Windows PowerShell Get-Help on Cmdlet 'Set-NetNatTransitionConfiguration'

PS:\>Get-HELP Set-NetNatTransitionConfiguration -Full

NAME

   Set-NetNatTransitionConfiguration

SYNOPSIS

   Sets the NAT64 configuration on a computer.

SYNTAX

     Set-NetNatTransitionConfiguration [-Adapter <CimInstance>] [-AsJob] [-CimSession <CimSession[]>] [-Confirm]
[-IPv4AddressPortPool <String[]>] [-InboundInterface

     <String[]>] [-InstanceName <String[]>] [-OutboundInterface <String[]>] [-PassThru] [-PolicyStore {PersistentStore |
ActiveStore}] [-PrefixMapping <String[]>] [-State

   {Disabled | Enabled}] [-TcpMappingTimeoutSeconds <UInt32>] [-ThrottleLimit <Int32>] [-WhatIf] [<CommonParameters>]

     Set-NetNatTransitionConfiguration [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-IPv4AddressPortPool <String[]>]
[-InboundInterface <String[]>] -InputObject

     <CimInstance[]> [-OutboundInterface <String[]>] [-PassThru] [-PrefixMapping <String[]>] [-State {Disabled | Enabled}]
[-TcpMappingTimeoutSeconds <UInt32>]

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

DESCRIPTION

The Set-NetNatTransitionConfiguration cmdlet sets the NAT64 configuration on a computer.

PARAMETERS

-Adapter <CimInstance>

Specifies the network adapter on which to apply the NAT64 configuration.

Required?   false

Position?   named

Default value   None

Accept pipeline input?   True (ByValue)

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

-IPv4AddressPortPool <String[]>

Specifies the list of IPv4 address and port ranges to be used by NAT64 for creating the mappings from the IPv6 source address to the IPv4 target address. The

format   is   a   comma-separated   list   of   <IPv4   address,Lowport-Highport>.   Such   as `"10.0.0.2,1024-3388","10.0.0.2,4000-49023"`. The port value must be between 1024 and

65535. The wildcard character ( ) can be specified to use the whole port range, such as `10.0.0.1, `.

Required?   false

Position?   named

Default value   None

Accept pipeline input?   False

Accept wildcard characters? false

-InboundInterface <String[]>

Sets the interface on which the NAT64 is listening for the matching incoming IPv6 traffic.

Required?   false

Position?   named

Default value   None

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

-InstanceName <String[]>

Specifies the instance of the NAT64 which is being configured.

Required?   false

Position?   named

Default value   None

Accept pipeline input?   True (ByPropertyName)

Accept wildcard characters? false

-OutboundInterface <String[]>

Sets the interface on which the NAT64 sends the translated IPv4 traffic.

Required?   false

Position?   named

Default value   None

Accept pipeline input?   False

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 <PolicyStore[]>

      Specifies to which policy store the NAT64 configuration is applied. The acceptable values for this parameter are: Persistent and Active. If this parameter is not

      specified, then the cmdlet operates on both active and persistent stores.

      Required?   false

      Position?   named

      Default value   None

      Accept pipeline input?   True (ByPropertyName)

      Accept wildcard characters? false

  -PrefixMapping <String[]>

      Sets the list of IPv6 address ranges to be translated by the NAT64. The format is a comma-separated list of <IPv6 prefix,IPv4 subnet>. Such as

      `"69:FF9B::/96,0.0.0.0/0","66:FF9B::/96,192.2.0.0/8"`.

      Required?   false

      Position?   named

      Default value   None

      Accept pipeline input?   False

      Accept wildcard characters? false

  -State <State>

      Sets the enabled state of the NAT64 configuration.

      Required?   false

      Position?   named

Default value   None

Accept pipeline input?   False

Accept wildcard characters? false

-TcpMappingTimeoutSeconds <UInt32>

Specifies the lifetime for a TCP mapping after which it is released by the NAT64. The minimum value is 1800 seconds.

The default value is 7200 seconds.

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

-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

OUTPUTS

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

    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.

NOTES

    ------------ Example 1: Set the NAT64 configuration ------------

  PS C:\>$nat64Prefix = "2009:1:2:3:4:5::/96"

  PS C:\> $prefixMapping = "$nat64Prefix,0.0.0.0/0"

  PS C:\> $portPool = "33.0.0.1,6000-10000"

    PS C:\> Set-NetNatTransitionConfiguration -InstanceName "NAT64" OutboundInterface "corpnet" -PrefixMapping
$prefixMapping -IPv4AddressPortPool $portPool

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This command sets the NAT64 configuration for the instance named NAT64.

RELATED LINKS

Disable-NetNatTransitionConfiguration

Enable-NetNatTransitionConfiguration

Get-NetNatTransitionConfiguration

Get-NetNatTransitionMonitoring

New-NetNatTransitionConfiguration

Remove-NetNatTransitionConfiguration