



Windows PowerShell Get-Help on Cmdlet 'Update-AzVpnGateway'

PS:\>Get-HELP Update-AzVpnGateway -Full

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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

Update-AzVpnGateway

SYNOPSIS

Updates a scalable VPN gateway.

SYNTAX

```
Update-AzVpnGateway [-AsJob] [-Asn <System.UInt32>] [-BgpPeeringAddress
<Microsoft.Azure.Commands.Network.Models.PSIpAddressConfigurationBgpPeeringAddress[]>]
[-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-EnableBgpRouteTranslationForNat
<System.Nullable`1[System.Boolean]>] -InputObject <Microsoft.Azure.Commands.Network.Models.PSVpnGateway>
[-Tag <System.Collections.Hashtable>] [-VpnConnection
<Microsoft.Azure.Commands.Network.Models.PSVpnConnection[]>] [-VpnGatewayNatRule
<Microsoft.Azure.Commands.Network.Models.PSVpnGatewayNatRule[]>]
```

```

[-VpnGatewayScaleUnit <System.UInt32>] [-Confirm] [-WhatIf] [<CommonParameters>]

Update-AzVpnGateway [-AsJob] [-Asn <System.UInt32>] [-BgpPeeringAddress
<Microsoft.Azure.Commands.Network.Models.PSIpConfigurationBgpPeeringAddress[]>]
[-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-EnableBgpRouteTranslationForNat
<System.Nullable`1[System.Boolean]>] -Name <System.String> -ResourceGroupName <System.String> [-Tag
<System.Collections.Hashtable>] [-VpnConnection
<Microsoft.Azure.Commands.Network.Models.PSVpnConnection[]>] [-VpnGatewayNatRule
<Microsoft.Azure.Commands.Network.Models.PSVpnGatewayNatRule[]>]
[-VpnGatewayScaleUnit <System.UInt32>] [-Confirm] [-WhatIf] [<CommonParameters>]

Update-AzVpnGateway [-AsJob] [-Asn <System.UInt32>] [-BgpPeeringAddress
<Microsoft.Azure.Commands.Network.Models.PSIpConfigurationBgpPeeringAddress[]>]
[-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]
[-EnableBgpRouteTranslationForNat
<System.Nullable`1[System.Boolean]>] -ResourceId <System.String> [-Tag <System.Collections.Hashtable>]
[-VpnConnection
<Microsoft.Azure.Commands.Network.Models.PSVpnConnection[]>] [-VpnGatewayNatRule
<Microsoft.Azure.Commands.Network.Models.PSVpnGatewayNatRule[]>]
[-VpnGatewayScaleUnit <System.UInt32>] [-Confirm] [-WhatIf] [<CommonParameters>]

```

DESCRIPTION

The Update-AzVpnGateway cmdlet updates a scalable VPN gateway.

An Azure VPN gateway is a software defined connectivity for site to site connections inside the VirtualHub. This gateway resizes and scales based on the scale unit

specified by the user. A connection can be set up from a branch/site known as VPN site to the scalable gateway. Each connection comprises of 2 Active-Active tunnels

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

-Asn <System.UInt32>

The vpn gateway's ASN for BGP over VPN

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

-BgpPeeringAddress <Microsoft.Azure.Commands.Network.Models.PSIPConfigurationBgpPeeringAddress[]>

The BGP peering addresses for this VpnGateway bgpsettings.

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

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

Flag to enable/disable Bgp route translation for NAT on this VpnGateway.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

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

The vpn gateway object to be modified

Required? true

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-Name <System.String>

The vpn gateway name.

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-ResourceGroupName <System.String>

The resource group name.

Required? true

Position? named
Default value None
Accept pipeline input? False
Accept wildcard characters? false

-ResourceId <System.String>

The Azure resource ID of the VpnGateway to be modified.

Required? true
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? False
Accept wildcard characters? false

-VpnConnection <Microsoft.Azure.Commands.Network.Models.PSVpnConnection[]>

The list of VpnConnections that this VpnGateway needs to have.

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

-VpnGatewayNatRule <Microsoft.Azure.Commands.Network.Models.PSVpnGatewayNatRule[]>

The list of VpnGatewayNatRules that are associated with this VpnGateway.

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

-VpnGatewayScaleUnit <System.UInt32>

The scale unit for this VpnGateway.

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

System.String

OUTPUTS

Microsoft.Azure.Commands.Network.Models.PSVpnGateway

NOTES

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

New-AzResourceGroup -Location "West US" -Name "testRG"

\$virtualWan = New-AzVirtualWan -ResourceGroupName testRG -Name myVirtualWAN -Location "West US"

\$virtualHub = New-AzVirtualHub -VirtualWan \$virtualWan -ResourceGroupName "testRG" -Name "westushub"
-AddressPrefix "10.0.0.1/24"

\$vpnGateway = New-AzVpnGateway -ResourceGroupName "testRG" -Name "testvpngw" -VirtualHubId \$virtualHubId

-VpnGatewayScaleUnit 2

Update-AzVpnGateway -ResourceGroupName "testRG" -Name "testvpngw" -VpnGatewayScaleUnit 3

ResourceGroupName : testRG

Name : testvpngw

Id :

/subscriptions/{subscriptionId}/resourceGroups/testRG/providers/Microsoft.Network/vpnGateways/testvpngw

Location : West US

VpnGatewayScaleUnit : 3

VirtualHub :

/subscriptions/{subscriptionId}/resourceGroups/AlpS_Test/providers/Microsoft.Network/virtualHubs/westushub

BgpSettings : {}

Type : Microsoft.Network/vpnGateways

ProvisioningState : Succeeded

The above will create a resource group, Virtual WAN, Virtual Network, Virtual Hub in West US in "testRG" resource group in Azure. A VPN gateway will be created

thereafter in the Virtual Hub with 2 scale units.

After the gateway has been created, it uses Update-AzVpnGateway to upgrade the gateway to 3 scale units.

----- Example 2 -----

New-AzResourceGroup -Location "West US" -Name "testRG"

\$virtualWan = New-AzVirtualWan -ResourceGroupName testRG -Name myVirtualWAN -Location "West US"

\$virtualHub = New-AzVirtualHub -VirtualWan \$virtualWan -ResourceGroupName "testRG" -Name "westushub"

-AddressPrefix "10.0.0.1/24"

\$vpnGateway = New-AzVpnGateway -ResourceGroupName "testRG" -Name "testvpngw" -VirtualHubId \$virtualHub.Id

-VpnGatewayScaleUnit 2

\$ipconfigurationId1 = 'Instance0'

\$addresslist1 = @('169.254.21.5')

\$gw1ipconfBgp1 = New-AzIpConfigurationBgpPeeringAddressObject -IpConfigurationId \$ipconfigurationId1

```

-CustomAddress $addresslist1

$ipconfigurationId2 = 'Instance1'

$addresslist2 = @('169.254.21.10')

$gw1ipconfBgp2 = New-AzIpConfigurationBgpPeeringAddressObject -IpConfigurationId $ipconfigurationId2

-CustomAddress $addresslist2

$gw = Get-AzVpnGateway -ResourceGroupName testRg -Name testgw

Update-AzVpnGateway -ResourceGroupName "testRG" -Name "testvpngw" -BgpPeeringAddress
@($gw1ipconfBgp1,$gw1ipconfBgp2)

ResourceGroupName : testRG
Name               : testvpngw
Id                :
/subscriptions/{subscriptionId}/resourceGroups/testRG/providers/Microsoft.Network/vpnGateways/testvpngw
Location           : West US
VpnGatewayScaleUnit : 3
VirtualHub         :
/subscriptions/{subscriptionId}/resourceGroups/Ali_pS_Test/providers/Microsoft.Network/virtualHubs/westushub
BgpSettings        : {}
Type               : Microsoft.Network/vpnGateways
ProvisioningState   : Succeeded

```

The above will create a resource group, Virtual WAN, Virtual Network, Virtual Hub in West US in "testRG" resource group in Azure. A VPN gateway will be created thereafter in the Virtual Hub with 2 scale units.

After the gateway has been created, it uses Set-AzVpnGateway to update BgpPeeringAddress.

----- Example 3 -----

```

$gw = Get-AzVpnGateway -ResourceGroupName "testRg" -Name "testgw"
$gw.BgpSettings.BgpPeeringAddresses
$gw.BgpSettings.BgpPeeringAddresses[0].CustomBgpIpAddresses=$null

```

```
$gw.BgpSettings.BgpPeeringAddresses[1].CustomBgpIpAddresses=$null
```

```
$gw.BgpSettings.BgpPeeringAddresses
```

```
Update-AzVpnGateway -InputObject $gw
```

The above example will update the Virtual WAN VPN Gateway to use the default BgpPeeringAddress.

----- Example 4 -----

```
New-AzResourceGroup -Location "West US" -Name "testRG"
```

```
$virtualWan = New-AzVirtualWan -ResourceGroupName testRG -Name myVirtualWAN -Location "West US"
```

```
    $virtualHub = New-AzVirtualHub -VirtualWan $virtualWan -ResourceGroupName "testRG" -Name "westushub"  
-AddressPrefix "10.0.0.1/24"
```

```
    $vpnGateway = New-AzVpnGateway -ResourceGroupName "testRG" -Name "testvpngw" -VirtualHubId $virtualHub.Id  
-VpnGatewayScaleUnit 2
```

```
$ipconfigurationId1 = 'Instance0'
```

```
$addresslist1 = @()
```

```
    $gw1ipconfBgp1 = New-AzIpConfigurationBgpPeeringAddressObject -IpConfigurationId $ipconfigurationId1  
-CustomAddress $addresslist1
```

```
$ipconfigurationId2 = 'Instance1'
```

```
$addresslist2 = @()
```

```
    $gw1ipconfBgp2 = New-AzIpConfigurationBgpPeeringAddressObject -IpConfigurationId $ipconfigurationId2  
-CustomAddress $addresslist2
```

```
$gw = Get-AzVpnGateway -ResourceGroupName testRg -Name testgw
```

```
    Update-AzVpnGateway -ResourceGroupName "testRG" -Name "testvpngw" -BgpPeeringAddress  
@($gw1ipconfBgp1,$gw1ipconfBgp2)
```

The above example will update the Virtual WAN VPN Gateway to use the default BgpPeeringAddress.

It uses Update-AzVpnGateway to update BgpPeeringAddress

RELATED LINKS

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

[Get-AzVpnGateway](#)

[New-AzVpnGateway](#)

[Remove-AzVpnGateway](#)