
## *Windows PowerShell Get-Help on Cmdlet 'Get-StoragePool'*

***PS:\>Get-HELP Get-StoragePool -Full***

NAME

Get-StoragePool

SYNOPSIS

Gets a specific storage pool, or a set of StoragePool objects either from all storage subsystems across all storage providers, or optionally a filtered subset based

on specific parameters.

SYNTAX

Get-StoragePool [[-FriendlyName] <String[]>] [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus {Healthy | Warning | Unhealthy | Unknown}] [-IsPrimordial

<Boolean[]>] [-ThrottleLimit <Int32>] [-Usage {Unknown | Other | Unrestricted | ReservedForComputerSystem | ReservedAsDeltaReplicaContainer |

ReservedForMigrationServices | ReservedForLocalReplicationServices | ReservedForRemoteReplicationServices | ReservedForSparing}] [<CommonParameters>]

Get-StoragePool [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus {Healthy | Warning | Unhealthy | Unknown}] [-IsPrimordial <Boolean[]>] [-Name <String[]>]

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

Get-StoragePool [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus {Healthy | Warning | Unhealthy | Unknown}] [-IsPrimordial <Boolean[]>] [-OtherUsageDescription <String[]>] [-ThrottleLimit <Int32>] [-Usage {Unknown | Other | Unrestricted | ReservedForComputerSystem | ReservedAsDeltaReplicaContainer | ReservedForMigrationServices | ReservedForLocalReplicationServices | ReservedForRemoteReplicationServices | ReservedForSparing}] [<CommonParameters>]

Get-StoragePool [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus {Healthy | Warning | Unhealthy | Unknown}] [-IsPrimordial <Boolean[]>] [-PhysicalDisk <CimInstance>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-StoragePool [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus {Healthy | Warning | Unhealthy | Unknown}] [-IsPrimordial <Boolean[]>] [-ResiliencySetting <CimInstance>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-StoragePool [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus {Healthy | Warning | Unhealthy | Unknown}] [-IsPrimordial <Boolean[]>] [-StorageJob <CimInstance>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-StoragePool [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus {Healthy | Warning | Unhealthy | Unknown}] [-IsPrimordial <Boolean[]>] [-StorageNode <CimInstance>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-StoragePool [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus {Healthy | Warning | Unhealthy | Unknown}] [-IsPrimordial <Boolean[]>] [-StorageSubSystem <CimInstance>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-StoragePool [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus {Healthy | Warning | Unhealthy | Unknown}] [-IsPrimordial <Boolean[]>] [-StorageTier <CimInstance>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-StoragePool [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus {Healthy | Warning | Unhealthy | Unknown}]

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

Get-StoragePool [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus {Healthy | Warning | Unhealthy | Unknown}] [-IsPrimordial <Boolean[]>] [-ThrottleLimit <Int32>]
[-VirtualDisk <CimInstance>] [<CommonParameters>]

Get-StoragePool [-AsJob] [-CimSession <CimSession[]>] [-HealthStatus {Healthy | Warning | Unhealthy | Unknown}] [-IsPrimordial <Boolean[]>] [-ThrottleLimit <Int32>]
[-Volume <CimInstance>] [<CommonParameters>]

DESCRIPTION

The Get-StoragePool cmdlet returns either a specific storage pool, or a set of StoragePool objects either from all storage subsystems across all storage providers, or
optionally a filtered subset based on specific parameters.

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 the friendly name of the storage pool to get.

Required? false

Position? 0

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-HealthStatus <HealthStatus[]>

Specifies the health status(es) of the storage pool to get. Specify one or more of the following values: Healthy , Warning , Unhealthy, or Unknown.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-IsPrimordial <Boolean[]>

Specifies whether to get (concrete) storage pools or primordial storage pools (which store physical disks that have yet to be added to a concrete storage pool).

To get (concrete) storage pools, specify the $False Boolean value. To get primordial pools, specify the $True Boolean value.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Name <String[]>

Specifies the name of the storage pool to get.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-OtherUsageDescription <String[]>

Gets any storage pools that match the specified OtherUsageDescription string.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-PhysicalDisk <CimInstance>

Gets the storage pool that contains the specified PhysicalDisk object. Enter a PhysicalDisk CIM object. The Physical Disk CIM object is exposed by the

Get-PhysicalDisk cmdlet.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-ResiliencySetting <CimInstance>

Gets the storage pool associated with the specified ResiliencySetting object. Enter a single ResiliencySetting CIM object as input, or pipe multiple

ResiliencySetting objects to the Get-StoragePool cmdlet to view all pools that support the specified resiliency setting. Resiliency Setting CIM objects are

exposed by the Get-ResiliencySetting cmdlet.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-StorageJob <CimInstance>

Specifies an outstanding storage job as a CimInstance object. The cmdlet gets the storage pools associated with the storage job that you specify. To obtain a

storage job, use the Get-StorageJob cmdlet.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-StorageNode <CimInstance>

Specifies a storage node as a CimInstance object. The cmdlet gets storage pools that have read-write access on the node that you specify. 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>

Accepts a StorageSubsystem object as input. The Storage Subsystem CIM object is exposed by the Get-StorageSubsystem

(https://technet.microsoft.com/library/ea364a0b-06d6-4653-b41c-be69b8038b54)cmdlet.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-StorageTier <CimInstance>

Specifies a storage tier as a CimInstance object. The cmdlet gets storage pools that contain the storage tier that you specify. To obtain a storage tier object,

use the Get-StorageTier 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 the UniqueID of the storage pool to get. If the UniqueID includes brackets, enclose the string in quotation marks.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Usage <Usage[]>

Gets any storage pools that match the specified Usage value. Acceptable values: ReservedAsDeltaReplicaContainer, ReservedForComputerSystem,

ReservedForLocalReplicationServices, ReservedForMigrationServices, ReservedForRemoteReplicationServices, ReservedForSparing, Unknown, Unrestricted, and Other

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-VirtualDisk <CimInstance>

Gets the storage pool associated with the specified virtual disk object. Enter a VirtualDisk CIM object. The Virtual Disk CIM object is exposed by the

Get-VirtualDisk cmdlet.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-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.

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_PhysicalDisk

You can use the pipeline operator to pass an MSFT_PhysicalDisk object to the PhysicalDisk parameter to get the storage pool associated with the PhysicalDisk

object.

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

You can use the pipeline operator to pass an MSFT_ResiliencySetting object to the ResiliencySetting parameter to get the storage pool associated with the

ResiliencySetting object.

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

You can use the pipeline operator to pass an MSFT_StorageNode object to the StorageNode parameter to get the storage pool associated with the StorageNode object.

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

You can use the pipeline operator to pass an MSFT_StorageSubsystem object to the StorageSubsystem parameter to get the storage pool associated with the

StorageSubsystem object.

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

You can use the pipeline operator to pass an MSFT_StorageTier object to the StorageTier parameter to get the storage pool associated with the StorageTier 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 pool associated with the VirtualDisk object.

OUTPUTS

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

The Get-StoragePool cmdlet returns objects representing storage pools.

NOTES

To reduce load times, storage providers other than the Storage Spaces provider might not perform a full discovery of objects on initial load. As a result, this

cmdlet might show an empty or incomplete listing of objects from a particular storage provider. To update the storage provider cache so that storage objects are

available from a storage provider, use the Update-StorageProviderCache * cmdlet.

* The `Microsoft.Management.Infrastructure.CimInstance` object is a wrapper class that displays Windows

Management Instrumentation (WMI) objects. The path after

the pound sign (`#`) provides the namespace and class name for the underlying WMI object.

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

---------- Example 1: Get all storage pools ----------

PS C:\>Get-StoragePool

| FriendlyName | OperationalStatus | HealthStatus | IsPrimordial | IsReadOnly |
|---|---|---|---|---|
| CompanyData | OK | Healthy | False | False |
| Primordial | OK | Healthy | True | False |

This example lists all storage pools, (when run without parameter) from all Storage Management Providers, from all storage subsystems. This list may optionally be

filtered using one or more parameters.

Example 2: Get all storage pools (not including primordial pools)

PS C:\>Get-StoragePool -IsPrimordial $False

| FriendlyName | OperationalStatus | HealthStatus | IsPrimordial | IsReadOnly |
|---|---|---|---|---|
| CompanyData | OK | Healthy | False | False |

This example lists all (concrete) storage pools, excluding primordial pools (which store physical disks that have yet to be added to a concrete storage pool).

Example 3: Get all storage pools that support the Mirror resiliency setting

PS C:\>Get-ResiliencySetting -Name Mirror | Get-StoragePool

| FriendlyName | OperationalStatus | HealthStatus | IsPrimordial | IsReadOnly |
|---|---|---|---|---|
| CompanyData | OK | Healthy | False | False |
| Primordial | OK | Healthy | True | False |

This example uses the Get-ResiliencySetting cmdlet to retrieve ResiliencySetting objects that represent each storage pool that supports the specified resiliency

setting (also known as storage layout), in this case Mirror, and then pipes the array of objects to the Get-StoragePool cmdlet.

RELATED LINKS

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

Get-Volume

New-StoragePool

Remove-StoragePool

Set-StoragePool

Get-StorageJob

Get-StorageNode

Get-StorageTier