



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

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

WARNING: The names of some imported commands from the module 'Microsoft.Azure.PowerShell.Cmdlets.Network' include unapproved verbs that might make them less discoverable.

To find the commands with unapproved verbs, run the Import-Module command again with the Verbose parameter. For a list of approved verbs, type Get-Verb.

NAME

New-AzNetworkSecurityGroup

SYNOPSIS

Creates a network security group.

SYNTAX

```
New-AzNetworkSecurityGroup [-AsJob] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-FlushConnection]
[-Force] -Location <System.String> -Name <System.String> -ResourceGroupName <System.String> [-SecurityRules
<Microsoft.Azure.Commands.Network.Models.PSSecurityRule[]>] [-Tag <System.Collections.Hashtable>] [-Confirm]
[-WhatIf] [<CommonParameters>]
```

DESCRIPTION

The New-AzNetworkSecurityGroup cmdlet creates an Azure network security group.

PARAMETERS

-AsJob <System.Management.Automation.SwitchParameter>

Run cmdlet in the background

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>

The credentials, account, tenant, and subscription used for communication with azure.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-FlushConnection <System.Management.Automation.SwitchParameter>

When enabled, flows created from Network Security Group connections will be re-evaluated when rules are updated.

Initial enablement will trigger re-evaluation

Required? false

Position? named

Default value False

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Force <System.Management.Automation.SwitchParameter>

Forces the command to run without asking for user confirmation.

Required?	false
Position?	named
Default value	False
Accept pipeline input?	False
Accept wildcard characters?	false

-Location <System.String>

Specifies the region for which to create a network security group.

Required?	true
Position?	named
Default value	None
Accept pipeline input?	True (ByPropertyName)
Accept wildcard characters?	false

-Name <System.String>

Specifies the name of the network security group to create.

Required?	true
Position?	named
Default value	None
Accept pipeline input?	True (ByPropertyName)
Accept wildcard characters?	false

-ResourceGroupName <System.String>

Specifies the name of a resource group. This cmdlet creates a network security group in the resource group that this parameter specifies.

Required?	true
Position?	named
Default value	None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-SecurityRules <Microsoft.Azure.Commands.Network.Models.PSSecurityRule[]>

Specifies a list of network security rule objects to create in a network security group.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Tag <System.Collections.Hashtable>

Key-value pairs in the form of a hash table. For example: @{key0="value0";key1=\$null;key2="value2"}

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Confirm <System.Management.Automation.SwitchParameter>

Prompts you for confirmation before running the cmdlet.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-WhatIf <System.Management.Automation.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

System.String

Microsoft.Azure.Commands.Network.Models.PSSecurityRule[]

System.Collections.Hashtable

OUTPUTS

Microsoft.Azure.Commands.Network.Models.PSNetworkSecurityGroup

NOTES

----- Example 1: Create a new network security group -----

```
New-AzNetworkSecurityGroup -Name "nsg1" -ResourceGroupName "rg1" -Location "westus"
```

This command creates a new Azure network security group named "nsg1" in resource group "rg1" in location "westus".

----- Example 2: Create a detailed network security group -----

```
$rule1 = New-AzNetworkSecurityRuleConfig -Name rdp-rule -Description "Allow RDP" `
-Access Allow -Protocol Tcp -Direction Inbound -Priority 100 -SourceAddressPrefix `
Internet -SourcePortRange * -DestinationAddressPrefix * -DestinationPortRange 3389
```

```
$rule2 = New-AzNetworkSecurityRuleConfig -Name web-rule -Description "Allow HTTP" `
-Access Allow -Protocol Tcp -Direction Inbound -Priority 101 -SourceAddressPrefix `
Internet -SourcePortRange * -DestinationAddressPrefix * -DestinationPortRange 80
```

```
$nsg = New-AzNetworkSecurityGroup -ResourceGroupName TestRG -Location westus -Name `
"NSG-FrontEnd" -SecurityRules $rule1,$rule2
```

Step:1 Create a security rule allowing access from the Internet to port 3389.
 Step:2 Create a security rule allowing access from the Internet to port 80.

Step:3 Add the rules created above to a new NSG named NSG-FrontEnd.

Example 3: Create a new network security group with flush connection

```
New-AzNetworkSecurityGroup -Name "nsg1" -ResourceGroupName "rg1" -Location "westus" -FlushConnection
```

This command creates a new Azure network security group named "nsg1" in resource group "rg1" in location "westus" and enables flushing of connection.

RELATED LINKS

Online Version: <https://learn.microsoft.com/powershell/module/az.network/new-aznetworksecuritygroup>

[Get-AzNetworkSecurityGroup](#)

[Remove-AzNetworkSecurityGroup](#)

[Set-AzNetworkSecurityGroup](#)