Windows PowerShell Get-Help on Cmdlet 'Add-NetNatExternalAddress'

PS:\>Get-HELP Add-NetNatExternalAddress -Full

NAME

   Add-NetNatExternalAddress

SYNOPSIS

   Adds an external address to a NAT instance.

SYNTAX

   Add-NetNatExternalAddress [-NatName] <String> [-AsJob] [-CimSession <CimSession[]>] [-Confirm] -IPAddress <String>

[-PortEnd <UInt16>] [-PortStart <UInt16>]

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

DESCRIPTION

   The Add-NetNatExternalAddress cmdlet adds an external address to a network address translation (NAT) instance.

PARAMETERS

   -AsJob [<SwitchParameter>]

      Runs the cmdlet as a background job. Use this parameter to run commands that take a long time to complete.

The cmdlet immediately returns an object that represents the job and then displays the command prompt. You can continue to work in the session while the job

completes. To manage the job, use the `*-Job` cmdlets. To get the job results, use the Receive-Job (https://go.microsoft.com/fwlink/?LinkID=113372)cmdlet.

For more information about Windows PowerShell background jobs, see about_Jobs (https://go.microsoft.com/fwlink/?LinkID=113251).

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

-IPAddress <String>

Specifies an external IP address for a NAT, as a string.

Required?   true

Position?   named

Default value   None

Accept pipeline input?   False

Accept wildcard characters? false

-NatName <String>

Specifies the name for the NAT instance, as a string.

Required?   true

Position?   0

Default value   None

Accept pipeline input?   False

Accept wildcard characters? false

-PortEnd <UInt16>

 Specifies the high end of a dynamic port range from which to pick a port for a NAT session. Choose a port number that is greater than the PortStart parameter from

   the available ports. NAT associates a port number with an external address to identify the mapping between an internal network and an external network.

Required?   false

Position?   named

Default value   None

Accept pipeline input?   False

Accept wildcard characters? false

-PortStart <UInt16>

Specifies the low end of a dynamic port range from which to pick a port for a NAT session. Choose a port number that is less than the PortEnd parameter from the

available ports. NAT associates a port number with an external address to identify the mapping between an internal network and an external network.

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_NetNatExternalAddress

NOTES

-------------- Example 1: Add an external address --------------

PS C:\> Add-NetNatExternalAddress -IPAddress "a.b.c.0/24"

This command adds the external address 10.20.30.120 to a NAT. This example uses the placeholder a.b.c.0/24 to represent a public Internet address prefix.

----- Example 2: Add an external address and a port range -----

PS C:\> Add-NetNatExternalAddress -IPAddress "a.b.c.0/24" -PortEnd 19999 -PortStart 10000

This command adds an external address to a specified NAT, and specifies a range of ports to use for outbound connections. This example uses the placeholder a.b.c.0/24

to represent a public Internet address prefix.

RELATED LINKS

Online Version: https://learn.microsoft.com/powershell/module/netnat/add-netnatexternaladdress?view=windowsserver2022-ps&wt.mc_id=ps-gethelp

Get-NetNatExternalAddress

Remove-NetNatExternalAddress