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

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

NAME

Get-NetAdapterRdma

SYNOPSIS

Gets the RDMA properties for a network adapter.

SYNTAX

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

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

DESCRIPTION

The Get-NetAdapterRdma cmdlet gets the remote direct memory access (RDMA) properties of an RDMA-capable network adapter. RDMA is a feature that enables network

adapters to transfer data directly between each other without requiring the main processor of the system to be part of that transfer. This results in lower latency

and lower processor utilization.

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 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_NetAdapterRdmaSettingData

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 RDMA properties from the specified network adapter

```
PS C:\> Get-NetAdapterRdma -Name "MyAdapter"
```

This command gets the RDMA properties from the network adapter named MyAdapter.

Example 2: Get all RDMA properties from the specified network adapter

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

This command displays all the RDMA properties from the adapter named MyAdapter.

Example 3: Get all RDMA capable network adapters that have RDMA enabled

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

This command gets all RDMA capable network adapters with RDMA enabled.

RELATED LINKS

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

Disable-NetAdapterRdma

Enable-NetAdapterRdma

Set-NetAdapterRdma