



python



PowerShell

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### ***PowerShell Get-Help on command 'Enable-NetAdapterSriov'***

***PS C:\Users\wahid> Get-Help Enable-NetAdapterSriov***

#### NAME

Enable-NetAdapterSriov

#### SYNOPSIS

Enables SR-IOV on a network adapter.

#### SYNTAX

```
Enable-NetAdapterSriov [-Name] <String[]> [-AsJob] [-CimSession  
<CimSession[]>] [-Confirm] [-IncludeHidden] [-NoRestart] [-PassThru]  
[-ThrottleLimit <Int32>] [-WhatIf] [<CommonParameters>]
```

```
Enable-NetAdapterSriov [-AsJob] [-CimSession <CimSession[]>] [-Confirm]  
[-IncludeHidden] -InterfaceDescription <String[]> [-NoRestart] [-PassThru]  
[-ThrottleLimit <Int32>] [-WhatIf] [<CommonParameters>]
```

```
Enable-NetAdapterSriov [-AsJob] [-CimSession <CimSession[]>] [-Confirm]  
-InputObject <CimInstance[]> [-NoRestart] [-PassThru] [-ThrottleLimit <Int32>]  
[-WhatIf] [<CommonParameters>]
```

## DESCRIPTION

The Enable-NetAdapterSriov cmdlet enables Single-Root I/O Virtualization (SR-IOV) on a network adapter. SR-IOV enables network traffic to by-pass the software switch layer of the Hyper-V virtualization stack. As a result, the I/O overhead in the software emulation layer is diminished and can achieve network performance that is nearly the same performance as in non-virtualized environments. SR-IOV can only be used if enabled on the 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 PowerShell background jobs, see about\_Jobs (<https://go.microsoft.com/fwlink/?LinkID=113251>).

**-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.

**-Confirm** [<SwitchParameter>]

Prompts you for confirmation before running the cmdlet.

**-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.

**-InputObject <CimInstance[]>**

Specifies the input to this cmdlet. You can use this parameter, or you can pipe the input to this cmdlet.

**-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``.

**-Name <String[]>**

Specifies an array of network adapter names.

**-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.

**-PassThru [<SwitchParameter>]**

Returns an object representing the item with which you are working. By default, this cmdlet does not generate any output.

**-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 PowerShell 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.

-WhatIf [<SwitchParameter>]

Shows what would happen if the cmdlet runs. The cmdlet is not run.

<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>).

-- Example 1: Enable SR-IOV for the specified network adapter --

```
PS C:\> Enable-NetAdapterSriov -Name "Ethernet 1"
```

This command enables SR-IOV for the network adapter named Ethernet 1 and restarts the network adapter.

Example 2: Enable SR-IOV on a network adapter that has the specified description

```
PS C:\> Enable-NetAdapterSriov -InterfaceDescription "Contoso 12345 Gigabit Network Device"
```

This command enables SR-IOV for the network adapter with the description Contoso 12345 Gigabit Network Device and restarts the network adapter.

Example 3: Enable SRI-OV for the specified network adapter using the InputObject parameter

The first command gets the network adapter named Ethernet 2 and stores the result in the variable named \$NetAdapter. The second command enables SRI-OV on the network adapter stored in the \$NetAdapter variable.

```
PS C:\> $NetAdapter = Get-NetAdapter -Name "Ethernet 2"
```

```
PS C:\> Enable-NetAdapterSriov -InputObject $NetAdapter
```

This command is a version of the above cmdlet that selects the network adapter and pipes the network adapter object into this cmdlet.

```
PS C:\> Get-NetAdapter -Name "Ethernet 2" | Enable-NetAdapterSriov
```

## REMARKS

To see the examples, type: "get-help Enable-NetAdapterSriov -examples".

For more information, type: "get-help Enable-NetAdapterSriov -detailed".

For technical information, type: "get-help Enable-NetAdapterSriov -full".

For online help, type: "get-help Enable-NetAdapterSriov -online"