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

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

NAME

Get-Volume

SYNOPSIS

Gets the specified Volume object, or all Volume objects if no filter is provided.

SYNTAX

Get-Volume [-AsJob] [-CimSession <CimSession[]>] [-DiskImage <CimInstance>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-Volume [[-DriveLetter] <Char[]>] [-AsJob] [-CimSession <CimSession[]>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-Volume [-AsJob] [-CimSession <CimSession[]>] [-FilePath <String>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-Volume [-AsJob] [-CimSession <CimSession[]>] [-FileShare <CimInstance>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-Volume [-AsJob] [-CimSession <CimSession[]>] [-FileSystemLabel <String[]>] [-ThrottleLimit <Int32>]

[<CommonParameters>]

Get-Volume [-AsJob] [-CimSession <CimSession[]>] [-ObjectId <String[]>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-Volume [-AsJob] [-CimSession <CimSession[]>] [-Partition <CimInstance>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-Volume [-AsJob] [-CimSession <CimSession[]>] [-Path <String[]>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-Volume [-AsJob] [-CimSession <CimSession[]>] [-StorageFileServer <CimInstance>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-Volume [-AsJob] [-CimSession <CimSession[]>] [-StorageJob <CimInstance>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-Volume [-AsJob] [-CimSession <CimSession[]>] [-StorageNode <CimInstance>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-Volume [-AsJob] [-CimSession <CimSession[]>] [-StoragePool <CimInstance>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-Volume [-AsJob] [-CimSession <CimSession[]>] [-StorageSubSystem <CimInstance>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-Volume [-AsJob] [-CimSession <CimSession[]>] [-ThrottleLimit <Int32>] [-UniqueId <String[]>] [<CommonParameters>]

DESCRIPTION

The Get-Volume cmdlet will return a Volume object or a set of Volume objects that match the specified criteria.

Note: Dynamic volumes are supported only by the following cmdlets: Repair-Volume (chkdsk), Optimize-Volume (defrag),

and Format-Volume (format) on basic disks and

storage spaces.

PARAMETERS

-AsJob [<SwitchParameter>]

Runs the cmdlet as a background job. Use this parameter to run commands that take a long time to complete.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-CimSession <CimSession[]>

Runs the cmdlet in a remote session or on a remote computer. Enter a computer name or a session object, such as the output of a New-CimSession

(https://go.microsoft.com/fwlink/p/?LinkId=227967) or [Get-CimSession](https://go.microsoft.com/fwlink/p/?LinkId=227966)cmdlet. The default is the current session

on the local computer.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-DiskImage <CimInstance>

Gets the volume associated with the specified DiskImage object. Enter a DiskImage CIM object, which is returned by the Get-DiskImage cmdlet.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-DriveLetter <Char[]>

Gets the volume(s) with the specified drive letter(s). Separate multiple drive letters with commas.x

Required? false

Position? 0

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-FilePath <String>

Specifies the full path of a file. The cmdlet gets the volume for the file path that you specify.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-FileShare <CimInstance>

Specifies file shares associated with the volumes to get. To obtain a FileShare object, use the Get-FileShare cmdlet.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-FileSystemLabel <String[]>

Gets the volume with the specified label.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-ObjectId <String[]>

Gets the volume with the specified ObjectID.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Partition <CimInstance>

Gets the volume associated with the specified Partition object. Enter a Partition CIM object, which is returned by the Get-Partition cmdlet.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-Path <String[]>

Gets the volume with the specified path.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-StorageFileServer <CimInstance>

Specifies a storage file server which hosts volumes to get. To obtain a StorageFileServer , use the Get-StorageFileServer cmdlet.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-StorageJob <CimInstance>

Specifies a storage job associated with volumes to get. To obtain a StorageJob object, use the Get-StorageJob cmdlet.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-StorageNode <CimInstance>

Specifies a storage node object that hosts volumes to get. To obtain a StorageNode object, use the Get-StorageNode cmdlet.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-StoragePool <CimInstance>

Specifies a storage pool that contains volumes to get. To obtain StoragePool objects, use the Get-StoragePool cmdlet.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-StorageSubSystem <CimInstance>

Specifies the storage subsystem object from which to retrieve volumes. To obtain StorageSubsystem object, the Get-StorageSubSystem cmdlet.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-ThrottleLimit <Int32>

Specifies the maximum number of concurrent operations that can be established to run the cmdlet. If this parameter is omitted or a value of `0` is entered, then

Windows PowerShellr calculates an optimum throttle limit for the cmdlet based on the number of CIM cmdlets that are running on the computer. The throttle limit

applies only to the current cmdlet, not to the session or to the computer.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-UniqueId <String[]>

Specifies the ID of the volume to get.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

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).

INPUTS

Microsoft.Management.Infrastructure.CimInstance#ROOT/Microsoft/Windows/Storage/MSFT_DiskImage

You can use the pipeline operator to pass a DiskImage object to the DiskImage parameter.

Microsoft.Management.Infrastructure.CimInstance#ROOT/Microsoft/Windows/Storage/MSFT_Partition

You can use the pipeline operator to pass a Partition object to the Partition parameter.

Microsoft.Management.Infrastructure.CimInstance#ROOT/Microsoft/Windows/Storage/MSFT_Volume

You can use the pipeline operator to pass a Volume object to the ObjectId parameter.

OUTPUTS

Microsoft.Management.Infrastructure.CimInstance#ROOT/Microsoft/Windows/Storage/MSFT_Volume

This cmdlet returns one or more objects that represent the specified volume(s).

NOTES

* When used in Failover Cluster, cmdlets from the Storage module operate on cluster level (all servers in the cluster).

---------- Example 1: Get all volumes ----------

PS C:\>Get-Volume

This example returns all volumes on all partitions, on all disks.

--- Example 2: Get the volume for a particular drive letter ---

PS C:\>Get-Volume -DriveLetter C

DriveLetter	FileSystemLabel	FileSystem	HealthStatus	SizeRemaining	Size
C		NTFS	Healthy	23.61 GB	465.42 GB

This example gets the Volume object for drive letter C.

RELATED LINKS

Online Version:

https://learn.microsoft.com/powershell/module/storage/get-volume?view=windowsserver2022-ps&wt.mc_id=ps-gethelp

Get-Disk

Get-FileShare

Get-Partition

Get-StorageFileServer

Get-StorageJob

Get-StoragePool

Get-StorageSubSystem

Format-Volume

Optimize-Volume

Repair-Volume

Set-Volume