



## ***Windows PowerShell Get-Help on Cmdlet 'Remove-NetRoute'***

***PS:\>Get-HELP Remove-NetRoute -Full***

### **NAME**

Remove-NetRoute

### **SYNOPSIS**

Removes IP routes from the IP routing table.

### **SYNTAX**

Remove-NetRoute [[-DestinationPrefix <String[]>] [-AddressFamily {IPv4 | IPv6}] [-AsJob] [-AssociatedIPInterface <CimInstance>] [-CimSession <CimSession[]>]

[-CompartmentId <UInt32[]>] [-Confirm] [-IncludeAllCompartments] [-InterfaceAlias <String[]>] [-InterfaceIndex <UInt32[]>] [-InterfaceMetric <UInt32[]>] [-NextHop

<String[]>] [-PassThru] [-PolicyStore <String>] [-PreferredLifetime <TimeSpan[]>] [-Protocol {Other | Local | NetMgmt | Icmp | Egp | Ggp | Hello | Rip | IsIs | EsIs |

Igrp | Bbn | Ospf | Bgp | Idpr | Eigrp | Dvmrp | Rpl | Dhcp}] [-Publish {No | Age | Yes}] [-RouteMetric <UInt16[]>] [-State <State[]>] [-ThrottleLimit <Int32>]

[-ValidLifetime <TimeSpan[]>] [-WhatIf] [<CommonParameters>]

Remove-NetRoute [-AsJob] [-CimSession <CimSession[]>] [-Confirm] -InputObject <CimInstance[]> [-PassThru] [-ThrottleLimit <Int32>] [-WhatIf] [<CommonParameters>]

## DESCRIPTION

The Remove-NetRoute cmdlet removes IP routes from the IP routing table. Run this cmdlet without any parameters to remove all IP routes from the routing table,

including default routes. You can also specify routes to remove by specifying parameters, or by using the Get-NetRoute cmdlet.

For more information about routing, see Chapter 5 - IP Routing (<https://technet.microsoft.com/library/bb727001.aspx>) in the TechNet library.

## PARAMETERS

-AddressFamily <AddressFamily[]>

Specifies an array of IP address families of IP routes. The cmdlet removes IP routes that belong to the families that you specify. The acceptable values for this parameter are:

- IPv4

- IPv6

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-AsJob [<SwitchParameter>]

Runs the cmdlet as a background job. Use this parameter to run commands that take a long time to complete.

Required? false

Position? named

Default value            False  
Accept pipeline input?    False  
Accept wildcard characters? false

**-AssociatedIPInterface <CimInstance>**

Specifies an IP interface as a CIM object. The cmdlet removes IP routes that belong to the interfaces that you specify.

To obtain an IP interface, use the

Get-NetIPInterface cmdlet.

Required?            false  
Position?            named  
Default value            None  
Accept pipeline input?    True (ByValue)  
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

**-CompartmentId <UInt32[]>**

Specifies an array of identifiers for network compartments in the protocol stack. By default, the cmdlet only removes Net routes in the default compartment. If

you specify a value, the cmdlet removes any matching Net routes in all compartments in this field.

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

**-DestinationPrefix <String[]>**

Specifies an array of destination prefixes of IP routes. The cmdlet removes IP routes that use the prefixes that you specify. A destination prefix contains an IP address prefix and a prefix length, separated by a slash (/). A value of 0.0.0.0/0 for IPv4 or ::/0 for IPv6 indicates that the value of the NextHop parameter is a default gateway.

Required?	false
Position?	0
Default value	None
Accept pipeline input?	False
Accept wildcard characters?	false

**-IncludeAllCompartments [<SwitchParameter>]**

Indicates that the cmdlet includes routes from all configured network compartments. If you do not specify this parameter, the cmdlet removes only routes in the default network compartment.

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

**-InputObject <CimInstance[]>**

Specifies the input object that is used in a pipeline command.

Required?	true
Position?	named
Default value	None
Accept pipeline input?	True (ByValue)
Accept wildcard characters?	false

**-InterfaceAlias <String[]>**

Specifies an array of aliases of network interfaces. The cmdlet removes IP routes for the interfaces that have the aliases that you specify.

Required?	false
Position?	named
Default value	None
Accept pipeline input?	True (ByPropertyName)
Accept wildcard characters?	false

**-InterfaceIndex <UInt32[]>**

Specifies an array of indexes of network interfaces. The cmdlet removes IP routes for the interfaces located at the indexes that you specify.

Required?	false
Position?	named
Default value	None
Accept pipeline input?	True (ByPropertyName)

Accept wildcard characters? false

#### **-InterfaceMetric <UInt32[]>**

Specifies an array of integer interface metrics for network interfaces. The cmdlet gets IP routes for the interfaces that have the metric that you specify.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

#### **-NextHop <String[]>**

Specifies an array of next hop values. The cmdlet removes routes that have the next hop values that you specify. A value of 0.0.0.0 for IPv4 or :: for IPv6

indicates that the route is on the local subnet.

Required? false

Position? named

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

#### `-PolicyStore <String>`

Specifies a PolicyStore value. The cmdlet removes IP routes that have the PolicyStore value that you specify. The acceptable values for this parameter are:

- ActiveStore. The IP address information is valid. - PersistentStore. The computer saves IP address information across restarts. When the computer restarts, it copies the saved settings to the ActiveStore.

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

#### `-PreferredLifetime <TimeSpan[]>`

Specifies an array of values for preferred lifetime, as TimeSpan objects, of IP routes. The cmdlet removes IP routes that have the lifetimes that you specify. To obtain a TimeSpan object, use the New-TimeSpan cmdlet. For more information, type ``Get-Help New-TimeSpan``.

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

#### `-Protocol <Protocol[]>`

Specifies an array of types of routing protocols. The cmdlet removes IP routes that use the protocols that you specify. The acceptable values for this parameter are:

- Bbn

- Bgp

- Dhcp

- Dvmrp

- Egp

- Eigrp

- EsIs

- Ggp

- Hello

- Icmp

- Idpr

- Igrp

- IsIs

- Local

- NetMgmt

- Ospf

- Rip

- Rpl



- Other

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

-Publish <Publish[]>

Specifies an array of publish settings of IP routes. The cmdlet removes IP routes that have the publish settings that you specify. The acceptable values for this parameter are:

- No. Do not publish or advertise IP route information in router advertisements. - Yes. Publish and advertise IP route information that includes an infinite valid lifetime in router advertisements - Age. Publish and advertise IP route information with a finite valid lifetime in router advertisements.

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

-RouteMetric <UInt16[]>

Specifies an array of integer route metrics for IP routes. The cmdlet removes IP routes that have the metrics that you specify. To choose among multiple routes, the computer adds this value to the interface metric value. The computer selects the route with the lowest combined value. To modify the interface metric, use the Set-NetIPInterface cmdlet.

Required?	false
Position?	named

Default value           None  
Accept pipeline input?   False  
Accept wildcard characters? false

**-State <State[]>**

Specifies an array of state values for IP routes. The cmdlet gets entries that have the state values that you specify.

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 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

**-ValidLifetime <TimeSpan[]>**

Specifies an array of values for valid lifetime, as a TimeSpan object, for IP routes. The cmdlet removes IP routes that have the lifetime that you specify. To

obtain a TimeSpan object, use the New-TimeSpan cmdlet.

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#rootStandardCimv2MSFT\_NetRoute

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

None

## NOTES

----- Example 1: Remove all routes -----

```
PS C:\>Remove-NetRoute
```

This command removes all of the IP routes on the computer, including default routes.

----- Example 2: Remove routes for a specified next hop -----

```
PS C:\>Remove-NetRoute -NextHop "192.168.0.1"
```

This command removes all of the IP routes that have a next hop of 192.168.0.1.

## RELATED LINKS

Online

Version:

[https://learn.microsoft.com/powershell/module/nettcpip/remove-netroute?view=windowsserver2022-ps&wt.mc\\_id=ps-gethel](https://learn.microsoft.com/powershell/module/nettcpip/remove-netroute?view=windowsserver2022-ps&wt.mc_id=ps-gethel)  
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Find-NetRoute

Get-NetRoute

New-NetRoute

Set-NetRoute

Get-NetIPInterface