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

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

NAME

Add-NetEventWFPCaptureProvider

SYNOPSIS

Creates a WFP capture provider.

SYNTAX

Add-NetEventWFPCaptureProvider [-SessionName] <String> [[-Level] <Byte>] [[-MatchAnyKeyword] <UInt64>] [[-MatchAllKeyword] <UInt64>] [[-CaptureLayerSet] {IPv4Inbound

| IPv4Outbound | IPv6Inbound | IPv6Outbound}] [[-IPAddresses] <String[]>] [[-TCPPorts] <UInt16[]>] [-AsJob] [-CimSession <CimSession[]>]

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

DESCRIPTION

The Add-NetEventWFPCaptureProvider cmdlet creates a Windows Firewall Platform (WFP) capture provider for network events. The WFP captures events directly from the

network stack. You can capture traffic in network tunnels and from the loopback adapter. Unlike a NetEventPacketCapture provider, the NetEventWFPCaptureProvider

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captures network traffic above the IP layer.

A computer typically supports only one packet capture provider. If there is an existing provider on the current computer, remove it before you run this 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

-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 locially 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? 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 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 ORs.

Required? false

Position? 5

Default value None

Accept pipeline input? False

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? 1

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? 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 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))in the Microsoft Developer Network library.

Required? false

Position? 2

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-SessionName <String>

Specifies the name of the session that is associated with the NetEventWFPCaptureProvider . 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

-TCPPorts <UInt16[]>

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

multiple port numbers with logical ORs.

Required? false Page 5/8

Position? 6

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

-UDPPorts <UInt16[]>

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

multiple port numbers with logical ORs.

Required? false

Position? 7

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 Page 6/8

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: Create 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:\> Start-NetEventSession -Name "WFPCapture" The first command creates a network event session by using the New-NetEventSession cmdlet. The 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.

RELATED LINKS

Online Version:

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Get-NetEventWFPCaptureProvider

Remove-NetEventWFPCapture Provider

Set-NetEventWFPCaptureProvider

New-NetEventSession