
## *Windows PowerShell Get-Help on Cmdlet 'Get-NetAdapterSriovVf'*

***PS:\>Get-HELP Get-NetAdapterSriovVf -Full***

NAME

Get-NetAdapterSriovVf

SYNOPSIS

Displays the SR-IOV virtual function settings for a network adapter.

SYNTAX

Get-NetAdapterSriovVf [-AsJob] [-CimSession <CimSession[]>] [-FunctionID <UInt16[]>] [-IncludeHidden] -InterfaceDescription <String[]> [-SwitchID <UInt32[]>]

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

Get-NetAdapterSriovVf [[-Name] <String[]>] [-AsJob] [-CimSession <CimSession[]>] [-FunctionID <UInt16[]>] [-IncludeHidden] [-SwitchID <UInt32[]>] [-ThrottleLimit

<Int32>] [<CommonParameters>]

DESCRIPTION

The Get-NetAdapterSriovVf cmdlet displays the Single-Root I/O Virtualization (SR-IOV) virtual function settings for a network adapter. By default a table of virtual

function settings will be displayed that includes the virtual function identifier (ID), virtual function name, network adapter ID, and the current MAC address.

Specifying a single virtual function displays that virtual function in more detail. Additional displayed fields include the permanent MAC address, requester ID, and

virtual port (VPort) information.

The network adapter to use is specified by either the name of the network adapter, interface description of the network adapter, or the switch ID of the virtual

switch bound to the SR-IOV network adapter.

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 virtual function ID number on the indicated network adapter to return more detailed information on the virtual function.

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

-SwitchID <UInt32[]>

Specifies the virtual switch ID that identifies the network adapter for one or more virtual functions as an array.

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

<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_NetAdapterSriovVfSettingData

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 a list of virtual functions, virtual machines, and MAC addresses for the specified network adapter

PS C:\> Get-NetAdapterSriovVf -Name "Ethernet 1"

This command gets a list of the virtual functions with the virtual machine names and MAC addresses for the network adapter named Ethernet 1.

Example 2: Get a list of virtual functions, virtual machines, and MAC addresses for a network adapter bound to a virtual switch

```
PS C:\> Get-NetAdapterSriovVf -SwitchId 2
```

This command gets a list of the virtual functions with the virtual machine names and MAC addresses for the network adapter bound to virtual switch 2.

RELATED LINKS

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

Disable-NetAdapterSriov

Enable-NetAdapterSriov

Get-NetAdapterSriov

Set-NetAdapterSriov