



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

PS: \> Get-HELP New-AzVirtualNetworkGatewayConnection -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-AzVirtualNetworkGatewayConnection

SYNOPSIS

Creates the Site-to-Site VPN connection between the virtual network gateway and the on-prem VPN device.

SYNTAX

```
New-AzVirtualNetworkGatewayConnection [-AsJob] [-AuthorizationKey <System.String>] [-ConnectionMode
<System.String>] [-ConnectionProtocol {IKEv1 | IKEv2}]
-ConnectionType {IPsec | Vnet2Vnet | ExpressRoute | VPNClient} [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-DpdTimeoutInSeconds <System.Int32>] [-EgressNatRule
<Microsoft.Azure.Commands.Network.Models.PSResourceId[]>] [-EnableBgp <System.Boolean>]
[-EnablePrivateLinkFastPath] [-ExpressRouteGatewayBypass] [-Force]
[-GatewayCustomBgpAddress
```

```

<Microsoft.Azure.Commands.Network.Models.PSGatewayCustomBgpIpConfiguration[]> [-IngressNatRule
    <Microsoft.Azure.Commands.Network.Models.PSResourceId[]> [-IpsecPolicies
<Microsoft.Azure.Commands.Network.Models.PSIpsecPolicy[]> [-LocalNetworkGateway2
    <Microsoft.Azure.Commands.Network.Models.PSLocalNetworkGateway>] -Location <System.String> -Name
<System.String> [-Peer
    <Microsoft.Azure.Commands.Network.Models.PSPeering>] -ResourceGroupName <System.String> [-RoutingWeight
<System.Int32>] [-SharedKey <System.String>] [-Tag
    <System.Collections.Hashtable>] [-TrafficSelectorPolicy
<Microsoft.Azure.Commands.Network.Models.PSTrafficSelectorPolicy[]>] [-UseLocalAzureIpAddress]
    [-UsePolicyBasedTrafficSelectors <System.Boolean>] -VirtualNetworkGateway1
<Microsoft.Azure.Commands.Network.Models.PSVirtualNetworkGateway> [-VirtualNetworkGateway2
    <Microsoft.Azure.Commands.Network.Models.PSVirtualNetworkGateway>] [-Confirm] [-WhatIf] [<CommonParameters>]

New-AzVirtualNetworkGatewayConnection [-AsJob] [-AuthorizationKey <System.String>] [-ConnectionMode
<System.String>] [-ConnectionProtocol {IKEv1 | IKEv2}]
    -ConnectionType {IPsec | Vnet2Vnet | ExpressRoute | VPNClient} [-DefaultProfile
    <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-DpdTimeoutInSeconds <System.Int32>] [-EgressNatRule
    <Microsoft.Azure.Commands.Network.Models.PSResourceId[]>] [-EnableBgp <System.Boolean>]
[-EnablePrivateLinkFastPath] [-ExpressRouteGatewayBypass] [-Force]
    [-GatewayCustomBgpIpAddress
    <Microsoft.Azure.Commands.Network.Models.PSGatewayCustomBgpIpConfiguration[]>] [-IngressNatRule
    <Microsoft.Azure.Commands.Network.Models.PSResourceId[]>] [-IpsecPolicies
<Microsoft.Azure.Commands.Network.Models.PSIpsecPolicy[]>] [-LocalNetworkGateway2
    <Microsoft.Azure.Commands.Network.Models.PSLocalNetworkGateway>] -Location <System.String> -Name
<System.String> [-PeerId <System.String>] -ResourceGroupName
    <System.String> [-RoutingWeight <System.Int32>] [-SharedKey <System.String>] [-Tag <System.Collections.Hashtable>]
[-TrafficSelectorPolicy
    <Microsoft.Azure.Commands.Network.Models.PSTrafficSelectorPolicy[]>] [-UseLocalAzureIpAddress]
[-UsePolicyBasedTrafficSelectors <System.Boolean>]
    -VirtualNetworkGateway1 <Microsoft.Azure.Commands.Network.Models.PSVirtualNetworkGateway>
[-VirtualNetworkGateway2
    <Microsoft.Azure.Commands.Network.Models.PSVirtualNetworkGateway>] [-Confirm] [-WhatIf] [<CommonParameters>]

```

DESCRIPTION

Creates the Site-to-Site VPN connection between the virtual network gateway and the on-prem VPN device.

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

-AuthorizationKey <System.String>

AuthorizationKey.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-ConnectionMode <System.String>

Virtual Network Gateway Connection Mode.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-ConnectionProtocol <System.String>

Gateway connection protocol:IKEv1/IKEv2

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-ConnectionType <System.String>

Gateway connection type:IPsec/Vnet2Vnet/ExpressRoute/VPNClient

Required? true

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

-DpdTimeoutInSeconds <System.Int32>

Dead Peer Detection Timeout of the connection in seconds.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-EgressNatRule <Microsoft.Azure.Commands.Network.Models.PSResourceId[]>

The list of egress NAT rules that are associated with this Connection.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-EnableBgp <System.Boolean>

Whether to establish a BGP session over a S2S VPN tunnel

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-EnablePrivateLinkFastPath <System.Management.Automation.SwitchParameter>

Bypass the ExpressRoute gateway when accessing private-links. ExpressRoute FastPath (ExpressRouteGatewayBypass) must be enabled.

Required? false

Position? named

Default value False

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-ExpressRouteGatewayBypass <System.Management.Automation.SwitchParameter>

Whether to use accelerated virtual network access by bypassing gateway

Required? false
Position? named
Default value False
Accept pipeline input? True (ByPropertyName)
Accept wildcard characters? false

-Force <System.Management.Automation.SwitchParameter>

Do not ask for confirmation if you want to overwrite a resource

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

-GatewayCustomBgpIpAddress <Microsoft.Azure.Commands.Network.Models.PSGatewayCustomBgpIpConfiguration[]>

The GatewayCustomBgpIpAddress of Virtual network gateway used in this connection.

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

-IngressNatRule <Microsoft.Azure.Commands.Network.Models.PSResourceId[]>

The list of ingress NAT rules that are associated with this Connection.

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

Accept wildcard characters? false

-IpsecPolicies <Microsoft.Azure.Commands.Network.Models.PSIpsecPolicy[]>

A list of IPsec policies.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-LocalNetworkGateway2 <Microsoft.Azure.Commands.Network.Models.PSLocalNetworkGateway>

local network gateway.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Location <System.String>

location.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Name <System.String>

The resource name.

Required? true

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

-Peer <Microsoft.Azure.Commands.Network.Models.PSPeering>

Peer

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

-PeerId <System.String>

PeerId

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

-ResourceGroupName <System.String>

The resource group name.

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

-RoutingWeight <System.Int32>

RoutingWeight.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-SharedKey <System.String>

The Ipsec share key.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Tag <System.Collections.Hashtable>

A hashtable which represents resource tags.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-TrafficSelectorPolicy <Microsoft.Azure.Commands.Network.Models.PSTrafficSelectorPolicy[]>

A list of traffic selector policies.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-UseLocalAzureIpAddress <System.Management.Automation.SwitchParameter>

Whether to use PrivateIP for this S2S VPN tunnel

Required? false

Position? named

Default value False

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-UsePolicyBasedTrafficSelectors <System.Boolean>

Whether to use policy-based traffic selectors for a S2S connection

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-VirtualNetworkGateway1 <Microsoft.Azure.Commands.Network.Models.PSVirtualNetworkGateway>

First virtual network gateway.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-VirtualNetworkGateway2 <Microsoft.Azure.Commands.Network.Models.PSVirtualNetworkGateway>

Second virtual network gateway.

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>).

INPUTS

System.String

Microsoft.Azure.Commands.Network.Models.PSVirtualNetworkGateway

Microsoft.Azure.Commands.Network.Models.PSLocalNetworkGateway

System.Int32

Microsoft.Azure.Commands.Network.Models.PSPeering

System.Boolean

System.Management.Automation.SwitchParameter

System.Collections.Hashtable

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

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

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

OUTPUTS

Microsoft.Azure.Commands.Network.Models.PSVirtualNetworkGatewayConnection

NOTES

----- Example 1 -----

```
$vnetgw1 = Get-AzVirtualNetworkGateway -ResourceGroupName "Rg1" -Name "gw1"
$vnetgw2 = Get-AzVirtualNetworkGateway -ResourceGroupName "Rg1" -Name "gw2"
New-AzVirtualNetworkGatewayConnection -Name conn-client-1 -ResourceGroupName "Rg1" -VirtualNetworkGateway1
$vnetgw1 -VirtualNetworkGateway2 $vnetgw2 -Location
"eastus" -ConnectionType Vnet2Vnet -SharedKey 'a1b2c3d4e5'
```

Example 2 Add/Update IngressNatRule/EgressNatRule to an existing virtual network gateway connection

```
$vnetgw1 = Get-AzVirtualNetworkGateway -ResourceGroupName "Rg1" -Name "vnetgw1"
$vnetgw2 = Get-AzVirtualNetworkGateway -ResourceGroupName "Rg1" -Name "vnetgw2"
$ingressnatrule = Get-AzVirtualNetworkGatewayNatRule -ResourceGroupName "Rg1" -Name "natRule1"
-ParentResourceName vnetgw1
$egressnatrule = Get-AzVirtualNetworkGatewayNatRule -ResourceGroupName "Rg1" -Name "natRule2"
-ParentResourceName vnetgw1
New-AzVirtualNetworkGatewayConnection -Name conn-client-1 -ResourceGroupName $RG1 -VirtualNetworkGateway1
$vnetgw1 -VirtualNetworkGateway2 $vnetgw2 -Location "eastus"
-ConnectionType Vnet2Vnet -SharedKey 'a1b2c3d4e5' `
-IngressNatRule $ingressnatrule -EgressNatRule $egressnatrule
```

The first command gets a virtual network gateway natRule named natRule1 that's type is IngressNatRule. The second

command gets a virtual network gateway natRule named

natRule2 that's type is EgressSnat. The third command creates this new virtual Network gateway connection with Ingress and Egress NatRules.

Example 3 Add GatewayCustomBgpIpAddress to virtual network gateway connection

```
$LocalnetGateway = Get-AzLocalNetworkGateway -ResourceGroupName "PS_testing" -name "testLng"
```

```
$gateway = Get-AzVirtualNetworkGateway -ResourceGroupName PS_testing -ResourceName testGw
```

```
$address = New-AzGatewayCustomBgpIpConfigurationObject -IpConfigurationId
```

```
"/subscriptions/83704d68-d560-4c67-b1c7-12404db89dc3/resourceGroups/PS_testing/providers/Microsoft.Network/virtualNetworkGateways/testGw/ipConfigurations/default"
```

```
-CustomBgpIpAddress "169.254.21.1"
```

```
New-AzVirtualNetworkGatewayConnection -ResourceGroupName "PS_testing" -name "Conn" -location "eastus"  
-VirtualNetworkGateway1 $gateway -LocalNetworkGateway2
```

```
$localnetGateway -ConnectionType IPsec -RoutingWeight 3 -SharedKey abc -GatewayCustomBgpIpAddress $address  
-EnableBgp $true
```

The two command gets a local network gateway and virtual network gateway. The thrid command creates a AzGatewayCustomBgpIpConfigurationObject. The third command

creates this new virtual Network gateway connection with GatewayCustomBgpIpAddress.

RELATED LINKS

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

Get-AzVirtualNetworkGatewayConnection

Remove-AzVirtualNetworkGatewayConnection

Set-AzVirtualNetworkGatewayConnection

