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PowerShell Get-Help on command 'New-Partition'

PS C:\Users\wahid> Get-Help New-Partition

NAME

New-Partition

SYNOPSIS

Creates a new partition on an existing Disk object.

SYNTAX

New-Partition [-Alignment <UInt32>] [-AsJob] [-AssignDriveLetter] [-CimSession <CimSession[]>] -DiskId <String[]> [-DriveLetter <Char>] [-GptType <String>] [-IsActive] [-IsHidden] [-MbrType {FAT12 | FAT16 | Extended | Huge | IFS | FAT32}] [-Offset <UInt64>] [-Size <UInt64>] [-ThrottleLimit <Int32>] [-UseMaximumSize] [<CommonParameters>]

New-Partition [-DiskNumber] <UInt32[]> [-Alignment <UInt32>] [-AsJob] [-AssignDriveLetter] [-CimSession <CimSession[]>] [-DriveLetter <Char>] [-GptType <String>] [-IsActive] [-IsHidden] [-MbrType {FAT12 | FAT16 | Extended | Huge | IFS | FAT32}] [-Offset <UInt64>] [-Size <UInt64>] [-ThrottleLimit <Int32>] [-UseMaximumSize] [<CommonParameters>]

New-Partition [-Alignment <UInt32>] [-AsJob] [-AssignDriveLetter] [-CimSession

<CimSession[]>] -DiskPath <String[]> [-DriveLetter <Char>] [-GptType <String>] [-IsActive] [-IsHidden] [-MbrType {FAT12 | FAT16 | Extended | Huge | IFS | FAT32}] [-Offset <UInt64>] [-Size <UInt64>] [-ThrottleLimit <Int32>] [-UseMaximumSize] [<CommonParameters>]

New-Partition [-Alignment <UInt32>] [-AsJob] [-AssignDriveLetter] [-CimSession <CimSession[]>] [-DriveLetter <Char>] [-GptType <String>] -InputObject <CimInstance[]> [-IsActive] [-IsHidden] [-MbrType {FAT12 | FAT16 | Extended | Huge | IFS | FAT32}] [-Offset <UInt64>] [-Size <UInt64>] [-ThrottleLimit <Int32>] [-UseMaximumSize] [<CommonParameters>]

DESCRIPTION

The New-Partition cmdlet creates a partition on a specified Disk object. Note: This cmdlet does not support creating dynamic volumes.

PARAMETERS

-Alignment <UInt32>

Specifies the alignment boundary in bytes.

-AsJob [<SwitchParameter>]

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

-AssignDriveLetter [<SwitchParameter>]

Assigns a drive letter to the new partition.

-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.

-DiskId <String[]>

Specifies the ID of the disk on which to create the partition.

-DiskNumber <UInt32[]>

Specifies an array of disk numbers.

-DiskPath <String[]>

Specifies the path of the disk on which to create the partition.

-DriveLetter <Char>

Specifies the specific drive letter to assign to the new partition.

-GptType <String>

Specifies the type of GPT partition to create (by GUID). The format should be 32 digits separated by hyphens, enclosed in braces and quoted:

`"{00000000-0000-0000-0000-000000000000}"`

By default, the New-Partition cmdlet creates a basic GPT data partition.

The GUIDs of valid types are: - System Partition -

`"{c12a7328-f81f-11d2-ba4b-00a0c93ec93b}"`

- Microsoft Reserved - `"{e3c9e316-0b5c-4db8-817d-f92df00215ae}"`

- Basic data - `"{ebd0a0a2-b9e5-4433-87c0-68b6b72699c7}"`

- Microsoft Recovery - `"{de94bba4-06d1-4d40-a16a-bfd50179d6ac}"`

-InputObject <CimInstance[]>

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

-IsActive [<SwitchParameter>]

Marks the partition as active: - On a BIOS-based system, the active partition is the partition the system will boot to. This partition must be a primary partition.

- On a Unified Extensible Firmware Interface (UEFI)-based system, this setting is not used. The system will always boot to the EFI System Partition (ESP). If Active is set for this partition type, it is ignored.

-IsHidden [<SwitchParameter>]

Creates a hidden partition.

-MbrType <MbrType>

Specifies the type of MBR partition to create.

-Offset <UInt64>

Specifies the starting offset, in bytes.

-Size <UInt64>

Specifies the size of the partition to create. If not specified, then the units will default to Bytes . The acceptable value for this parameter is a positive number followed by the one of the following unit values: Bytes , KB , MB , GB , or TB .

-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.

-UseMaximumSize [<SwitchParameter>]

Creates the largest possible partition on the specified disk.

<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).

--------- Example 1: Create a new partition on disk 1 ---------

PS C:\> New-Partition -DiskNumber 1 -UseMaximumSize -DriveLetter T

This example creates a new partition on disk 1 using the maximum available space and assigns a drive letter T.

Example 2: Get all RAW disks, initialize the disks, partition, and format them

PS C:\> Get-Disk | Where-Object PartitionStyle -Eq "RAW" | Initialize-Disk -PassThru | New-Partition -AssignDriveLetter -UseMaximumSize | Format-Volume

This example uses five cmdlets and the pipeline to get all disks, filter them for only RAW, unpartitioned disks, initialize the disks, partition the disks, and then to format them.

----- Example 3: Create a new EFI partition on GPT disk 2 -----

PS C:\> New-Partition -DiskNumber 2 -Size 500MB -GptType "{c12a7328-f81f-11d2-ba4b-00a0c93ec93b}"

This example creates a new EFI partition on disk 2 with a size of 500 MB.

-- Example 4: Create a Windows/system partition on MBR disk 0 --

PS C:\> New-Partition -DiskNumber 0 -Size 100GB -MbrType IFS -IsActive

This example creates a new Windows/system partition on MBR disk 0 with a size of 100 GB.

REMARKS

To see the examples, type: "get-help New-Partition -examples".

For more information, type: "get-help New-Partition -detailed".

For technical information, type: "get-help New-Partition -full".

For online help, type: "get-help New-Partition -online"