

VNET Peering

- To make communication between two resources.
- Vnet Peering is a point to point connection.
- Prerequisite is there is no ip overlap.
- But we create two or more vnet's with same ip but it's not work in peering

Local Peering

- Creating a Vnet in one Resource Group.

The screenshot shows the 'Create virtual network' page in the Microsoft Azure portal, specifically the 'Basics' tab. The page is titled 'Create virtual network' and has a breadcrumb trail: 'Home > Network foundation | Virtual networks >'. Below the title, there are tabs for 'Basics', 'Security', 'IP addresses', 'Tags', and 'Review + create'. The 'Basics' tab is active. Under 'Project details', there is a section 'Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.' It includes a 'Subscription' dropdown menu set to 'Azure subscription 1' and a 'Resource group' dropdown menu set to 'sai-rg'. There is a 'Create new' link below the resource group dropdown. Under 'Instance details', there is a 'Virtual network name' text box containing 'Sai_Vnet_01' and a 'Region' dropdown menu set to '(Asia Pacific) East Asia'. There is a 'Deploy to an Azure Extended Zone' link below the region dropdown. At the bottom, there are 'Previous', 'Next', and 'Review + create' buttons. A 'Give feedback' link is also present.

- Creating two subnets in Vnet.

The screenshot shows the 'Create virtual network' page in the Microsoft Azure portal, specifically the 'IP addresses' tab. The page is titled 'Create virtual network' and has a breadcrumb trail: 'Home > Network foundation | Virtual networks >'. Below the title, there are tabs for 'Basics', 'Security', 'IP addresses', 'Tags', and 'Review + create'. The 'IP addresses' tab is active. There is a text box that says 'assigns the resource an IP address from the subnet. Learn more'. Below this, there is a checkbox labeled 'Allocate using IP address pools. Learn more' which is currently unchecked. There is a '+ Add a subnet' button. Below this, there is a table showing the IP address space and subnets. The table has columns for 'Subnets', 'IP address range', 'Size', and 'NAT gateway'. The first row shows the main address space: '192.168.0.0/16' with a 'Delete address space' link. Below this, there is a table with two subnets: 'Subnet1' and 'Subnet2'. Both subnets have an IP address range of '192.168.1.0 - 192.168.1.255' and '192.168.2.0 - 192.168.2.255' respectively, and a size of '/24 (256 addresses)'. Both subnets have a 'NAT gateway' column with a '-' sign. There are edit and delete icons for each subnet. At the bottom, there are 'Previous', 'Next', and 'Review + create' buttons. A 'Give feedback' link is also present.

Subnets	IP address range	Size	NAT gateway
Subnet1	192.168.1.0 - 192.168.1.255	/24 (256 addresses)	-
Subnet2	192.168.2.0 - 192.168.2.255	/24 (256 addresses)	-

→Creating a Virtual machine with subnet1.

The screenshot shows the 'Create a virtual machine' page in the Microsoft Azure portal. The 'Instance details' section is expanded, showing the following configuration:

- Subscription: Azure subscription 1
- Resource group: sai-rg
- Virtual machine name: saiVm01
- Region: (Asia Pacific) East Asia
- Availability options: No infrastructure redundancy required
- Security type: Standard
- Image: Ubuntu Server 24.04 LTS - x64 Gen2 (free services eligible)
- VM architecture: x64 (selected), Arm64 (unselected)

At the bottom of the form, there are navigation buttons: '< Previous', 'Next : Disks >', and 'Review + create'. A 'Give feedback' link is also present.

→We can check networking and make sure you use your vnet and subnet you have created.

→Finally check review and create.

The screenshot shows the 'Networking' section of the 'Create a virtual machine' page. The 'Network interface' section is expanded, showing the following configuration:

- Virtual network: Sai_Vnet_01 (sai-rg)
- Subnet: Subnet2
- Public IP: (new) saiVm02-ip
- NIC network security group: Basic (selected)
- Public inbound ports: Allow selected ports (selected)

At the bottom of the form, there are navigation buttons: '< Previous', 'Next : Management >', and 'Review + create'. A 'Give feedback' link is also present.

→ Create another Vnet with different Ip.

→ Creating Virtual machine in second vnet.

The screenshot shows the 'Create a virtual machine' page in the Microsoft Azure portal. The page is titled 'Create a virtual machine' and has a search bar at the top. Below the search bar, there are three tabs: 'Basics', 'Disks', and 'Networking'. The 'Basics' tab is selected. The page contains several sections for configuring the virtual machine:

- Subscription:** Azure subscription 1
- Resource group:** sai-rg
- Instance details:**
 - Virtual machine name:** saiVm03
 - Region:** (Asia Pacific) East Asia
 - Availability options:** No infrastructure redundancy required
 - Security type:** Trusted launch virtual machines
 - Image:** Ubuntu Server 24.04 LTS - x64 Gen2 (free services eligible)
 - VM architecture:** x64

At the bottom of the page, there are three buttons: '< Previous', 'Next: Disks >', and 'Review + create'.

→ Selecting Virtual network and subnet to the second vnet.

The screenshot shows the 'Create a virtual machine' page in the Microsoft Azure portal, specifically the 'Networking' tab. The page is titled 'Create a virtual machine' and has a search bar at the top. Below the search bar, there are five tabs: 'Basics', 'Disks', 'Networking', 'Management', and 'Monitoring'. The 'Networking' tab is selected. The page contains several sections for configuring the network interface:

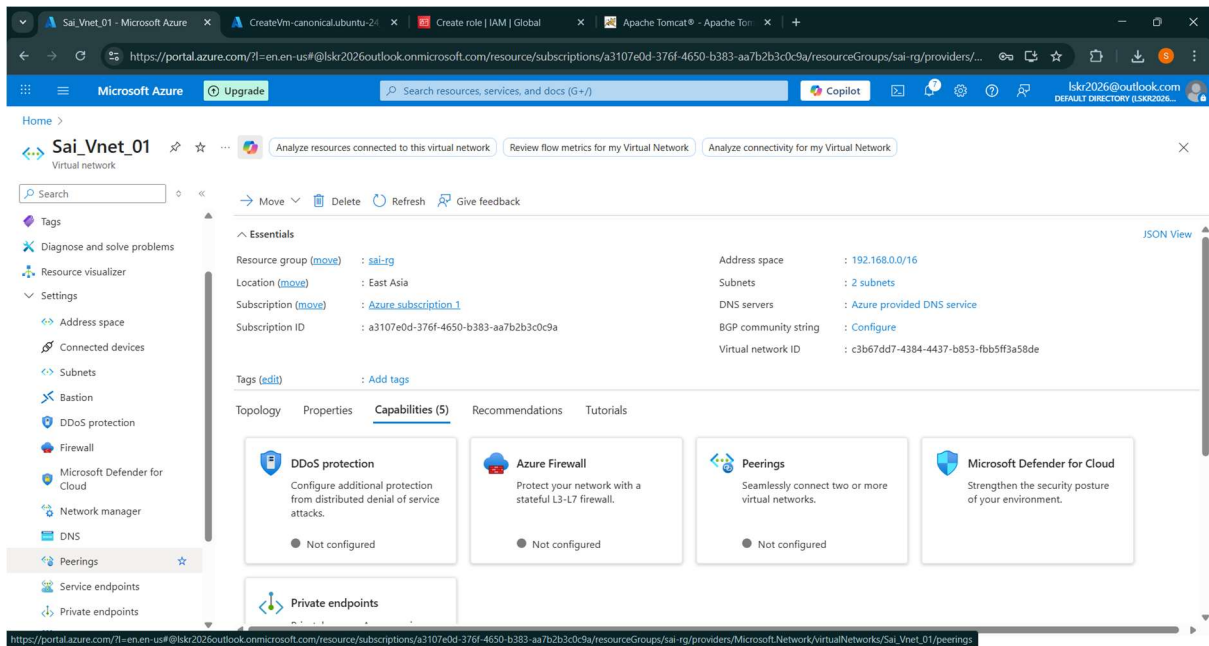
- Network interface:** When creating a virtual machine, a network interface will be created for you.
- Virtual network:** Sai_Vnet-02 (sai-rg)
- Subnet:** Subnet
- Public IP:** (new) saiVm03-ip
- NIC network security group:** Basic
- Public inbound ports:** Allow selected ports

At the bottom of the page, there are three buttons: '< Previous', 'Next: Management >', and 'Review + create'.

→ After creating two Vnet's and Each Vnet contains a virtual machine.

→ Then go to the any Vnet and click on settings you can see peerings

→Then select Peerings

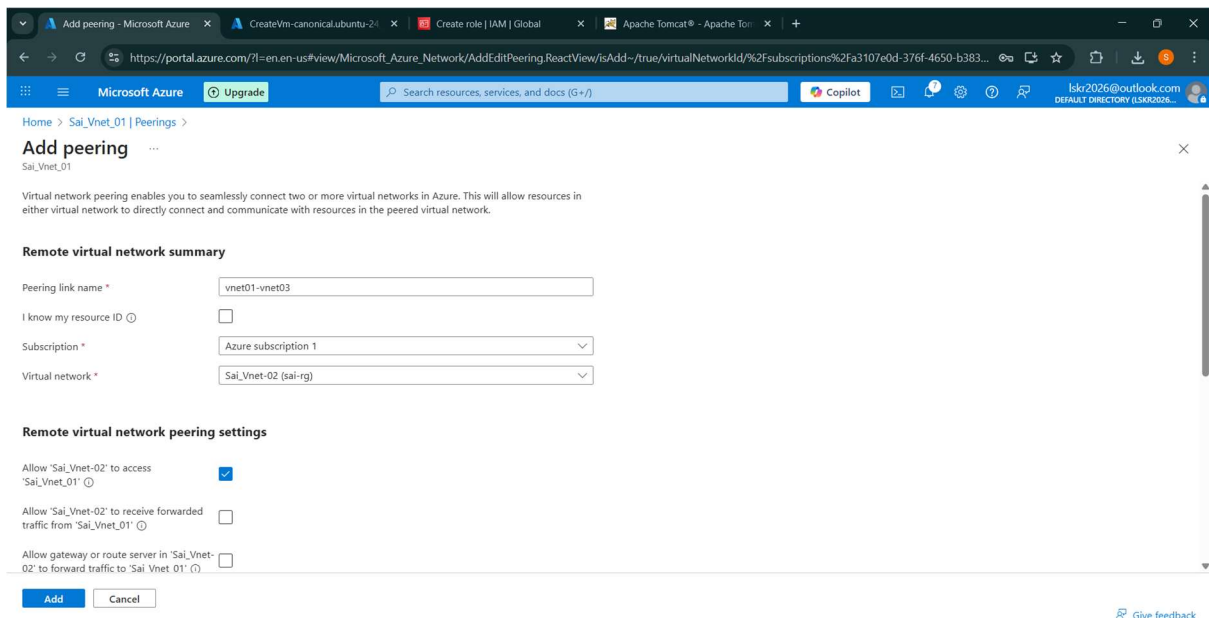


→And click on add

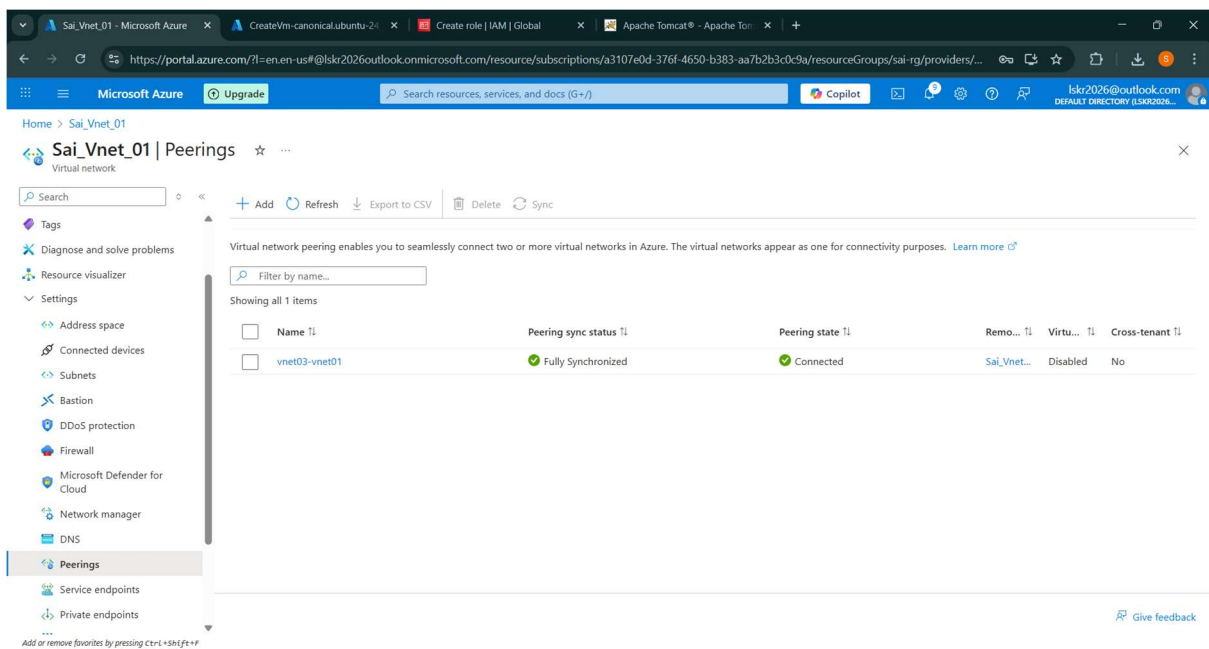
→Select virtual network which we want to connect.

→Enter peer link any name

→Finally click on add



→ Finally we see this

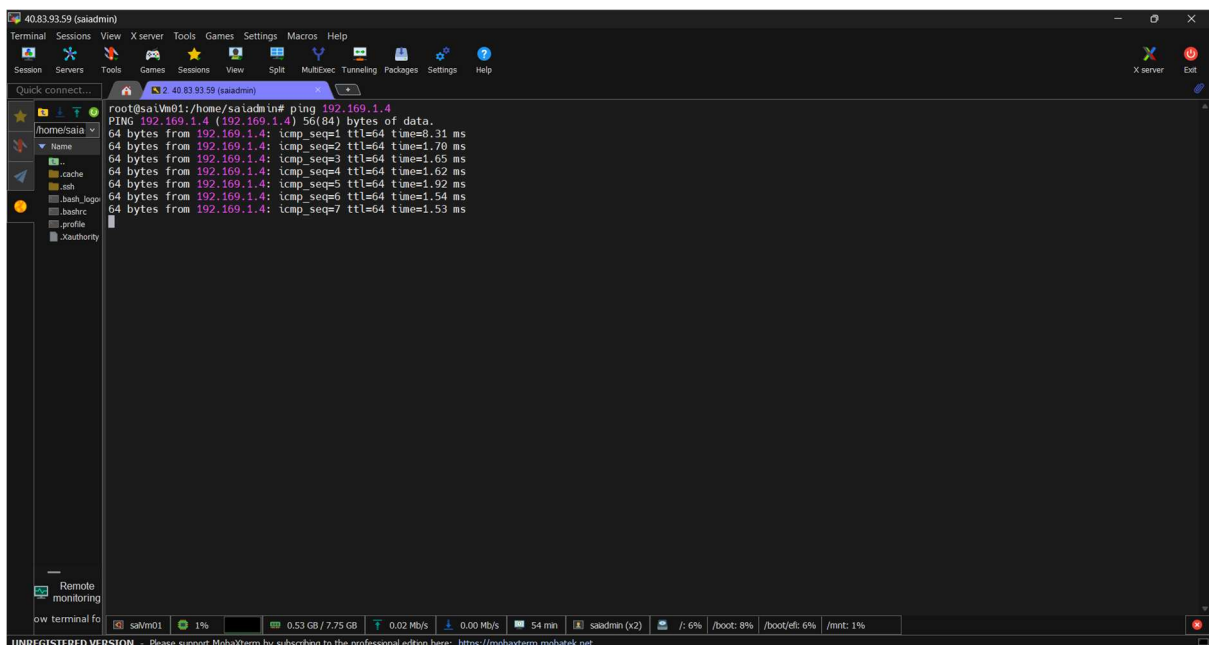


→ Check the connection using ping command.

→ Login into one mission

→ Then copy another mission privateIp

→ Write ping <pvtIP>



Global Peering

→ Here we can create another vnet in another region

→ Here I can create in Africa region

The screenshot shows the 'Create virtual network' page in the Microsoft Azure portal. The 'Basics' tab is selected. Under 'Project details', the 'Subscription' is 'Azure subscription 1' and the 'Resource group' is 'sai-rg'. Under 'Instance details', the 'Virtual network name' is 'sai/vnet' and the 'Region' is '(Africa) South Africa North'. At the bottom, there are buttons for 'Previous', 'Next', and 'Review + create'.

Home > Create virtual network

Basics Security IP addresses Tags Review + create

Project details

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

Subscription * Azure subscription 1
Resource group * sai-rg
[Create new](#)

Instance details

Virtual network name * sai/vnet
Region * (Africa) South Africa North
[Deploy to an Azure Extended Zone](#)

Previous Next Review + create

[Give feedback](#)

→ Ip address is 10 series

The screenshot shows the 'Create virtual network' page in the Microsoft Azure portal, with the 'IP addresses' tab selected. It displays a warning about the address prefix 10.0.0.0/16 overlapping with virtual network 'vm01'. Below the warning, there is a table with columns 'Subnets', 'IP address range', 'Size', and 'NAT gateway'. The table shows a subnet named 'default' with an IP address range of '10.0.0.0 - 10.0.0.255' and a size of '/24 (256 addresses)'. At the bottom, there is a button to 'Add IPv4 address space'.

Home > Create virtual network

Basics Security IP addresses Tags Review + create

☐ Allocate using IP address pools. [Learn more](#)

+ Add a subnet

10.0.0.0/16 [Delete address space](#)

This address prefix overlaps with virtual network 'vm01'. If you intend to peer these virtual networks, change the address space. [Learn more](#)

10.0.0.0 /16
10.0.0.0 - 10.0.255.255 65,536 addresses

Subnets	IP address range	Size	NAT gateway
default	10.0.0.0 - 10.0.0.255	/24 (256 addresses)	-

[Add IPv4 address space](#)

Previous Next Review + create

[Give feedback](#)

→Creating a virtual machines

The screenshot shows the 'Create a virtual machine' page in the Azure portal, specifically the 'Project details' tab. The page is titled 'Create a virtual machine' and includes a warning message: 'Changing Basic options may reset selections you have made. Review all options prior to creating the virtual machine.' The 'Project details' section includes the following fields:

- Subscription:** Azure subscription 1
- Resource group:** sai-rg
- Virtual machine name:** saiVm04
- Region:** (Africa) South Africa North
- Availability options:** No infrastructure redundancy required
- Security type:** Standard
- Image:** Ubuntu Server 24.04 LTS - x64 Gen2 (free services eligible)

At the bottom, there are navigation buttons: '< Previous', 'Next : Disks >', and 'Review + create'. A 'Give feedback' link is also present.

→Selecting virtual network and subnet

The screenshot shows the 'Create a virtual machine' page in the Azure portal, specifically the 'Networking' tab. The page is titled 'Create a virtual machine' and includes a warning message: 'Changing Basic options may reset selections you have made. Review all options prior to creating the virtual machine.' The 'Networking' section includes the following fields:

- Virtual network:** saiVnet (sai-rg)
- Subnet:** default
- Public IP:** (new) saiVm04-ip
- NIC network security group:** Basic
- Public inbound ports:** Allow selected ports

At the bottom, there are navigation buttons: '< Previous', 'Next : Management >', and 'Review + create'. A 'Give feedback' link is also present.

→Then go to peering

→Select a Virtual network

→Go to settings

→Select Peering

→Click on add

→Write Peering link name

→ Select Subscription and Virtual network you want to connect.

Home > saI-rg > saVnet | Peerings >

Add peering

saVnet

Virtual network peering enables you to seamlessly connect two or more virtual networks in Azure. This will allow resources in either virtual network to directly connect and communicate with resources in the peered virtual network.

Remote virtual network summary

Peering link name *

I know my resource ID ☒

Subscription *

Virtual network *

Remote virtual network peering settings

Allow 'SaVnet-02' to access 'saVnet' ☒

Allow 'SaVnet-02' to receive forwarded traffic from 'saVnet' ☐

Allow gateway or route server in 'SaVnet-02' to forward traffic to 'saVnet' ☐

[Give feedback](#)

→ Login to the machine and copy the pvtip of another machine

→ ping <pvtip>

```
root@saVnet04:/home/saIadmin# ping 192.169.1.4
PING 192.169.1.4 (192.169.1.4) 56(84) bytes of data:
64 bytes from 192.169.1.4: icmp_seq=1 ttl=64 time=266 ms
64 bytes from 192.169.1.4: icmp_seq=2 ttl=64 time=264 ms
64 bytes from 192.169.1.4: icmp_seq=3 ttl=64 time=264 ms
64 bytes from 192.169.1.4: icmp_seq=4 ttl=64 time=267 ms
64 bytes from 192.169.1.4: icmp_seq=5 ttl=64 time=264 ms
64 bytes from 192.169.1.4: icmp_seq=6 ttl=64 time=273 ms
```

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