



Windows PowerShell Get-Help on Cmdlet 'Clear-Disk'

PS:\>Get-HELP Clear-Disk -Full

NAME

Clear-Disk

SYNOPSIS

Cleans a disk by removing all partition information and un-initializing it, erasing all data on the disk.

SYNTAX

Clear-Disk [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-FriendlyName <String[]>] [-PassThru] [-RemoveData]
[-RemoveOEM] [-ThrottleLimit <Int32>] [-WhatIf]
[<CommonParameters>]

Clear-Disk [-AsJob] [-CimSession <CimSession[]>] [-Confirm] -InputObject <CimInstance[]> [-PassThru] [-RemoveData]
[-RemoveOEM] [-ThrottleLimit <Int32>] [-WhatIf]
[<CommonParameters>]

Clear-Disk [-Number] <UInt32[]> [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-PassThru] [-RemoveData]
[-RemoveOEM] [-ThrottleLimit <Int32>] [-WhatIf]
[<CommonParameters>]

```
Clear-Disk [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-PassThru] -Path <String[]> [-RemoveData]
[-RemoveOEM] [-ThrottleLimit <Int32>] [-WhatIf]

[<CommonParameters>]
```

```
Clear-Disk [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-PassThru] [-RemoveData] [-RemoveOEM] [-ThrottleLimit
<Int32>] -UniqueId <String[]> [-WhatIf]

[<CommonParameters>]
```

DESCRIPTION

The Clear-Disk cmdlet clears the disk by removing the partition and volume information.

If the disk contains active data volumes, then the RemoveData parameter is required as this will delete all data from the specified disk. This cmdlet will not clear

OEM recovery partitions unless RemoveOEM parameter is also specified.

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

-Confirm [<SwitchParameter>]

Prompts you for confirmation before running the cmdlet.

Required? false
Position? named
Default value False
Accept pipeline input? False
Accept wildcard characters? false

-FriendlyName <String[]>

Specifies a friendly name of the disk to clear.

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

-InputObject <CimInstance[]>

Specifies the input object that is used in a pipeline command.

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

-Number <UInt32[]>

Specifies the disk number of the disk on which to perform the clear operation. For a list of available disks, see the `Get-Disk` cmdlet.

Required?	true
Position?	0
Default value	None
Accept pipeline input?	True (ByPropertyName)
Accept wildcard characters?	false

-PassThru [<SwitchParameter>]

Specifies that the cmdlet should output an object representing a disk. By default, this cmdlet does not generate any output.

Required?	false
Position?	named
Default value	False
Accept pipeline input?	False
Accept wildcard characters?	false

-Path <String[]>

Specifies the path of the disk to clear.

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

-RemoveData [<SwitchParameter>]

Enables the removal of all of the data on the disk.

Required?	false
Position?	named
Default value	False
Accept pipeline input?	False
Accept wildcard characters?	false

-RemoveOEM [<SwitchParameter>]

Enables the removal of any OEM recovery partitions from the disk.

Required?	false
Position?	named
Default value	False
Accept pipeline input?	False
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 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.

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

-UniqueId <String[]>

Specifies the UniqueID of the disk to clear.

Required?	true
Position?	named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-WhatIf [<SwitchParameter>]

Shows what would happen if the cmdlet runs. The cmdlet is not run.

Required? false

Position? named

Default value False

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>).

INPUTS

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

You can pipe a Disk object to the InputObject parameter.

OUTPUTS

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

When you specify the Passthru parameter, this cmdlet outputs an object representing the disk that you cleared.

NOTES

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

----- Example 1: Clear a blank disk -----

```
PS C:\> Clear-Disk -Number 1
```

This example clears disk number one only if it does not contain both data or OEM partitions.

----- Example 2: Clear a disk with data partitions -----

```
PS C:\> Clear-Disk -Number 1 -RemoveData
```

This example clears the disk if it has data partitions, but not if it also has OEM partitions.

----- Example 3: Clear a disk with data and OEM partitions -----

```
PS C:\> Clear-Disk -Number 1 -RemoveData -RemoveOEM
```

This example clears the disk regardless of whether it contains data or OEM partitions.

RELATED LINKS

Online

Version:

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

Format-Volume

Get-Disk

Initialize-Disk

New-Partition

Set-Disk

Update-Disk