



Windows PowerShell Get-Help on Cmdlet 'Disable-NetAdapterChecksumOffload'

PS:\>Get-HELP Disable-NetAdapterChecksumOffload -Full

NAME

Disable-NetAdapterChecksumOffload

SYNOPSIS

Disables the selected checksum offloads on the network adapter.

SYNTAX

```
Disable-NetAdapterChecksumOffload [-Name] <String[]> [-AsJob] [-CimSession <CimSession[]>] [-Confirm]
[-IncludeHidden] [-IplPv4] [-NoRestart] [-PassThru] [-TcpIPv4]
```

```
[-TcpIPv6] [-ThrottleLimit <Int32>] [-UdpIPv4] [-UdpIPv6] [-WhatIf] [<CommonParameters>]
```

```
Disable-NetAdapterChecksumOffload [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-IncludeHidden]
-InterfaceDescription <String[]> [-IplPv4] [-NoRestart]
```

```
[-PassThru] [-TcpIPv4] [-TcpIPv6] [-ThrottleLimit <Int32>] [-UdpIPv4] [-UdpIPv6] [-WhatIf] [<CommonParameters>]
```

```
Disable-NetAdapterChecksumOffload [-AsJob] [-CimSession <CimSession[]>] [-Confirm] -InputObject <CimInstance[]>
[-IplPv4] [-NoRestart] [-PassThru] [-TcpIPv4]
```

```
[-TcpIPv6] [-ThrottleLimit <Int32>] [-UdpIPv4] [-UdpIPv6] [-WhatIf] [<CommonParameters>]
```

DESCRIPTION

The Disable-NetAdapterChecksumOffload cmdlet disables the selected checksum offloads on the network adapter. When specified, IPv4, TCPv4, and TCPv6 checksums can be

disabled. If none of these parameters are passed into this cmdlet, then by default all of the checksums for this adapter are disabled. Physical network adapters have

various checksum offloads in which the checksum calculations occur in the network adapter and not in the main processor. This reduces processor utilization and can

increase network throughput. This cmdlet disables the various checksum offload settings, including IPv4, TCPv4, TCPv6, UDPv4, and UDPv6. Disabling checksum offload

will also disable other stateless offloading including Receive Side Scaling (RSS), Receive Segment Coalescing (RSC) and Large Send Offload (LSO).

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

[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

-IpIPv4 [<SwitchParameter>]

Indicates that the cmdlet disables IPv4 checksum offloading.

Required?	false
Position?	named
Default value	False
Accept pipeline input?	False
Accept wildcard characters?	false

-Name <String[]>

Specifies an array of network adapter names.

Required?	true
Position?	0

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-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.

Required? false

Position? named

Default value False

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

-TcpIPv4 [<SwitchParameter>]

Indicates that the cmdlet disables TCP IPv4 checksum offloading.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

`-TcpIPv6 [<SwitchParameter>]`

Indicates that the cmdlet disables TCP IPv6 checksum offloading.

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

`-UdpIPv4 [<SwitchParameter>]`

Indicates that the cmdlet disables UDP IPv4 checksum offloading.

Required?	false
Position?	named
Default value	False
Accept pipeline input?	False
Accept wildcard characters?	false

`-UdpIPv6 [<SwitchParameter>]`

Indicates that the cmdlet disables UDP IPv6 checksum offloading.

Required?	false
Position?	named
Default value	False
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

ChecksumOffloadSettingData[]

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

ChecksumOffloadSettingData

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: Disable TCP/IPv6 checksum offload on all network adapters then restart them

```
PS C:\> Disable-NetAdapterChecksumOffload -Name "*" -TcpIPv6
```

This command disables TCP/IPv6 checksum offload on all network adapters and restarts the network adapters.

RELATED LINKS

Online

Version:

https://learn.microsoft.com/powershell/module/netadapter/disable-netadapterchecksumoffload?view=windowsserver2022-ps&wt.mc_id=ps-gethelp

Enable-NetAdapterChecksumOffload

Get-NetAdapterChecksumOffload

Set-NetAdapterChecksumOffload