



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

PS: \>Get-HELP Set-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

Set-AzVirtualNetworkGatewayConnection

SYNOPSIS

Configures a virtual network gateway connection.

SYNTAX

```
Set-AzVirtualNetworkGatewayConnection [-AsJob] [-ConnectionMode <System.String>] [-DefaultProfile
<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-DpdTimeoutInSeconds <System.Nullable`1[System.Int32]>] [-EgressNatRule
<Microsoft.Azure.Commands.Network.Models.PSResourceId[]>] [-EnableBgp <System.Nullable`1[System.Boolean]>]
[-Force] [-GatewayCustomBgpIpAddress
<Microsoft.Azure.Commands.Network.Models.PSGatewayCustomBgpIpConfiguration[]>] [-IngressNatRule
<Microsoft.Azure.Commands.Network.Models.PSResourceId[]>]
[-IpsecPolicies <Microsoft.Azure.Commands.Network.Models.PSIpsecPolicy[]>] -Tag <System.Collections.Generic.IDictionary`2[System.String, System.String]>
```

[-TrafficSelectorPolicy

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

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

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

<Microsoft.Azure.Commands.Network.Models.PSVirtualNetworkGatewayConnection> [-Confirm] [-WhatIf]

[<CommonParameters>]

DESCRIPTION

The Set-AzVirtualNetworkGatewayConnection cmdlet configures a virtual network gateway connection.

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

-ConnectionMode <System.String>

Virtual Network Gateway Connection Mode.

Required? false

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

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

Whether to use a BGP session over a S2S VPN tunnel

Required? false
Position? named
Default value None
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

-Tag <System.Collections.Hashtable>

A hashtable which represents resource tags.

Required? true

Position? named

Default value None

Accept pipeline input? False

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.Nullable`1[System.Boolean]>

Whether to use PrivateIP for a S2S connection

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-UsePolicyBasedTrafficSelectors <System.Nullable`1[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

-VirtualNetworkGatewayConnection

<Microsoft.Azure.Commands.Network.Models.PSVirtualNetworkGatewayConnection>

The VirtualNetworkGatewayConnection

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

Microsoft.Azure.Commands.Network.Models.PSVirtualNetworkGatewayConnection

System.Nullable`1[[System.Boolean, mscorlib, Version=4.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089]]

System.Nullable`1[[System.Int32, mscorlib, Version=4.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089]]

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: -----

```
$conn = Get-AzVirtualNetworkGatewayConnection -Name 1 -ResourceGroupName myRG
Set-AzVirtualNetworkGatewayConnection -VirtualNetworkGatewayConnection $conn
```

Confirm

Are you sure you want to overwrite resource '1'

[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"): y

```
Name           : 1
ResourceGroupName : myRG
Location        : westus
Id              : /subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/myRG/providers/Microsoft.Network/connections/1
Etag            : W/"00000000-0000-0000-0000-000000000000"
ResourceGuid     : 00000000-0000-0000-0000-000000000000
ProvisioningState : Succeeded
Tags             :
AuthorizationKey  :
```

```
VirtualNetworkGateway1
"/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/myRG/providers/Microsoft.Network/virtualNetworkGateways/myGateway"
VirtualNetworkGateway2
"/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/S2SVnetConn/providers/Microsoft.Network/virtualNetworkGateways/S2SConnGW"
LocalNetworkGateway2 :
Peer                  :
```

RoutingWeight : 0
SharedKey :
ConnectionStatus : Connected
EgressBytesTransferred : 91334484
IngressBytesTransferred : 100386089
TunnelConnectionStatus : []

Example 2: Add/Update tags to an existing VirtualNetworkGatewayConnection

```
$conn = Get-AzVirtualNetworkGatewayConnection -Name 1 -ResourceGroupName myRG  
Set-AzVirtualNetworkGatewayConnection -VirtualNetworkGatewayConnection $conn -Tag @{  
testtagKey="SomeTagKey"; testtagValue="SomeKeyValue" }
```

Confirm

Are you sure you want to overwrite resource '1'

[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"): y

Name : 1
ResourceGroupName : myRG
Location : westus
Id : /subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/myRG/providers/Microsoft.Network/connections/1
Etag : W/"00000000-0000-0000-0000-000000000000"
ResourceGuid : 00000000-0000-0000-0000-000000000000
ProvisioningState : Succeeded
Tags :
Name Value
=====

testtagValue	SomeKeyValue
--------------	--------------

testtagKey SomeTagKey

AuthorizationKey :

VirtualNetworkGateway1 :

"/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/myRG/providers/Microsoft.Network/virtualNetworkGateways/myGateway"

VirtualNetworkGateway2 :

"/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/S2SVnetConn/providers/Microsoft.Network/virtualNetworkGateways/S2SConnGW"

LocalNetworkGateway2 :

Peer :

RoutingWeight : 0

SharedKey :

ConnectionStatus : Connected

EgressBytesTransferred : 91334484

IngressBytesTransferred : 100386089

TunnelConnectionStatus : []

Example 3: Add/Remove natRules to an existing VirtualNetworkGatewayConnection

```
$conn = Get-AzVirtualNetworkGatewayConnection -Name 1 -ResourceGroupName myRG
```

```
$egressNatrul = Get-AzVirtualNetworkGatewayNatRule -ResourceGroupName myRG -Name "natRule1" -ParentResourceName "gw1"
```

```
Set-AzVirtualNetworkGatewayConnection -VirtualNetworkGatewayConnection $conn -IngressNatRule @() -EgressNatRule $egressNatrul
```

Confirm

Are you sure you want to overwrite resource '1'

[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"): y

Name : 1

ResourceGroupName : myRG

Location : westus

Id : /subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/myRG/providers/Microsoft.Network/connections/1

Etag : W/"00000000-0000-0000-0000-000000000000"

ResourceGuid : 00000000-0000-0000-0000-000000000000

ProvisioningState : Succeeded

Tags :

Name	Value
testtagValue	SomeKeyValue
testtagKey	SomeTagKey

AuthorizationKey : VirtualNetworkGateway1 :

"/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/myRG/providers/Microsoft.Network/virtualNetworkGateways/myGateway"

VirtualNetworkGateway2 :

"/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/S2SVnetConn/providers/Microsoft.Network/virtualNetworkGateways/S2SConnGW"

LocalNetworkGateway2 :

Peer :

RoutingWeight : 0

SharedKey :

ConnectionStatus : Connected

EgressBytesTransferred : 91334484

IngressBytesTransferred : 100386089

TunnelConnectionStatus : []

IngressNatRules : []

EgressNatRules : [

{

"Id":

```
"/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/myRG/providers/Microsoft.Network/virtualNetworkGateways/gw1/natRules/natRule1"

    }

]
```

The first command gets a virtual network gateway connection named 1 that belongs to resource group myRG and stores it to the variable named \$conn. The second command

gets the virtual network gateway natRule named natRule1 and stores it to the variable named \$egressNatrul. The third command sets virtual network gateway connection

with removed all IngressNatRules and add egressNatrul into EgressNatRules.

Example 3: Add/Remove GatewayCustomBgpIpAddress to an existing VirtualNetworkGatewayConnection

```
$address1 = New-AzGatewayCustomBgpIpConfigurationObject -IpConfigurationId
```

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

```
-CustomBgpIpAddress "169.254.21.1"
```

```
$address2 = New-AzGatewayCustomBgpIpConfigurationObject -IpConfigurationId
```

```
"/subscriptions/83704d68-d560-4c67-b1c7-12404db89dc3/resourceGroups/PS_testing/providers/Mic
```

```
rosoft.Network/virtualNetworkGateways/testGw/ipConfigurations/ActiveActive" -CustomBgpIpAddress "169.254.21.3"
```

```
$conn = Get-AzVirtualNetworkGatewayConnection -ResourceGroupName PS_testing -ResourceName Conn
```

```
Set-AzVirtualNetworkGatewayConnection -VirtualNetworkGatewayConnection $conn -GatewayCustomBgpIpAddress $address1,$address2
```

```
Name : Conn
```

```
ResourceGroupName : PS_testing
```

```
Location : eastus
```

```
Id :
```

```
/subscriptions/83704d68-d560-4c67-b1c7-12404db89dc3/resourceGroups/PS_testing/providers/Microsoft.Network/connections/Conn
```

Etag : W/"e867e7bb-fa2e-436e-8822-70c556ec0f03"
ResourceGuid : 9c33f4f7-b09c-4080-932e-a44405a8c252
ProvisioningState : Succeeded
Tags :
AuthorizationKey :

VirtualNetworkGateway1 :
"/subscriptions/83704d68-d560-4c67-b1c7-12404db89dc3/resourceGroups/PS_testing/providers/Microsoft.Network/virtualNetworkGateways/testGw"

VirtualNetworkGateway2 :
LocalNetworkGateway2 :
"/subscriptions/83704d68-d560-4c67-b1c7-12404db89dc3/resourceGroups/PS_testing/providers/Microsoft.Network/localNetworkGateways/testLng"

Peer :
RoutingWeight : 3
SharedKey : abc
ExpressRouteGatewayBypass : False
EnablePrivateLinkFastPath : False
ConnectionStatus : Unknown
EgressBytesTransferred : 0
IngressBytesTransferred : 0
TunnelConnectionStatus : []
IngressNatRules : []
EgressNatRules : []
GatewayCustomBgpIpAddresses : [

{
"IpconfigurationId":

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

"CustomBgpIpAddress": "169.254.21.1"

},

{

"IpconfigurationId":

```
"/subscriptions/83704d68-d560-4c67-b1c7-12404db89dc3/resourceGroups/PS_testing/providers/Microsoft.Network/virtualNetworkGateways/testGw/ipConfigurations/ActiveActive",  
    "CustomBgpIpAddress": "169.254.21.3"  
  }  
]
```

This will create new AzGatewayCustomBgpIpConfigurationObjects and update gateway connection with these GatewayCustomBgpIpAddress.

Example 4: Remove GatewayCustomBgpIpAddress to an existing VirtualNetworkGatewayConnection

```
$conn = Get-AzVirtualNetworkGatewayConnection -ResourceGroupName PS_testing -ResourceName Conn  
Set-AzVirtualNetworkGatewayConnection -VirtualNetworkGatewayConnection $conn -GatewayCustomBgpIpAddress  
@()
```

```
Name           : Conn  
ResourceGroupName : PS_testing  
Location        : eastus  
Id              :  
/subscriptions/83704d68-d560-4c67-b1c7-12404db89dc3/resourceGroups/PS_testing/providers/Microsoft.Network/connections/Conn  
Etag            : W/"863d9b89-a030-42ba-9f71-58d5bc3336a9"  
ResourceGuid     : 9c33f4f7-b09c-4080-932e-a44405a8c252  
ProvisioningState : Succeeded  
Tags             :  
AuthorizationKey  :  
VirtualNetworkGateway1 :  
"/subscriptions/83704d68-d560-4c67-b1c7-12404db89dc3/resourceGroups/PS_testing/providers/Microsoft.Network/virtualNetworkGateways/testGw"
```

VirtualNetworkGateway2 :

LocalNetworkGateway2

:

"/subscriptions/83704d68-d560-4c67-b1c7-12404db89dc3/resourceGroups/PS_testing/providers/Microsoft.Network/localNetworkGateways/testLNg"

Peer :

RoutingWeight : 3

SharedKey : abc

ExpressRouteGatewayBypass : False

EnablePrivateLinkFastPath : False

ConnectionStatus : NotConnected

EgressBytesTransferred : 0

IngressBytesTransferred : 0

TunnelConnectionStatus : []

IngressNatRules : []

EgressNatRules : []

GatewayCustomBgpIpAddresses : []

This will update gateway connection with removing these GatewayCustomBgpIpAddress.

RELATED LINKS

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

Get-AzVirtualNetworkGatewayConnection

New-AzVirtualNetworkGatewayConnection

Remove-AzVirtualNetworkGatewayConnection