



Windows PowerShell Get-Help on Cmdlet 'Get-AzStorageBlob'

PS:\>Get-HELP Get-AzStorageBlob -Full

NAME

Get-AzStorageBlob

SYNOPSIS

Lists blobs in a container.

SYNTAX

```
Get-AzStorageBlob [[-Blob] <System.String>] [-Container] <System.String> [-ClientTimeoutPerRequest
<System.Nullable`1[System.Int32]>] [-ConcurrentTaskCount
<System.Nullable`1[System.Int32]>] [-Context
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.IStorageContext>] [-ContinuationToken
<Microsoft.Azure.Storage.Blob.BlobContinuationToken>] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-IncludeDeleted] [-IncludeTag] [-MaxCount <System.Nullable`1[System.Int32]>] [-ServerTimeoutPerRequest
<System.Nullable`1[System.Int32]>] [-TagCondition
<System.String>] [<CommonParameters>]
```

```
Get-AzStorageBlob [-Blob] <System.String> [-Container] <System.String> [-ClientTimeoutPerRequest
<System.Nullable`1[System.Int32]>] [-ConcurrentTaskCount
```

```

                                <System.Nullable`1[System.Int32]>]                                [-Context
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.IStorageContext>] [-ContinuationToken
                                <Microsoft.Azure.Storage.Blob.BlobContinuationToken>]                                [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
                                [-IncludeDeleted] [-IncludeTag] [-MaxCount <System.Nullable`1[System.Int32]>] [-ServerTimeoutPerRequest
<System.Nullable`1[System.Int32]>] -SnapshotTime
                                <System.Nullable`1[System.DateTimeOffset]>] [-TagCondition <System.String>] [<CommonParameters>]

                                Get-AzStorageBlob [-Blob] <System.String> [-Container] <System.String> [-ClientTimeoutPerRequest
<System.Nullable`1[System.Int32]>] [-ConcurrentTaskCount
                                <System.Nullable`1[System.Int32]>]                                [-Context
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.IStorageContext>] [-ContinuationToken
                                <Microsoft.Azure.Storage.Blob.BlobContinuationToken>]                                [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
                                [-IncludeDeleted] [-IncludeTag] [-MaxCount <System.Nullable`1[System.Int32]>] [-ServerTimeoutPerRequest
<System.Nullable`1[System.Int32]>] [-TagCondition
                                <System.String>] -VersionId <System.String> [<CommonParameters>]

                                Get-AzStorageBlob [-Container] <System.String> [-ClientTimeoutPerRequest <System.Nullable`1[System.Int32]>]
[-ConcurrentTaskCount <System.Nullable`1[System.Int32]>]
                                [-Context <Microsoft.Azure.Commands.Common.Authentication.Abstractions.IStorageContext>] [-ContinuationToken
<Microsoft.Azure.Storage.Blob.BlobContinuationToken>]
                                [-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-IncludeDeleted] [-IncludeTag] [-IncludeVersion]
                                [-MaxCount <System.Nullable`1[System.Int32]>] [-Prefix <System.String>] [-ServerTimeoutPerRequest
<System.Nullable`1[System.Int32]>] [<CommonParameters>]

```

DESCRIPTION

The Get-AzStorageBlob cmdlet lists blobs in the specified container in an Azure storage account.

-Blob <System.String>

Specifies a name or name pattern, which can be used for a wildcard search. If no blob name is specified, the cmdlet lists all the blobs in the specified

container. If a value is specified for this parameter, the cmdlet lists all blobs with names that match this parameter. This parameter supports wildcards anywhere in the string.

Required?	false
Position?	0
Default value	None
Accept pipeline input?	False
Accept wildcard characters?	true

-ClientTimeoutPerRequest <System.Nullable`1[System.Int32]>

Specifies the client-side time-out interval, in seconds, for one service request. If the previous call fails in the specified interval, this cmdlet retries the

request. If this cmdlet does not receive a successful response before the interval elapses, this cmdlet returns an error.

Required?	false
Position?	named
Default value	None
Accept pipeline input?	False
Accept wildcard characters?	false

-ConcurrentTaskCount <System.Nullable`1[System.Int32]>

Specifies the maximum concurrent network calls. You can use this parameter to limit the concurrency to throttle local CPU and bandwidth usage by specifying the

maximum number of concurrent network calls. The specified value is an absolute count and is not multiplied by the core count. This parameter can help reduce

network connection problems in low bandwidth environments, such as 100 kilobits per second. The default value is 10.

Required?	false
Position?	named

Default value None
Accept pipeline input? False
Accept wildcard characters? false

-Container <System.String>

Specifies the name of the container.

Required? true
Position? 1
Default value None
Accept pipeline input? True (ByPropertyName)
Accept wildcard characters? false

-Context <Microsoft.Azure.Commands.Common.Authentication.Abstractions.IStorageContext>

Specifies the Azure storage account from which you want to get a list of blobs. You can use the New-AzStorageContext cmdlet to create a storage context.

Required? false
Position? named
Default value None
Accept pipeline input? True (ByPropertyName, ByValue)
Accept wildcard characters? false

-ContinuationToken <Microsoft.Azure.Storage.Blob.BlobContinuationToken>

Specifies a continuation token for the blob list. Use this parameter and the MaxCount parameter to list blobs in multiple batches.

Required? false
Position? named
Default value None
Accept pipeline input? False
Accept wildcard characters? false

-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>

The credentials, account, tenant, and subscription used for communication with Azure.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-IncludeDeleted <System.Management.Automation.SwitchParameter>

Include Deleted Blob, by default get blob won't include deleted blob.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-IncludeTag <System.Management.Automation.SwitchParameter>

Include blob tags, by default get blob won't include blob tags.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-IncludeVersion <System.Management.Automation.SwitchParameter>

Blob versions will be listed only if this parameter is present, by default get blob won't include blob versions.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-MaxCount <System.Nullable`1[System.Int32]>

Specifies the maximum number of objects that this cmdlet returns.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Prefix <System.String>

Specifies a prefix for the blob names that you want to get. This parameter does not support using regular expressions or wildcard characters to search. This means

that if the container has only blobs named "My", "MyBlob1", and "MyBlob2" and you specify "-Prefix My*", the cmdlet returns no blobs. However, if you specify

"-Prefix My", the cmdlet returns "My", "MyBlob1", and "MyBlob2".

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-ServerTimeoutPerRequest <System.Nullable`1[System.Int32]>

Specifies the service side time-out interval, in seconds, for a request. If the specified interval elapses before the service processes the request, the storage

service returns an error.

Required? false

Position? named

Default value None

Accept pipeline input? False
Accept wildcard characters? false

-SnapshotTime <System.Nullable`1[System.DateTimeOffset]>

Blob SnapshotTime

Required? true
Position? named
Default value None
Accept pipeline input? False
Accept wildcard characters? false

-TagCondition <System.String>

Optional Tag expression statement to check match condition. The blob request will fail when the blob tags does not match the given expression. See details in

<https://learn.microsoft.com/en-us/rest/api/storageservices/specifying-conditional-headers-for-blob-service-operations#tags-conditional-operations>.

Required? false
Position? named
Default value None
Accept pipeline input? False
Accept wildcard characters? false

-VersionId <System.String>

Blob VersionId

Required? true
Position? named
Default value None
Accept pipeline input? False
Accept wildcard characters? false

<CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, see [about_CommonParameters \(https://go.microsoft.com/fwlink/?LinkID=113216\)](https://go.microsoft.com/fwlink/?LinkID=113216).

INPUTS

System.String

Microsoft.Azure.Commands.Common.Authentication.Abstractions.IStorageContext

OUTPUTS

Microsoft.WindowsAzure.Commands.Common.Storage.ResourceModel.AzureStorageBlob

NOTES

----- Example 1: Get a blob by blob name -----

Get-AzStorageBlob -Container "ContainerName" -Blob blob*

This command uses a blob name and wildcard to get a blob.

-- Example 2: Get blobs in a container by using the pipeline --

Get-AzStorageContainer -Name container* | Get-AzStorageBlob -IncludeDeleted

Container Uri: https://storageaccountname.blob.core.windows.net/container1

Name	BlobType	Length	ContentType	LastModified	AccessTier	SnapshotTime
IsDeleted						
test1	BlockBlob	403116	application/octet-stream	2017-11-08 07:53:19Z		2017-11-08 08:19:32Z
test1	BlockBlob	403116	application/octet-stream	2017-11-08 09:00:29Z		True
test2	BlockBlob	403116	application/octet-stream	2017-11-08 07:53:00Z		False

This command uses the pipeline to get all blobs (include blobs in Deleted status) in a container.

----- Example 3: Get blobs by name prefix -----

Get-AzStorageBlob -Container "ContainerName" -Prefix "blob"

This command uses a name prefix to get blobs.

----- Example 4: List blobs in multiple batches -----

\$MaxReturn = 10000

\$ContainerName = "abc"

\$Total = 0

\$Token = \$Null

do

{

\$Blobs = Get-AzStorageBlob -Container \$ContainerName -MaxCount \$MaxReturn -ContinuationToken \$Token

\$Total += \$Blobs.Count

```

if($Blobs.Length -le 0) { Break;}

$Token = $Blobs[$blobs.Count -1].ContinuationToken;

}

While ($null -ne $Token)

Echo "Total $Total blobs in container $ContainerName"

```

This example uses the MaxCount and ContinuationToken parameters to list Azure Storage blobs in multiple batches. The first four commands assign values to variables to use in the example. The fifth command specifies a Do-While statement that uses the Get-AzStorageBlob cmdlet to get blobs. The statement includes the continuation token stored in the \$Token variable. \$Token changes value as the loop runs. For more information, type `Get-Help About\_Do`. The final command uses the Echo command to display the total.

- Example 5: Get all blobs in a container include blob version -

```
Get-AzStorageBlob -Container "containername" -IncludeVersion
```

```
AccountName: storageaccountname, ContainerName: containername
```

Name	BlobType	Length	ContentType	LastModified	AccessTier	SnapshotTime
IsDeleted	VersionId					
----	-----	-----	-----	-----	-----	-----
blob1	BlockBlob	2097152	application/octet-stream	2020-07-06 06:56:06Z	Hot	
False	2020-07-06T06:56:06.2432658Z					
blob1	BlockBlob	2097152	application/octet-stream	2020-07-06 06:56:06Z	Hot	
2020-07-06T06:56:06.8588431Z	False					

False

2020-07-06T06:56:06.8598431Z *

blob2	BlockBlob	2097152	application/octet-stream	2020-07-03 16:19:16Z	Hot
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False

2020-07-03T16:19:16.2883167Z

blob2	BlockBlob	2097152	application/octet-stream	2020-07-03 16:19:35Z	Hot
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False

2020-07-03T16:19:35.2381110Z *

This command gets all blobs in a container include blob version.

----- Example 6: Get a single blob version -----

Get-AzStorageBlob -Container "containername" -Blob blob2 -VersionId "2020-07-03T16:19:16.2883167Z"

AccountName: storageaccountname, ContainerName: containername

Name	BlobType	Length	ContentType	LastModified	AccessTier	SnapshotTime
IsDeleted	VersionId					

blob2	BlockBlob	2097152	application/octet-stream	2020-07-03 16:19:16Z	Hot
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False

2020-07-03T16:19:16.2883167Z

This command gets a single blobs verion with VersionId.

----- Example 7: Get a single blob snapshot -----

Get-AzStorageBlob -Container "containername" -Blob blob1 -SnapshotTime "2020-07-06T06:56:06.8588431Z" Page 11/14

AccountName: storageaccountname, ContainerName: containername

Name	BlobType	Length	ContentType	LastModified	AccessTier	SnapshotTime
IsDeleted	VersionId					
----	-----	-----	-----	-----	-----	-----
blob1	BlockBlob	2097152	application/octet-stream	2020-07-06 06:56:06Z	Hot	
2020-07-06T06:56:06.8588431Z	False					

This command gets a single blobs snapshot with SnapshotTime.

----- Example 8: Get blob include blob tags -----

\$blobs = Get-AzStorageBlob -Container "containername" -IncludeTag

\$blobs

AccountName: storageaccountname, ContainerName: containername

Name	BlobType	Length	ContentType	LastModified	AccessTier	SnapshotTime
IsDeleted	VersionId					
----	-----	-----	-----	-----	-----	-----
testblob	BlockBlob	2097152	application/octet-stream	2020-07-23 09:35:02Z	Hot	
False						
2020-07-23T09:35:02.8527357Z	*					
testblob2	BlockBlob	2097152	application/octet-stream	2020-07-23 09:35:04Z	Hot	
False						
2020-07-23T09:35:04.0856187Z	*					

\$blobs[0].Tags

Name	Value
----	-----
tag1	value1
tag2	value2

This command lists blobs from a container with blob tags, and show the tags of the first blob.

----- Example 9: Get a single blob with blob tag condition -----

Get-AzStorageBlob -Container "containername" -Blob testblob -TagCondition ""tag1""='value1'"

AccountName: storageaccountname, ContainerName: containername

Name	BlobType	Length	ContentType	LastModified	AccessTier	SnapshotTime
IsDeleted	VersionId					
----	-----	-----	-----	-----	-----	-----
testblob	BlockBlob	2097152	application/octet-stream	2020-07-23 09:35:02Z	Hot	
False						
2020-07-23T09:35:02.8527357Z	*					

This command gets a single blob with blob tag condition. The cmdlet will only success when the blob contains a tag with name "tag1" and value "value1", else the cmdlet will fail with error code 412.

Online Version: <https://learn.microsoft.com/powershell/module/az.storage/get-azstorageblob>

Get-AzStorageBlobContent

Remove-AzStorageBlob

Set-AzStorageBlobContent