Windows PowerShell Get-Help on Cmdlet 'Get-StorageEnclosure'

PS:\>Get-HELP Get-StorageEnclosure -Full

NAME

Get-StorageEnclosure

SYNOPSIS

Gets storage enclosures.

SYNTAX

Get-StorageEnclosure [[-FriendlyName] <String[]>] [[-SerialNumber] <String[]>] [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus {Healthy | Warning | Unhealthy |

Unknown}] [-Manufacturer <String[]>] [-Model <String[]>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-StorageEnclosure [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus {Healthy | Warning | Unhealthy | Unknown}] [-Manufacturer <String[]>] [-Model <String[]>]

[-PhysicalDisk <CimInstance>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-StorageEnclosure [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus {Healthy | Warning | Unhealthy | Unknown}] [-Manufacturer <String[]>] [-Model <String[]>]

[-PhysicallyConnected] [-StorageNode <CimInstance>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-StorageEnclosure [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus {Healthy | Warning | Unhealthy | Unknown}] [-Manufacturer <String[]>] [-Model <String[]>]

[-StorageSubSystem <CimInstance>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-StorageEnclosure [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus {Healthy | Warning | Unhealthy | Unknown}] [-Manufacturer <String[]>] [-Model <String[]>]

[-ThrottleLimit <Int32>] [-UniqueId <String[]>] [<CommonParameters>]

DESCRIPTION

The Get-StorageEnclosure cmdlet gets storage enclosures that are visible to your computer.

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

-FriendlyName <String[]>

Specifies an array of friendly names. The cmdlet gets storage enclosures that the names specify.

Required? false

Position? 0

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-HealthStatus <HealthStatus[]>

Specifies an array of health status values. The acceptable values for this parameter are:

- Healthy

- Warning

- Unhealthy

- Unknown

Health status describes the health of an enclosure. This cmdlet gets the enclosures that have health statuses that this parameter specifies.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Manufacturer <String[]>

Specifies the name of a manufacturer. This cmdlet gets enclosures for the manufacturers that this parameter identifies.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Model <String[]>

Specifies an array of model IDs. This cmdlet gets enclosures that the model IDs specify.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-PhysicalDisk <CimInstance>

Specifies a physical disk as a CimInstance object. The cmdlet gets storage enclosures that contain the disk that the object specifies. To obtain a physical disk

object, use the Get-PhysicalDisk cmdlet.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-PhysicallyConnected [<SwitchParameter>]

Indicates that this cmdlet gets storage enclosures that are physically connected to a storage node.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-SerialNumber <String[]>

Specifies the serial number of the storage enclosure to get.

Required? false

Position? 1

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-StorageNode <CimInstance>

Specifies a storage node as a CimInstance object. The cmdlet gets storage enclosures connected to the storage node that the object specifies. To obtain a storage

node object, use the Get-StorageNode cmdlet.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-StorageSubSystem <CimInstance>

Specifies a storage subsystem as a CimInstance object. This cmdlet gets storage enclosures that belong to the subsystem that the object specifies. To obtain a

storage subsystem object, use the Get-StorageSubSystem cmdlet.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByValue)

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 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.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-UniqueId <String[]>

Specifies an array of IDs. This cmdlet gets the enclosures that the IDs specify.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

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

OUTPUTS

MSFT_StorageEnclosure[]

This cmdlet returns an array of StorageEnclosure objects.

NOTES

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

---------- Example 1: Get all enclosures ----------

PS C:\>Get-StorageEnclosure

This command gets all the enclosures visible to your computer.

----- Example 2: Get an enclosure by using a friendly name -----

PS C:\>Get-StorageEnclosure -FriendlyName "E1"

This command gets the enclosure named E1.

---------- Example 3: Get an enclosure by using an ID ----------

PS C:\>Get-StorageEnclosure -UniqueId "{b2c21800-b833-11e2-9981-806e6f6e6963}"

This command gets the enclosure that has the specified UniqueId .

---------- Example 4: Get unhealthy enclosures ----------

PS C:\>Get-StorageEnclosure -HealthStatus "Unhealthy"

This command gets enclosures that have the health status of Unhealthy.

-------- Example 5: Get enclosures from a manufacturer --------

PS C:\>Get-StorageEnclosure -Manufacturer "Fabrikam"

This command gets enclosures from a specific manufacturer.

-- Example 6: Get an enclosure that contains a specified disk --

PS C:\>Get-PhysicalDisk -FriendlyName "PhysicalDisk35" | Get-StorageEnclosure

This command uses the Get-PhysicalDisk cmdlet to get the disk named PhysicalDisk35, and then passes that object to the current cmdlet by using the pipeline operator.

The current cmdlet gets the enclosure that contains the disk named PhysicalDisk35.

----- Example 7: Get enclosures attached to a storage node -----

PS C:\>Get-StorageNode -Name "Node14" | Get-StorageEnclosure

This command uses the Get-StorageNode cmdlet to get the storage node named Node14, and then passes that object to the current cmdlet by using the pipeline operator.

The current cmdlet gets enclosures attached to the node named Node14.

---------- Example 8: Get enclosures on a subsystem ----------

PS C:\>Get-StorageSubSystem -FriendlyName "Clustered storage spaces on main cluster" | Get-StorageEnclosure

This command uses the Get-StorageSubSystem cmdlet to get the storage subsystem that has the specified friendly name, and then passes that object to the current cmdlet

by using the pipeline operator. The current cmdlet gets enclosures on the specified subsystem.

RELATED LINKS

Online Version: https://learn.microsoft.com/powershell/module/storage/get-storageenclosure?view=windowsserver2022-ps&wt.mc_id=ps-gethelp

Get-StorageEnclosureVendorData

Disable-StorageEnclosureIdentification

Enable-StorageEnclosureIdentification

Get-PhysicalDisk

Get-StorageNode

Get-StorageSubSystem