



python



PowerShell

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### **PowerShell Get-Help on command 'Set-NetIPAddress'**

**PS C:\Users\wahid> Get-Help Set-NetIPAddress**

#### NAME

Set-NetIPAddress

#### SYNOPSIS

Modifies the configuration of an IP address.

#### SYNTAX

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

```
Set-NetIPAddress [-AsJob] [-CimSession <CimSession[]> [-Confirm] -InputObject  
<CimInstance[]> [-PassThru] [-PreferredLifetime <TimeSpan> [-PrefixLength  
<Byte>] [-SkipAsSource <Boolean> [-ThrottleLimit <Int32> [-ValidLifetime
```

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

## DESCRIPTION

The Set-NetIPAddress cmdlet modifies IP address configuration properties of an existing IP address.

To create an IPv4 address or IPv6 address, use the New-NetIPAddress cmdlet.

## PARAMETERS

-AddressFamily <AddressFamily[]>

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

-- IPv4 -- IPv6

-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.

-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.

-Confirm [<SwitchParameter>]

Prompts you for confirmation before running the cmdlet.

-IPAddress <String[]>

Specifies an array of IPv4 or IPv6 addresses.

-IncludeAllCompartments [<SwitchParameter>]

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

-InterfaceIndex <UInt32[]>

Specifies an array of indexes of network interfaces. The cmdlet modifies IP addresses that match the indexes.

**-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 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. Specify ActiveStore only.

If you do not specify this parameter, the default entries are created in both the ActiveStore and the PersistentStore.

**-PreferredLifetime <TimeSpan>**

Specifies a preferred lifetime, as a TimeSpan object, for an IP address.

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

**-PrefixLength <Byte>**

Specifies a prefix length. This parameter defines the local subnet size, and is also known as a subnet mask.

**-PrefixOrigin <PrefixOrigin[]>**

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**-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 address is not

used for outgoing traffic and is not registered in DNS.

**-SuffixOrigin <SuffixOrigin[]>**

Specifies an array of origins for 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 suffix 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.

**-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.

**-Type <Type[]>**

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

-- Unicast -- Anycast

The default value is Unicast.

**-ValidLifetime <TimeSpan>**

Specifies a valid lifetime, as a TimeSpan object, for an IP address. 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: Modify an IP address -----

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

```
PS C:\> Set-NetIPAddress -InterfaceIndex 12 -IPAddress 192.168.0.1
```

```
-PrefixLength 24
```

This command adds the IP address 192.168.0.1 to the interface located at index 12.

The PrefixLength parameter may also be specified as part of the Set-NetIPAddress cmdlet.

-- Example 2: Modify an IP address and set the valid lifetime --

```
PS C:\> $Timesp = ( New-TimeSpan -Days 1 )
```

```
PS C:\> Set-NetIPAddress -InterfaceIndex 12 -IPAddress 192.168.0.1
```

```
-PreferredLifetime $Timesp
```

The first command creates a new TimeSpan object of one day, and stores it in the variable named \$Timesp.

The second command then uses the TimeSpan object to set the preferred lifetime of the IP address located at interface 12 to one day.

To see the examples, type: "get-help Set-NetIPAddress -examples".

For more information, type: "get-help Set-NetIPAddress -detailed".

For technical information, type: "get-help Set-NetIPAddress -full".

For online help, type: "get-help Set-NetIPAddress -online"