PowerShell Get-Help on command 'Get-NetAdapterQos'

PS C:\Users\wahid> Get-Help Get-NetAdapterQos

NAME

    Get-NetAdapterQos

SYNOPSIS

    Gets the QoS properties of the network adapter, specifically DCB settings.

SYNTAX

    Get-NetAdapterQos [-AsJob] [-CimSession <CimSession[]>] [-IncludeHidden]

    -InterfaceDescription <String[]> [-ThrottleLimit <Int32>] [<CommonParameters>]

    Get-NetAdapterQos [[-Name] <String[]>] [-AsJob] [-CimSession <CimSession[]>]

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

DESCRIPTION

    The Get-NetAdapterQos cmdlet gets quality of service (QoS) capabilities and

    runtime configurations of a DCB-capable network adapter. If QoS is disabled,

    then this cmdlet only gets the hardware QoS capabilities of the network

    adapter. If QoS is enabled, then this cmdlet gets the operational traffic

    class and flow control configurations in addition. If the network adapter

supports the DCB Exchange protocol and is connected to a switch that also supports the protocol, then this cmdlet can also return the QoS configurations on the switch.

If a network adapter does not support QoS, specifically DCB, then this cmdlet does not return any information.

PARAMETERS

-AsJob [<SwitchParameter>]

Runs the cmdlet as a background job. Use this parameter to run commands that take a long time to complete.   The cmdlet immediately returns an object that represents the job and then displays the command prompt. You can continue to work in the session while the job completes. To manage the job, use the `*-Job` cmdlets. To get the job results, use the Receive-Job (https://go.microsoft.com/fwlink/?LinkID=113372)cmdlet.   For more information about Windows PowerShellr background jobs, see about_Jobs (https://go.microsoft.com/fwlink/?LinkID=113251).

-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.

-IncludeHidden [<SwitchParameter>]

Indicates that the cmdlet includes both visible and hidden network adapters in the operation. By default only visible network adapters are included. If a wildcard character is used in identifying a network adapter and this parameter has been specified, then the wildcard string is matched against both hidden and visible network adapters.

-InterfaceDescription <String[]>

   Specifies an array of network adapter interface descriptions. For a

   physical network adapter this is typically the name of the vendor of the

   network adapter followed by a part number and description, such as

   `Contoso 12345 Gigabit Network Device`.

-Name <String[]>

   Specifies an array of network adapter names.

-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.

<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).

Example 1: Display hardware QoS capabilities and runtime configurations for

network adapters where QoS is enabled

PS C:\> Get-NetAdapterQos -Name "*" | Where-Object -FilterScript { $_.Enabled }

Name   : DCBADAPTER1

Enabled   : True

Capabilities   :   Hardware   Current

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MacSecBypass   : NotSupported NotSupported

DcbxSupport   : IEEE   None

NumTCs(Max/ETS/PFC) : 8/8/8   8/8/8

OperationalTrafficClasses : TC TSA   Bandwidth Priorities

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0 ETS   40 0-3,5-7

1 ETS   60 4

OperationalFlowControl   : Priority 4 Enabled

OperationalClassifications : Not Available

This command displays the hardware QoS capabilities and the runtime QoS

configurations for a network adapter on which QoS is enabled.

Example 2: Display hardware QoS capabilities for network adapters where QoS is

disabled

PS C:\> Get-NetAdapterQos -Name "*" | Where-Object -FilterScript { $_.Enabled

-Eq "False" }

Name   : DCBADAPTER1

Enabled   : False

Capabilities :   Hardware   Current

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MacSecBypass   : NotSupported NotSupported

DcbxSupport   : None   None

NumTCs(Max/ETS/PFC) : 8/8/8   0/0/0

This command displays only the hardware QoS capabilities for a network adapter

on which QoS is disabled.

REMARKS

To see the examples, type: "get-help Get-NetAdapterQos -examples".

For more information, type: "get-help Get-NetAdapterQos -detailed".

For technical information, type: "get-help Get-NetAdapterQos -full".

For online help, type: "get-help Get-NetAdapterQos -online"