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PowerShell Get-Help on command 'Add-PhysicalDisk'

PS C:\Users\wahid> Get-Help Add-PhysicalDisk

NAME

Add-PhysicalDisk

SYNOPSIS

Adds a physical disk to the specified storage pool or manually assigns a physical disk to a specific virtual disk.

SYNTAX

Add-PhysicalDisk [-StoragePool] <CimInstance> [-AsJob] [-CimSession <CimSession[]>] [-Confirm] -PhysicalDisks <CimInstance[]> [-ThrottleLimit <Int32>] [-Usage {AutoSelect | ManualSelect | HotSpare | Retired | Journal}] [-WhatIf] [<CommonParameters>]

Add-PhysicalDisk [-AsJob] [-CimSession <CimSession[]>] [-Confirm] -PhysicalDisks <CimInstance[]> -StoragePoolFriendlyName <String> [-ThrottleLimit <Int32>] [-Usage {AutoSelect | ManualSelect | HotSpare | Retired | Journal}] [-WhatIf] [<CommonParameters>]

Add-PhysicalDisk [-AsJob] [-CimSession <CimSession[]>] [-Confirm] -PhysicalDisks <CimInstance[]> -StoragePoolName <String> [-ThrottleLimit

<Int32>] [-Usage {AutoSelect | ManualSelect | HotSpare | Retired | Journal}]
[-WhatIf] [<CommonParameters>]

Add-PhysicalDisk [-AsJob] [-CimSession <CimSession[]>] [-Confirm]
-PhysicalDisks <CimInstance[]> -StoragePoolUniqueId <String> [-ThrottleLimit
<Int32>] [-Usage {AutoSelect | ManualSelect | HotSpare | Retired | Journal}]
[-WhatIf] [<CommonParameters>]

Add-PhysicalDisk [-VirtualDisk] <CimInstance> [-AsJob] [-CimSession
<CimSession[]>] [-Confirm] -PhysicalDisks <CimInstance[]> [-ThrottleLimit
<Int32>] [-WhatIf] [<CommonParameters>]

Add-PhysicalDisk [-AsJob] [-CimSession <CimSession[]>] [-Confirm]
-PhysicalDisks <CimInstance[]> [-ThrottleLimit <Int32>]
-VirtualDiskFriendlyName <String> [-WhatIf] [<CommonParameters>]

Add-PhysicalDisk [-AsJob] [-CimSession <CimSession[]>] [-Confirm]
-PhysicalDisks <CimInstance[]> [-ThrottleLimit <Int32>] -VirtualDiskName
<String> [-WhatIf] [<CommonParameters>]

Add-PhysicalDisk [-AsJob] [-CimSession <CimSession[]>] [-Confirm]
-PhysicalDisks <CimInstance[]> [-ThrottleLimit <Int32>] -VirtualDiskUniqueId
<String> [-WhatIf] [<CommonParameters>]

DESCRIPTION

The Add-PhysicalDisk cmdlet adds a physical disk to the specified storage pool. The cmdlet can also assign a ManualSelect physical disk already in the storage pool to a specific virtual disk.

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.

-Confirm [<SwitchParameter>]

Prompts you for confirmation before running the cmdlet.

-PhysicalDisks <CimInstance[]>

Specifies the physical disk objects to add to the storage pool. Enter one or more PhysicalDisk CIM objects.

-StoragePool <CimInstance>

Specifies the storage pool object to which you want to add the physical disk(s). Enter a StoragePool CIM object.

-StoragePoolFriendlyName <String>

Specifies the friendly name of the storage pool to which to add the physical disk.

-StoragePoolName <String>

Specifies the name of the storage pool, provided by the Storage Management Provider, to which to add the physical disk.

-StoragePoolUniqueId <String>

Specifies the ID of the storage pool to which to add the physical disk.

-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.

-Usage <Usage>

Specifies the allocation method (usage) for the disk. Valid values are AutoSelect, HotSpare, Journal, ManualSelect, Retired, and Unknown.

-VirtualDisk <CimInstance>

Specifies the virtual disk object to which to exclusively assign the physical disk(s). Enter one or more VirtualDisk CIM objects.

To manually assign a physical disk to a virtual disk, first add the physical disk to the appropriate pool and set the Usage property on the disk to ManualSelect. You can do so by using the Add-PhysicalDisk or Set-PhysicalDisk cmdlets.

-VirtualDiskFriendlyName <String>

Specifies the friendly name of the virtual disk to which to exclusively assign the physical disks.

To manually assign a physical disk to a virtual disk, first add the physical disk to the appropriate pool and set the Usage property on the disk to ManualSelect. You can do so by using the Add-PhysicalDisk or Set-PhysicalDisk cmdlets.

-VirtualDiskName <String>

-VirtualDiskUniqueId <String>

Specifies the ID of the virtual disk to which to exclusively assign the physical disks.

To manually assign a physical disk to a virtual disk, first add the physical disk to the appropriate pool and set the Usage property on the disk to ManualSelect. You can do so by using the Add-PhysicalDisk or Set-PhysicalDisk cmdlets.

-WhatIf [<SwitchParameter>]

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

<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: Adding a physical disk by storage pool friendly name

```
PS C:\> $PDToAdd = Get-PhysicalDisk -FriendlyName PhysicalDisk5
PS C:\> Add-PhysicalDisk -PhysicalDisks $PDToAdd -StoragePoolFriendlyName
CompanyData
```

This example gets the PhysicalDisk object for the physical disk named PhysicalDisk5 and assigns it to the $PDToAdd variable. It then adds the PhysicalDisk object to the storage pool named CompanyData.

-------- Example 2: Adding all available physical disks --------

```
PS C:\> $PDToAdd = Get-PhysicalDisk -CanPool $True
PS C:\> Add-PhysicalDisk -StoragePoolFriendlyName "Demo Pool" -PhysicalDisks
$PDToAdd
```

This example gets all PhysicalDisk objects that can be added to a storage pool

and assigns them to the $PDToAdd variable. It then adds the available physical disks to the storage pool named Demo Pool.

----- Example 3: Piping a storage pool to Add-PhysicalDisk -----

PS C:\> Get-StoragePool -IsPrimordial $False | Add-PhysicalDisk -PhysicalDisks (Get-PhysicalDisk -CanPool $True)

This example gets all storage pools (except primordial pools) and pipes the output to the Add-PhysicalDisk cmdlet (this will not work if you created more than one storage pool). This example then uses the Get-Physical Disk cmdlet inside of parentheses to specify all available physical disks without using variables.

Example 4: Manually assigning physical disks to a virtual disk

PS C:\> Add-PhysicalDisk -VirtualDiskFriendlyName UserData -PhysicalDisks (Get-PhysicalDisk -FriendlyName PhysicalDisk3, PhysicalDisk4)

This example gets two physical disks that have already been added to the storage pool and designated as ManualSelect disks, PhysicalDisk3 and PhysicalDisk4, and assigns them to the virtual disk UserData.

REMARKS

To see the examples, type: "get-help Add-PhysicalDisk -examples".

For more information, type: "get-help Add-PhysicalDisk -detailed".

For technical information, type: "get-help Add-PhysicalDisk -full".

For online help, type: "get-help Add-PhysicalDisk -online"