



python



PowerShell

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PowerShell Get-Help on command 'Get-StorageNode'

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

NAME

Get-StorageNode

SYNOPSIS

Gets storage nodes.

SYNTAX

```
Get-StorageNode [-AsJob] [-CimSession <CimSession[]>] [-Disk <CimInstance>]
[-OperationalStatus {Unknown | Up | Down | Joining | Paused}] [-ThrottleLimit
<Int32>] [<CommonParameters>]
```

```
Get-StorageNode [-AsJob] [-CimSession <CimSession[]>] [-Name <String[]>]
[-OperationalStatus {Unknown | Up | Down | Joining | Paused}] [-ThrottleLimit
<Int32>] [<CommonParameters>]
```

```
Get-StorageNode [-AsJob] [-CimSession <CimSession[]>] [-ObjectId <String[]>]
[-OperationalStatus {Unknown | Up | Down | Joining | Paused}] [-ThrottleLimit
<Int32>] [<CommonParameters>]
```

```
Get-StorageNode [-AsJob] [-CimSession <CimSession[]>] [-OperationalStatus
```

```
{Unknown | Up | Down | Joining | Paused}} [-PhysicalDisk <CimInstance>]
[-PhysicallyConnected] [-ThrottleLimit <Int32>] [<CommonParameters>]
```

```
Get-StorageNode [-AsJob] [-CimSession <CimSession[]>] [-OperationalStatus
{Unknown | Up | Down | Joining | Paused}} [-PhysicallyConnected]
[-StorageEnclosure <CimInstance>] [-ThrottleLimit <Int32>] [<CommonParameters>]
```

```
Get-StorageNode [-AsJob] [-CimSession <CimSession[]>] [-OperationalStatus
{Unknown | Up | Down | Joining | Paused}} [-StoragePool <CimInstance>]
[-ThrottleLimit <Int32>] [<CommonParameters>]
```

```
Get-StorageNode [-AsJob] [-CimSession <CimSession[]>] [-OperationalStatus
{Unknown | Up | Down | Joining | Paused}} [-StorageSubSystem <CimInstance>]
[-ThrottleLimit <Int32>] [<CommonParameters>]
```

```
Get-StorageNode [-AsJob] [-CimSession <CimSession[]>] [-OperationalStatus
{Unknown | Up | Down | Joining | Paused}} [-ThrottleLimit <Int32>] [-UniqueId
<String[]>] [<CommonParameters>]
```

```
Get-StorageNode [-AsJob] [-CimSession <CimSession[]>] [-OperationalStatus
{Unknown | Up | Down | Joining | Paused}} [-ThrottleLimit <Int32>]
[-VirtualDisk <CimInstance>] [<CommonParameters>]
```

```
Get-StorageNode [-AsJob] [-CimSession <CimSession[]>] [-OperationalStatus
{Unknown | Up | Down | Joining | Paused}} [-ThrottleLimit <Int32>] [-Volume
<CimInstance>] [<CommonParameters>]
```

DESCRIPTION

The Get-StorageNode cmdlet gets objects that represent storage nodes and their operational statuses. Use this cmdlet to get storage nodes to pass to the Get-PhysicalDisk cmdlet or the Get-VirtualDisk cmdlet to get the physical or virtual disks connected to storage nodes. Use the current cmdlet with the

Get-StoragePool cmdlet to get the storage pools that storage nodes own.

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.

-Disk <CimInstance>

Specifies a disk for which this cmdlet gets storage notes. To obtain a Disk object, use the Get-Disk cmdlet.

-Name <String[]>

Specifies an array of names. The cmdlet gets the storage nodes that you specify by name.

-ObjectId <String[]>

Specifies an array of object IDs, as strings.

-OperationalStatus <OperationalStatus[]>

Specifies an array of OperationStatus objects. The cmdlet gets storage nodes that match the operational statuses that you specify. The acceptable values for this parameter are:

- Dormant

- Down

- LowerLayerDown

- NotPresent

- Testing

- Unknown

- Up

-PhysicalDisk <CimInstance>

Specifies a physical disk as a CimInstance object. The cmdlet gets the storage nodes that correspond to the disk that you specify. To obtain a physical disk object, use the Get-PhysicalDisk cmdlet.

-PhysicallyConnected [<SwitchParameter>]

Indicates that this cmdlet gets the storage nodes that are physically connected to a device.

-StorageEnclosure <CimInstance>

Specifies a storage enclosure that is associated with the storage nodes to get. To obtain a StorageEnclosure object, use the Get-StorageEnclosure cmdlet.

-StoragePool <CimInstance>

Specifies a storage pool as a CimInstance object. The cmdlet gets storage node associated with storage pool that you specify. To obtain a storage pool object, use the Get-StoragePool cmdlet.

-StorageSubSystem <CimInstance>

Specifies a storage subsystem as a CimInstance object. The cmdlet gets the

storage nodes that belong to the subsystem that you specify. To obtain a storage subsystem 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[]>

Specifies an array of unique IDs, as strings. The cmdlet gets the storage nodes that have the IDs that you specify.

-VirtualDisk <CimInstance>

Specifies a virtual disk as a `CimInstance` object. The cmdlet gets the storage nodes that correspond to the disk that you specify. To obtain a virtual disk object, use the `Get-VirtualDisk` cmdlet.

-Volume <CimInstance>

Specifies a volume. The cmdlet gets the storage nodes that correspond to the volume that you specify. To obtain a `Volume` object, use the `Get-Volume` 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>).

----- Example 1: Get a storage node -----

```
PS C:\>Get-StorageNode -Name "StorageNode21"
```

This command gets a storage node named StorageNode21.

Example 2: Get the operational statuses for all physical disks

```
PS C:\>Get-PhysicalDisk | Get-StorageNode
```

This command uses the Get-PhysicalDisk cmdlet to obtain all the physical disks, and then passes them to the current cmdlet by using the pipeline operator. The cmdlet gets the storage nodes and operational statuses for the physical disks.

REMARKS

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

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

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

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