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PowerShell Get-Help on command 'Get-StorageSubSystem'

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

NAME

Get-StorageSubSystem

SYNOPSIS

Gets one or more StorageSubSystem objects.

SYNTAX

Get-StorageSubSystem [-AsJob] [-CimSession <CimSession[]>] [-Disk <CimInstance>] [-HealthStatus {Healthy | Warning | Unhealthy}] [-Manufacturer <String[]>] [-Model <String[]>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-StorageSubSystem [-AsJob] [-CimSession <CimSession[]>] [-FileServer <CimInstance>] [-HealthStatus {Healthy | Warning | Unhealthy}] [-Manufacturer <String[]>] [-Model <String[]>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-StorageSubSystem [[-FriendlyName] <String[]>] [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus {Healthy | Warning | Unhealthy}] [-Manufacturer <String[]>] [-Model <String[]>] [-ThrottleLimit <Int32>] [<CommonParameters>]

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

{Healthy | Warning | Unhealthy}] [-InitiatorId <CimInstance>] [-Manufacturer <String[]>] [-Model <String[]>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-StorageSubSystem [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus {Healthy | Warning | Unhealthy}] [-Manufacturer <String[]>] [-MaskingSet <CimInstance>] [-Model <String[]>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-StorageSubSystem [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus {Healthy | Warning | Unhealthy}] [-Manufacturer <String[]>] [-Model <String[]>] [-Name <String[]>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-StorageSubSystem [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus {Healthy | Warning | Unhealthy}] [-Manufacturer <String[]>] [-Model <String[]>] [-OffloadDataTransferSetting <CimInstance>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-StorageSubSystem [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus {Healthy | Warning | Unhealthy}] [-Manufacturer <String[]>] [-Model <String[]>] [-Partition <CimInstance>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-StorageSubSystem [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus {Healthy | Warning | Unhealthy}] [-Manufacturer <String[]>] [-Model <String[]>] [-StorageFaultDomain <CimInstance>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-StorageSubSystem [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus {Healthy | Warning | Unhealthy}] [-Manufacturer <String[]>] [-Model <String[]>] [-StorageNode <CimInstance>] [-ThrottleLimit <Int32>] [<CommonParameters>]

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

{Healthy | Warning | Unhealthy}] [-Manufacturer <String[]>] [-Model
<String[]>] [-StoragePool <CimInstance>] [-ThrottleLimit <Int32>]
[<CommonParameters>]

Get-StorageSubSystem [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus
{Healthy | Warning | Unhealthy}] [-Manufacturer <String[]>] [-Model
<String[]>] [-StorageProvider <CimInstance>] [-ThrottleLimit <Int32>]
[<CommonParameters>]

Get-StorageSubSystem [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus
{Healthy | Warning | Unhealthy}] [-Manufacturer <String[]>] [-Model
<String[]>] [-TargetPort <CimInstance>] [-ThrottleLimit <Int32>]
[<CommonParameters>]

Get-StorageSubSystem [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus
{Healthy | Warning | Unhealthy}] [-Manufacturer <String[]>] [-Model
<String[]>] [-TargetPortal <CimInstance>] [-ThrottleLimit <Int32>]
[<CommonParameters>]

Get-StorageSubSystem [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus
{Healthy | Warning | Unhealthy}] [-Manufacturer <String[]>] [-Model
<String[]>] [-ThrottleLimit <Int32>] [-UniqueId <String[]>]
[<CommonParameters>]

Get-StorageSubSystem [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus
{Healthy | Warning | Unhealthy}] [-Manufacturer <String[]>] [-Model
<String[]>] [-ThrottleLimit <Int32>] [-VirtualDisk <CimInstance>]
[<CommonParameters>]

Get-StorageSubSystem [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus
{Healthy | Warning | Unhealthy}] [-Manufacturer <String[]>] [-Model
<String[]>] [-ThrottleLimit <Int32>] [-Volume <CimInstance>]
[<CommonParameters>]

DESCRIPTION

The Get-StorageSubSystem cmdlet gets one or more StorageSubSystem objects. If no parameters are specified, then all subsystems on the system will be returned. If two parameters are specified that conflict with unique values, then no subsystem will be returned; since none match that criteria.

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 subsystems. To obtain a Disk object, use the Get-Disk cmdlet.

-FileServer <CimInstance>

Specifies the file server on which to get storage subsystems. To obtain a FileServer object, use the Get-StorageFileServer cmdlet.

-FriendlyName <String[]>

Specifies the friendly name of the storage subsystem to get.

-HealthStatus <HealthStatus[]>

Specifies the health status for which this cmdlet gets storage subsystems. The acceptable values for this parameter are: Healthy, Warning, and Unhealthy.

-InitiatorId <CimInstance>

Gets the storage subsystem associated with the specified InitiatorId object. Enter an InitiatorID CIM object. The InitiatorID object is exposed by the Get-InitiatorId cmdlet.

-Manufacturer <String[]>

Specifies a manufacturer of storage subsystems to get.

-MaskingSet <CimInstance>

Gets the StorageSubSystem for the specified MaskingSet object. Enter a MaskingSet CIM object. The MaskingSet object is exposed by the Get-MaskingSet cmdlet.

-Model <String[]>

Specifies a model for which to get storage subsystems.

-Name <String[]>

Gets the StorageSubSystem with the specified name.

-OffloadDataTransferSetting <CimInstance>

Gets the StorageSubSystem associated with the specified OffloadDataTransferSetting object. The Offload Data Transfer Setting CIM object is exposed by the Get-OffloadDataTransferSetting cmdlet.

-Partition <CimInstance>

Specifies a partition associated with a storage subsystem to get. To obtain a Partition object, use the Get-Partition cmdlet.

-StorageFaultDomain <CimInstance>

Specifies a storage fault domain associated with a storage subsystem to get. To obtain a StorageFaultDomain object, use the Get-StorageFaultDomain cmdlet.

-StorageNode <CimInstance>

Specifies a storage node as a CimInstance object. The cmdlet gets storage subsystems on the node that you specify. To obtain a storage node object, use the Get-StorageNode cmdlet.

-StoragePool <CimInstance>

Gets the StorageSubSystem associated with the specified StoragePool object. The Storage Pool CIM object is exposed by the Get-StoragePool cmdlet.

-StorageProvider <CimInstance>

Gets the StorageSubSystem associated with the specified StorageProvider object. The Storage Provider CIM object is exposed by the Get-StorageProvider cmdlet.

-TargetPort <CimInstance>

Gets the StorageSubSystem associated with the specified TargetPort object. The TargetPort CIM object is exposed by the Get-TargetPort cmdlet.

-TargetPortal <CimInstance>

Gets the StorageSubSystem associated with the specified TargetPortal object. The TargetPortal CIM object is exposed by the Get-TargetPortal 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 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.

-UniqueId <String[]>

Gets the StorageSubSystem with the specified UniqueID value.

-VirtualDisk <CimInstance>

Gets the StorageSubSystem associated with the specified VirtualDisk object. The Virtual Disk CIM object is exposed by the Get-VirtualDisk cmdlet.

-Volume <CimInstance>

Specifies a volume that is associated the storage subsystem that this cmdlet gets. 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 all storage subsystems ----------

PS C:\>Get-StorageSubSystem

This example returns a list of all visible StorageSubSystem objects across all accessible StorageProvider objects.

--------- Example 2: Get the Windows Storage subsystem ---------

PS C:\>Get-StorageSubSystem -Model "Storage Spaces"

FriendlyName HealthStatus
OperationalStatus
---------- ----------

Storage Spaces on SRV1 Healthy

OK

This example returns only the StorageSubSystem object for the Storage Spaces provider.

------- Example 3: Get all unhealthy storage subsystems -------

PS C:\>Get-StorageSubSystem -HealthStatus Unhealthy

This example gets all storage subsystems in an unhealthy state.

Example 4: Get storage subsystems that have SMPs that support ODX

PS C:\>Get-OffloadDataTransferSetting | Get-StorageSubSystem

This example displays all storage subsystems on storage management providers that support Windows Offloaded Data Transfers (ODX). Storage arrays that support ODX using the SMI-S protocol are not shown.

REMARKS

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

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

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

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