PowerShell Get-Help on command 'Remove-NetRoute'

PS C:\Users\wahid> Get-Help Remove-NetRoute

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

-AsJob [<SwitchParameter>]

Runs the cmdlet as a background job. Use this parameter to run commands

that take a long time to complete.

-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.

-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.

-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.

-Confirm [<SwitchParameter>]

Prompts you for confirmation before running the cmdlet.

-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.

-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.

-InputObject <CimInstance[]>

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

-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.

-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.

-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.

-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.

-PassThru [<SwitchParameter>]

    Returns an object representing the item with which you are working. By

    default, this cmdlet does not generate any output.

-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.

-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`.

-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

-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.

-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.

-State <State[]>

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

-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.

-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.

-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: 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.   *Page 7/8*

REMARKS

To see the examples, type: "get-help Remove-NetRoute -examples".

For more information, type: "get-help Remove-NetRoute -detailed".

For technical information, type: "get-help Remove-NetRoute -full".

For online help, type: "get-help Remove-NetRoute -online"