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### ***Windows PowerShell Get-Help on Cmdlet 'Add-NetEventVmSwitchProvider'***

**PS:\>Get-HELP Add-NetEventVmSwitchProvider -Full**

#### **NAME**

Add-NetEventVmSwitchProvider

#### **SYNOPSIS**

Creates a virtual machine switch provider for network events.

#### **SYNTAX**

```
Add-NetEventVmSwitchProvider [-SessionName] <String> [[-Level] <Byte>] [[-MatchAnyKeyword] <UInt64>]
[[[-MatchAllKeywords] <UInt64>] [[-SwitchName] <String>]
  [[-PortIds] <UInt32[]>] [-AsJob] [-CimSession <CimSession[]>] [-ThrottleLimit <Int32>] [-Confirm] [-WhatIf]
  [<CommonParameters>]
```

#### **DESCRIPTION**

The Add-NetEventVmSwitchProvider cmdlet creates a virtual machine switch provider for network events.

#### **PARAMETERS**

-AsJob []

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

#### -Level <Byte>

Specifies the level of Event Tracing for Windows (ETW) events for the provider. Use the level of detail for the event to filter the events that are logged. The

default value for this parameter is 0x4. The acceptable values for this parameter are:

- 0x5. Verbose - 0x4. Informational - 0x3. Warning - 0x2. Error - 0x1. Critical - 0x0. LogAlways

The provider must log the event if the value of the event is less than or equal to the value of this parameter.

Required? false  
Position? 1  
Default value None

Accept pipeline input? False

Accept wildcard characters? false

#### -MatchAllKeywords <UInt64>

Specifies a bitmask that restricts the events that the provider logs.

Required? false

Position? 3

Default value None

Accept pipeline input? False

Accept wildcard characters? false

#### -MatchAnyKeyword <UInt64>

Specifies keywords as a set of hexadecimal values. Keywords are flags that you can combine to generate values. Use a set of hexadecimal values of the keywords

instead of the keyword names, and apply a filter to write ETW events for keyword matches.

Required? false

Position? 2

Default value None

Accept pipeline input? False

Accept wildcard characters? false

#### -PortIds <UInt32[]>

Specifies port numbers.

Required? false

Position? 5

Default value None

Accept pipeline input? False

Accept wildcard characters? false

#### -SessionName <String>

Specifies the name of the session that is associated with the NetEventVMSwitchProvider . This parameter has the same value as the Name parameter for the

New-NetEventSession cmdlet.

Required? true

Position? 0

Default value None

Accept pipeline input? False

Accept wildcard characters? false

#### -SwitchName <String>

Specifies the switch for this virtual machine switch provider.

Required? false

Position? 4

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

Prompts you for confirmation before running the cmdlet.

Required? false  
Position? named  
Default value False  
Accept pipeline input? False  
Accept wildcard characters? false

#### -WhatIf [<SwitchParameter>]

Shows what would happen if the cmdlet runs. The cmdlet is not run.

Required? false  
Position? named  
Default value False  
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

None

## OUTPUTS

System.Object

## NOTES

----- Example 1: Add a virtual machine switch provider -----

```
New-NetEventSession -Name "Session01"
```

```
Add-NetEventVMSwitch -Name "Network Adapter 2 - Virtual Switch"
```

```
Add-NetEventVmSwitchProvider -SessionName "Session01" -SwitchName "Network Adapter 2 - Virtual Switch"
```

The first command creates a network event session named `Session01` by using the New-NetEventSession cmdlet.

The second command creates a virtual machine switch by using the Add-NetEventVMSwitch cmdlet.

The third command creates a virtual machine switch provider for the specified switch.

## RELATED LINKS

Online

Version:

[https://learn.microsoft.com/powershell/module/neteventpacketcapture/add-neteventvmswitchprovider?view=windowsserver2022-ps&wt.mc\\_id=ps-gethelp](https://learn.microsoft.com/powershell/module/neteventpacketcapture/add-neteventvmswitchprovider?view=windowsserver2022-ps&wt.mc_id=ps-gethelp)

Add-NetEventVMSwitch

Get-NetEventVmSwitchProvider

New-NetEventSession

Remove-NetEventVmSwitchProvider

Set-NetEventVmSwitchProvider