Windows PowerShell Get-Help on Cmdlet 'Enable-NetAdapterRsc'

PS:\>Get-HELP Enable-NetAdapterRsc -Full

NAME

Enable-NetAdapterRsc

SYNOPSIS

Enables RSC on a network adapter.

SYNTAX

Enable-NetAdapterRsc [-Name] <String[]> [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-IPv4] [-IPv6] [-IncludeHidden] [-NoRestart] [-PassThru] [-ThrottleLimit

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

Enable-NetAdapterRsc [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-IPv4] [-IPv6] [-IncludeHidden] -InterfaceDescription <String[]> [-NoRestart] [-PassThru]

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

Enable-NetAdapterRsc [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-IPv4] [-IPv6] -InputObject <CimInstance[]> [-NoRestart] [-PassThru] [-ThrottleLimit <Int32>]

[-WhatIf] [<CommonParameters>]

DESCRIPTION

The Enable-NetAdapterRsc cmdlet enables receive segment coalescing (RSC) on a network adapter. If the IPv4 or IPv6 is specified, then both are enabled. RSC takes

multiple packets received within the same interrupt period and combines the packets into a single large package to be processed by the network stack. This reduces the

processing overhead for incoming packets and reduces the number of processor cycles that are used, leading to better scalability.

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

-IPv4 [<SwitchParameter>]

Indicates that the cmdlet affects IPv4 traffic.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-IPv6 [<SwitchParameter>]

Indicates that the cmdlet affects IPv6 traffic.

Required? false

Position? named

Default value False

Accept pipeline input? False

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_NetAdapterRscSettingData[]

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.

OUTPUTS

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

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: Enable RSC for IPv4 on the specified network adapter

PS C:\> Enable-NetAdapterRsc -Name "MyAdapter" -IPv4

This command enables RSC for IPv4 on the network adapter named MyAdapter and restarts the network adapter.

Example 2: Enable RSC for IPv4 and IPv6 on the specified network adapter

PS C:\> Enable-NetAdapterRsc -Name "MyAdapter"

This command enables RSC for both IPv4 and IPv6 on the network adapter named MyAdapter and restarts the network adapter.

Example 3: Enable RSC for IPv4 and IPv6 on all network adapters

PS C:\> Enable-NetAdapterRsc -Name "*"

This example enables RSC for IPv4 and IPv6 and all RSC capable network adapters and restarts the network adapters.

RELATED LINKS

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

Disable-NetAdapterRsc

Get-NetAdapterRsc

Set-NetAdapterRsc