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

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

NAME

Get-NetAdapterVPort

SYNOPSIS

Displays the network adapter VPort settings for a SR-IOV or VMQ VPort.

SYNTAX

Get-NetAdapterVPort [-AsJob] [-CimSession <CimSession[]>] [-FunctionID <UInt16[]>] [-IncludeHidden] -InterfaceDescription <String[]> [-PhysicalFunction] [-SwitchID

<UInt32[]>] [-ThrottleLimit <Int32>] [-VPortID <UInt32[]>] [<CommonParameters>]

Get-NetAdapterVPort [[-Name] <String[]>] [-AsJob] [-CimSession <CimSession[]>] [-FunctionID <UInt16[]>] [-IncludeHidden] [-PhysicalFunction] [-SwitchID <UInt32[]>]

[-ThrottleLimit <Int32>] [-VPortID <UInt32[]>] [<CommonParameters>]

DESCRIPTION

The Get-NetAdapterVPort cmdlet displays the network adapter virtual port (VPort) settings for a Single-Root I/O Virtualization (SR-IOV) or virtual machine queue (VMQ)

VPort.

Without a VPort specified, this cmdlet displays all VPorts on the network adapter with the port name, number and state.

Providing a specific VPort ID will display that specific VPort in long format.

Optionally, this cmdlet displays the SR-IOV virtual function settings, if the function ID is provided.

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

-FunctionID <UInt16[]>

Specifies the ID of the SR-IOV virtual function settings to display as an array.

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

-PhysicalFunction [<SwitchParameter>]

Specifies the physical function as the network adapter for the VPort.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-SwitchID <UInt32[]>

Specifies the virtual switch ID to identify which network adapter for one or more VPorts.

Required? false

Position? named

Default value None

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

-VPortID <UInt32[]>

Specifies the virtual switch port number that is displayed in long format. Without this parameter, all VPorts or the specified range are displayed. Specifying a

VPort will display long format for a single VPort.

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_NetAdapterVPortSettingData

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: Display all VPorts on the specified network adapter

PS C:\> Get-NetAdapterVPort -Name "Ethernet 2"

This command displays all VPorts on network adapter named Ethernet 2.

Example 2: Display the VPort summary for the specified port number for the specified network adapter

PS C:\> Get-NetAdapterVPort -Name "Ethernet Connection 2" -VPortID 3

This command displays the VPort summary for VPort 3 on the network adapter named Ethernet Connection 2.

RELATED LINKS

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

Get-NetAdapterSriov

Get-NetAdapterVmq