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

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

SYNOPSIS

Creates a Virtual Network Gateway

SYNTAX

New-AzVirtualNetworkGateway [-AadAudienceId <System.String>] [-AadIssuerUri <System.String>] [-AadTenantUri <System.String>] [-AsJob] [-Asn <System.UInt32>]

[-ClientConnectionConfiguration <Microsoft.Azure.Commands.Network.Models.PSClientConnectionConfiguration[]>] [-CustomRoute <System.String[]>] [-DefaultProfile

<Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-DisableIPsecProtection <System.Boolean>] [-EnableActiveActiveFeature]

[-EnableBgp <System.Boolean>] [-EnableBgpRouteTranslationForNat] [-EnablePrivateIpAddress] [-ExtendedLocation <System.String>] [-Force] [-GatewayDefaultSite

<Microsoft.Azure.Commands.Network.Models.PSLocalNetworkGateway>] [-GatewaySku {Basic | Standard | HighPerformance | UltraPerformance | VpnGw1 | VpnGw2 | VpnGw3 |
VpnGw4 | VpnGw5 | VpnGw1AZ | VpnGw2AZ | VpnGw3AZ | VpnGw4AZ | VpnGw5AZ | ErGw1AZ | ErGw2AZ | ErGw3AZ}] [-GatewayType {Vpn | ExpressRoute | LocalGateway}]
[-IpConfigurationBgpPeeringAddresses <Microsoft.Azure.Commands.Network.Models.PSIpConfigurationBgpPeeringAddress[]>] [-IpConfigurations
<Microsoft.Azure.Commands.Network.Models.PSVirtualNetworkGatewayIpConfiguration[]>] -Location <System.String> -Name <System.String> [-NatRule
<Microsoft.Azure.Commands.Network.Models.PSVirtualNetworkGatewayNatRule[]>] [-PeerWeight <System.Int32>] [-RadiusServerAddress <System.String>] [-RadiusServerList
<Microsoft.Azure.Commands.Network.Models.PSRadiusServer[]>] [-RadiusServerSecret <System.Security.SecureString>] -ResourceGroupName <System.String> [-Tag
<System.Collections.Hashtable>] [-VirtualNetworkGatewayPolicyGroup <Microsoft.Azure.Commands.Network.Models.PSVirtualNetworkGatewayPolicyGroup[]>]
[-VNetExtendedLocationResourceId <System.String>] [-VpnAuthenticationType {Certificate | Radius | AAD}] [-VpnClientAddressPool <System.String[]>]
[-VpnClientIpsecPolicy <Microsoft.Azure.Commands.Network.Models.PSIpsecPolicy[]>] [-VpnClientProtocol {SSTP | IkeV2 | OpenVPN}] [-VpnClientRevokedCertificates
<Microsoft.Azure.Commands.Network.Models.PSVpnClientRevokedCertificate[]>] [-VpnClientRootCertificates
<Microsoft.Azure.Commands.Network.Models.PSVpnClientRootCertificate[]>] [-VpnGatewayGeneration <System.String>] [-VpnType {PolicyBased | RouteBased}] [-Confirm]
[-WhatIf] [<CommonParameters>]

DESCRIPTION

The Virtual Network Gateway is the object representing your gateway in Azure. The New-AzVirtualNetworkGateway cmdlet creates the object of your gateway in Azure based
on the Name, Resource Group Name, Location, and IP configuration, as well as the Gateway Type and if VPN, the VPN Type. You can also name the Gateway SKU. If this
Gateway is being used for Point-to-Site connections, you will also need to include the VPN Client Address Pool from which to assign addresses to connecting clients
and the VPN Client Root Certificate used to authenticate VPN clients connecting to the Gateway. You can also choose to include other features like BGP and

Active-Active.

PARAMETERS

-AadAudienceId <System.String>

P2S AAD authentication option:AadAudienceId.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-AadIssuerUri <System.String>

P2S AAD authentication option:AadIssuerUri.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-AadTenantUri <System.String>

P2S AAD authentication option:AadTenantUri.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-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 virtual network gateway's ASN for BGP over VPN

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-ClientConnectionConfiguration <Microsoft.Azure.Commands.Network.Models.PSClientConnectionConfiguration[]>

P2S Client Connection Configuration that assiociate between address and policy group

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-CustomRoute <System.String[]>

Custom routes AddressPool specified by customer

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

-DisableIPsecProtection <System.Boolean>

The Flag disables IPsec Protection on VirtualNetworkGateway.

Required? false

Position? named

Default value False

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-EnableActiveActiveFeature <System.Management.Automation.SwitchParameter>

Flag to enable Active Active feature on virtual network gateway

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-EnableBgp <System.Boolean>

EnableBgp Flag

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-EnableBgpRouteTranslationForNat <System.Management.Automation.SwitchParameter>

Flag to enable BgpRouteTranslationForNat on this VirtualNetworkGateway.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-EnablePrivateIpAddress <System.Management.Automation.SwitchParameter>

Flag to enable private IPAddress on virtual network gateway

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-ExtendedLocation <System.String>

The extended location of this virtual network gateway

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

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

GatewayDefaultSite

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-GatewaySku <System.String>

The Gateway Sku Tier

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-GatewayType <System.String>

The type of this virtual network gateway: Vpn, ExpressRoute

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-IpConfigurationBgpPeeringAddresses

<Microsoft.Azure.Commands.Network.Models.PSIpConfigurationBgpPeeringAddress[]>

The BgpPeeringAddresses for Virtual network gateway bgpsettings.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-IpConfigurations <Microsoft.Azure.Commands.Network.Models.PSVirtualNetworkGatewayIpConfiguration[]>

The IpConfigurations for Virtual 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

-NatRule <Microsoft.Azure.Commands.Network.Models.PSVirtualNetworkGatewayNatRule[]>

The NatRules for Virtual network gateway.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-PeerWeight <System.Int32>

The weight added to routes learned over BGP from this virtual network gateway

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-RadiusServerAddress <System.String>

P2S External Radius server address.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-RadiusServerList <Microsoft.Azure.Commands.Network.Models.PSRadiusServer[]>

P2S multiple external Radius server servers.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-RadiusServerSecret <System.Security.SecureString>

P2S External Radius server secret.

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

-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

-VirtualNetworkGatewayPolicyGroup

<Microsoft.Azure.Commands.Network.Models.PSVirtualNetworkGatewayPolicyGroup[]>

P2S policy group added to this gateway

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-VNetExtendedLocationResourceId <System.String>

VNetExtendedLocationResourceId for Virtual network gateway.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-VpnAuthenticationType <System.String[]>

The list of P2S VPN client authentication types.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-VpnClientAddressPool <System.String[]>

P2S VpnClient AddressPool

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

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

A list of IPSec policies for P2S VPN client tunneling protocols.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-VpnClientProtocol <System.String[]>

The list of P2S VPN client tunneling protocols

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-VpnClientRevokedCertificates <Microsoft.Azure.Commands.Network.Models.PSVpnClientRevokedCertificate[]>

The list of VpnClientCertificates to be revoked.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-VpnClientRootCertificates <Microsoft.Azure.Commands.Network.Models.PSVpnClientRootCertificate[]>

The list of VpnClientRootCertificates to be added.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-VpnGatewayGeneration <System.String>

The generation for this VirtualNetwork VPN gateway. Must be None if GatewayType is not VPN.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-VpnType <System.String>

The type of the Vpn:PolicyBased/RouteBased

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.PSVirtualNetworkGatewayIpConfiguration[]

System.Boolean

Microsoft.Azure.Commands.Network.Models.PSLocalNetworkGateway

System.String[]

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

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

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

System.UInt32

System.Int32

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

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

System.Collections.Hashtable

System.Security.SecureString

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

Microsoft.Azure.Commands.Network.Models.PSVirtualNetworkGateway

NOTES

--------- Example 1: Create a Virtual Network Gateway ---------

New-AzResourceGroup -Location "UK West" -Name "vnet-gateway"

$subnet = New-AzVirtualNetworkSubnetConfig -Name 'gatewaysubnet' -AddressPrefix '10.254.0.0/27'

$ngwpip = New-AzPublicIpAddress -Name ngwpip -ResourceGroupName "vnet-gateway" -Location "UK West" -AllocationMethod Dynamic

$vnet = New-AzVirtualNetwork -AddressPrefix "10.254.0.0/27" -Location "UK West" -Name vnet-gateway -ResourceGroupName "vnet-gateway" -Subnet $subnet

$subnet = Get-AzVirtualNetworkSubnetConfig -name 'gatewaysubnet' -VirtualNetwork $vnet

$ngwipconfig = New-AzVirtualNetworkGatewayIpConfig -Name ngwipconfig -SubnetId $subnet.Id -PublicIpAddressId $ngwpip.Id

New-AzVirtualNetworkGateway -Name myNGW -ResourceGroupName vnet-gateway -Location "UK West" -IpConfigurations $ngwIpConfig -GatewayType "Vpn" -VpnType "RouteBased"

-GatewaySku "Basic" -CustomRoute 192.168.0.0/24

The above will create a resource group, request a Public IP Address, create a Virtual Network and subnet and create a Virtual Network Gateway in Azure. The gateway

will be called "myNGW" within the resource group "vnet-gateway" in the location "UK West" with the previously created IP configurations saved in the variable

"ngwIPConfig," the gateway type of "VPN," the vpn type "RouteBased," and the sku "Basic."

Example 2: Create a Virtual Network Gateway with External Radius Configuration

New-AzResourceGroup -Location "UK West" -Name "vnet-gateway"

New-AzVirtualNetworkSubnetConfig -Name 'gatewaysubnet' -AddressPrefix '10.254.0.0/27'

$ngwpip = New-AzPublicIpAddress -Name ngwpip -ResourceGroupName "vnet-gateway" -Location "UK West" -AllocationMethod Dynamic

$vnet = New-AzVirtualNetwork -AddressPrefix "10.254.0.0/27" -Location "UK West" -Name vnet-gateway -ResourceGroupName "vnet-gateway" -Subnet $subnet

$subnet = Get-AzVirtualNetworkSubnetConfig -name 'gatewaysubnet' -VirtualNetwork $vnet

$ngwipconfig = New-AzVirtualNetworkGatewayIpConfig -Name ngwipconfig -SubnetId $subnet.Id -PublicIpAddressId $ngwpip.Id

$Secure_String_Pwd = ConvertTo-SecureString "TestRadiusServerPassword" -AsPlainText -Force

New-AzVirtualNetworkGateway -Name myNGW -ResourceGroupName vnet-gateway -Location "UK West" -IpConfigurations $ngwIpConfig -GatewayType "Vpn" -VpnType "RouteBased"

-GatewaySku "Basic" -RadiusServerAddress "TestRadiusServer" -RadiusServerSecret $Secure_String_Pwd -CustomRoute 192.168.0.0/24

The above will create a resource group, request a Public IP Address, create a Virtual Network and subnet and create a Virtual Network Gateway in Azure. The gateway

will be called "myNGW" within the resource group "vnet-gateway" in the location "UK West" with the previously created IP configurations saved in the variable

"ngwIPConfig," the gateway type of "VPN," the vpn type "RouteBased," and the sku "Basic." It also adds an external radius server with address "TestRadiusServer". It

will also set custom routes specified by customers on gateway.

Example 3: Create a Virtual Network Gateway with P2S settings

New-AzResourceGroup -Location "UK West" -Name "vnet-gateway"

$subnet = New-AzVirtualNetworkSubnetConfig -Name 'gatewaysubnet' -AddressPrefix '10.254.0.0/27'

$ngwpip = New-AzPublicIpAddress -Name ngwpip -ResourceGroupName "vnet-gateway" -Location "UK West" -AllocationMethod Dynamic

$vnet = New-AzVirtualNetwork -AddressPrefix "10.254.0.0/27" -Location "UK West" -Name vnet-gateway -ResourceGroupName "vnet-gateway" -Subnet $subnet

$subnet = Get-AzVirtualNetworkSubnetConfig -name 'gatewaysubnet' -VirtualNetwork $vnet

$ngwipconfig = New-AzVirtualNetworkGatewayIpConfig -Name ngwipconfig -SubnetId $subnet.Id -PublicIpAddressId $ngwpip.Id

$rootCert = New-AzVpnClientRootCertificate -Name $clientRootCertName -PublicCertData $samplePublicCertData

$vpnclientipsecpolicy = New-AzVpnClientIpsecPolicy -IpsecEncryption AES256 -IpsecIntegrity SHA256 -SALifeTime 86471 -SADataSize 429496 -IkeEncryption AES256

-IkeIntegrity SHA384 -DhGroup DHGroup2 -PfsGroup PFS2

New-AzVirtualNetworkGateway -Name myNGW -ResourceGroupName vnet-gateway -Location "UK West" -IpConfigurations $ngwIpConfig -GatewayType "Vpn" -VpnType "RouteBased"

-GatewaySku "VpnGw1" -VpnClientProtocol IkeV2 -VpnClientAddressPool 201.169.0.0/16 -VpnClientRootCertificates $rootCert -VpnClientIpsecPolicy $vpnclientipsecpolicy

-CustomRoute 192.168.0.0/24

The above will create a resource group, request a Public IP Address, create a Virtual Network and subnet and create a Virtual Network Gateway with P2S settings e.g.

VpnProtocol,VpnClientAddressPool,VpnClientRootCertificates,VpnClientIpsecPolicy etc. in Azure. The gateway will be called "myNGW" within the resource group

"vnet-gateway" in the location "UK West" with the previously created IP configurations saved in the variable "ngwIPConfig," the gateway type of "VPN," the vpn type

"RouteBased," and the sku "VpnGw1." Vpn settings will be set on Gateway such as VpnProtocol set as Ikev2, VpnClientAddressPool as "201.169.0.0/16",

VpnClientRootCertificate set as passed one: clientRootCertName and custom vpn ipsec policy passed in object:$vpnclientipsecpolicy

It will also set custom routes specified by customers on gateway.

Example 4: Create a Virtual Network Gateway with AAD authentication Configuration for VpnClient of virtual network gateway.

New-AzResourceGroup -Location "UK West" -Name "vnet-gateway"

New-AzVirtualNetworkSubnetConfig -Name 'gatewaysubnet' -AddressPrefix '10.254.0.0/27'

$ngwpip = New-AzPublicIpAddress -Name ngwpip -ResourceGroupName "vnet-gateway" -Location "UK West" -AllocationMethod Dynamic

$vnet = New-AzVirtualNetwork -AddressPrefix "10.254.0.0/27" -Location "UK West" -Name vnet-gateway -ResourceGroupName "vnet-gateway" -Subnet $subnet

$subnet = Get-AzVirtualNetworkSubnetConfig -name 'gatewaysubnet' -VirtualNetwork $vnet

$ngwipconfig = New-AzVirtualNetworkGatewayIpConfig -Name ngwipconfig -SubnetId $subnet.Id -PublicIpAddressId $ngwpip.Id

$Secure_String_Pwd = ConvertTo-SecureString "TestRadiusServerPassword" -AsPlainText -Force

New-AzVirtualNetworkGateway -Name myNGW -ResourceGroupName vnet-gateway -Location "UK West" -IpConfigurations $ngwIpConfig -GatewayType "Vpn" -VpnType "RouteBased"

-GatewaySku "VpnGw1" -VpnClientProtocol OpenVPN -VpnClientAddressPool 201.169.0.0/16 -AadTenantUri

"https://login.microsoftonline.com/0ab2c4f4-81e6-44cc-a0b2-b3a47a1443f4" -AadIssuerUri "https://sts.windows.net/0ab2c4f4-81e6-44cc-a0b2-b3a47a1443f4/" -AadAudienceId

"a21fce82-76af-45e6-8583-a08cb3b956f9"

The above will create a resource group, request a Public IP Address, create a Virtual Network and subnet and create a Virtual Network Gateway in Azure. The gateway

will be called "myNGW" within the resource group "vnet-gateway" in the location "UK West" with the previously created IP configurations saved in the variable

"ngwIPConfig," the gateway type of "VPN," the vpn type "RouteBased," and the sku "Basic." It also configures AAD authentication configurations: AadTenantUri,

AadIssuerUri and AadAudienceId for VpnClient of virtual network gateway.

Example 5: Create a Virtual Network Gateway with VpnGatewayGeneration

New-AzResourceGroup -Location "UK West" -Name "vnet-gateway"

$subnet = New-AzVirtualNetworkSubnetConfig -Name 'gatewaysubnet' -AddressPrefix '10.254.0.0/27'

$ngwpip = New-AzPublicIpAddress -Name ngwpip -ResourceGroupName "vnet-gateway" -Location "UK West" -AllocationMethod Dynamic

$vnet = New-AzVirtualNetwork -AddressPrefix "10.254.0.0/27" -Location "UK West" -Name vnet-gateway -ResourceGroupName "vnet-gateway" -Subnet $subnet

$subnet = Get-AzVirtualNetworkSubnetConfig -name 'gatewaysubnet' -VirtualNetwork $vnet

$ngwipconfig = New-AzVirtualNetworkGatewayIpConfig -Name ngwipconfig -SubnetId $subnet.Id -PublicIpAddressId $ngwpip.Id

New-AzVirtualNetworkGateway -Name myNGW -ResourceGroupName vnet-gateway -Location "UK West" -IpConfigurations $ngwIpConfig -GatewayType "Vpn" -VpnType "RouteBased"

-GatewaySku "VpnGw4" -VpnGatewayGeneration "Generation2"

The above will create a resource group, request a Public IP Address, create a Virtual Network and subnet and create a Virtual Network Gateway in Azure. The gateway

will be called "myNGW" within the resource group "vnet-gateway" in the location "UK West" with the previously created IP configurations saved in the variable

"ngwIPConfig," the gateway type of "VPN", the vpn type "RouteBased", the sku "VpnGw4" and VpnGatewayGeneration Generation2 enabled.

Example 6: Create a Virtual Network Gateway with IpConfigurationBgpPeeringAddresses

New-AzResourceGroup -Location "UK West" -Name "resourcegroup1"

$subnet = New-AzVirtualNetworkSubnetConfig -Name 'gatewaysubnet' -AddressPrefix '10.254.0.0/27'

$ngwpip = New-AzPublicIpAddress -Name ngwpip -ResourceGroupName "resourcegroup1" -Location "UK West" -AllocationMethod Dynamic

$vnet = New-AzVirtualNetwork -AddressPrefix "10.254.0.0/27" -Location "UK West" -Name vnet-gateway -ResourceGroupName "resourcegroup1" -Subnet $subnet

$subnet = Get-AzVirtualNetworkSubnetConfig -name 'gatewaysubnet' -VirtualNetwork $vnet

$ngwipconfig = New-AzVirtualNetworkGatewayIpConfig -Name ipconfig1 -SubnetId $subnet.Id -PublicIpAddressId $ngwpip.Id

$ipconfigurationId1 = $ngwipconfig.Id

$addresslist1 = @('169.254.21.10')

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

New-AzVirtualNetworkGateway -Name gateway1 -ResourceGroupName vnet-gateway -Location "UK West" -IpConfigurations $ngwIpConfig -IpConfigurationBgpPeeringAddresses

$gw1ipconfBgp1 -GatewayType "Vpn" -VpnType "RouteBased" -GatewaySku "VpnGw4" -VpnGatewayGeneration "Generation2"

The above will create a resource group, request a Public IP Address, create a Virtual Network and subnet and create a Virtual Network Gateway in Azure.

ipconfigurationId1 of gateway ipconfiguration just created and stored in ngwipconfig. The gateway will be called "gateway1" within the resource group

"resourcegroup1resourcegroup1" in the location "UK West" with the previously created IP configurations Bgppeering address saved in the variable "gw1ipconfBgp1," the

gateway type of "VPN", the vpn type "RouteBased", the sku "VpnGw4" and VpnGatewayGeneration Generation2 enabled.

-- Example 7: Create a Virtual Network Gateway with NatRules --

New-AzResourceGroup -Location "UK West" -Name "resourcegroup1"

$subnet = New-AzVirtualNetworkSubnetConfig -Name 'gatewaysubnet' -AddressPrefix '10.254.0.0/27'

$ngwpip = New-AzPublicIpAddress -Name ngwpip -ResourceGroupName "resourcegroup1" -Location "UK West" -AllocationMethod Dynamic

$vnet = New-AzVirtualNetwork -AddressPrefix "10.254.0.0/27" -Location "UK West" -Name vnet-gateway -ResourceGroupName "resourcegroup1" -Subnet $subnet

$subnet = Get-AzVirtualNetworkSubnetConfig -name 'gatewaysubnet' -VirtualNetwork $vnet

$ngwipconfig = New-AzVirtualNetworkGatewayIpConfig -Name ipconfig1 -SubnetId $subnet.Id -PublicIpAddressId $ngwpip.Id

$natRule = New-AzVirtualNetworkGatewayNatRule -Name "natRule1" -Type "Static" -Mode "IngressSnat" -InternalMapping @("25.0.0.0/16") -ExternalMapping @("30.0.0.0/16")

New-AzVirtualNetworkGateway -Name gateway1 -ResourceGroupName vnet-gateway -Location "UK West" -IpConfigurations $ngwIpConfig -GatewayType "Vpn" -VpnType "RouteBased"
-GatewaySku "VpnGw4" -VpnGatewayGeneration "Generation2" -NatRule $natRule -EnableBgpRouteTranslationForNat

The above will create a resource group, request a Public IP Address, create a Virtual Network and subnet and create a Virtual Network Gateway in Azure.

ipconfigurationId1 of gateway ipconfiguration just created and stored in ngwipconfig. The gateway will be called "gateway1" within the resource group

"resourcegroup1resourcegroup1" in the location "UK West" New virtualNetworkGateway NatRule will be saved in the variable "natRule" the gateway type of "VPN", the

vpn type "RouteBased", the sku "VpnGw4" and VpnGatewayGeneration Generation2 enabled and BgpRouteTranslationForNat enabled.

RELATED LINKS

Online Version: https://learn.microsoft.com/powershell/module/az.network/new-azvirtualnetworkgateway