



Windows PowerShell Get-Help on Cmdlet 'Set-AzVirtualNetworkSubnetConfig'

PS: \>Get-HELP Set-AzVirtualNetworkSubnetConfig -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

Set-AzVirtualNetworkSubnetConfig

SYNOPSIS

Updates a subnet configuration for a virtual network.

SYNTAX

```
Set-AzVirtualNetworkSubnetConfig -AddressPrefix <System.String[]> [-DefaultProfile
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-Delegation
    <Microsoft.Azure.Commands.Network.Models.PSDelegation[]>]
    [-InputObject <Microsoft.Azure.Commands.Network.Models.PSNatGateway>] [-IpAllocation
    <Microsoft.Azure.Commands.Network.Models.PSIpAllocation[]>] -Name <System.String>
    [-NetworkSecurityGroup <Microsoft.Azure.Commands.Network.Models.PSNetworkSecurityGroup>]
    [-PrivateEndpointNetworkPoliciesFlag <System.String>]
    [-PrivateLinkServiceNetworkPoliciesFlag <System.String>] [-RouteTable
```

```

<Microsoft.Azure.Commands.Network.Models.PSRouteTable>] [-ServiceEndpoint <System.String[]>]
[-ServiceEndpointPolicy <Microsoft.Azure.Commands.Network.Models.PSServiceEndpointPolicy[]>] -VirtualNetwork
<Microsoft.Azure.Commands.Network.Models.PSVirtualNetwork> [<CommonParameters>]

Set-AzVirtualNetworkSubnetConfig -AddressPrefix <System.String[]> [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-Delegation
<Microsoft.Azure.Commands.Network.Models.PSDelegation[]>]
[-IpAllocation <Microsoft.Azure.Commands.Network.Models.PSIpAllocation[]>] -Name <System.String>
[-NetworkSecurityGroupId <System.String>]
[-PrivateEndpointNetworkPoliciesFlag <System.String>] [-PrivateLinkServiceNetworkPoliciesFlag <System.String>]
[-ResourceId <System.String>] [-RouteTableId
<System.String>] [-ServiceEndpoint <System.String[]>] [-ServiceEndpointPolicy
<Microsoft.Azure.Commands.Network.Models.PSServiceEndpointPolicy[]>] -VirtualNetwork
<Microsoft.Azure.Commands.Network.Models.PSVirtualNetwork> [<CommonParameters>]

```

DESCRIPTION

The Set-AzVirtualNetworkSubnetConfig cmdlet updates a subnet configuration for a virtual network.

PARAMETERS

-AddressPrefix <System.String[]>

Specifies a range of IP addresses for a subnet configuration.

Required? true

Position? named

Default value None

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

-Delegation <Microsoft.Azure.Commands.Network.Models.PSDelegation[]>

List of services that have permission to perform operations on this subnet.

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

-InputObject <Microsoft.Azure.Commands.Network.Models.PSNatGateway>

Specifies the nat gateway associated with the subnet configuration.

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

-IpAllocation <Microsoft.Azure.Commands.Network.Models.PSIpAllocation[]>

Specifies IpAllocations for a subnet.

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

-Name <System.String>

Specifies the name of a subnet configuration that this cmdlet configures.

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-NetworkSecurityGroup <Microsoft.Azure.Commands.Network.Models.PSNetworkSecurityGroup>

Specifies a NetworkSecurityGroup object.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-NetworkSecurityGroupId <System.String>

Specifies the ID of a network security group.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-PrivateEndpointNetworkPoliciesFlag <System.String>

Configure to enable or disable applying network policies on private endpoint in the subnet.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-PrivateLinkServiceNetworkPoliciesFlag <System.String>

Configure to enable or disable applying network policies on private link service in the subnet.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-ResourceId <System.String>

Specifies the Id of NAT Gateway resource associated with the subnet configuration.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-RouteTable <Microsoft.Azure.Commands.Network.Models.PSRouteTable>

Specifies the route table object that is associated with the network security group.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-RouteTableId <System.String>

Specifies the ID of the route table object that is associated with the network security group.

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

-ServiceEndpoint <System.String[]>

Service Endpoint Value

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

-ServiceEndpointPolicy <Microsoft.Azure.Commands.Network.Models.PSServiceEndpointPolicy[]>

Service Endpoint Policies

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

-VirtualNetwork <Microsoft.Azure.Commands.Network.Models.PSVirtualNetwork>

Specifies the VirtualNetwork object that contains the subnet configuration.

Required? true
Position? named
Default value None
Accept pipeline input? True (ByValue)
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

Microsoft.Azure.Commands.Network.Models.PSVirtualNetwork

System.String

Microsoft.Azure.Commands.Network.Models.PSNetworkSecurityGroup

Microsoft.Azure.Commands.Network.Models.PSRouteTable

System.String[]

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

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

OUTPUTS

Microsoft.Azure.Commands.Network.Models.PSVirtualNetwork

NOTES

----- 1: Modify the address prefix of a subnet -----

```
New-AzResourceGroup -Name TestResourceGroup -Location centralus
```

```
$frontendSubnet = New-AzVirtualNetworkSubnetConfig -Name frontendSubnet -AddressPrefix "10.0.1.0/24"
```

```
$virtualNetwork = New-AzVirtualNetwork -Name MyVirtualNetwork -ResourceGroupName TestResourceGroup -Location  
centralus -AddressPrefix "10.0.0.0/16" -Subnet
```

```
$frontendSubnet
```

```
Set-AzVirtualNetworkSubnetConfig -Name frontendSubnet -VirtualNetwork $virtualNetwork -AddressPrefix "10.0.3.0/23"
```

```
$virtualNetwork | Set-AzVirtualNetwork
```

This example creates a virtual network with one subnet. Then it calls `Set-AzVirtualNetworkSubnetConfig` to modify the AddressPrefix of the subnet. This only

impacts the in-memory representation of the virtual network. `Set-AzVirtualNetwork` is then called to modify the virtual network in Azure.

----- 2: Add a network security group to a subnet -----

```
New-AzResourceGroup -Name TestResourceGroup -Location centralus
```

```
$frontendSubnet = New-AzVirtualNetworkSubnetConfig -Name frontendSubnet -AddressPrefix "10.0.1.0/24"
```

```
$virtualNetwork = New-AzVirtualNetwork -Name MyVirtualNetwork -ResourceGroupName TestResourceGroup -Location
```

centralus -AddressPrefix "10.0.0.0/16" -Subnet

\$frontendSubnet

\$rdpRule = New-AzNetworkSecurityRuleConfig -Name rdp-rule -Description "Allow RDP" -Access Allow -Protocol Tcp
-Direction Inbound -Priority 100 -SourceAddressPrefix

Internet -SourcePortRange * -DestinationAddressPrefix * -DestinationPortRange 3389

\$networkSecurityGroup = New-AzNetworkSecurityGroup -ResourceGroupName TestResourceGroup -Location centralus
-Name "NSG-FrontEnd" -SecurityRules \$rdpRule

Set-AzVirtualNetworkSubnetConfig -Name frontendSubnet -VirtualNetwork \$virtualNetwork -AddressPrefix "10.0.1.0/24"
-NetworkSecurityGroupId \$networkSecurityGroup.Id

\$virtualNetwork | Set-AzVirtualNetwork

This example creates a resource group with one virtual network containing just one subnet. It then creates a network security group with an allow rule for RDP

traffic. The Set-AzVirtualNetworkSubnetConfig cmdlet is used to modify the in-memory representation of the frontend subnet so that it points to the newly

created network security group. The Set-AzVirtualNetwork cmdlet is then called to write the modified state back to the service.

----- 3: Attach a Nat Gateway to a subnet -----

\$pip = New-AzPublicIpAddress -Name "pip" -ResourceGroupName "natgateway_test" `
-Location "eastus2" -Sku "Standard" -IdleTimeoutInMinutes 4 -AllocationMethod "static"

\$natGateway = New-AzNatGateway -ResourceGroupName "natgateway_test" -Name "nat_gateway" `
-IdleTimeoutInMinutes 4 -Sku "Standard" -Location "eastus2" -PublicIpAddress \$pip

\$frontendSubnet = New-AzVirtualNetworkSubnetConfig -Name frontendSubnet -AddressPrefix "10.0.1.0/24"

```
$virtualNetwork = New-AzVirtualNetwork -Name MyVirtualNetwork -ResourceGroupName TestResourceGroup -Location  
centralus -AddressPrefix "10.0.0.0/16" -Subnet  
$frontendSubnet
```

```
Set-AzVirtualNetworkSubnetConfig -Name frontendSubnet -VirtualNetwork $virtualNetwork -InputObject $natGateway
```

```
$virtualNetwork | Set-AzVirtualNetwork
```

RELATED LINKS

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

Add-AzVirtualNetworkSubnetConfig

Get-AzVirtualNetworkSubnetConfig

New-AzVirtualNetworkSubnetConfig

Remove-AzVirtualNetworkSubnetConfig