# Windows PowerShell Get-Help on Cmdlet 'Set-Net6to4Configuration'

*PS:\>Get-HELP Set-Net6to4Configuration -Full*

NAME

   Set-Net6to4Configuration

SYNOPSIS

   Sets the 6to4 configuration for both client computers and servers.

SYNTAX

   Set-Net6to4Configuration [[-State] {Default | Automatic | Enabled | Disabled}] [[-AutoSharing] {Default | Automatic | Enabled | Disabled}] [[-RelayName] <String>]

  [[-RelayState] {Default | Automatic | Enabled | Disabled}] [[-ResolutionIntervalSeconds] <UInt32>] [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-GPOSession

     <String>] [-IPInterface <CimInstance>] [-PassThru] [-PolicyStore <String>] [-ThrottleLimit <Int32>] [-WhatIf] [<CommonParameters>]


   Set-Net6to4Configuration [[-State] {Default | Automatic | Enabled | Disabled}] [[-AutoSharing] {Default | Automatic | Enabled | Disabled}] [[-RelayName] <String>]

  [[-RelayState] {Default | Automatic | Enabled | Disabled}] [[-ResolutionIntervalSeconds] <UInt32>] [-AsJob] [-CimSession <CimSession[]>] [-Confirm] -InputObject

  <CimInstance[]> [-PassThru] [-ThrottleLimit <Int32>] [-WhatIf] [<CommonParameters>]

DESCRIPTION

The Set-Net6to4Configuration cmdlet sets the 6to4 configuration of both client computers and servers.

6to4 is an address assignment and router-to-router automatic tunneling technology that is described in RFC 3056: Connection of IPv6 Domains via IPv4 Clouds

(https://go.microsoft.com/fwlink/p/?LinkId=256388). 6to4 provides a globally-routable IPv6 address to a host with a public IPv4 address. This IPv6 address can be used

to connect to other 6to4 hosts or the IPv6 Internet.

This cmdlet is similar in functionality to the `netsh interface 6to4 context` command.

PARAMETERS

-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

-AutoSharing <State>

Determines if 6to4 prefixes are forwarded when Internet Connection Sharing (ICS) is enabled. By default, 6to4 prefixes are forwarded.

Required?                 false

Position?                 2

Default value            None

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

-GPOSession <String>

Specifies the Group Policy session in which to store the 6to4 configuration information.

You can use this parameter with the NetGPO cmdlets to aggregate multiple operations performed on a Group Policy Object (GPO).

You cannot use this parameter with the PolicyStore parameter.

Required?              false

Position?              named

Default value          None

Accept pipeline input?     False

Accept wildcard characters?  false


-IPInterface <CimInstance>

Specifies the IP interface on which to set the 6to4 configuration.


Required?              false

Position?              named

Default value          None

Accept pipeline input?     True (ByValue)

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


-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 the policy store that contains the configuration to set. The acceptable values for this parameter are:

- PersistentStore

- ActiveStore

- GPO

To set the configuration of a GPO, specify the GPO name using the following format: `Domain\GPOName`

You cannot use this parameter with the GPOSession parameter.

Required?               false

Position?               named

Default value           None

Accept pipeline input?     False

Accept wildcard characters?  false

-RelayName <String>

Specifies a 6to4 relay name. If 6to4 connectivity is not available on the computer, the relay name setting has no effect.

Required?               false

Position?               3

Default value           None

Accept pipeline input?     False

Accept wildcard characters?  false

-RelayState <State>

Configures the 6to4 relay state. The acceptable values for this parameter are:

- Default. If the host has link-local only IPv6 connectivity and a public IPv4 address, then 6to4 is enabled. If there is no

global IPv6 address present and no

global IPv4 address present, then the host does not have a 6to4 interface. If there is no global IPv6 address present but there is a global IPv4 address present,

then the host has a 6to4 interface.  - Enabled. If there is a global IPv4 address present, then the host has a 6to4 interface. If there is no global IPv4 address

present, then the host does not have a 6to4 interface.  - Disabled. 6to4 is turned off and connectivity with 6to4 is not available.  - Automatic.


    Required?              false

    Position?              4

    Default value          None

    Accept pipeline input?      False

    Accept wildcard characters?  false


  -ResolutionIntervalSeconds <UInt32>

    Specifies the frequency for resolving the relay name. The 6to4 relay name resolution interval setting has no effect if there is no 6to4 connectivity available on

    the host.


    Required?              false

    Position?              5

    Default value          None

    Accept pipeline input?      False

    Accept wildcard characters?  false


  -State <State>

    Specifies the state behavior of 6to4. The acceptable values for this parameter are:


    - Default. If the host has link-local only IPv6 connectivity and a public IPv4 address, then 6to4 is enabled. If there is no global IPv6 address present and no

global IPv4 address present, then the host does not have a 6to4 interface. If there is no global IPv6 address present but there is a global IPv4 address present,

then the host has a 6to4 interface.  - Enabled. If there is a global IPv4 address present, then the host has a 6to4 interface. If there is no global IPv4 address

present, then the host does not have a 6to4 interface. - Disabled. 6to4 is turned off and connectivity with 6to4 is not available. - Automatic.

    Required?                  false

    Position?                  1

    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


 -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

None

This cmdlet accepts no input objects.

## OUTPUTS

Microsoft.Management.Infrastructure.CimInstance#root\StandardCimv2\MSFT_Net6to4Configuration

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.

When the Passthru parameter is specified, this cmdlet outputs a modified 6to4 configuration object.

## NOTES

--- Example 1: Modify the relay name on the persistent store ---

PS C:\>Set-Net6to4Configuration -RelayName "my6to4relay.com"

This command sets the relay name to my6to4relay.com for 6to4 connectivity on the local persistent store.

## RELATED LINKS

Online                                    Version:

https://learn.microsoft.com/powershell/module/networktransition/set-net6to4configuration?view=windowsserver2022-ps&wt.

mc_id=ps-gethelp

Get-Net6to4Configuration

Reset-Net6to4Configuration