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PowerShell Get-Help on command 'Find-NetRoute'

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

NAME

Find-NetRoute

SYNOPSIS

Finds the best local IP address and the best route to reach a remote address.

SYNTAX

Find-NetRoute [-AsJob] [-CimSession <CimSession[]>] [-InterfaceIndex <UInt32>]

[-LocalIPAddress <String>] -RemoteIPAddress <String> [-ThrottleLimit <Int32>]

[<CommonParameters>]

DESCRIPTION

The Find-NetRoute cmdlet finds the best local IP address and the best route to

reach a remote address. Specify the remote address to reach. You can also

specify an interface and a local address to use to reach the remote address.

For more information about routing, see Chapter 5 - IP Routing

(https://technet.microsoft.com/library/bb727001.aspx)in the TechNet library.

PARAMETERS

-AsJob [<SwitchParameter>]

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

that take a long time to complete.

-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.

-InterfaceIndex <UInt32>

Specifies an index of a network interface. The cmdlet finds a route for

this interface.

-LocalIPAddress <String>

Specifies a local IP address from which to find a route. You can specify a

host address or a subnet address. You can also use a wildcard address,

such as 0.0.0.0/0 for all IPv4 addresses, ::/0 for all IPv6 addresses, or

ANY for all addresses.

-RemoteIPAddress <String>

Specifies a remote IP address to which to find a route. You can specify a

host address or a subnet address. You can also use a wildcard address,

such as 0.0.0.0/0 for all IPv4 addresses, ::/0 for all IPv6 addresses, or

ANY for all addresses

-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 PowerShellr 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.

<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: Find a local address and route ----------

PS C:\>Find-NetRoute -RemoteIPAddress "10.79.197.200"

IPAddress   : 172.31.234.140

InterfaceIndex   : 3

InterfaceAlias   : Ethernet

AddressFamily   : IPv4

Type   : Unicast

PrefixLength   : 21

PrefixOrigin   : Dhcp

SuffixOrigin   : Dhcp

AddressState   : Preferred

ValidLifetime   : 6.00:10:40

PreferredLifetime : 6.00:10:40

SkipAsSource   : False

PolicyStore   : ActiveStore

Caption   :
Description   :
ElementName   :
InstanceID   : :8:8:8:9:55=55;A<8=;8<=<8;55;
AdminDistance   :

DestinationAddress :

IsStatic   :

RouteMetric   : 0

TypeOfRoute   : 3

AddressFamily   : IPv4

DestinationPrefix : 0.0.0.0/0

InterfaceAlias   : Ethernet

InterfaceIndex   : 3

NextHop   : 172.31.232.1

PreferredLifetime : 8.00:00:00

Protocol   : NetMgmt

Publish   : No

Store   : ActiveStore

ValidLifetime   : 8.00:00:00

PSComputerName   :

ifIndex   : 3

This command finds a NetIPAddress object and NetRoute object to use to access

the IP address 10.79.197.200. The command returns two objects. The first

object is the local IP address. The second object is the local route that

includes the selected connectivity path and next hop.

REMARKS

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

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

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

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