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Windows PowerShell Get-Help on Cmdlet 'Add-NetEventPacketCaptureProvider'

PS:\>Get-HELP Add-NetEventPacketCaptureProvider -Full

NAME

Add-NetEventPacketCaptureProvider

#### **SYNOPSIS**

Adds a Remote Packet Capture provider.

# **SYNTAX**

Add-NetEventPacketCaptureProvider [-SessionName] <String> [[-Level] <Byte>] [[-TruncationLength] <UInt16>] [[-VmCaptureDirection] {Ingress | Egress |

IngressAndEgress}] [[-MatchAnyKeyword] <UInt64>] [[-MatchAllKeyword] <UInt64>] [[-CaptureType] {Physical | Switch | BothPhysicalAndSwitch}] [[-MultiLayer] <Boolean>]

[[-LinkLayerAddress] <String[]>] [[-EtherType] <UInt16[]>] [[-IpAddresses] <String[]>] [[-IpProtocols] <Byte[]>] [-AsJob] [-CimSession <CimSession[]>] [-Confirm]

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

### **DESCRIPTION**

The Add-NetEventPacketCaptureProvider cmdlet adds a Remote Packet Capture provider. You can only use one packet capture provider at a time and you must remove an

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existing provider before you use this cmdlet to add a new provider. To remove an existing Remote Packet Capture provider, use the Remove-NetEventPacketCaptureProvider 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

-CaptureType <CaptureType>

Specifies whether the packet capture is enabled for physical network adapters, virtual switches, or both. The acceptable values for this parameter are: The

acceptable values for this parameter are:

- Physical. Captures packets from physical network adapters. - Switch. Captures packets from the virtual machine switch(es) on Hyper-V hosts. -

BothPhysicalAndSwitch. Captures packets from both the physical network adapters and the virtual machine switch(es).

Required? false

Position? 4

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

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

# -EtherType <UInt16[]>

Specifies an array of ether types. The most common ether types and their values are IPv4 (0800), IPv6 (86DD) and ARP (0806).

Required? false

Position? 7

Default value None

Accept pipeline input? False

Accept wildcard characters? false

# -IpAddresses <String[]>

Specifies an array of IP addresses. The provider logs network traffic that matches the addresses that this cmdlet specifies. The provider joins multiple addresses

by using logical OR. Page 3/9

Required? false

Position? 8

Default value None

Accept pipeline input? False

Accept wildcard characters? false

# -IpProtocols <Byte[]>

Specifies an array of one or more IP protocols, such as TCP or UDP, on which to filter. The packet capture provider logs network traffic that matches this filter.

Required? false

Position? 9

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

Specifies an array of link layer, or Media Access Control (MAC), addresses. The packet capture provider logs network traffic that matches this filter.

Required? false

Position? 6

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? 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. For more information, see EnableTraceEx2 function

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

Required? false

Position? 2

Default value None

Accept pipeline input? False

Accept wildcard characters? false

## -MultiLayer <Boolean>

Indicates whether the capture occurs at various layers of the stack. By default, this parameter has a value of \$False.

Required? false

Position? 5

Default value None

Accept pipeline input? False

Accept wildcard characters? false

# -SessionName <String>

Specifies the name of the session associated with the packet capture provider.

Required? true

Position? 0

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 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.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

# -TruncationLength <UInt16>

Required? false

Position? 10

Default value None

Accept pipeline input? False

Accept wildcard characters? false

# -VmCaptureDirection <VmCaptureDirection>

Specifies the direction of network traffic for a virtual machine capture. The acceptable values for this parameter are:

- Ingress. Network traffic from a virtual machine to a virtual switch. - Egress. Network traffic from a virtual switch to a virtual machine.

Required? false

Position? 11

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: Add a packet capture provider	
PS C:\>New-NetEventSession -Name "Session01"	
PS C:\> Add-NetEventProvider -Name "Microsoft-Windows-TCPIP" -SessionName "Session01"	
PS C:\> Add-NetEventPacketCaptureProvider -SessionName "Session01"	
This example adds a Remote Packet Capture provider to a session.	
The first command uses the New-NetEventSession cmdlet to create a new session named Session	sion01.
The second command adds a provider named Microsoft-Windows-TCPIP to the session name Add-NetEventProvider cmdlet.	ed Session01 by using the
Add-NetEventi Tovider Gifdret.	
The third command adds a packet capture provider to the session.	
RELATED LINKS	
Online	Version:
https://learn.microsoft.com/powershell/module/neteventpacketcapture/add-neteventpacketcapture/	provider?view=windowsse
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Set-NetEventPacketCaptureProvider