



Azure Networking - I



Assignment 1:

1. Create a virtual network in West US
2. Create another virtual network in South India

Showing 1 to 2 of 2 records.

<input type="checkbox"/> Name ↑↓	Resource group ↑↓	Location ↑↓
<input type="checkbox"/>  Vnet-SouthINDIA	7april	South India
<input type="checkbox"/>  Vnet-WestUS	7april	West US

3. Deploy virtual machine in West US with the virtual network in West US
4. Deploy virtual machine in South India inside virtual network in South India

<input type="checkbox"/> Name ↑↓	Subscription ↑↓	Resource group ↑↓	Location ↑↓
<input type="checkbox"/>  VM-SouthINDIA	my-subscriptions	7april	South India
<input type="checkbox"/>  VM-WestUS	my-subscriptions	7april	West US

5. Create VNet-VNet peering to connect West US and South India VM

| Peerings ☆ ...

◊ <<

+ Add

↻ Refresh

⬇ Export to CSV

🗑 Delete

↻ Sync

Virtual network peering enables you to seamlessly connect two or more virtual networks in Azure. The virtual networks appear a

🔍

Filter by name...

Showing all 1 items

<input type="checkbox"/> Name ↑↓	Peering sync status ↑↓	Peeri
<input type="checkbox"/> WestToSouth	✅ Fully Synchronized	✅ Cc


Azure Networking - I

6. Check this by pinging VM1 to VM2 via ping command using private IP address"

```
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
96 packages can be upgraded. Run 'apt list --upgradable' to see them.
azureuser@VM-SouthINDIA:~$ ping 20.0.0.4
PING 20.0.0.4 (20.0.0.4) 56(84) bytes of data:
64 bytes from 20.0.0.4: icmp_seq=1 ttl=64 time=206 ms
64 bytes from 20.0.0.4: icmp_seq=2 ttl=64 time=200 ms
64 bytes from 20.0.0.4: icmp_seq=3 ttl=64 time=200 ms
64 bytes from 20.0.0.4: icmp_seq=4 ttl=64 time=201 ms
64 bytes from 20.0.0.4: icmp_seq=5 ttl=64 time=201 ms
64 bytes from 20.0.0.4: icmp_seq=6 ttl=64 time=200 ms
64 bytes from 20.0.0.4: icmp_seq=7 ttl=64 time=201 ms
64 bytes from 20.0.0.4: icmp_seq=8 ttl=64 time=200 ms
64 bytes from 20.0.0.4: icmp_seq=9 ttl=64 time=200 ms
64 bytes from 20.0.0.4: icmp_seq=10 ttl=64 time=201 ms
64 bytes from 20.0.0.4: icmp_seq=11 ttl=64 time=201 ms
64 bytes from 20.0.0.4: icmp_seq=12 ttl=64 time=201 ms
30.1.0.4
30.1.0.4: command not found
azureuser@VM-WestUS:~$ ping 30.1.0.4
PING 30.1.0.4 (30.1.0.4) 56(84) bytes of data:
64 bytes from 30.1.0.4: icmp_seq=1 ttl=64 time=201 ms
64 bytes from 30.1.0.4: icmp_seq=2 ttl=64 time=201 ms
64 bytes from 30.1.0.4: icmp_seq=3 ttl=64 time=200 ms
64 bytes from 30.1.0.4: icmp_seq=4 ttl=64 time=202 ms
64 bytes from 30.1.0.4: icmp_seq=5 ttl=64 time=201 ms
64 bytes from 30.1.0.4: icmp_seq=6 ttl=64 time=202 ms
64 bytes from 30.1.0.4: icmp_seq=7 ttl=64 time=201 ms
64 bytes from 30.1.0.4: icmp_seq=8 ttl=64 time=200 ms
64 bytes from 30.1.0.4: icmp_seq=9 ttl=64 time=200 ms
64 bytes from 30.1.0.4: icmp_seq=10 ttl=64 time=203 ms
64 bytes from 30.1.0.4: icmp_seq=11 ttl=64 time=201 ms
64 bytes from 30.1.0.4: icmp_seq=12 ttl=64 time=201 ms
```

Assignment 2:

1. Create a VM in West US

<input type="checkbox"/>	Name ↑↓	Subscription ↑↓	Resource group ↑↓	Location ↑↓
<input type="checkbox"/>	 VM-WestUS	my-subscriptions	7APRIL	West US

2. Assign a Static IP address to the VM

[+ Add](#) [⚙ Make primary](#) [🗑 Delete](#)

	Name	IP Version	Type	Private IP Address	Public IP Address
<input type="checkbox"/>	ipconfig1	IPv4	Primary	20.0.0.4 (Static)	172.184.201.47 (VMWestUSip891)

Assignment 3:



1. Use the previously created VM

2. Created a NIC

[+ Create](#) [⚙ Manage view](#) [🔄 Refresh](#) [📄 Export to CSV](#) [🔗 Open query](#) [🏷 Assign tags](#)

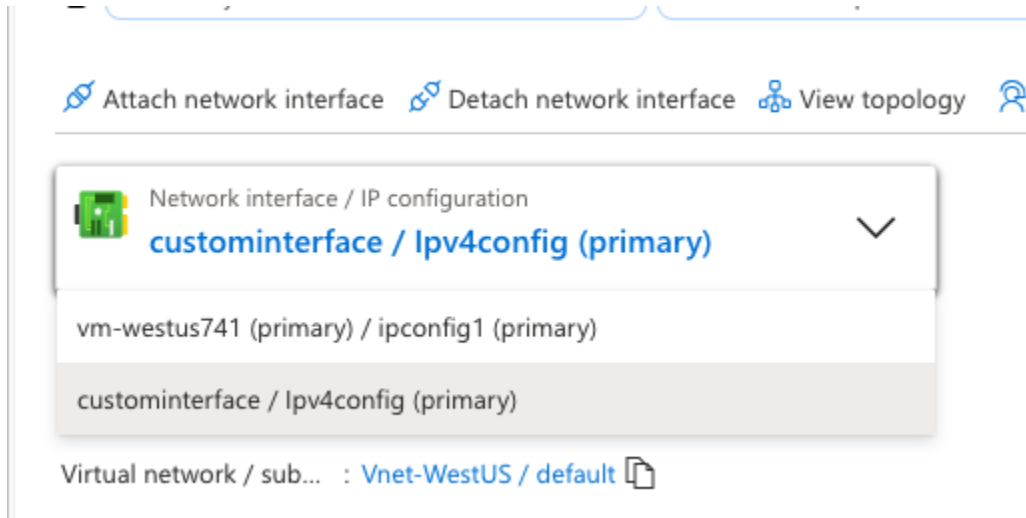
Filter for any field... Subscription equals all Resource group equals all Location equals West US [+ Add filter](#)

Showing 1 to 2 of 2 records.

<input type="checkbox"/>	Name ↑↓	Kind ↑↓	Virtual ... ↑↓	Primar... ↑↓	Attach... ↑↓	Resource group ↑↓
<input type="checkbox"/>	 custominterface	Regular	Vnet-WestUS	20.0.0.5	 VM-We...	7april

Azure Networking - I

3. Attach NIC to the previously created VM



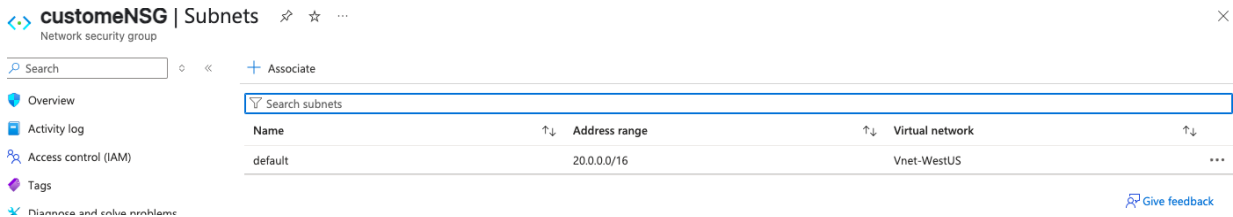
Assignment 4:

1. Use the previously created Linux VM

2. Install Apache2 on this VM

```
No VM guests are running outdated hypervisor (qemu) binaries on this host.
azureuser@VM-WestUS:~$ apache2 --version
[Thu Apr 10 14:48:46.980362 2025] [core:warn] [pid 2121] AH00111: Config variable ${APACHE_RUN_DIR} is not defined
apache2: Syntax error on line 80 of /etc/apache2/apache2.conf: DefaultRuntimeDir must be a valid directory, absolute or relative to ServerRoot
```

3. Create a Network Security Group to the subnet in which VM has been deployed

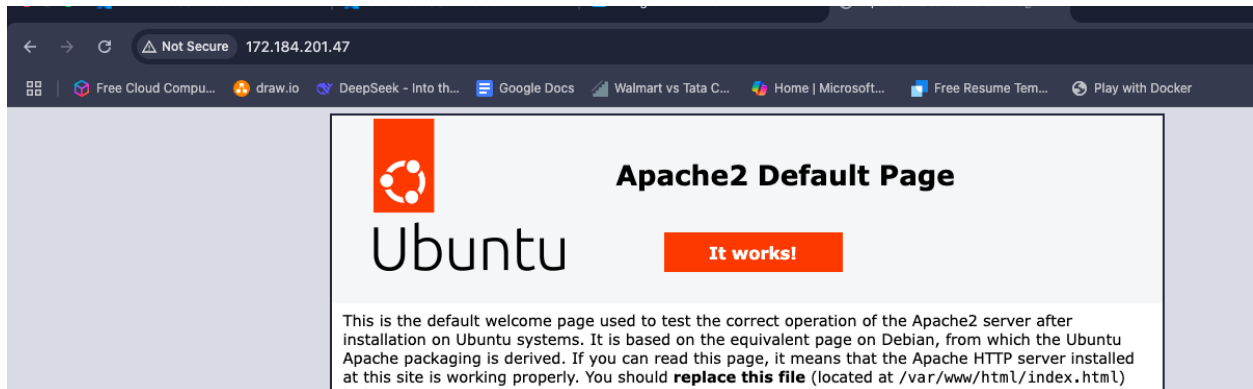


4. Open NSG rules for subnet and VM on port 80

Priority	Name	Port	Protocol	Source	Destination	Action
100	AllowAnySSHInbound	22	TCP	Any	Any	Allow
110	AllowAnyHTTPInbound	80	TCP	Any	Any	Allow

Azure Networking - I

5. Verify if you can see the Apache2 page



Assignment 5:

1. Use the previously created Apache2 VM
2. Get a free domain from freenom.com
3. Use Azure DNS to point this free domain to your VMs IP

