Windows PowerShell Get-Help on Cmdlet 'Get-NetTransportFilter'

PS:\>Get-HELP Get-NetTransportFilter -Full

NAME

   Get-NetTransportFilter

SYNOPSIS

   Gets transport filters.

SYNTAX

         Get-NetTransportFilter   [-AsJob]   [-AssociatedTCPSetting   <CimInstance>]   [-CimSession   <CimSession[]>]
[-DestinationPrefix <String[]>] [-LocalPortEnd <UInt16[]>]

     [-LocalPortStart <UInt16[]>] [-Protocol {TCP | UDP}] [-RemotePortEnd <UInt16[]>] [-RemotePortStart <UInt16[]>]
[-SettingName <String[]>] [-ThrottleLimit <Int32>]

   [<CommonParameters>]

DESCRIPTION

   The Get-NetTransportFilter cmdlet gets transport filters. A transport filter specifies the TCP settings, as a NetTcpSetting

object, to apply to an IP address prefix

   or a TCP port range. Use the cmdlet without parameters to get all transport filters for the computer.

Use the New-NetTransportFilter cmdlet to create transport filters, and use the Remove-NetTransportFilter cmdlet to remove filters.

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

-AssociatedTCPSetting <CimInstance>

Specifies a NetTCPSetting object. The cmdlet gets transport filters associated with the setting that you specify. To obtain a NetTCPSetting object, use the

Get-NetTCPSetting 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

-DestinationPrefix <String[]>

   Specifies an array of destination prefixes of IP routes. The cmdlet gets transport filters that have the prefixes that you specify. A destination prefix consists

   of an IP address prefix and a prefix length, separated by a slash (/).

   Required?   false

   Position?   named

   Default value   None

   Accept pipeline input?   False

   Accept wildcard characters? false

-LocalPortEnd <UInt16[]>

   Specifies an array of upper bounds of ranges of local TCP ports. The cmdlet removes transport filters that have the upper bounds that you specify.

   Required?   false

   Position?   named

   Default value   None

   Accept pipeline input?   False

   Accept wildcard characters? false

-LocalPortStart <UInt16[]>

   Specifies an array of lower bounds of ranges of local TCP ports. The cmdlet removes transport filters that have the lower bounds that you specify.

   Required?   false

   Position?   named

   Default value   None

Accept pipeline input?   False

Accept wildcard characters? false

-Protocol <Protocol[]>

Specifies an array of types of routing protocols. The cmdlet gets transport filters based on the protocols that you specify. The acceptable values for this

parameter are:

- Bbn

- Bgp

- Dhcp

- Dvmrp

- Egp

- Eigrp

- EsIs

- Ggp

- Hello

- Icmp

- Idpr

- Igrp

- IsIs

- Local

- NetMgmt

- Ospf

- Rip

- Rpl

- Other

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

  -RemotePortEnd <UInt16[]>

    Specifies an array of upper bounds of ranges of remote TCP ports. The cmdlet removes transport filters that have the upper bounds that you specify.

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

  -RemotePortStart <UInt16[]>

    Specifies an array of lower bounds of a ranges of remote TCP ports. The cmdlet removes transport filters that have the lower bounds that you specify.

Required?   false

Position?   named

Default value   None

Accept pipeline input?   False

Accept wildcard characters? false

  -SettingName <String[]>

      Specifies an array of setting names. The cmdlet gets transport filters that have the settings that you specify. The acceptable values for this parameter are:

      - Internet

      - Datacenter

      - Compat

      - Custom

      Required?   false

      Position?   named

      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

<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

Microsoft.Management.Infrastructure.CimInstance#root\StandardCimv2\MSFT_NetTransportFilter

The `Microsoft.Management.Infrastructure.CimInstance` object is a wrapper class that displays Windows Management

Instrumentation (WMI) objects. The path after the

pound sign (`#`) provides the namespace and class name for the underlying WMI object.

NOTES

------------- Example 1: Get all transport filters -------------

PS C:\>Get-NetTransportFilter

This command gets all the transport filters on the computer.

Example 2: Get transport filters that apply specified settings

PS C:\>Get-NetTransportFilter -SettingName Internet

This command gets transport filters that apply Internet settings.

RELATED LINKS

Online Version: https://learn.microsoft.com/powershell/module/nettcpip/get-nettransportfilter?view=windowsserver2022-ps&wt.mc_id=ps-get help

Get-NetUDPSetting

New-NetTransportFilter

Remove-NetTransportFilter

Set-NetTCPSetting

Set-NetUDPSetting