



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

PS: \>Get-HELP New-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

New-AzVirtualNetworkSubnetConfig

SYNOPSIS

Creates a virtual network subnet configuration.

SYNTAX

```
New-AzVirtualNetworkSubnetConfig -AddressPrefix <System.String[]> [-DefaultOutboundAccess
<System.Nullable`1[System.Boolean]>] [-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[]>]
[<CommonParameters>]

New-AzVirtualNetworkSubnetConfig -AddressPrefix <System.String[]> [-DefaultOutboundAccess
<System.Nullable`1[System.Boolean]>] [-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[]>] [<CommonParameters>]

```

DESCRIPTION

The New-AzVirtualNetworkSubnetConfig cmdlet creates a virtual network subnet configuration.

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

-DefaultOutboundAccess <System.Nullable`1[System.Boolean]>

Default outbound connectivity for all VMs in the subnet

Required? false
Position? named
Default value None
Accept pipeline input? True (ByPropertyName)
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 the subnet configuration to create.

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. Default value is Disabled.

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 associated with the subnet configuration.

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 associated with the subnet configuration.

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

<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>).

INPUTS

System.String

Microsoft.Azure.Commands.Network.Models.PSNetworkSecurityGroup

Microsoft.Azure.Commands.Network.Models.PSRouteTable

Microsoft.Azure.Commands.Network.Models.PSNatGateway

System.String[]

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

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

OUTPUTS

Microsoft.Azure.Commands.Network.Models.PSSubnet

NOTES

Example 1: Create a virtual network with two subnets and a network security group

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

```
$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
```

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

```
$backendSubnet = New-AzVirtualNetworkSubnetConfig -Name backendSubnet `
    -AddressPrefix "10.0.2.0/24" -NetworkSecurityGroup $networkSecurityGroup
```

```
$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
```

```
$natGatewaySubnet = New-AzVirtualNetworkSubnetConfig -Name natGatewaySubnet `
    -AddressPrefix "10.0.3.0/24" -InputObject $natGateway
```

```
New-AzVirtualNetwork -Name MyVirtualNetwork -ResourceGroupName TestResourceGroup `
-Location centralus -AddressPrefix "10.0.0.0/16" -Subnet $frontendSubnet,$backendSubnet,$natGatewaySubnet
```

This example creates two new subnet configurations using the `New-AzVirtualNetworkSubnetConfig` cmdlet, and then uses them to create a virtual network. The

`New-AzVirtualNetworkSubnetConfig` template only creates an in-memory representation of the subnet. In this example, the `frontendSubnet` has CIDR `10.0.1.0/24` and

references a network security group that allows RDP access. The `backendSubnet` has CIDR `10.0.2.0/24` and references the same network security group.

RELATED LINKS

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

[Add-AzVirtualNetworkSubnetConfig](#)

[Get-AzVirtualNetworkSubnetConfig](#)

[Remove-AzVirtualNetworkSubnetConfig](#)

[Set-AzVirtualNetworkSubnetConfig](#)