PowerShell Get-Help on command 'Add-NetNatStaticMapping'

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

NAME

    Add-NetNatStaticMapping

SYNOPSIS

    Adds a static mapping to a NAT instance.

SYNTAX

    Add-NetNatStaticMapping [-NatName] <String> [-AsJob] [-CimSession

    <CimSession[]>] [-Confirm] -ExternalIPAddress <String> -ExternalPort <UInt16>

    -InternalIPAddress <String> [-InternalPort <UInt16>] [-InternalRoutingDomainId

    <String>] -Protocol {TCP | UDP} [-RemoteExternalIPAddressPrefix <String>]

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

DESCRIPTION

    The Add-NetNatStaticMapping cmdlet adds a static mapping to a network address

    translation (NAT) instance. A static mapping enables an incoming connection

    from an external network to access a host on an internal network through the

    NAT.

You can use NAT to share a connection to the public Internet through a single interface with a single public IP address. The computers on the private network use private, non-routable addresses. NAT maps the private addresses to the public address.

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.

-ExternalIPAddress <String>

Specifies the external IP address to which an incoming connection is addressed. This parameter specifies the destination IP address in the

incoming packet.

-ExternalPort <UInt16>

   Specifies the external port to which an incoming connection is sent. This

   parameter specifies the destination port in the incoming TCP or UDP

   packets.

-InternalIPAddress <String>

   Specifies the IP address to which the packets from a remote machine in the

   external network are addressed.

-InternalPort <UInt16>

   Specifies the internal port to which the packets from a remote machine in

   the external network are sent. If you do not specify this parameter, NAT

   uses the port that you specify for the ExternalPort parameter for the

   internal port.

-InternalRoutingDomainId <String>

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

-NatName <String>

   Specifies the name of the NAT instance.

-Protocol <Protocol>

   Specifies the network protocol of the client computer in the internal

   network. The acceptable values for this parameter are:

   - TCP

   - UDP

-RemoteExternalIPAddressPrefix <String>

   Specifies the IP address prefix of the remote computer on the 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 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.

-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 a static mapping to a NAT instance ------

PS C:\> Add-NetNatStaticMapping -ExternalIPAddress "a.b.c.0/24" -ExternalPort

80 -InternalIPAddress "192.0.02.179" -InternalPort 8080

-InternalRoutingDomainId "{12345678-0000-0000-0000-123456789012}"

This command adds a static mapping to a NAT instance. The command specifies

that NAT maps the external IP address to the internal IP address 192.0.02.179.

The command specifies that the NAT maps the destination port 80 of the

Internet resource to the source application port 8080. The command specifies

that the tenant compartment that has the ID TSQATenant contains the internal

address and internal port. 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-NetNatStaticMapping -examples".

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

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

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