

Create a VNET and It's Subnets and launch a Windows Linux VM in each subnet, VM should able to ping each other. Create two Vnets and create a connection between them using Vnet peering.

- **az --version**

- **az login**

Create Resource Group for VNET1

- **az group create --name MyResourceGroup1 --location eastus**

Create VNET1 with Subnet1

- **az network vnet create **
 **--name VNET1 **
 **--resource-group MyResourceGroup1 **
 **--address-prefix 10.0.0.0/16 **
 **--subnet-name Subnet1 **
 --subnet-prefix 10.0.1.0/24

Create Subnet2 in VNET1

- **az network vnet subnet create **
 **--vnet-name VNET1 **
 **--resource-group MyResourceGroup1 **
 **--name Subnet2 **
 --address-prefix 10.0.2.0/24

Create Resource Group for VNET2

- **az group create --name MyResourceGroup2 --location westus**

Create VNET2 with Subnet1

- **az network vnet create **
 **--name VNET2 **
 **--resource-group MyResourceGroup2 **
 **--address-prefix 10.1.0.0/16 **
 **--subnet-name Subnet1 **
 --subnet-prefix 10.1.1.0/24

Create Subnet2 in VNET2

- **az network vnet subnet create **
 **--vnet-name VNET2 **
 **--resource-group MyResourceGroup2 **
 **--name Subnet2 **
 --address-prefix 10.1.2.0/24

Create Windows VM in Subnet1 of VNET1

- **az vm create **
 **--resource-group MyResourceGroup1 **
 **--name WinVM1 **
 **--image Win2019Datacenter **
 **--vnet-name VNET1 **
 **--subnet Subnet1 **
 **--admin-username azureuser **
 --admin-password YourPassword123!

Create Windows VM in Subnet2 of VNET1

- **az vm create **
 **--resource-group MyResourceGroup1 **
 **--name WinVM2 **
 **--image Win2019Datacenter **
 **--vnet-name VNET1 **
 **--subnet Subnet2 **
 **--admin-username azureuser **
 --admin-password YourPassword123!

Create Linux VM in Subnet1 of VNET2

- **az vm create **
 **--resource-group MyResourceGroup2 **
 **--name LinuxVM1 **
 **--image UbuntuLTS **
 **--vnet-name VNET2 **
 **--subnet Subnet1 **
 **--admin-username azureuser **
 --generate-ssh-keys

Create Linux VM in Subnet2 of VNET2

- **az vm create **
 **--resource-group MyResourceGroup2 **
 **--name LinuxVM2 **
 **--image UbuntuLTS **
 **--vnet-name VNET2 **
 **--subnet Subnet2 **
 **--admin-username azureuser **
 --generate-ssh-keys

Create peering from VNET1 to VNET2

- **az network vnet peering create **
 **--name VNET1-to-VNET2 **
 **--resource-group MyResourceGroup1 **

```
--vnet-name VNET1 \  
--remote-vnet VNET2 \  
--allow-vnet-access
```

Create peering from VNET2 to VNET1

- **az network vnet peering create \
--name VNET2-to-VNET1 \
--resource-group MyResourceGroup2 \
--vnet-name VNET2 \
--remote-vnet VNET1 \
--allow-vnet-access**

Create NSG for VNET1

- **az network nsg create \
--resource-group MyResourceGroup1 \
--name MyNSG1**

Create NSG rule to allow ICMP in VNET1

- **az network nsg rule create \
--resource-group MyResourceGroup1 \
--nsg-name MyNSG1 \
--name Allow-ICMP \
--protocol Icmp \
--priority 1000 \
--direction Inbound \
--source-address-prefixes '*' \
--source-port-ranges '*' \
--destination-address-prefixes '*' \
--destination-port-ranges '*' \
--access Allow**

Associate NSG with VNET1 subnets

- **az network vnet subnet update \
--vnet-name VNET1 \
--name Subnet1 \
--resource-group MyResourceGroup1 \
--network-security-group MyNSG1**
- **az network vnet subnet update \
--vnet-name VNET1 \
--name Subnet2 \
--resource-group MyResourceGroup1 \
--network-security-group MyNSG1**

Create NSG for VNET2

- **az network nsg create **

```
--resource-group MyResourceGroup2 \  
--name MyNSG2
```

Create NSG rule to allow ICMP in VNET2

- **az network nsg rule create \
--resource-group MyResourceGroup2 \
--nsg-name MyNSG2 \
--name Allow-ICMP \
--protocol Icmp \
--priority 1000 \
--direction Inbound \
--source-address-prefixes '*' \
--source-port-ranges '*' \
--destination-address-prefixes '*' \
--destination-port-ranges '*' \
--access Allow**

Associate NSG with VNET2 subnets

- **az network vnet subnet update \
--vnet-name VNET2 \
--name Subnet1 \
--resource-group MyResourceGroup2 \
--network-security-group MyNSG2**
- **az network vnet subnet update \
--vnet-name VNET2 \
--name Subnet2 \
--resource-group MyResourceGroup2 \
--network-security-group MyNSG2**

- **ping <Windows_VM_Private_IP>**