



## ***Windows PowerShell Get-Help on Cmdlet 'Restart-NetAdapter'***

***PS:\>Get-HELP Restart-NetAdapter -Full***

### **NAME**

Restart-NetAdapter

### **SYNOPSIS**

Restarts a network adapter by disabling and then re-enabling the network adapter.

### **SYNTAX**

Restart-NetAdapter [-Name] <String[]> [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-IncludeHidden] [-PassThru] [-ThrottleLimit <Int32>] [-WhatIf]  
[<CommonParameters>]

Restart-NetAdapter [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-IncludeHidden] -InterfaceDescription <String[]> [-PassThru] [-ThrottleLimit <Int32>] [-WhatIf]  
[<CommonParameters>]

Restart-NetAdapter [-AsJob] [-CimSession <CimSession[]>] [-Confirm] -InputObject <CimInstance[]> [-PassThru] [-ThrottleLimit <Int32>] [-WhatIf] [<CommonParameters>]

## DESCRIPTION

The Restart-NetAdapter cmdlet restarts a network adapter by disabling and then re-enabling the network adapter. This may be needed for certain properties to take effect in a physical network adapter or to put the network adapter into a known state.

## 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>).

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

#### -Confirm [<SwitchParameter>]

Prompts you for confirmation before running the cmdlet.

Required? false

Position? named

Default value False

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

#### -InputObject <CimInstance[]>

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

Required? true

Position? named

Default value None

Accept pipeline input? True (ByValue)

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? true

Position? 0

Default value None

Accept pipeline input? False

Accept wildcard characters? false

#### `-PassThru [<SwitchParameter>]`

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

Required? false

Position? named

Default value False

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 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.

Required?	false
Position?	named
Default value	None
Accept pipeline input?	False
Accept wildcard characters?	false

#### `-WhatIf [<SwitchParameter>]`

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

Required?	false
Position?	named
Default value	False
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

`Microsoft.Management.Infrastructure.CimInstance#ROOT/StandardCimv2/MSFT_NetAdapter[]`

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.

## OUTPUTS

Microsoft.Management.Infrastructure.CimInstance#ROOT/StandardCimv2/MSFT\_NetAdapter

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: Restart the specified network adapter -----

```
PS C:\> Restart-NetAdapter -Name "Ethernet 2"
```

This command shows an alternate version of the above command that uses wildcard characters.

```
PS C:\> Restart-NetAdapter -Name "E*2"
```

This command restarts the network adapter named Ethernet 2.

## RELATED LINKS

Online

Version:

[https://learn.microsoft.com/powershell/module/netadapter/restart-netadapter?view=windowsserver2022-ps&wt.mc\\_id=ps-gethelp](https://learn.microsoft.com/powershell/module/netadapter/restart-netadapter?view=windowsserver2022-ps&wt.mc_id=ps-gethelp)

Disable-NetAdapter

Enable-NetAdapter

Get-NetAdapter

Rename-NetAdapter

Set-NetAdapter