Windows PowerShell Get-Help on Cmdlet 'Set-NetAdapterQos'

PS:\>Get-HELP Set-NetAdapterQos -Full

NAME

Set-NetAdapterQos

SYNOPSIS

Sets QoS properties on a network adapter.

SYNTAX

Set-NetAdapterQos [-Name] <String[]> [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-Enabled <Boolean>] [-IncludeHidden] [-NoRestart] [-PassThru] [-ThrottleLimit

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

Set-NetAdapterQos [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-Enabled <Boolean>] [-IncludeHidden] -InterfaceDescription <String[]> [-NoRestart] [-PassThru]

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

Set-NetAdapterQos [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-Enabled <Boolean>] -InputObject <CimInstance[]> [-NoRestart] [-PassThru] [-ThrottleLimit <Int32>]

[-WhatIf] [<CommonParameters>]

DESCRIPTION

The Set-NetAdapterQos cmdlet sets the quality of service (QoS) properties on a network adapter, specifically data center bridging (DCB). Currently this cmdlet only

supports enabling or disabling QoS on a network adapter. The Enable-NetAdapterQos and DisableNetAdapterQos cmdlets can also be used.

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).

Required? false

Position? named

Default value False

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

-Enabled <Boolean>

Indicates whether the QoS settings on the network adapter is enabled. Refer to the Enable-NetAdapterQos and Disable-NetAdapterQos cmdlets for more details, as

setting this parameter to True is equivalent to the Enable-NetAdapterQos cmdlet and setting this parameter to False is equivalent to the Disable-NetAdapterQos

cmdlet.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-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.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-InputObject <CimInstance[]>

Specifies the input to this cmdlet. You can use this parameter, or you can pipe the input to this cmdlet.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-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`.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Name <String[]>

Specifies an array of network adapter names.

Required? true

Position? 0

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-NoRestart [<SwitchParameter>]

Indicates that the cmdlet does not restart the network adapter after completing the operation. Many advanced properties require restarting the network adapter

before the new settings take effect.

Required? false

Position? named

Default value False

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

-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

-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

Microsoft.Management.Infrastructure.CimInstance#ROOT/StandardCimv2/MSFT_NetAdapterQosSettingData[]

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. The input object is a list of network adapter objects, such as output from

the Get-NetAdapter cmdlet.

OUTPUTS

Microsoft.Management.Infrastructure.CimInstance#ROOT/StandardCimv2/MSFT_NetAdapterQosSettingData

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. The output object contains QoS capabilities and configurations on a network

adapter. The output object is returned only when the PassThru parameter is specified.

NOTES

---- Example 1: Enable QoS on the specified network adapter ----

PS C:\> Set-NetAdapterQos -Name "DCBAdapter2" -Enabled $True

This command enables QoS on the network adapter named DCBAdapter2. The Enable-NetAdapterQos cmdlet is the preferred cmdlet to perform this operation.

--- Example 2: Disable QoS on the specified network adapter ---

PS C:\> Set-NetAdapterQos -Name "DCBAdapter2" -Enabled $False

This command disables QoS on the network adapter named DCBAdapter2. The Disable-NetAdapterQos cmdlet is the preferred cmdlet to perform this operation.

RELATED LINKS

Online Version: https://learn.microsoft.com/powershell/module/netadapter/set-netadapterqos?view=windowsserver2022-ps&wt.mc_id=ps-gethelp

Disable-NetAdapterQos

Enable-NetAdapterQos

Get-NetAdapter

Get-NetAdapterQos