Windows PowerShell Get-Help on Cmdlet 'Remove-NetIPAddress'

PS:\>Get-HELP Remove-NetIPAddress -Full

NAME

    Remove-NetIPAddress

SYNOPSIS

    Removes an IP address and its configuration.

SYNTAX

    Remove-NetIPAddress [[-IPAddress] <String[]>] [-AddressFamily {IPv4 | IPv6}] [-AddressState {Invalid | Tentative | Duplicate | Deprecated | Preferred}] [-AsJob]

     [-CimSession <CimSession[]>] [-Confirm] [-DefaultGateway <String>] [-IncludeAllCompartments] [-InterfaceAlias <String[]>] [-InterfaceIndex <UInt32[]>] [-PassThru]

     [-PolicyStore <String>] [-PreferredLifetime <TimeSpan[]>] [-PrefixLength <Byte[]>] [-PrefixOrigin {Other | Manual | WellKnown | Dhcp | RouterAdvertisement}]

  [-SkipAsSource <Boolean[]>] [-SuffixOrigin {Other | Manual | WellKnown | Dhcp | Link | Random}] [-ThrottleLimit <Int32>] [-Type {Unicast | Anycast}] [-ValidLifetime

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

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

DESCRIPTION

The Remove-NetIPAddress cmdlet removes an IP address and its configuration. To remove a specific IP address object, use the IPv4 Address parameter or IPv6 Address

parameter. If you do not specify an IPv4 or IPv6 address, the cmdlet will remove all IP addresses that match.

PARAMETERS

-AddressFamily <AddressFamily[]>

Specifies an array of IP address families. The cmdlet removes the IP address that matches the families. The acceptable values for this parameter are:

-- IPv4 -- IPv6

Required?   false

Position?   named

Default value   None

Accept pipeline input?   False

Accept wildcard characters? false

-AddressState <AddressState[]>

Specifies an array of duplicate address detection (DAD) state values for the IP address. The acceptable values for this parameter are:

-- Invalid. IP address configuration information for addresses that are not valid and will not be used.   -- Tentative. IP address configuration information for

addresses that are not used for communication, as the uniqueness of those IP addresses is being verified.   -- Duplicate. IP address configuration information for

addresses for which a duplicate IP address has been detected and the current IP address will not be used.   -- Deprecated. IP address configuration information

for addresses that will no longer be used to establish new connections, but will continue to be used with existing connections.   -- Preferred. IP address

configuration information for addresses that are valid and available for use.

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

-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

  -DefaultGateway <String>

      Specifies the IPv4 address or IPv6 address of the default gateway for the host. Default gateways provide a default
route for TCP/IP hosts to use when

      communicating with other hosts on remote networks.

      Required?   false

      Position?   named

      Default value   None

      Accept pipeline input?   False

      Accept wildcard characters? false

  -IPAddress <String[]>

      Specifies an array of IPv4 or IPv6 addresses.

      Required?   false

      Position?   0

      Default value   None

      Accept pipeline input?   True (ByPropertyName)

      Accept wildcard characters? false

  -IncludeAllCompartments [<SwitchParameter>]

      Indicates that the cmdlet includes addresses from all configured network compartments. If you do not specify this
parameter, the cmdlet removes only addresses 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 addresses that match the aliases.

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 addresses that match the indexes.

Required?   false

Position?   named

Default value   None

Accept pipeline input?   True (ByPropertyName)

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 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.

The default value is ActiveStore.

Required?   false

Position?   named

Default value   None

Accept pipeline input?   False

Accept wildcard characters? false

-PreferredLifetime <TimeSpan[]>

Specifies an array of values of preferred lifetimes, as TimeSpan objects, for an IP address. 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

-PrefixLength <Byte[]>

Specifies an array of prefix lengths. This parameter defines the local subnet size, and is also known as a subnet mask.

Required?   false

Position?   named

Default value   None

Accept pipeline input?   False

Accept wildcard characters? false

-PrefixOrigin <PrefixOrigin[]>

Specifies an array of origins of address prefixes. IP addresses are divided into two parts, the prefix and the suffix. The address prefix identifies the network

portion of an IP address, and the address suffix identifies the host portion. The acceptable values for this parameter are:

-- Manual. The IP address prefix was manually specified.   -- WellKnown. The IP address prefix is from a well-known source.   -- DHCP. The IP address prefix was

provided by DHCP settings.

-- RouterAdvertisement. The IP address prefix was obtained through a router advertisement (RA).

Required?   false

Position?   named

Default value   None

Accept pipeline input?   False

Accept wildcard characters? false

-SkipAsSource <Boolean[]>

Indicates whether an address is a primary IP address. This parameter identifies the primary IP address for outgoing traffic in a multiple IP address scenario. If

this parameter is set to True, the addresses are not used for outgoing traffic and are not registered in DNS. *Page 7/11*

Required?   false

Position?   named

Default value   None

Accept pipeline input?   False

Accept wildcard characters? false

  -SuffixOrigin <SuffixOrigin[]>

     Specifies an array of origins of address suffixes. IP addresses are divided into two parts, the prefix and the suffix. The address prefix identifies the network

      portion of an IP address, and the address suffix identifies the host portion. The acceptable values for this parameter are:

      -- Manual. The IP address prefix was manually specified.   -- WellKnown. The IP address suffix is from a well-known source.   -- DHCP. The IP address suffix was

      provided by DHCP settings.   -- Link. The IP address suffix was obtained from the link-layer address.   -- Random. The IP address suffix was obtained from a

      random source.

    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 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.

Required?   false

Position?   named

Default value   None

Accept pipeline input?   False

Accept wildcard characters? false

-Type <Type[]>

Specifies an array of IP address types. The acceptable values for this parameter are:

-- Unicast -- Anycast

The default value is Unicast.

Required?   false

Position?   named

Default value   None

Accept pipeline input?   False

Accept wildcard characters? false

-ValidLifetime <TimeSpan[]>

Specifies an array of values of valid lifetimes, as TimeSpan objects, for an IP address. 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#root\StandardCimv2\MSFT_NetIPAddress

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 an IP address ---------------

PS C:\>New-NetIPAddress -InterfaceIndex 12 -IPAddress 192.168.0.1

This command removes the IP address created by the previous command.

PS C:\>Remove-NetIPAddress -IPAddress 192.168.0.1

This command adds a new IP address.

------- Example 2: Remove an IP address using a pipeline -------

PS C:\>Get-NetIPAddress -IPAddress 192.168.0.1 | Remove-NetIPAddress

This command removes all of the IP addresses with the address 192.168.0.1.

------- Example 3: Remove IP addresses by prefix origin -------

PS C:\>Remove-NetIPAddress -PrefixOrigin Manual

This command removes all of the IP addresses that have a manually-configured prefix origin.

RELATED LINKS

Online Version:
https://learn.microsoft.com/powershell/module/nettcpip/remove-netipaddress?view=windowsserver2022-ps&wt.mc_id=ps-ge

thelp

Get-NetIPAddress

New-NetIPAddress

Set-NetIPAddress