



python



PowerShell

FPDF Library
PDF generator

Full credit is given to the above companies including the OS that this PDF file was generated!

PowerShell Get-Help on command 'Get-Disk'

PS C:\Users\wahid> Get-Help Get-Disk

NAME

Get-Disk

SYNOPSIS

Gets one or more disks visible to the operating system.

> [!NOTE] > This cmdlet returns physical disk objects like basic disks and partitioned drive partitions. Dynamic disks can span multiple pieces of physical media, so they will not be returned by Get-Disk. For more information, see Basic and Dynamic Disks (</windows/desktop/FileIO/basic-and-dynamic-disks>).

SYNTAX

```
Get-Disk [-AsJob] [-CimSession <CimSession[]>] [-FriendlyName <String[]>]
[-SerialNumber <String[]>] [-ThrottleLimit <Int32>] [<CommonParameters>]
```

```
Get-Disk [-Number] <UInt32[]> [-AsJob] [-CimSession <CimSession[]>]
[-ThrottleLimit <Int32>] [<CommonParameters>]
```

```
Get-Disk [-AsJob] [-CimSession <CimSession[]>] [-Partition <CimInstance>]
```

[-ThrottleLimit <Int32>] [<CommonParameters>]

Get-Disk [-AsJob] [-CimSession <CimSession[]>] [-Path <String[]>]

[-ThrottleLimit <Int32>] [<CommonParameters>]

Get-Disk [-AsJob] [-CimSession <CimSession[]>] [-StorageJob <CimInstance>]

[-ThrottleLimit <Int32>] [<CommonParameters>]

Get-Disk [-AsJob] [-CimSession <CimSession[]>] [-StorageNode <CimInstance>]

[-ThrottleLimit <Int32>] [<CommonParameters>]

Get-Disk [-AsJob] [-CimSession <CimSession[]>] [-StorageSubSystem

<CimInstance>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-Disk [-AsJob] [-CimSession <CimSession[]>] [-ThrottleLimit <Int32>]

[-UniqueId <String[]>] [<CommonParameters>]

Get-Disk [-AsJob] [-CimSession <CimSession[]>] [-ThrottleLimit <Int32>]

[-VirtualDisk <CimInstance>] [<CommonParameters>]

Get-Disk [-AsJob] [-CimSession <CimSession[]>] [-ThrottleLimit <Int32>]

[-iSCSIConnection <CimInstance>] [<CommonParameters>]

Get-Disk [-AsJob] [-CimSession <CimSession[]>] [-ThrottleLimit <Int32>]

[-iSCSISession <CimInstance>] [<CommonParameters>]

DESCRIPTION

The Get-Disk cmdlet gets one or more Disk objects visible to the operating system, or optionally a filtered list.

PARAMETERS

-AsJob [<SwitchParameter>]

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

-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.

-FriendlyName <String[]>

Gets the disk with the specified friendly name. Enter a friendly name, or use wildcard characters to enter a name pattern.

-Number <UInt32[]>

Specifies the disk number for which to get the associated Disk object.

-Partition <CimInstance>

Accepts a Partition object as input. The Partition CIM object is exposed by the `Get-Partition` (<https://technet.microsoft.com/library/85bb3c53-536e-408f-b159-28e91afeb1a1>)cmdlet.

-Path <String[]>

Contains valid path information.

-SerialNumber <String[]>

Specifies an array of serial numbers associated with disks that this cmdlet gets.

-StorageJob <CimInstance>

Specifies a storage job object that is associated with disks that this cmdlet gets. To obtain a storage job, use the `Get-StorageJob` cmdlet.

-StorageNode <CimInstance>

-StorageSubSystem <CimInstance>

Specifies the storage subsystem from which this cmdlet gets disks. To obtain a StorageSubsystem object, use the Get-StorageSubSystem cmdlet.

-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 PowerShell 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.

-UniqueId <String[]>

Gets only the disks with the specified IDs. Type one or more IDs (separated by commas).

-VirtualDisk <CimInstance>

Accepts a VirtualDisk object as input. The Virtual Disk CIM object is exposed by the Get-VirtualDisk (<https://technet.microsoft.com/library/0eeba53f-6468-485f-a680-49260b4c83f0>)cmdlet.

-iSCSIConnection <CimInstance>

Accepts an iSCSIConnection object as input. The iSCSI Connection CIM object is exposed by the Get-IscsiConnection (<https://technet.microsoft.com/library/e566d297-76ad-48d0-b5af-11674f23b080>)cmdlet.

-iSCSISession <CimInstance>

Accepts an iSCSISession object as input. The iSCSI Session CIM object is exposed by the Get-IscsiSession cmdlet.

<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).

----- Example 1: Get all disks -----

```
PS C:\>Get-Disk
```

This example gets all disks visible to the operating system.

----- Example 2: Get a disk by disk number -----

```
PS C:\>Get-Disk -Number 6
```

This example gets disk 6.

----- Example 3: Get all USB disks -----

```
PS C:\>Get-Disk | Where-Object -FilterScript {$_.Bustype -Eq "USB"}
```

This example gets all disks attached via the USB bus by piping the output of Get-Disk to the Where-Object cmdlet, and filtering by the USB value of the Bustype property.

---- Example 4: Get the iSCSI sessions for all iSCSI disks ----

```
PS C:\>Get-Disk | Where-Object -FilterScript {$_.BusType -Eq "iSCSI"} |  
Get-IscsiSession | Format-Table
```

This example gets all disks attached via the iSCSI bus by piping the output of Get-Disk to the Where-Object cmdlet, and filtering by the iSCSI value of the Bustype property. It then passes the Disk objects in the pipeline to the Get-IscsiSession cmdlet, which gets the associated iSCSI sessions, and then

pipes the output to the Format-Table cmdlet for simplified display.

REMARKS

To see the examples, type: "get-help Get-Disk -examples".

For more information, type: "get-help Get-Disk -detailed".

For technical information, type: "get-help Get-Disk -full".

For online help, type: "get-help Get-Disk -online"