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

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

NAME

  Get-StorageTier

SYNOPSIS

  Gets storage tiers on Windows Storage subsystems.

SYNTAX

  Get-StorageTier [[-FriendlyName] <String[]>] [-AsJob] [-CimSession <CimSession[]>] [-MediaType {Unspecified | HDD | SSD | SCM}] [-ThrottleLimit <Int32>]

  [<CommonParameters>]

  Get-StorageTier [-AsJob] [-CimSession <CimSession[]>] [-MediaType {Unspecified | HDD | SSD | SCM}] [-StoragePool <CimInstance>] [-ThrottleLimit <Int32>]

  [<CommonParameters>]

  Get-StorageTier [-AsJob] [-CimSession <CimSession[]>] [-MediaType {Unspecified | HDD | SSD | SCM}] [-ThrottleLimit <Int32>] [-UniqueId <String[]>] [<CommonParameters>]

  Get-StorageTier [-AsJob] [-CimSession <CimSession[]>] [-MediaType {Unspecified | HDD | SSD | SCM}] [-ThrottleLimit

<Int32>] [-VirtualDisk <CimInstance>]

[<CommonParameters>]

DESCRIPTION

The Get-StorageTier cmdlet gets storage tiers on Windows Storage subsystems. Storage tiers are physical disks that are grouped by characteristics, for example,

solid-state drives (SSD) and hybrid hard drives (HHD).

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 of storage tiers to get.

Required?   false

Position?   0

Default value   None

Accept pipeline input?   True (ByPropertyName)

Accept wildcard characters? false

-MediaType <MediaType[]>

Specifies an array of media types. The cmdlet gets the storage tiers for the media type that you specify. The acceptable values for this parameter are:

- SSD

- HDD

Required?   false

Position?   named

Default value   None

Accept pipeline input?   False

Accept wildcard characters? false

-StoragePool <CimInstance>

Specifies a storage pool as a CIMInstance object. The cmdlet gets the storage tiers for the storage pool that you specify. To obtain a storage pool, use the

Get-StoragePool 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 of storage tiers to get.

Required?   false

Position?   named

Default value   None

Accept pipeline input?   True (ByPropertyName)

Accept wildcard characters? false

-VirtualDisk <CimInstance>

Specifies a virtual disk as a CIMInstance object. The cmdlet gets the storage tiers for the virtual disk that you specify. To obtain a virtual disk, use

theGet-VirtualDisk cmdlet.

Required?   false

Position?   named

Default value   None

Accept pipeline input?   True (ByValue)

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

Microsoft.Management.Infrastructure.CimInstance#ROOT/Microsoft/Windows/Storage/MSFT_StoragePool

You can use the pipeline operator to pass an MSFT_StoragePool object to the StoragePool parameter to get the storage tier associated with the StoragePool object.

Microsoft.Management.Infrastructure.CimInstance#ROOT/Microsoft/Windows/Storage/MSFT_VirtualDisk

You can use the pipeline operator to pass an MSFT_VirtualDisk object to the VirtualDisk parameter to get the storage tier associated with the VirtualDisk object.

OUTPUTS

MSFT_StorageTier

This cmdlet returns an object that contains details about the storage tier, such as tier friendly name, media type and size.

NOTES

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

---------------- Example 1: Get a storage tier ----------------

PS C:\>Get-StorageTier -FriendlyName "StoreTier01"

This command gets the storage tier named StoreTier01.

------ Example 2: Get a storage tier from a storage pool ------

PS C:\> Get-StoragePool -FriendlyName "StorePool01" | Get-StorageTier

This command gets the object that contains the storage pool named StorePool01, and then passes the object to the Get-StorageTier cmdlet by using the pipeline

operator. The Get-StorageTier cmdlet gets the storage tier from the storage pool object.

------ Example 3: Get a storage tier from a virtual disk ------

PS C:\>Get-VirtualDisk -FriendlyName "VDisk01" | Get-StorageTier

This command uses the Get-VirtualDisk cmdlet to get the tiered virtual disk named VDisk01. The command passes the virtual disk to the Get-StorageTier cmdlet by using

the pipeline operator. The Get-StorageTier cmdlet gets the storage tiers that compose the tiered virtual disk.

RELATED LINKS

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

New-StorageTier

Remove-StorageTier

Resize-StorageTier

Set-StorageTier