



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

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

### NAME

Set-NetEventWFPCaptureProvider

### SYNOPSIS

Modifies the configuration of a WFP capture provider.

### SYNTAX

```
Set-NetEventWFPCaptureProvider [[-Level] <Byte>] [[-MatchAnyKeyword] <UInt64>] [[-MatchAllKeyword] <UInt64>]
[[-CaptureLayerSet] {IPv4Inbound | IPv4Outbound |
IPv6Inbound | IPv6Outbound}] [[-IPAddresses] <String[]>] [[-TCPPorts] <UInt16[]>] [[-UDPPorts] <UInt16[]>] [-AsJob]
[-AssociatedEventSession <CimInstance>]
[-CimSession <CimSession[]>] [-Confirm] [-PassThru] [-ThrottleLimit <Int32>] [-WhatIf] [<CommonParameters>]
```

```
Set-NetEventWFPCaptureProvider [[-Level] <Byte>] [[-MatchAnyKeyword] <UInt64>] [[-MatchAllKeyword] <UInt64>]
[[-CaptureLayerSet] {IPv4Inbound | IPv4Outbound |
IPv6Inbound | IPv6Outbound}] [[-IPAddresses] <String[]>] [[-TCPPorts] <UInt16[]>] [[-UDPPorts] <UInt16[]>] [-AsJob]
[-CimSession <CimSession[]>] [-Confirm]
-InputObject <CimInstance[]> [-PassThru] [-ThrottleLimit <Int32>] [-WhatIf] [<CommonParameters>]
```

```
Set-NetEventWFPCaptureProvider [[-SessionName] <String[]>] [[-Level] <Byte>] [[-MatchAnyKeyword] <UInt64>]
[[-MatchAllKeyword] <UInt64>] [[-CaptureLayerSet]
{IPv4Inbound | IPv4Outbound | IPv6Inbound | IPv6Outbound}] [[-IPAddresses] <String[]>] [[-TCPPorts] <UInt16[]>]
[[-UDPPorts] <UInt16[]>] [-AsJob] [-CimSession
<CimSession[]>] [-Confirm] [-PassThru] [-ThrottleLimit <Int32>] [-WhatIf] [<CommonParameters>]
```

## DESCRIPTION

The Set-NetEventWFPCaptureProvider cmdlet modifies the configuration of a Windows Firewall Platform (WFP) capture provider. For more information about the

NetEventWFPCaptureProvider , see the Add-NetEventWFPCaptureProvider 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

-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

#### -CaptureLayerSet <WFPCaptureSet>

Specifies a WFP capture set, which designates the layers and directions to filter. The acceptable values for this parameter are:

- IPv4Inbound
- IPv4Outbound
- IPv6Inbound
- IPv6Outbound

You can logically OR the direction and IP layer pairs together. For instance, you could capture incoming loopback traffic from IPv6 to avoid seeing duplicate traffic received by the loopback interface.

Required?	false
Position?	3007
Default value	None
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

**-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

**-IPAddresses <String[]>**

Specifies an array of IP addresses. The provider filters for and logs network traffic that matches the IP addresses that this parameter specifies. The provider joins multiple addresses by using logical OR.

Required?           false  
Position?           3008  
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

#### -Level <Byte>

Specifies the Event Tracing for Windows (ETW) event error levels that NetEventWFPCaptureProvider returns. Use a level of detail specifier as a filter the type of

error events that are logged. The default value for this parameter is 0x4, for informational events. 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. Lower level events up to and including the specified level are logged.

Required?	false
Position?	3003
Default value	None
Accept pipeline input?	False
Accept wildcard characters?	false

#### -MatchAllKeyword <UInt64>

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

Required?	false
Position?	3005
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 hexadecimal values that enable the provider to write one or

more events for which it is instrumented, if a match is found. Use a set of hexadecimal values for keywords instead of the keyword names, and apply a filter to

write ETW events for keyword matches. For more information, see EnableTraceEx2 function

([https://msdn.microsoft.com/en-us/library/windows/desktop/dd392305\(v=vs.85\)\)](https://msdn.microsoft.com/en-us/library/windows/desktop/dd392305(v=vs.85))))in the Microsoft Developer Network library.

Required?	false
Position?	3004
Default value	None
Accept pipeline input?	False
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

#### **-SessionName <String[]>**

Specifies an array of session names that are associated with the NetEventWFPCaptureProvider . This parameter has the same value as the Name parameter for the

New-NetEventSession cmdlet.

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

#### **-TCPPorts <UInt16[]>**

Specifies an array of TCP ports. The provider filters and logs network traffic that matches the ports that this parameter specifies. The provider joins multiple

port numbers with logical OR.

Required?	false
Position?	3009
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

#### **-UDPPorts <UInt16[]>**

Specifies an array of UDP ports. The provider filters and logs network traffic that matches the ports that this parameter specifies. The provider joins multiple  
port numbers with logical OR.

Required?	false
Position?	3010
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 a WFP capture provider -----

```
PS C:\> New-NetEventSession -Name "WFPCapture" -CaptureMode RealtimeLocal -LocalFilePath
"C:\users\DavidChew\Documents\wfpdata.etl"

PS C:\> Add-NetEventWFPCaptureProvider -SessionName "WFPCapture"

PS C:\> Set-NetEventWFPCaptureProvider -SessionName "WFPCapture" -CaptureLayerSet IPv4Inbound, IPv6Inbound
-IPAddresses "127.0.0.1", "::1"

PS C:\> Start-NetEventSession -Name "WFPCapture"

PS C:\> ping 127.0.0.1

PS C:\> ping ::1
```



```
PS C:\> Stop-NetEventSession -Name "WFPCapture"
```

```
PS C:\> Remove-NetEventSession -Name "WFPCapture"
```

The first command creates a network event session by using the `New-NetEventSession` cmdlet. This command also assigns the name `WFPCapture` to the session.

The second command uses the current cmdlet to create a WFP capture provider for the session named `WFPCapture`.

The third command configures the provider for capture layer directional filtering and loopback IP addresses.

The fourth command starts the session named `WFPCapture`.

The fifth and commands use the ping utility to test the local host address in both IPv4 and IPv6. The provider should capture both of these local test connections.

The final two commands stop the session named `WFPCapture` and remove it.

## RELATED LINKS

Online

Version:

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

`Add-NetEventWFPCaptureProvider`

`Get-NetEventWFPCaptureProvider`

`Remove-NetEventWFPCaptureProvider`