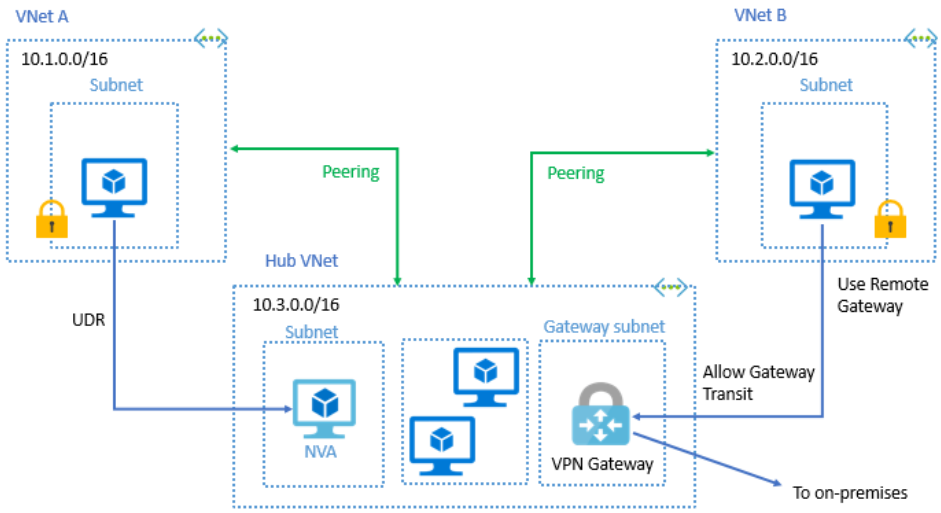
NEERAJ PANWAR (B7- CEQ545)

VNET (AZURE VIRTUAL NETWORK):

Azure Virtual Network (VNet) is the fundamental building block for your private network in Azure. VNet enables many types of Azure resources, such as Azure Virtual Machines (VM), to securely communicate with each other, the internet, and on-premises networks.

VNET PEERING:

Virtual network peering enables us to seamlessly connect two or more Virtual Networks in Azure. The virtual networks appear as one for connectivity purposes.



Through VNet Peering: We can connect virtual networks to each other, enabling resources in either virtual network to communicate with each other, using virtual network peering. We can connect to the virtual networks in the same, or different, Azure regions.

TYPES

Azure supports the following types of peering:

- Virtual network peering: Connecting virtual networks within the same Azure region.
- Global virtual network peering: Connecting virtual networks across Azure regions.

There are three types of peering -->

1) Vnet peering under **same subscription** under **same tenant** same region

2) Vnet peering under **different subscription same tenant** under same region

3) Vnet peering under **different subscription different tenant** same region

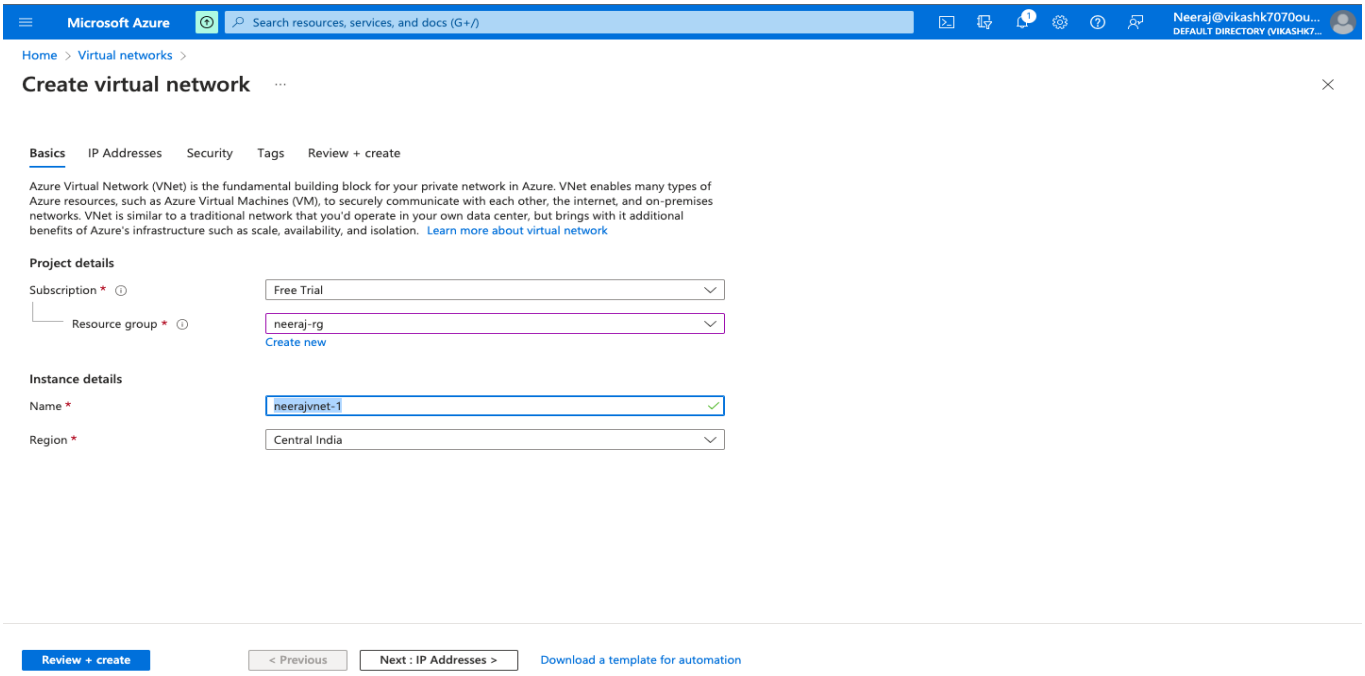
In this assignment, we will create 2 virtual network and 2 virtual machines under **same** resource group(**neeraj-rg**)

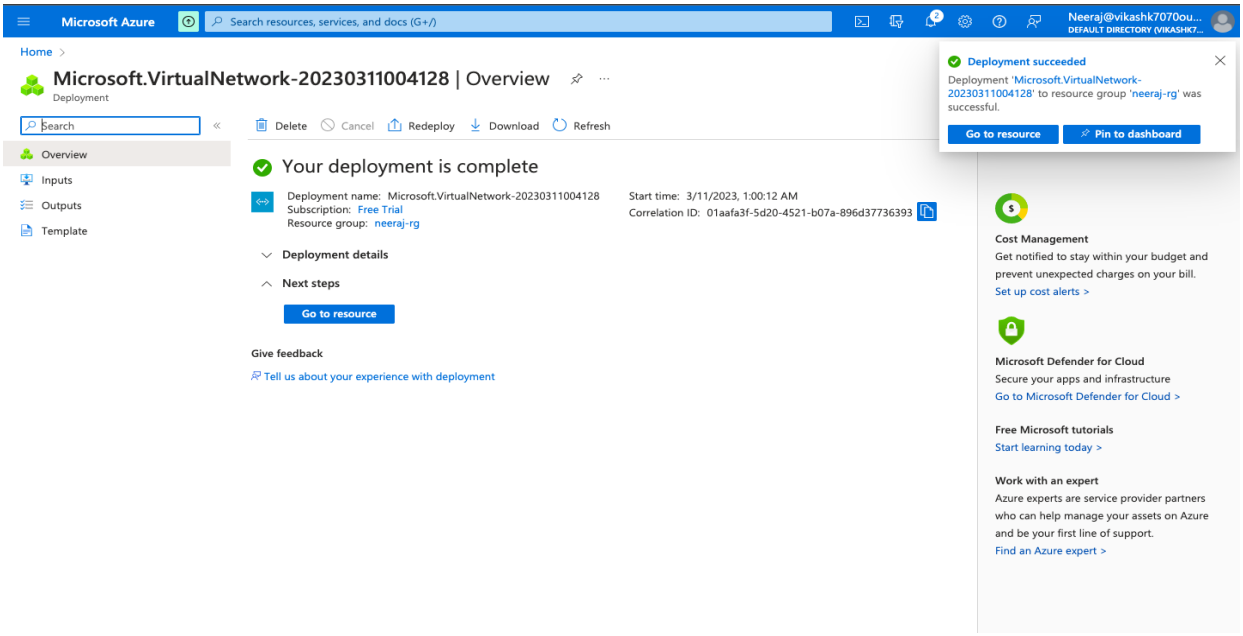
The two virtual networks are **neerajvnet-1** and **neerajvnet-2**

The two **VMs** are **neerajvm-1** and **neerajvm-2**

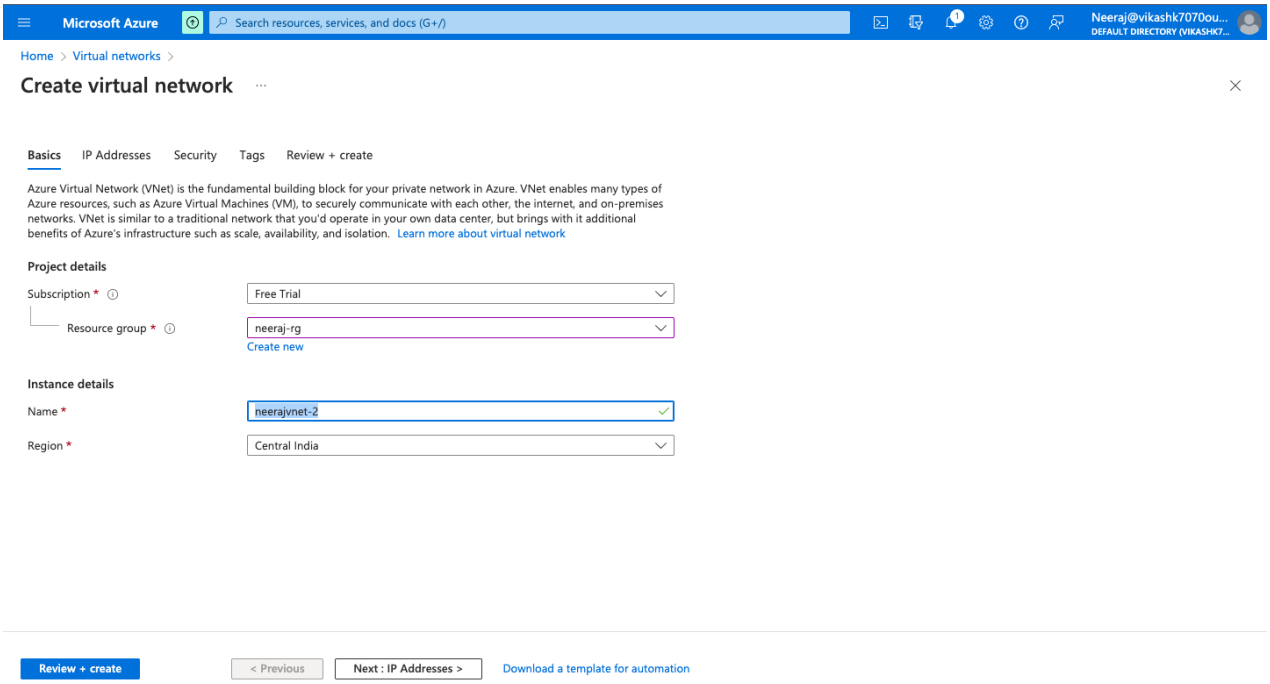
Creating VNETS

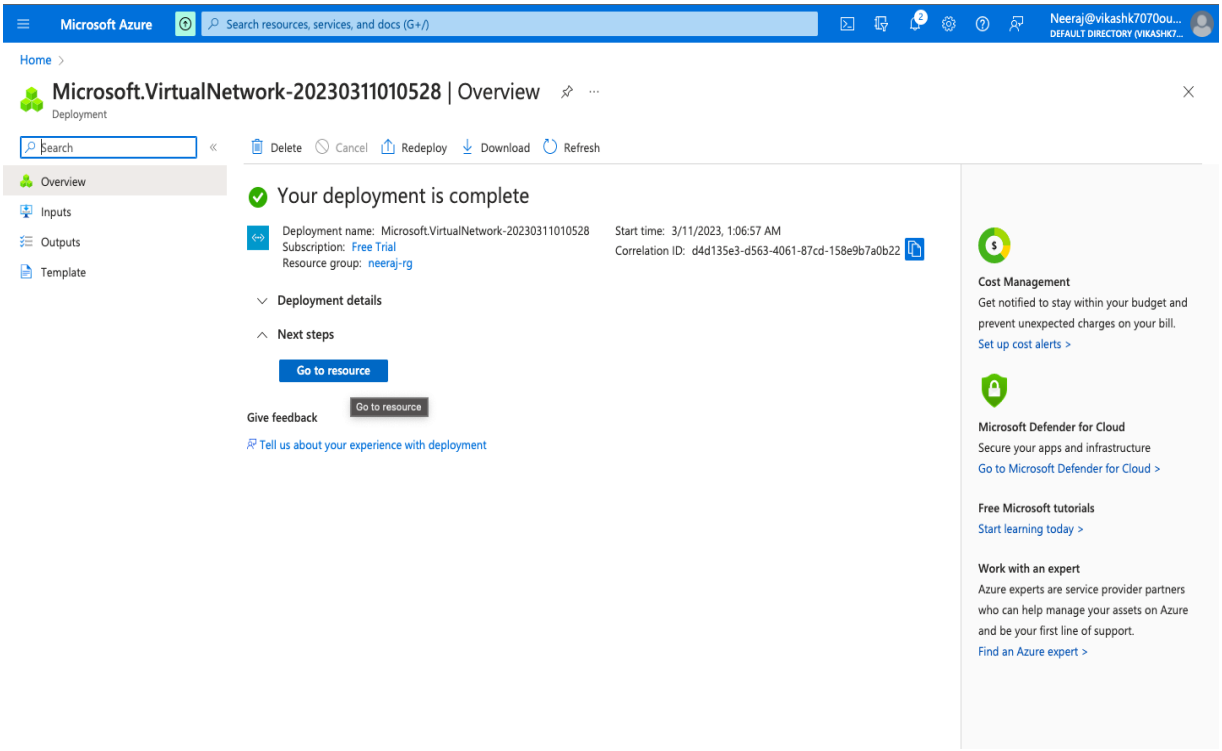
- Creating first VNET named **as neerajvnet-1**





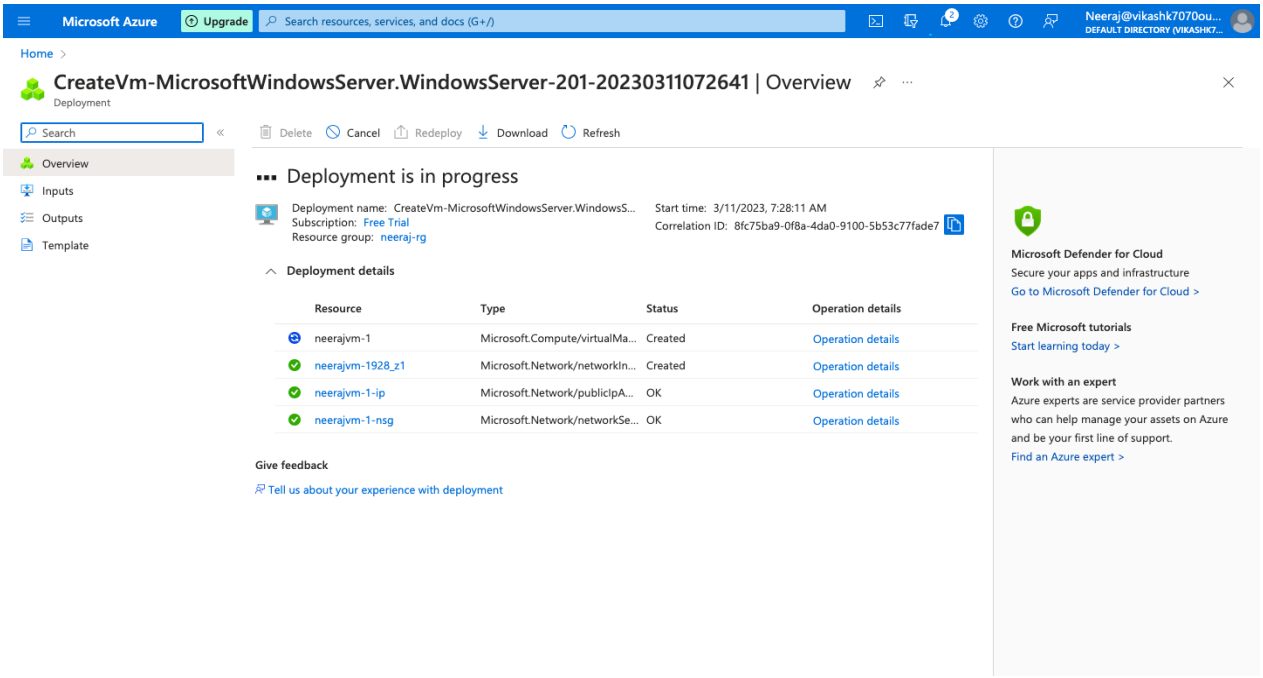
- Creating second VNET named as **neerajvnet-2**

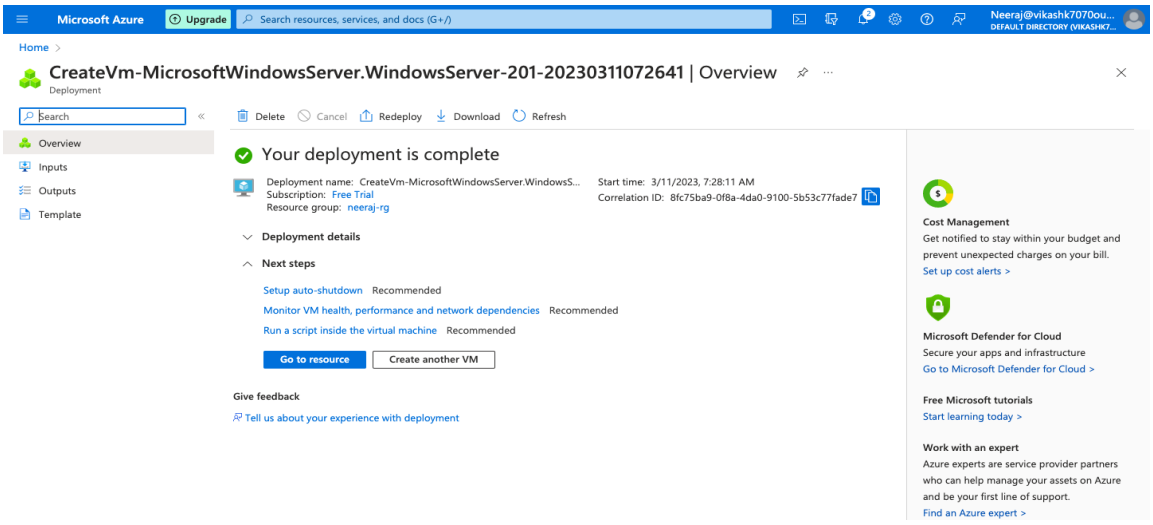




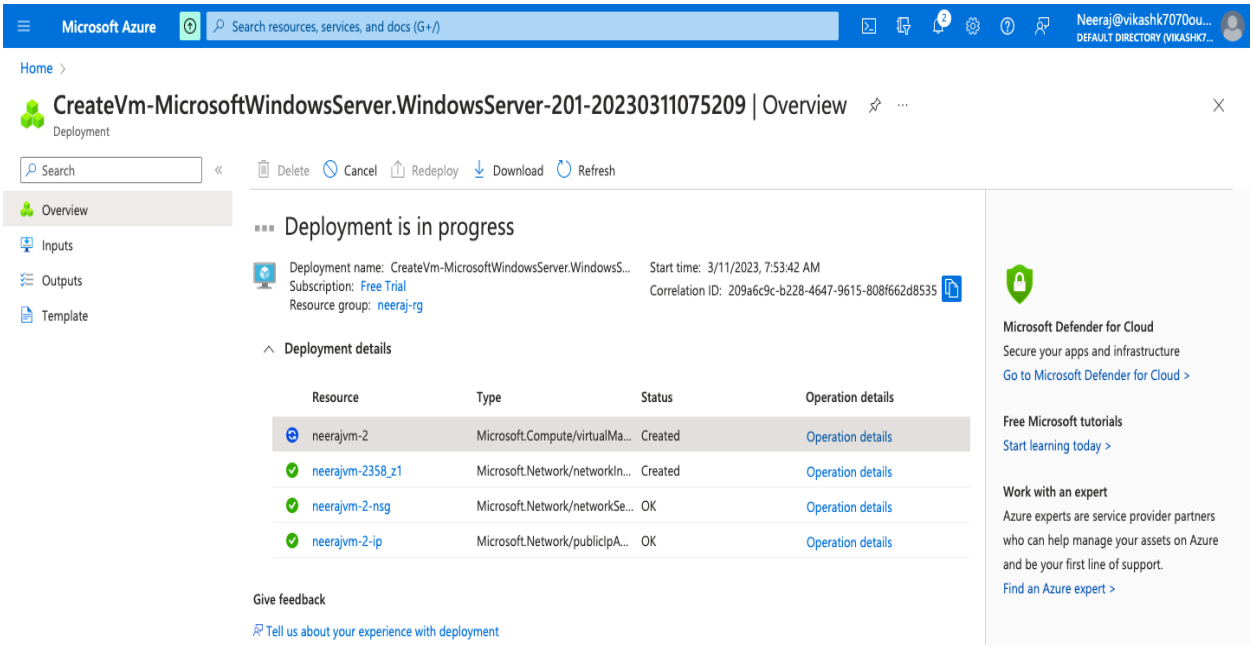
Creating VMs

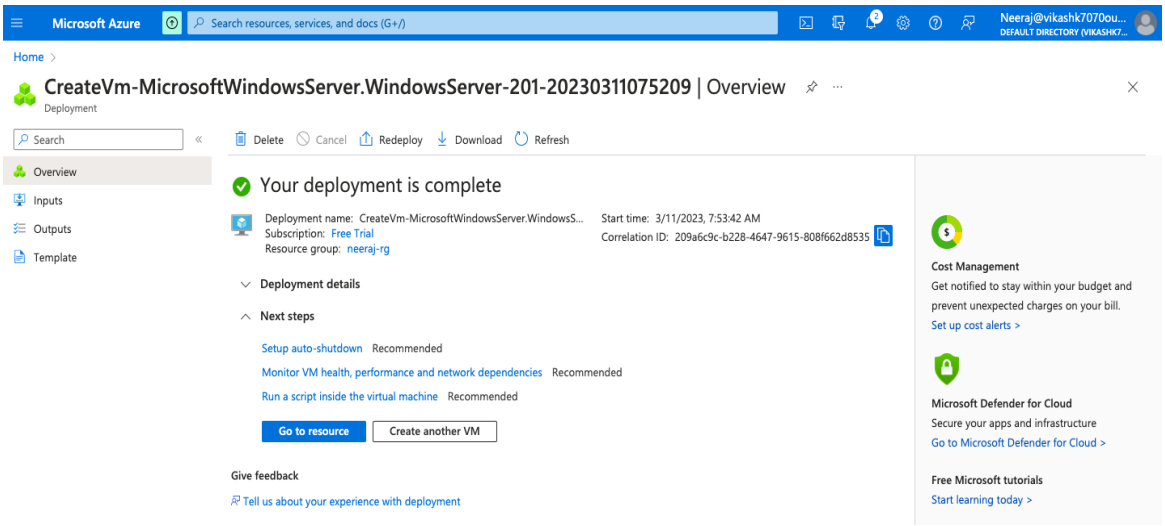
- Creating first VM named as “neerajvm-1”





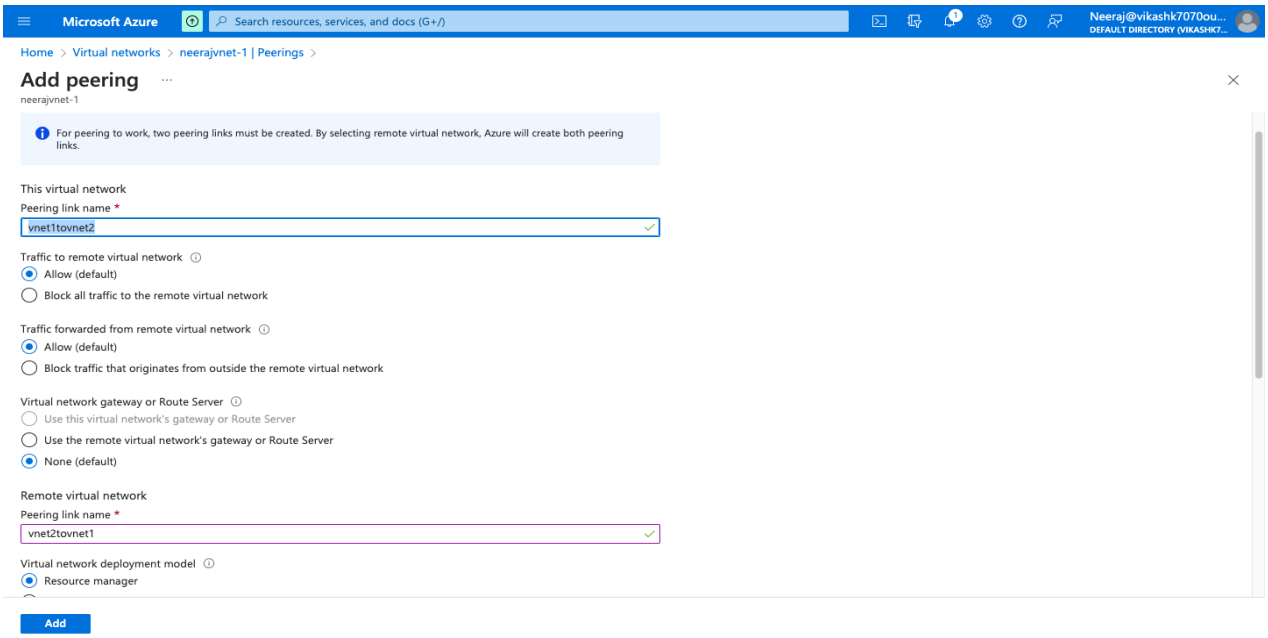
- Creating second VM named as “neerajvm-2”

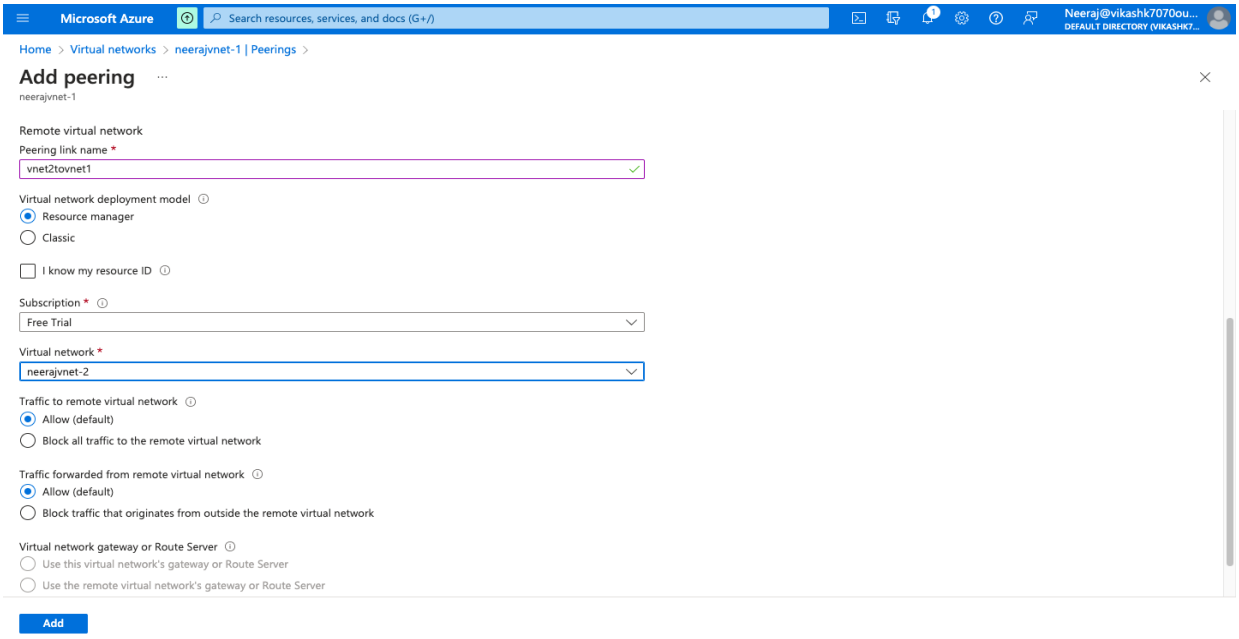


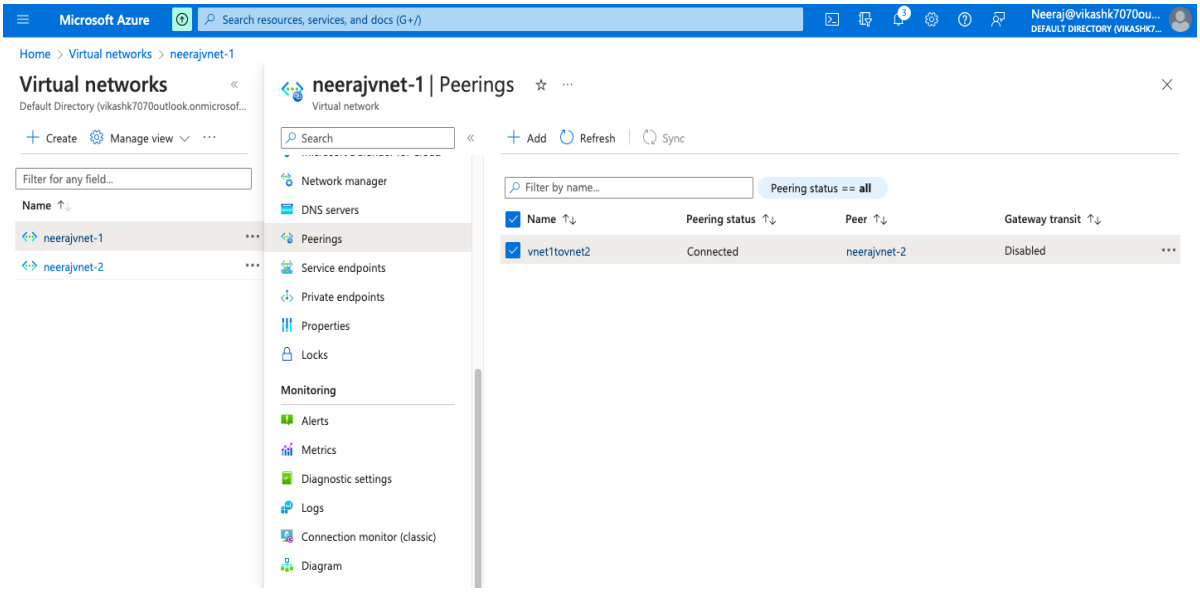


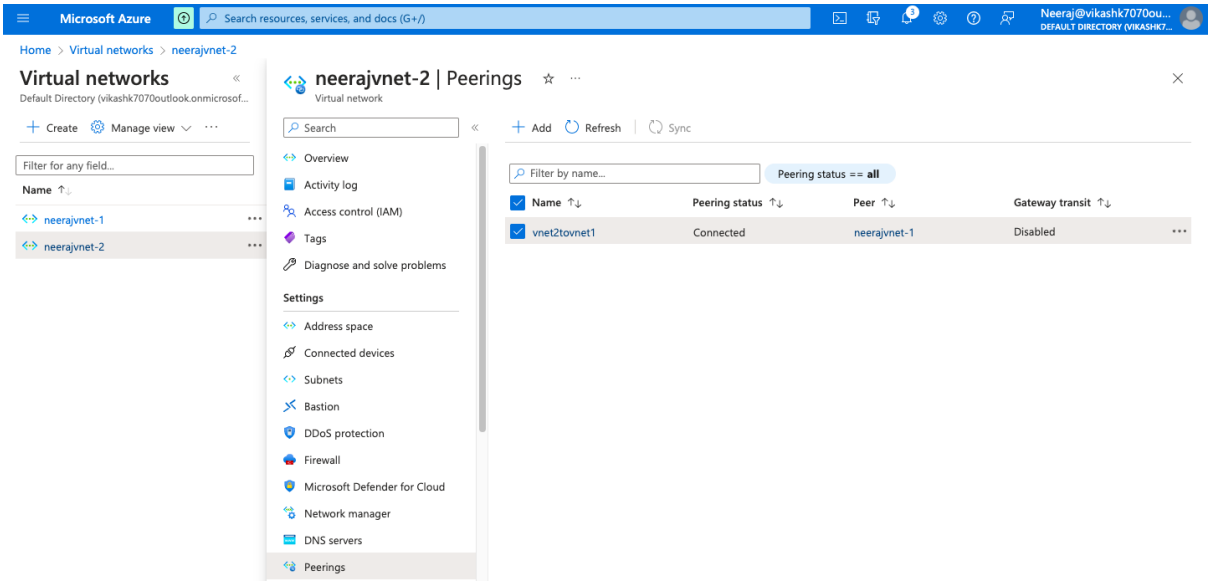
NOTE: We need to configure both VMs for peering by turning Firewall **OFF** in each VM, temporarily.

VNET PEERING






Microsoft Azure
Search resources, services, and docs (G+/)
Neeraj@vikashk7070ou...
DEFAULT DIRECTORY (VIKASHK7...
Home > Virtual networks > neerajvnet-1
Virtual networks
Default Directory (vikashk7070outlook.onmicrosof...
Create
Manage view
Filter for any field...
Name
neerajvnet-1
neerajvnet-2
neerajvnet-1 | Peerings
Virtual network
Search
Network manager
DNS servers
Peerings
Service endpoints
Private endpoints
Properties
Locks
Monitoring
Alerts
Metrics
Diagnostic settings
Logs
Connection monitor (classic)
Diagram
Add
Refresh
Sync
Filter by name...
Peering status == all
Name
Peering status
Peer
Gateway transit
vnet1tovnet2
Connected
neerajvnet-2
Disabled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Virtual networks
Default Directory (vikashk7070outlook.onmicrosof...
Create
Manage view
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Name
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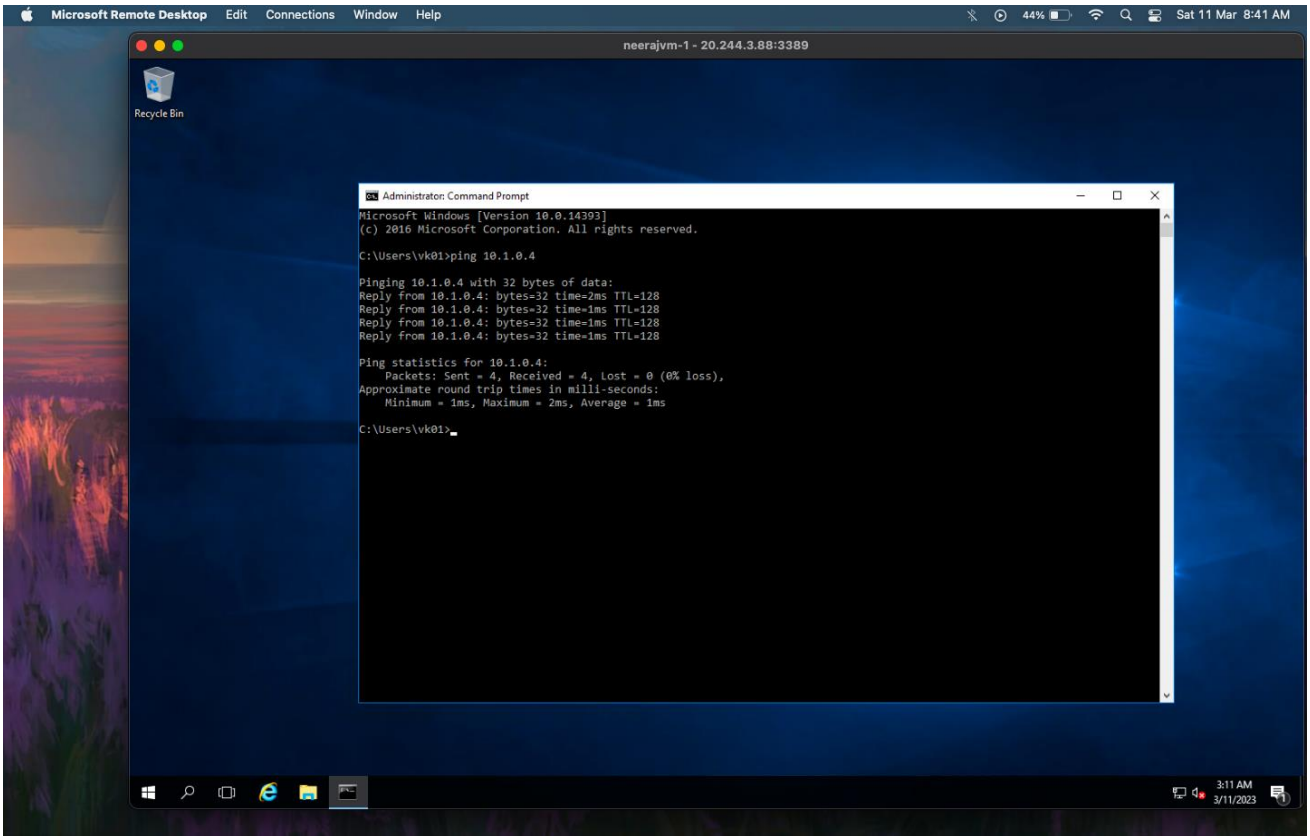
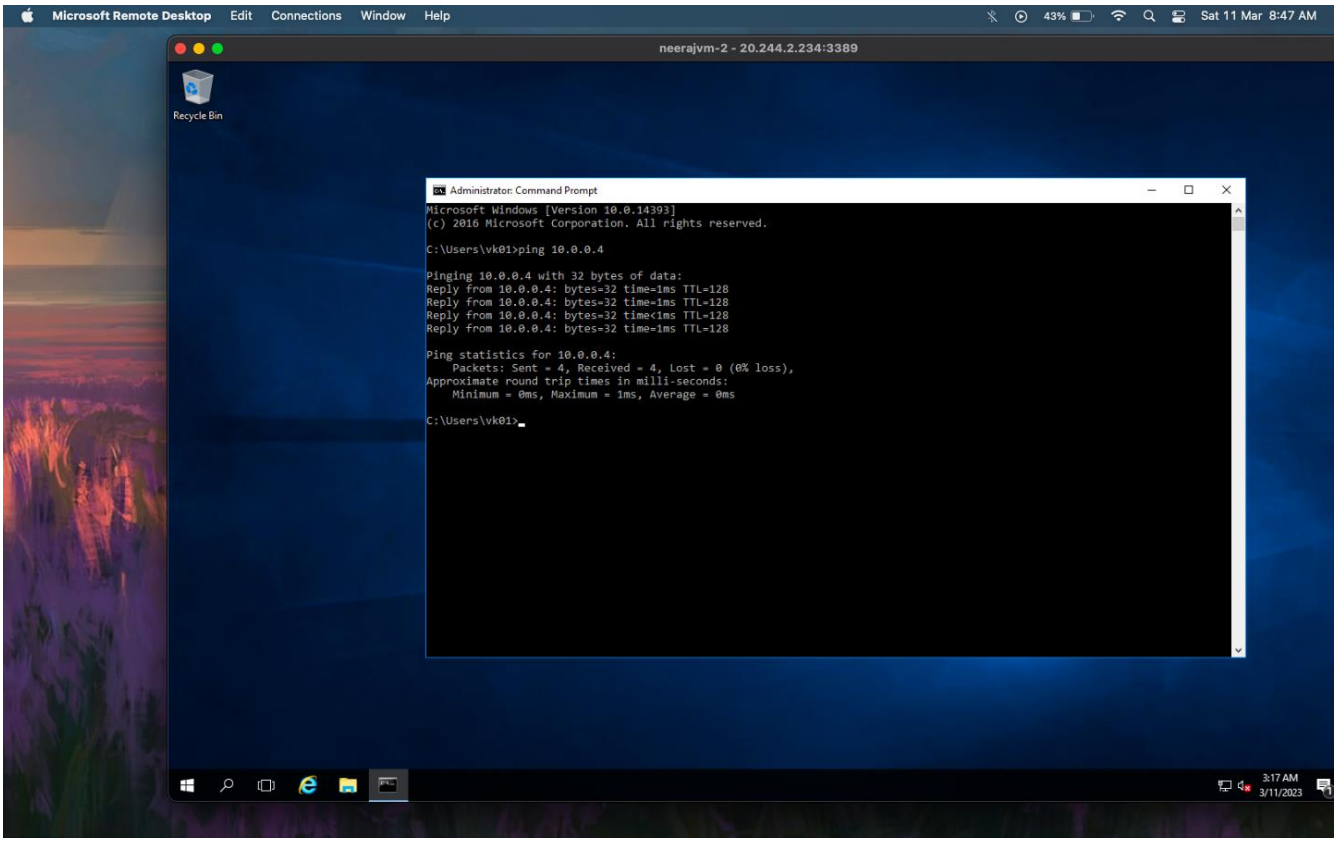
Virtual network
Search
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Settings
Address space
Connected devices
Subnets
Bastion
DDoS protection
Firewall
Microsoft Defender for Cloud
Network manager
DNS servers
Peerings
Add
Refresh
Sync
Filter by name...
Peering status == all
Name
Peering status
Peer
Gateway transit
vnet2tovnet1
Connected
neerajvnet-1
Disabled

PINGING VMs

- Pinging **VM2** from **VM1**



- Pinging **VM1** from **VM2**



Thank You!