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

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

NAME

Get-NetAdapterRss

SYNOPSIS

Gets RSS properties of the network adapter.

SYNTAX

Get-NetAdapterRss [-AsJob] [-CimSession <CimSession[]>] [-IncludeHidden] -InterfaceDescription <String[]> [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-NetAdapterRss [[-Name] <String[]>] [-AsJob] [-CimSession <CimSession[]>] [-IncludeHidden] [-ThrottleLimit <Int32>] [<CommonParameters>]

DESCRIPTION

The Get-NetAdapterRss cmdlet gets receive side scaling (RSS) properties of the network adapters that support RSS. RSS is a scalability technology that distributes the

receive network traffic among multiple processors by hashing the header of the incoming packet and using an indirection table. Without RSS in Windows Serverr 2012 and

later, network traffic is received on the first processor which can quickly reach full utilization limiting receive network throughput. Various properties can be

configured to optimize the performance of RSS.

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

-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

-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? false

Position? 0

Default value None

Accept pipeline input? True (ByPropertyName)

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_NetAdapterRssSettingData

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 RSS capable network adapters -------

PS C:\> Get-NetAdapterRss -Name "*"

This example gets all RSS capable network adapters.

Example 2: Get RSS properties for the specified network adapter

PS C:\> Get-NetAdapterRss -Name "MyAdapter"

This example gets the RSS properties of the network adapter named MyAdapter.

Example 3: Display all RSS properties for the specified network adapter

PS C:\> Get-NetAdapterRss -Name MyAdapter | Format-List -Property "*"

This example displays all RSS properties of the network adapter named MyAdapter.

Example 4: Get all RSS capable network adapters with RSS enabled

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

This example gets all RSS capable network adapters with RSS enabled.

RELATED LINKS

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

Disable-NetAdapterRss

Enable-NetAdapterRss

Set-NetAdapterRss