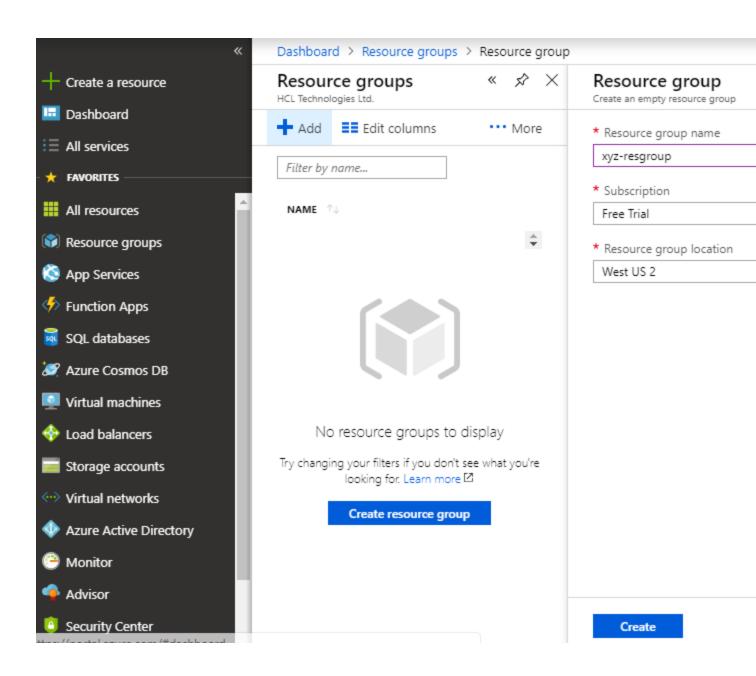By:Mohit Gupta
Email : Mohit.e.gupta@gmail.com

Vnet-Vnet Between Different Region and Different Subscripiton
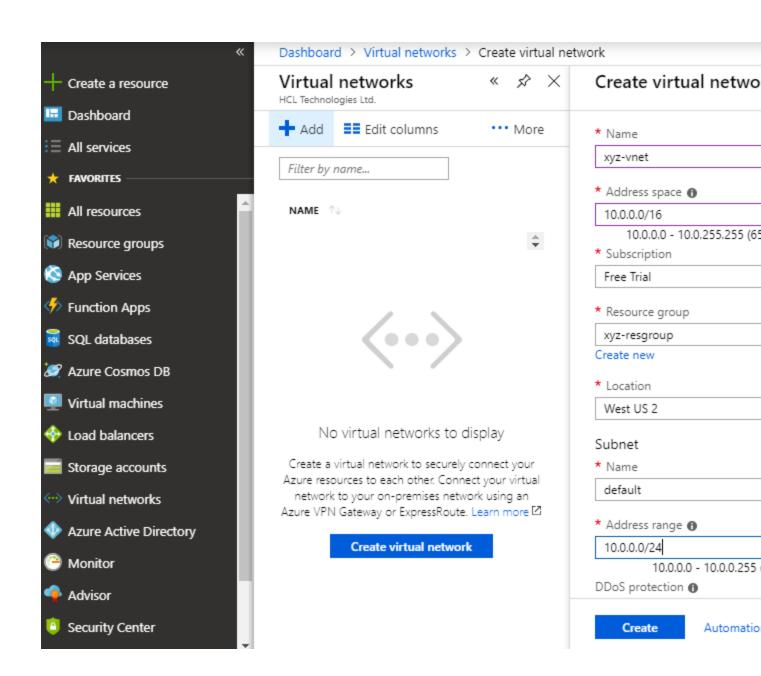
Overview:

This article helps you connect virtual networks (VNets) by using the VNet-to-VNet connection type. Virtual networks can be in different regions and from different subscriptions. When you connect VNets from different subscriptions, the subscriptions don't need to be associated with the same Active Directory tenant.
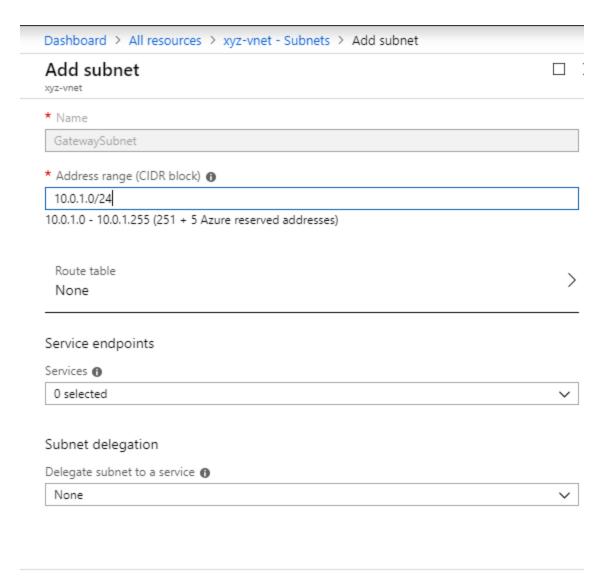
SetUp a xyz company network

Create a new Resource group :

Create a Virtual Network :

Create a Gateway Subnet :

Add subnet

xyz-vnet

* Name

GatewaySubnet

* Address range (CIDR block) ⓘ

10.0.1.0/24

10.0.1.0 - 10.0.1.255 (251 + 5 Azure reserved addresses)

Route table

None   ⟩

Service endpoints

Services ⓘ

0 selected ⌄

Subnet delegation

Delegate subnet to a service ⓘ

None ⌄

OK

Create a VM in your Virtual Network .

Create a virtual machine

customization.
Looking for classic VMs? Create VM from Azure Marketplace

PROJECT DETAILS

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

* Subscription ⓘ

Free Trial

    * Resource group ⓘ

xyz-resgroup

Create new

INSTANCE DETAILS

* Virtual machine name ⓘ

xyz-vm-dev01

* Region ⓘ

West US 2

Availability options ⓘ

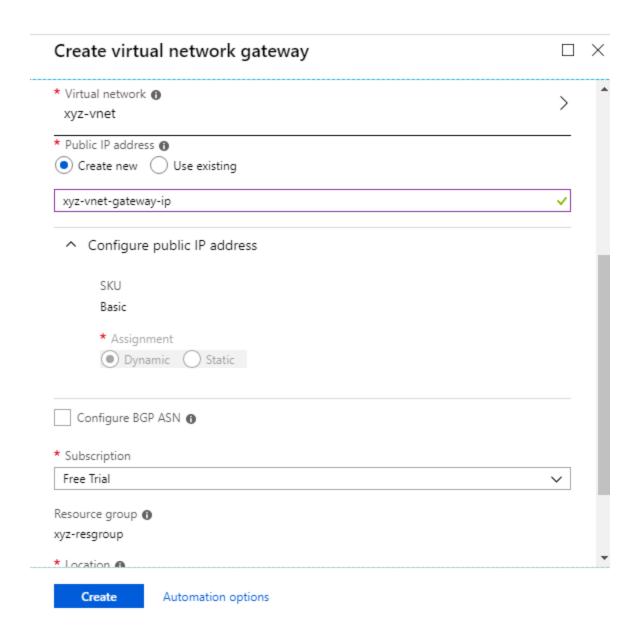No infrastructure redundancy required

* Image ⓘ

Windows Server 2016 Datacenter

Browse all images and disks

Create a virtual machine

* Size ⓘ	**Standard A1** 1 vcpu, 1.75 GB memory Change size

ADMINISTRATOR ACCOUNT

* Username ⓘ	mohitkumargupta
* Password ⓘ	••••••••••
* Confirm password ⓘ	••••••••••

INBOUND PORT RULES

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

* Public inbound ports ⓘ	◯ None ⦿ Allow selected ports
* Select inbound ports	RDP

⚠ These ports will be exposed to the internet. Use the Advanced controls to limit inbound traffic to known IP addresses. You can also update inbound traffic rule later.

Create virtual network gateway ☐

Azure has provided a planning and design guide to help you configure the various VPN gateway options. Learn more.

* Name

| xyz-vnet-gateway | ✓ |

Gateway type ❶

◉ VPN   ○ ExpressRoute

VPN type ❶

◉ Route-based   ○ Policy-based

* SKU ❶

| VpnGw1 | ⌄ |

☐ Enable active-active mode ❶

* Virtual network ❶

xyz-vnet   ⟩

* Gateway subnet address range ❶

| 10.0.1.0/24 | ✓ |

10.0.1.0 - 10.0.1.255 (256 addresses)

* Public IP address ❶

Create virtual network gateway □ ✕

* Virtual network ⓘ

xyz-vnet   ﹥

* Public IP address ⓘ

◉ Create new   ○ Use existing

xyz-vnet-gateway-ip   ✓

^   Configure public IP address

SKU

Basic

* Assignment

◉ Dynamic   ○ Static

☐ Configure BGP ASN ⓘ

* Subscription

Free Trial   ⌄

Resource group ⓘ

xyz-resgroup

* Location ⓘ

Create   **Automation options**

SetUp a ABC Company network

Create New resource group for abc company

Resource groups

« 📌 ✕

mohitguptaakgechotmail (Default Directory)

+ Add   ☷ Edit columns   ••• More

Filter by name...

NAME ⇅

No resource groups to display

Try changing your filters if you don't see what you're
looking for. Learn more ⧉

Create resource group

Resource group

☐ ✕

Create an empty resource group

* Resource group name

abc-resgroup   ✓

* Subscription

Visual Studio Ultimate with MSDN ▾

* Resource group location

East US 2 ▾

Create

Create a Virtual Network

Add SubNet

Add subnet

abc-vnet

☐ ✕

* Name

GatewaySubnet

* Address range (CIDR block) ⓘ

20.0.1.0/24

20.0.1.0 - 20.0.1.255 (251 + 5 Azure reserved addresses)

Route table

None

>

Service endpoints

Services ⓘ

0 selected ⌄

Subnet delegation

Delegate subnet to a service ⓘ

None ⌄

OK

Create a virtual machine

resources.

* Subscription ⓘ	Visual Studio Ultimate with MSDN
* Resource group ⓘ	abc-resgroup

Create new

INSTANCE DETAILS

* Virtual machine name ⓘ	abc-vm-dev01
* Region ⓘ	Central US
Availability options ⓘ	No infrastructure redundancy required
* Image ⓘ	Windows Server 2016 Datacenter

Browse all images and disks

* Size ⓘ

Standard DS1 v2
1 vcpu, 3.5 GB memory
Change size

Create a virtual machine

| Basics | Disks | Networking | Management | Guest config | Tags | Review + create |

Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbo and outbound connectivity with security group rules, or place behind an existing load balancing solution. Learn more

NETWORK INTERFACE

When creating a virtual machine, a network interface will be created for you.

CONFIGURE VIRTUAL NETWORKS

* Virtual network 🛈

(new) abc-resgroup-vnet

Create new

* Subnet 🛈

(new) default (10.0.0.0/24)

Public IP 🛈

(new) abc-vm-dev01-ip

Create new

NIC network security group 🛈   ◯ None   ⦿ Basic   ◯ Advanced

* Public inbound ports 🛈   ◯ None   ⦿ Allow selected ports

* Select inbound ports

RDP

Create a Virtual Network Gateway

Connect Abc and Xyz Virtual Network Gateway using Powershell CLI

az network vpn-connection create -n xyzvnet-abcvnet -g xyz-resgroup --vnet-gateway1 /subscriptions/<SubId1>/resourceGroups/xyz-resgroup/providers/Microsoft.Network/virtualNetworkGateways/xyz-vnet-gateway -l "West US 2" --shared-key "eeffgg" --vnet-gateway2 /subscriptions/<SubId2>/resourceGroups/abc-resgroup/providers/Microsoft.Network/virtualNetworkGateways/abc-vnet-gateway

az network vpn-connection create -n abcvnet-xyzvnet -g abc-resgroup --vnet-gateway1 /subscriptions/<Subid2>/resourceGroups/abc-resgroup/providers/Microsoft.Network/virtualNetworkGateways/abc-vnet-gateway -l "East US 2" --shared-key "eeffgg" --vnet-gateway2 /subscriptions/<SubId1>/resourceGroups/xyz-resgroup/providers/Microsoft.Network/virtualNetworkGateways/xyz-vnet-gateway

Test the connection :

Test the RDP using private IP from one machine to another machine.