



Windows PowerShell Get-Help on Cmdlet 'New-NetNat'

PS:\>Get-HELP New-NetNat -Full

NAME

New-NetNat

SYNOPSIS

Creates a NAT object.

SYNTAX

```
New-NetNat [-Name] <String> [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-ExternalIPInterfaceAddressPrefix  
<String>] [-InternalIPInterfaceAddressPrefix <String>]  
[-InternalRoutingDomainId <String>] [-ThrottleLimit <Int32>] [-WhatIf] [<CommonParameters>]
```

DESCRIPTION

The New-NetNat cmdlet creates a Network Address Translation (NAT) object that translates an internal network address to an external network address. NAT modifies IP address and port information in packet headers.

You can modify some settings by using the Set-NetNat cmdlet.

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

-ExternalIPInterfaceAddressPrefix <String>

Specifies the address prefix of the external interface, which connects the NAT to the external network.

Required?	false
Position?	named
Default value	None
Accept pipeline input?	False
Accept wildcard characters?	false

-InternalIPInterfaceAddressPrefix <String>

Specifies the address prefix of the internal interface, which connects the NAT to the internal network.

Required?	false
Position?	named
Default value	None
Accept pipeline input?	False
Accept wildcard characters?	false

-InternalRoutingDomainId <String>

Specifies the GUID of the routing domain of the internal interface.

Required?	false
Position?	named
Default value	None
Accept pipeline input?	False

Accept wildcard characters? false

-Name <String>

Specifies a name for the NAT object.

Required? true

Position? 0

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 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.

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 \(https://go.microsoft.com/fwlink/?LinkID=113216\)](https://go.microsoft.com/fwlink/?LinkID=113216).

INPUTS

None

OUTPUTS

Microsoft.Management.Infrastructure.CimInstance#ROOT/StandardCimv2/MSFT_NetNat

NOTES

----- Example 1: Create a NAT object for a routing domain -----

```
PS C:\> New-NetNat -Name "TSQATenant" -ExternalIPInterfaceAddressPrefix "a.b.c.0/24" -InternalRoutingDomainId "{bb47986c-f134-4a29-ad87-24010bf2c92f}"
```

This command creates a NAT object named TSQATenant. The command specifies an IP interface address and internal routing domain for TSQATenant. This example uses the placeholder a.b.c.0/24 to represent a public Internet address prefix.

Example 2: Create a NAT object for all the computers on a subnet

```
PS C:\> New-NetNat -Name "AllTenants" -ExternalIPInterfaceAddressPrefix "a.b.c.0/24"
```

This command creates a NAT object named AllTenants for all the computers in the specified subnet. 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/new-netnat?view=windowsserver2022-ps&wt.mc_id=ps-gethelp

Get-NetNat

Remove-NetNat

Set-NetNat