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PowerShell

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PowerShell Get-Help on command 'Add-NetNatExternalAddress'

PS C:\Users\wahid> Get-Help Add-NetNatExternalAddress

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>).

`-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 external IP address for a NAT, as a string.

`-NatName <String>`

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

`-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.

-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.

-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.

-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: 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.

REMARKS

To see the examples, type: "get-help Add-NetNatExternalAddress -examples".

For more information, type: "get-help Add-NetNatExternalAddress -detailed".

For technical information, type: "get-help Add-NetNatExternalAddress -full".

For online help, type: "get-help Add-NetNatExternalAddress -online"