#</strong></td>
<td>type CloudQueue = class end</td>
</tr>
<tr>
<td><strong>VB</strong></td>
<td>Public Class CloudQueue</td>
</tr>
</tbody>
</table>
## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CloudQueue(StorageUri, StorageCredentials)</strong></td>
<td>Initializes a new instance of the CloudQueue class.</td>
</tr>
<tr>
<td><strong>(StorageUri^, StorageCredentials^)(StorageUri, StorageCredentials)(StorageUri, StorageCredentials)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>CloudQueue(Uri)(Uri)(Uri)</strong></td>
<td>Initializes a new instance of the CloudQueue class.</td>
</tr>
<tr>
<td><strong>CloudQueue(Uri, StorageCredentials)(Uri^, StorageCredentials^)(Uri, StorageCredentials)(Uri, StorageCredentials)</strong></td>
<td>Initializes a new instance of the CloudQueue class.</td>
</tr>
</tbody>
</table>
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>ApproximateMessageCount</th>
<th>ApproximateMessageCount</th>
<th>ApproximateMessageCount</th>
<th>ApproximateMessageCount</th>
</tr>
</thead>
<tbody>
<tr>
<td>EncodeMessage</td>
<td>EncodeMessage</td>
<td>EncodeMessage</td>
<td>EncodeMessage</td>
<td>EncodeMessage</td>
</tr>
<tr>
<td>Metadata</td>
<td>Metadata</td>
<td>Metadata</td>
<td>Metadata</td>
<td>Metadata</td>
</tr>
<tr>
<td>Name</td>
<td>Name</td>
<td>Name</td>
<td>Name</td>
<td>Name</td>
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</table>
## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AddMessageAsync(CloudQueueMessage)(CloudQueueMessage^)(CloudQueueMessage, CancellationToken)</td>
<td></td>
</tr>
<tr>
<td>AddMessageAsync(CloudQueueMessage, CancellationToken)(CloudQueueMessage^, CancellationToken)</td>
<td></td>
</tr>
<tr>
<td>AddMessageAsync(CloudQueueMessage, Nullable&lt;TimeSpan&gt;, Nullable&lt;TimeSpan&gt;, QueueRequestOptions, OperationContext)</td>
<td></td>
</tr>
</tbody>
</table>
Thread Safety

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

Microsoft.WindowsAzure.Storage.Queue Namespace

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<th>Language</th>
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<td>C#</td>
<td><code>QueueContinuationToken.TargetLocation</code></td>
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<td>C++</td>
<td><code>QueueContinuationToken::TargetLocation</code></td>
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<td>F#</td>
<td><code>QueueContinuationToken.TargetLocation</code></td>
</tr>
<tr>
<td>VB</td>
<td><code>QueueContinuationToken.TargetLocation</code></td>
</tr>
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</table>

**See Also**
Gets or sets the storage location that the continuation token applies to.

**Namespace:**  Microsoft.WindowsAzure.Storage.Queue  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public Nullable<StorageLocation> TargetLocation {
    get;
    set;
}

C++  
public:
property Nullable<StorageLocation> TargetLocation{
    virtual Nullable<StorageLocation> get();
    virtual void set(Nullable<StorageLocation> value);
}

F#  
abstract TargetLocation : Nullable<StorageLocation>
override TargetLocation : Nullable<StorageLocation>

VB  
Public Property TargetLocation As Nullable(Of System.Nullable(Of StorageLocation))

Property Value

Type:  
System.Nullable<StorageLocation>  
A StorageLocation enumeration value.

Implements
See Also

QueueContinuationToken Class
Microsoft.WindowsAzure.Storage.Queue Namespace

Return to top
QueueContinuationToken::GetSchema Method ()

See Also
Gets an XML representation of an object.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Queue](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage.queue)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public XmlSchema GetSchema()

C++  
public:
virtual XmlSchema^ GetSchema() sealed

F#  
ablect GetSchema : unit -> XmlSchema
override GetSchema : unit -> XmlSchema

VB  
Public Function GetSchema As XmlSchema

Return Value

Type:  
An XmlSchema that describes the XML representation of the object that is produced by the WriteXml method and consumed by the ReadXml method.

Implements

IXmlSerializable... GetSchema()()()
See Also

QueueContinuationToken Class
Microsoft.WindowsAzure.Storage.Queue Namespace

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QueueContinuationToken...ReadXml Method
(XmlReader)(XmlReader^)(XmlReader)
(XmlReader)

See Also
Generates a serializable continuation token from its XML representation.

Syntax

C#

```csharp
public void ReadXml(
    XmlReader reader
)
```

C++

```cpp
public:
virtual void ReadXml(
    XmlReader^ reader
) sealed
```

F#

```fsharp
abstract ReadXml :
    reader:XmlReader -> unit
override ReadXml :
    reader:XmlReader -> unit
```

VB

```vbnet
Public Sub ReadXml (  
    reader As XmlReader
)
```

Parameters

`reader`

Type:

- `System.Xml.XmlReader`
- `System::Xml::XmlReader`
See Also

QueueContinuationToken Class
Microsoft.WindowsAzure.Storage.Queue Namespace

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<tr>
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<td><code>QueueContinuationToken::WriteXml(XmlWriter)</code></td>
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<tr>
<td>C++</td>
<td><code>QueueContinuationToken::WriteXml(XmlWriter^)</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>QueueContinuationToken.WriteXml(WriteXmlState, XmlWriter)</code></td>
</tr>
<tr>
<td>VB</td>
<td><code>QueueContinuationToken::WriteXml(XmlWriter)</code></td>
</tr>
</tbody>
</table>

See Also
Converts a serializable continuation token into its XML representation.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  

```csharp
public void WriteXml(
    XmlWriter writer
)
```

C++  

```cpp
public:
virtual void WriteXml(
    XmlWriter^ writer
) sealed
```

F#  

```fsharp
abstract WriteXml :
    writer:XmlWriter -> unit

override WriteXml :
    writer:XmlWriter -> unit
```

VB  

```vbnet
Public Sub WriteXml (  
    writer As XmlWriter
)
```

Parameters

*writer*

Type:

```csharp
System.Xml.XmlWriter
```

```cpp
System.Xml::XmlWriter
```

```fsharp
System.Xml.XmlWriter
```
See Also

QueueContinuationToken Class
Microsoft.WindowsAzure.Storage.Queue Namespace

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<th>QueueRequestOptions Constructor</th>
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<tr>
<td>See Also</td>
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</table>
 Initializes a new instance of the `QueueRequestOptions` class.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Queue](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage.queue)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Code</th>
</tr>
</thead>
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<tr>
<td>C#</td>
<td><code>public QueueRequestOptions()</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public: QueueRequestOptions()</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>new : unit -&gt; QueueRequestOptions</code></td>
</tr>
<tr>
<td>VB</td>
<td><code>Public Sub New</code></td>
</tr>
</tbody>
</table>
See Also

QueueRequestOptions Class  
Microsoft.WindowsAzure.Storage.Queue Namespace

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QueueRequestOptions::EncryptionPolicy Property

See Also
Gets or sets the encryption policy for the request.

**Namespace:** Microsoft.WindowsAzure.Storage.Queue  
**Assembly:** Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public QueueEncryptionPolicy EncryptionPolicy {
    get;
    set;
}
```

C++

```cpp
public:
property QueueEncryptionPolicy^ EncryptionPolicy
    QueueEncryptionPolicy^ get();
    void set(QueueEncryptionPolicy^ value);
}
```

F#

```fsharp
member EncryptionPolicy : QueueEncryptionPolicy
```

VB

```vb
Public Property EncryptionPolicy As QueueEncryptionPolicy
```

Property Value

Type:

```csharp
```

An object of type

```csharp
EncryptionPolicy
```

EncryptionPolicy

EncryptionPolicy

EncryptionPolicy

EncryptionPolicy

EncryptionPolicy.
See Also

QueueRequestOptions Class
Microsoft.WindowsAzure.Storage.Queue Namespace

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See Also
Gets or sets the location mode of the request.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Queue](#)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#
```
public Nullable<LocationMode> LocationMode {
    get;
    set;
}
```

C++
```
public:

property Nullable<LocationMode> LocationMode {
    virtual Nullable<LocationMode> get() sealed;
    virtual void set(Nullable<LocationMode> value);
}
```

F#
```
abstract LocationMode : Nullable<LocationMode>
override LocationMode : Nullable<LocationMode>
```

VB
```
Public Property LocationMode As Nullable(Of LocationMode)
```

Property Value

Type: `System.Nullable<LocationMode>`, `System::Nullable<LocationMode>`
A `LocationMode` enumeration value indicating the location mode of the request.

Implements
See Also

QueueRequestOptions Class
Microsoft.WindowsAzure.Storage.Queue Namespace

Return to top
QueueRequestOptions.MaximumExecutionTime

Property QueueRequestOptions::MaximumExecutionTime
Property QueueRequestOptions.MaximumExecutionTime
Property QueueRequestOptions.MaximumExecutionTime

See Also
Gets or sets the maximum execution time across all potential retries for the request.


**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public Nullable<TimeSpan> MaximumExecutionTime {
    get;
    set;
}
```

C++  
```cpp
public:
property Nullable<TimeSpan> MaximumExecutionTime {
    virtual Nullable<TimeSpan> get() sealed;
    virtual void set(Nullable<TimeSpan> value);
}
```

F#  
```fsharp
abstract MaximumExecutionTime : Nullable<TimeSpan>
override MaximumExecutionTime : Nullable<TimeSpan>
```

VB  
```vbnet
Public Property MaximumExecutionTime As Nullable(TimeSpan)
```

Property Value

Type:  
```csharp
System Nullable<TimeSpan>
```

A TimeSpan representing the maximum execution time for retries for the request.

Implements
See Also

QueueRequestOptions Class
Microsoft.WindowsAzure.Storage.Queue Namespace

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<table>
<thead>
<tr>
<th>Property</th>
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<tbody>
<tr>
<td>QueueRequestOptions.RequireEncryption Property</td>
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</tr>
</tbody>
</table>

See Also
Gets or sets a value to indicate whether data written and read by the client library should be encrypted.

**Syntax**

C#  
```csharp
public Nullable<bool> RequireEncryption { get; }
```

C++  
```cpp
public:
property Nullable<bool> RequireEncryption {
    virtual Nullable<bool> get() sealed;
    virtual void set(Nullable<bool> value);
}
```

F#  
```fsharp
abstract RequireEncryption : Nullable<bool> with
override RequireEncryption : Nullable<bool> with
```

VB  
```vbnet
Public Property RequireEncryption As Nullable(Boolean)
```

**Property Value**

Type:  
`System.Nullable<System::Nullable<System::Nullable<Boolean>>>`

Use `true` to specify that data should be encrypted/decrypted for all transactions; otherwise, `false`.

**Implements**

- Implements `IRequestOptions.RequireEncryption`
See Also

QueueRequestOptions Class
Microsoft.WindowsAzure.Storage.Queue Namespace

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</table>

See Also
Gets or sets the retry policy for the request.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Queue](http://www.microsoft.com)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

**C#**

```csharp
public IRetryPolicy RetryPolicy { get; set; }
```

**C++**

```cpp
public:
property IRetryPolicy^ RetryPolicy {
    virtual IRetryPolicy^ get() sealed;
    virtual void set(IRetryPolicy^ value)
}
```

**F#**

```fsharp
abstract RetryPolicy : IRetryPolicy with get, set
override RetryPolicy : IRetryPolicy with get, set
```

**VB**

```vbnet
Public Property RetryPolicy As IRetryPolicy
```

Property Value

Type:

```
```

An object of type `IRetryPolicy`.

Implements
See Also

QueueRequestOptions Class
Microsoft.WindowsAzure.Storage.Queue Namespace
<table>
<thead>
<tr>
<th>Language</th>
<th>QueueRequestOptions::ServerTimeout Property</th>
</tr>
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<td>C++</td>
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<td>F#</td>
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<tr>
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</table>

See Also
Gets or sets the server timeout interval for the request.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Queue](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage.queue)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public Nullable<TimeSpan> ServerTimeout { get; set; }
```

C++
```cpp
public:
property Nullable<TimeSpan> ServerTimeout {
    virtual Nullable<TimeSpan> get() sealed;
    virtual void set(Nullable<TimeSpan> value);
}
```

F#
```fsharp
abstract ServerTimeout : Nullable<TimeSpan> with override ServerTimeout : Nullable<TimeSpan> with
```

VB
```vb
Public Property ServerTimeout As Nullable(Of TimeSpan)
```

Property Value

Type:
`System.Nullable<TimeSpan>`

A `TimeSpan` containing the server timeout interval for the request.

Implements
See Also

QueueRequestOptions Class
Microsoft.WindowsAzure.Storage.Queue Namespace

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<tr>
<th>TableRequestOptions Constructor</th>
<th>C#</th>
<th>C++</th>
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<td>See Also</td>
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</table>
Initializes a new instance of the `TableRequestOptions` class.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Table](http://aka.ms/StorageTable)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

C#  
```csharp
public TableRequestOptions()
```

C++  
```cpp
public:
TableRequestOptions()
```

F#  
```fsharp
new : unit -> TableRequestOptions
```

VB  
```vbnet
Public Sub New
```
See Also

TableRequestOptions Overload
TableRequestOptions Class
Microsoft.WindowsAzure.Storage.Table Namespace

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<th>TableRequestOptions Constructor</th>
</tr>
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<tbody>
<tr>
<td>(TableRequestOptions)</td>
</tr>
<tr>
<td>(TableRequestOptions^)</td>
</tr>
<tr>
<td>(TableRequestOptions)(TableRequestOptions)</td>
</tr>
</tbody>
</table>

See Also
Initializes a new instance of the `TableRequestOptions` class with the specified `TableRequestOptions`.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Table](https://docs.microsoft.com/)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  Copy Code
public TableRequestOptions(
    TableRequestOptions other
)

C++ Copy Code
public:
TableRequestOptions(
    TableRequestOptions& other
)

F# Copy Code
new : 
    other:TableRequestOptions -> TableRequestOptions

VB Copy Code
Public Sub New ( 
    other As TableRequestOptions
)

Parameters

other
Type: 
Microsoft.WindowsAzure.Storage.Table.TableRequestOptions
The TableRequestOptions object used to initialize a new instance of the TableRequestOptions class.
See Also

TableRequestOptions _Overload
TableRequestOptions Class
Microsoft.WindowsAzure.Storage.Table Namespace

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See Also
Gets or sets the encryption policy for the request.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Table](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public TableEncryptionPolicy EncryptionPolicy {
    get;
    set;
}
```

C++
```cpp
public:
    property TableEncryptionPolicy^ EncryptionPolicy
    {
        TableEncryptionPolicy^ get();
        void set(TableEncryptionPolicy^ value);
    }
```

F#
```fsharp
member EncryptionPolicy : TableEncryptionPolicy
```

VB  
```vbnet
Public Property EncryptionPolicy As TableEncryptionPolicy
```

Property Value

Type:  
```csharp
Microsoft.WindowsAzure.Storage.Table.TableEncryptionPolicy
```

An object of type  
```csharp
EncryptionPolicy
```

...
See Also

TableRequestOptions Class
Microsoft.WindowsAzure.Storage.Table Namespace

Return to top
See Also
Gets or sets the delegate to get the value indicating whether or not a property should be encrypted, given the partition key, row key, and property name.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Table](http://Microsoft.WindowsAzure.Storage.Table)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```
public Func<string, string, string, bool> EncryptionResolver {
    get;
    set;
}
```

C++
```
public:

property Func<String^, String^, String^, bool>^ EncryptionResolver {
    Func<String^, String^, String^, bool>^ get();
    void set(Func<String^, String^, String^, String^, bool>^);
}
```

F#
```
member EncryptionResolver : Func<string, string, string, bool>
```

VB
```
Public Property EncryptionResolver As Func(Of String, String, String, Boolean)
```

Property Value

Type:
```
System.Func<String, String, String, Boolean>System::Func<String^, String^, String^, Boolean^>
```
See Also

TableRequestOptions Class
Microsoft.WindowsAzure.Storage.Table Namespace

Return to top
TableRequestOptions.LocationMode

Property

TableRequestOptions::LocationMode

Property

TableRequestOptions.LocationMode Property

See Also
Gets or sets the location mode of the request.

**Namespace:**  Microsoft.WindowsAzure.Storage.Table  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public Nullable<LocationMode> LocationMode { get; set; }

C++  
public:
property Nullable<LocationMode> LocationMode { 
    virtual Nullable<LocationMode> get() sealed 
    virtual void set(Nullable<LocationMode> value) 
}

F#  
abstract LocationMode : Nullable<LocationMode>
override LocationMode : Nullable<LocationMode>

VB  
Public Property LocationMode As Nullable(Of LocationMode)

Property Value

Type:
System.Nullable<LocationMode> System::Nullable<LocationMode> System::Nullable<LocationMode>
A LocationMode enumeration value indicating the location mode of the request.

Implements
See Also

TableRequestOptions Class
Microsoft.WindowsAzure.Storage.Table Namespace

Return to top
See Also
Gets or sets the maximum execution time for all potential retries for the request.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Table](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage.table)  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

**C#**
```
public Nullable<TimeSpan> MaximumExecutionTime {
    get;
    set;
}
```

**C++**
```
public:
    Nullable<TimeSpan> MaximumExecutionTime {
        virtual Nullable<TimeSpan> get() sealed;
        virtual void set(Nullable<TimeSpan> value);
    }
```

**F#**
```
abstract MaximumExecutionTime : Nullable<TimeSpan>
override MaximumExecutionTime : Nullable<TimeSpan>
```

**VB**
```
Public Property MaximumExecutionTime As Nullable(TimeSpan)
```

### Property Value

Type: `System.Nullable<TimeSpan>`

A `TimeSpan` representing the maximum execution time for retries for the request.

### Implements
See Also

TableRequestOptions Class
Microsoft.WindowsAzure.Storage.Table Namespace

Return to top
TableRequestOptions::PayloadFormat Property

See Also
Gets or sets the TablePayloadFormat that will be used for the request.

Namespace:  Microsoft.WindowsAzure.Storage.Table
Syntax

C#

```csharp
public Nullable<TablePayloadFormat> PayloadFormat {
    get;
    set;
}
```

C++

```cpp
public:
    property Nullable<TablePayloadFormat> PayloadFormat {
        Nullable<TablePayloadFormat> get();
        void set(Nullable<TablePayloadFormat> value);
    }
```

F#

```fsharp
member PayloadFormat : Nullable<TablePayloadFormat>
```

VB

```vbnet
Public Property PayloadFormat As Nullable(Of TablePayloadFormat)
```

Property Value

Type:

- `System.Nullable(Of TablePayloadFormat)`

A `TablePayloadFormat` enumeration value.
See Also

TableRequestOptions Class
Microsoft.WindowsAzure.Storage.Table Namespace

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<tr>
<th>TablePayloadFormat Enumeration</th>
</tr>
</thead>
</table>

See Also
Describes the payload formats supported for Tables.

Namespace:  Microsoft.WindowsAzure.Storage.Table
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public enum TablePayloadFormat</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public enum class TablePayloadFormat</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>type TablePayloadFormat</code></td>
</tr>
<tr>
<td>VB</td>
<td><code>Public Enumeration TablePayloadFormat</code></td>
</tr>
</tbody>
</table>
## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Json</td>
<td>Use JSON with minimal metadata.</td>
</tr>
<tr>
<td>JsonFullMetadata</td>
<td>Use JSON with full metadata.</td>
</tr>
<tr>
<td>JsonNoMetadata</td>
<td>Use JSON with no metadata.</td>
</tr>
</tbody>
</table>
See Also

Microsoft.WindowsAzure.Storage.Table Namespace

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TableRequestOptions.ProjectSystemProperties

Property TableRequestOptions::ProjectSystemProperties

Property TableRequestOptions.ProjectSystemProperties

See Also
Gets or sets the option to include system properties such as Partition Key and Row Key in queries.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Table](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage.table)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
public Nullable<bool> ProjectSystemProperties {
}

C++  
public:
    property Nullable<bool> ProjectSystemProperties {
        Nullable<bool> get();
        void set(Nullable<bool> value);
    }

F#  
member ProjectSystemProperties : Nullable<bool>

VB  
Public Property ProjectSystemProperties As Nullable<bool>

Property Value

Type:  
System.Nullable<Boole|System::Nullable<Boole|System Nullable<F
See Also

TableRequestOptions Class
Microsoft.WindowsAzure.Storage.Table Namespace

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See Also
Gets or sets the delegate that is used to get the **EdmType** for an entity property given the partition key, row key, and the property name.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Table](#)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  public Func<string, string, string, string, string, EdmType>
    PropertyResolver {
      get;
      set;
    }

C++  public:
    property Func<String^, String^, String^, String^, String^, EdmType>^ 
          PropertyResolver {
            Func<String^, String^, String^, String^, String^, EdmType>^ 
                get();
            void set(Func<String^, String^, String^, String^, String^, EdmType>^ 
                        value); 
          }

F#  member PropertyResolver : Func<string, string, 

VB  Public Property PropertyResolver As Func(Of Str
See Also

TableRequestOptions Class
Microsoft.WindowsAzure.Storage.Table Namespace

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<table>
<thead>
<tr>
<th>EdmType Enumeration</th>
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<td>See Also</td>
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</tbody>
</table>
Enumeration containing the types of values that can be stored in a table entity property.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Table](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage.table)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
### Syntax

<table>
<thead>
<tr>
<th>Language</th>
<th>Syntax</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td><code>public enum EdmType</code></td>
</tr>
<tr>
<td>C++</td>
<td><code>public enum class EdmType</code></td>
</tr>
<tr>
<td>F#</td>
<td><code>type EdmType</code></td>
</tr>
<tr>
<td>VB</td>
<td><code>Public Enumeration EdmType</code></td>
</tr>
<tr>
<td>Member Name</td>
<td>Description</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Binary</td>
<td>Represents fixed- or variable-length binary data.</td>
</tr>
<tr>
<td>Boolean</td>
<td>Represents the mathematical concept of binary-valued logic.</td>
</tr>
<tr>
<td>DateTime</td>
<td>Represents date and time.</td>
</tr>
<tr>
<td>Double</td>
<td>Represents a floating point number with 15 digits precision that can represent values with approximate range of +/- 2.23e-308 through +/- 1.79e+308.</td>
</tr>
<tr>
<td>Guid</td>
<td>Represents a 16-byte (128-bit) unique identifier value.</td>
</tr>
</tbody>
</table>
See Also

Microsoft.WindowsAzure.Storage.Table Namespace

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<tr>
<th>Language</th>
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<td>C++</td>
</tr>
<tr>
<td>F#</td>
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<tr>
<td>VB</td>
</tr>
</tbody>
</table>

**TableRequestOptions.RequireEncryption Property**

See Also
Gets or sets a value to indicate whether data written and read by the client library should be encrypted.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Table](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage.table)
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#

```csharp
public Nullable<bool> RequireEncryption { get; }
```

C++

```cpp
public:
property Nullable<bool> RequireEncryption {
    virtual Nullable<bool> get() sealed;
    virtual void set(Nullable<bool> value)
}
```

F#

```fsharp
abstract RequireEncryption : Nullable<bool> with
override RequireEncryption : Nullable<bool> with
```

VB

```vbnet
Public Property RequireEncryption As Nullable(Boolean)
```

Property Value

Type:

- `System.Nullable<Boolean>`
- `System::Nullable<Bool>`
- `System.Nullable<false>`

Use `true` to specify that data should be encrypted/decrypted for all transactions; otherwise, `false`.

Implements

- `IRequestOptions.RequireEncryption`
See Also

TableRequestOptions Class
Microsoft.WindowsAzure.Storage.Table Namespace

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TableRequestOptions.RetryPolicy

See Also
Gets or sets the retry policy for the request.

**Namespace:**  [Microsoft.WindowsAzure.Storage.Table](https://docs.microsoft.com/en-us/dotnet/api/microsoft.windowsazure.storage.table)

**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
Syntax

C#  
```csharp
public IRetryPolicy RetryPolicy { get; set; }
```

C++  
```cpp
public:
property IRetryPolicy^ RetryPolicy {
    virtual IRetryPolicy^ get() sealed;
    virtual void set(IRetryPolicy^ value)
}
```

F#  
```fsharp
abstract RetryPolicy : IRetryPolicy with get, set
override RetryPolicy : IRetryPolicy with get, set,
```

VB  
```vbnet
Public Property RetryPolicy As IRetryPolicy
```

Property Value

Type:  
An object of type `IRetryPolicy`.

Implements
See Also

TableRequestOptions Class
Microsoft.WindowsAzure.Storage.Table Namespace

Return to top
See Also
Gets or sets the server timeout interval for the request.

**Namespace:**  Microsoft.WindowsAzure.Storage.Table  
**Assembly:**  Microsoft.WindowsAzure.Storage (in Microsoft.WindowsAzure.Storage.dll)
**Syntax**

C#  
```csharp
public Nullable<TimeSpan> ServerTimeout { get; set; }
```

C++  
```cpp
public:
    Nullable<TimeSpan> ServerTimeout {
        virtual Nullable<TimeSpan> get() sealed;
        virtual void set(Nullable<TimeSpan> value);
    }
```

F#  
```fsharp
abstract ServerTimeout : Nullable<TimeSpan> with
override ServerTimeout : Nullable<TimeSpan> with
```

VB  
```vbnet
Public Property ServerTimeout As Nullable(Of TimeSpan)
```

**Property Value**

Type:

System.Nullable<TimeSpan>

A TimeSpan containing the server timeout interval for the request.

**Implements**
See Also

TableRequestOptions Class
Microsoft.WindowsAzure.Storage.Table Namespace

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<tr>
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<th>Description</th>
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</thead>
<tbody>
<tr>
<td>StorageCredentials()</td>
<td>Initializes a new instance of the <code>StorageCredentials</code> class.</td>
</tr>
<tr>
<td>StorageCredentials(String)(String^)(String)(String)</td>
<td>Initializes a new instance of the <code>StorageCredentials</code> class with the specified shared access signature token.</td>
</tr>
<tr>
<td>StorageCredentials(String, Byte[])(String^, array&lt;Byte&gt;^)(String, Byte[])</td>
<td>Initializes a new instance of the <code>StorageCredentials</code> class with the specified account name and key value.</td>
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See Also

StorageCredentials Class
Microsoft.WindowsAzure.Storage.Auth Namespace

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<th>VB</th>
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</thead>
</table>

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<th>equals</th>
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<tbody>
<tr>
<td></td>
<td>Equals(Object)(Object^)(Object)(Object)</td>
</tr>
<tr>
<td></td>
<td>Equals(StorageCredentials)(StorageCredentials^)(StorageCredentials)(StorageCredentials)</td>
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- StorageCredentials Class

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<table>
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<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TransformUri(StorageUri)(StorageUri^)(StorageUri)(StorageUri)</td>
<td>Transforms a resource URI into a shared access signature URI by appending a shared access token.</td>
</tr>
<tr>
<td>TransformUri(Uri)(Uri^)(Uri)(Uri)</td>
<td>Transforms a resource URI into a shared access signature URI by appending a shared access token.</td>
</tr>
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See Also

StorageCredentials Class
Microsoft.WindowsAzure.Storage.Auth Namespace

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<th>StorageCredentials:::UpdateKey Method</th>
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<tbody>
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</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UpdateKey(Byte[])</td>
<td>Updates the key value for the credentials.</td>
</tr>
<tr>
<td>UpdateKey(Byte[], String)</td>
<td>Updates the key value and key name for the credentials.</td>
</tr>
<tr>
<td>UpdateKey(String)</td>
<td>Updates the key value for the credentials.</td>
</tr>
<tr>
<td>UpdateKey(String, String)</td>
<td>Updates the key value and key name for the credentials.</td>
</tr>
</tbody>
</table>
See Also

StorageCredentials Class
Microsoft.WindowsAzure.Storage.Auth Namespace

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