Create Azure Virtual Network Peering (Portal)

(LAB-103-05-01)

Part A: Create First Virtual Network with 2 Subnet

1. Refer LAB-103-04-01

Part B: Create Second Virtual Network with 1 Subnet

1. Sign-in to the Azure portal
2. On the upper-left side of the screen, select **Create a resource** > **Networking** > **Virtual network**.
3. In **Create virtual network**, enter or select this information:
   a. Name: Enter **VirtualNetwork02**
   b. Address space Enter **10.0.0.0/24**
   c. Subscription Select your subscription
   d. Resource group Provide name **RG-LAB-103-05-01**
   e. Location Select West Europe
   f. Subnet - Name Enter **Subnet01**
   g. Subnet - Address range Enter **10.0.0.0/24**
4. Leave the rest of the defaults and select **Create**.

Part C: Create First Windows Virtual Machine in Second Virtual Network

1. The first thing to do when creating virtual machines with the Azure Portal is log in to Azure with your administrative credentials.
2. Click the ***virtual machines*** link in the left-hand navigation bar.
3. Click the ***add*** button to start the creation process.
4. You will be required to fill in specific information regarding your virtual machine, including:
   a. ***Subscription***: Select default subscription group
   b. ***Resource Group***: Select **RG-LAB-103-05-01** resource group

c. ***Name***: Provide virtual machine name **vm03-1030501**

d. ***Region***: Select West Europe

e. ***Image***:
   i. Select "***Browse all image ….”***
   ii. Select "***Compute***"
   iii. Search "***Windows Server 2019 Datacenter***"
   iv. Select "***Windows Server 2019 Datacenter [Microsoft]”***

f. ***Size***:
   I. Select "**Search**"
   II. Select "***Appropriate size for the virtual machine***"

g. ***Administrator Account***:
   i. Provide "***Username***"
   ii. Provide "***Password***"

h. ***Inbound Port Rules***:
   i. Select "***Allow selected ports***"
   ii. Select
      - ***Port 3389***

5. Click the "***Next: Disks***" button to continue

6. Click the "***Next***: ***Networking***" button to continue.
   a. Under Virtual Network, select **VirtualNetwork02** vnet

   b. Under Subnet, select **Subnet01** subnet

7. Click the "***Next: Management***" button to continue.

8. Click on the "***Next: Guest***" config to continue

9. Click the "***Next: Tags***" button to continue.

10. Click the "***Next: Review + create***" button to continue.

    Info: It also shows **"*Validation passed*".** If not verify each step of configuration.

11. Click the "***Create***" button

    Info: The deployment process may take a few minutes. Check the status of resources deployment.

Part D: Connect Third VM via RDP

1. From the Azure Portal, go to the left menu, select Virtual Machines.
2. Select the virtual machine from the list.
3. On the right side of the page copy "***Private IP Address***"
4. From the first virtual machine "***vm03-1030501"***, right click on "***Start***" & "***Run***"
5. In the open, write "***mstsc***"
6. Enter in the "***Private IP Address"*** of the Azure virtual machine, and then click "**Connect"**
7. Enter the "***Username***" and "***Password***" of the Azure virtual machine and click "**OK"**
8. Click "**Yes"** to confirm this connection if prompted with the security message
9. Once logged-in, Right click on "***Start***" & "***Run***"
10. In the open, write "***powershell.exe***"
11. Execute below to open ICMPv4 firewall rule from OS:

```
New-NetFirewallRule –DisplayName "Allow ICMPv4-In" –Protocol ICMPv4
```

Part E: Configure VNeT Peering

Step 1: **Configure VNet Peeing from VNeT01 to VNeT02**

1. From the Azure Portal, go to the left menu, select **virtual networks**
2. Open virtual network **VirtualNetwork01**
3. Select **Peerings** under **settings**
4. Click on **Add** and configure
    a. Name *(Form First VNeT)*: Provide name **VNeT-01-TO--VNeT-02**
    b. Subscription: Select **your default subscription**

c. Virtual network: Select ***VirtualNetwork02***

d. Name *(Form Second VNeT)*: Provide name **VNeT-02-TO-VNeT-01**

Note: Leave other details as default

e. Click on **Ok**

Note: It will create peering from both side

5. The **PEERING STATUS** is *Connected,* if you don't see the status, refresh your browser

Part F: Check the communication

6. Connect to **vm03-1030501 virtual machine**

7. Ping Private IP address of **vm01-1030401 or** Private IP address **vm02-1030401**

Note: This shows the communication between two virtual network across region.