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Windows PowerShell Get-Help on Cmdlet 'Set-StorageProvider'

PS:\>Get-HELP Set-StorageProvider -Full

NAME

Set-StorageProvider

SYNOPSIS

Modifies whether to enable the SMP provider cache.

SYNTAX

```
Set-StorageProvider [-AsJob] [-CimSession <CimSession[]>] -InputObject <CimInstance[]> [-PassThru]  
[-RemoteSubsystemCacheMode {Disabled | ManualDiscovery}]
```

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

```
Set-StorageProvider [-ProviderName] <String[]> [-AsJob] [-CimSession <CimSession[]>] [-PassThru]  
[-RemoteSubsystemCacheMode {Disabled | ManualDiscovery}]
```

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

```
Set-StorageProvider [-AsJob] [-CimSession <CimSession[]>] [-PassThru] -ProviderUniqueId <String[]>  
[-RemoteSubsystemCacheMode {Disabled | ManualDiscovery}]
```

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

DESCRIPTION

The Set-StorageProvider cmdlet modifies whether to enable the symmetric multiprocessing (SMP) provider cache.

Specify a value of Manual for the

RemoteSubsystemCacheMode parameter to enable caching. If you enable the cache on the management node that manages storage on remote computers or clusters, the

management node caches remote objects. This caching can improve enumeration operations, such as the Get-StoragePool cmdlet or the New-VirtualDisk cmdlet.

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

-InputObject <CimInstance[]>

Specifies the input object that is used in a pipeline command.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-PassThru [<SwitchParameter>]

Returns an object representing the item with which you are working. By default, this cmdlet does not generate any output.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-ProviderName <String[]>

Specifies an array of names of providers. The cmdlet modifies the providers that you specify.

Required? true

Position? 0

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-ProviderUniqueId <String[]>

Specifies an array of unique IDs of providers. The cmdlet modifies the providers that you specify.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-RemoteSubsystemCacheMode <RemoteSubsystemCacheMode>

Specifies the cache mode for a remote subsystem. The acceptable values for this parameter are:

- Disable

- Manual

Required? false

Position? named

Default value None

Accept pipeline input? False

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 PowerShell 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

<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_StorageProvider`

You can use the pipeline operator to pass one or more `MSFT_StorageProvider` objects to the `InputObject` parameter.

OUTPUTS

`Microsoft.Management.Infrastructure.CimInstance#ROOT/Microsoft/Windows/Storage/MSFT_StorageProvider`

If you use the `PassThru` parameter, this cmdlet outputs an object that represents the storage provider for which you changed settings

NOTES

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

----- Example 1: Enable caching for a provider -----

```
PS C:\>Set-StorageProvider -ProviderName "Provider87" -RemoteSubSystemCacheMode Manual
```

This command enables caching for a provider.

RELATED LINKS

Online

Version:

https://learn.microsoft.com/powershell/module/storage/set-storageprovider?view=windowsserver2022-ps&wt.mc_id=ps-gethelp

`Get-StoragePool`

`Get-StorageProvider`

`New-VirtualDisk`

