PowerShell Get-Help on command 'Get-StoragePool'

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

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.

-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.

-FriendlyName <String[]>

Specifies the friendly name of the storage pool to get.

-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.

-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.

-Name <String[]>

Specifies the name of the storage pool to get.

-OtherUsageDescription <String[]>

Gets any storage pools that match the specified OtherUsageDescription

string.

-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.

-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.

-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.

-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.

-StorageSubSystem <CimInstance>

Accepts a StorageSubsystem object as input. The Storage Subsystem CIM

object is exposed by the Get-StorageSubsystem (https://technet.microsoft.co

m/library/ea364a0b-06d6-4653-b41c-be69b8038b54)cmdlet.

-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.

-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[]>

Specifies the UniqueID of the storage pool to get. If the UniqueID

includes brackets, enclose the string in quotation marks.

-Usage <Usage[]>

Gets any storage pools that match the specified Usage value. Acceptable

values: ReservedAsDeltaReplicaContainer, ReservedForComputerSystem,

ReservedForLocalReplicationServices, ReservedForMigrationServices,

ReservedForRemoteReplicationServices, ReservedForSparing, Unknown,

Unrestricted, and Other

-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.

-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 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.

REMARKS

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

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

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

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