



### *Windows PowerShell Get-Help on Cmdlet 'Set-NetEventProvider'*

**PS:\>Get-HELP Set-NetEventProvider -Full**

#### NAME

Set-NetEventProvider

#### SYNOPSIS

Modifies settings for an ETW provider.

#### SYNTAX

```
Set-NetEventProvider [[-Level] <Byte>] [[-MatchAnyKeyword] <UInt64>] [[-MatchAllKeyword] <UInt64>] [-AsJob]
[-AssociatedCaptureTarget <CimInstance>] [-CimSession
<CimSession[]>] [-Confirm] [-PassThru] [-ThrottleLimit <Int32>] [-WhatIf] [<CommonParameters>]
```

```
Set-NetEventProvider [[-Level] <Byte>] [[-MatchAnyKeyword] <UInt64>] [[-MatchAllKeyword] <UInt64>] [-AsJob]
[-AssociatedEventSession <CimInstance>] [-CimSession
<CimSession[]>] [-Confirm] [-PassThru] [-ThrottleLimit <Int32>] [-WhatIf] [<CommonParameters>]
```

```
Set-NetEventProvider [[-Level] <Byte>] [[-MatchAnyKeyword] <UInt64>] [[-MatchAllKeyword] <UInt64>] [-AsJob]
[-CimSession <CimSession[]>] [-Confirm] -InputObject
<CimInstance[]> [-PassThru] [-ThrottleLimit <Int32>] [-WhatIf] [<CommonParameters>]
```

```
Set-NetEventProvider [[-Name] <String[]>] [[-Level] <Byte>] [[-MatchAnyKeyword] <UInt64>] [[-MatchAllKeyword] <UInt64>] [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-PassThru] [-ThrottleLimit <Int32>] [-WhatIf] [<CommonParameters>]
```

## DESCRIPTION

The Set-NetEventProvider cmdlet modifies settings for an Event Tracing for Windows (ETW) provider.

## 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

-AssociatedCaptureTarget <CimInstance>

Specifies the associated capture target as a CIM object. The capture target is one of the three following objects:

- MSFT\_NetEventNetworkAdapter - MSFT\_NetEventVmNetworkAdapter - MSFT\_NetEventVmSwitch To obtain a capture target, use the Get-NetEventNetworkAdapter cmdlet, the Get-NetEventVmNetworkAdapter cmdlet, or the Get-NetEventVmSwitch cmdlet.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-AssociatedEventSession <CimInstance>

Specifies the associated network event session, as a CIM object. To obtain the network event session, use the `Get-NetEventSession` cmdlet.

Required?	false
Position?	named
Default value	None
Accept pipeline input?	True (ByValue)
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

`-Confirm [<SwitchParameter>]`

Prompts you for confirmation before running the cmdlet.

Required?	false
Position?	named
Default value	False
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

**-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? 2  
Default value None  
Accept pipeline input? False  
Accept wildcard characters? false

**-MatchAllKeyword <UInt64>**

Specifies a bitmask that restricts the events that the provider logs. Set the MatchAnyKeyword parameter value to 0 (zero) to match all keywords.

Required? false  
Position? 4  
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. For more information, see CLR ETW Keywords and Levels

(<https://msdn.microsoft.com/en-us/library/ff357720.aspx>) in the Microsoft Developer Network library.

Required? false  
Position? 3  
Default value None  
Accept pipeline input? False  
Accept wildcard characters? false

**-Name <String[]>**

Specifies an array of names that identify ETW providers.

Required? false  
Position? 0  
Default value None  
Accept pipeline input? True (ByPropertyName)  
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

**-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

**-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

OUTPUTS

NOTES

----- Example 1: Modify an ETW provider -----

```
PS C:\>New-NetEventSession -SessionName "Session01"
```

```
PS C:\> Add-NetEventProvider -Name "Microsoft-Windows-TCPIP" -SessionName "Session01"
```

```
PS C:\> Set-NetEventProvider -Name "Microsoft-Windows-TCPIP" -Level 3
```

This example modifies an ETW provider.

The first command uses the `New-NetEventSession` cmdlet to create a new session named `Session01`.

The second command uses the `Add-NetEventProvider` cmdlet to add a provider named `Microsoft-Windows-TCPIP` to the session named `Session01`.

The third command modifies the logging level for the provider named `Microsoft-Windows-TCPIP`.

## RELATED LINKS

Online

Version:

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

Add-NetEventProvider

Get-NetEventProvider

New-NetEventSession

Remove-NetEventProvider

Get-NetEventNetworkAdapter

Get-NetEventVmNetworkAdapter

Get-NetEventVmSwitch

Get-NetEventSession