Step 1: Create a Resource Group

Go to Azure Portal.

Showing 1 - 2 of 2. Display count: 100 V

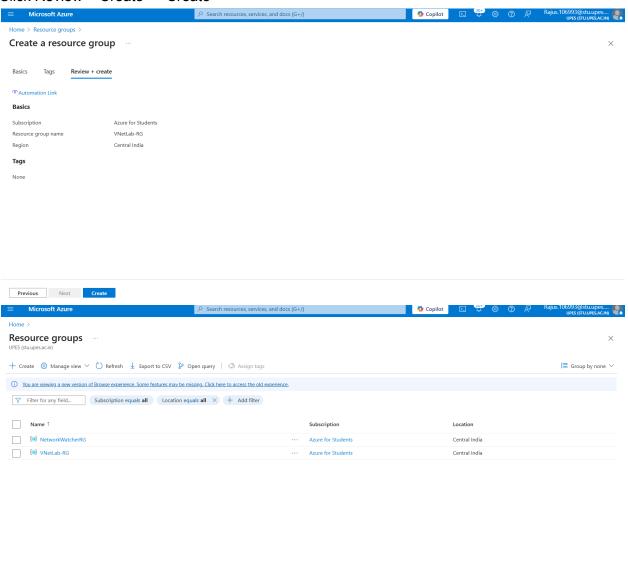
On the left sidebar \rightarrow Click on "Resource Groups" \rightarrow "+ Create".

Fill:

Resource Group Name: VNetLab-RG

Region: Example → Central India (or your preferred region)

Click Review + Create → Create



Give feedback

Step 2: Create VNet-1 with Subnets (For Windows and Linux VMs)

Go to "Virtual Networks" \rightarrow "+ Create"

Under Basics Tab:

Resource Group: VNetLab-RG

Name: VNet-1

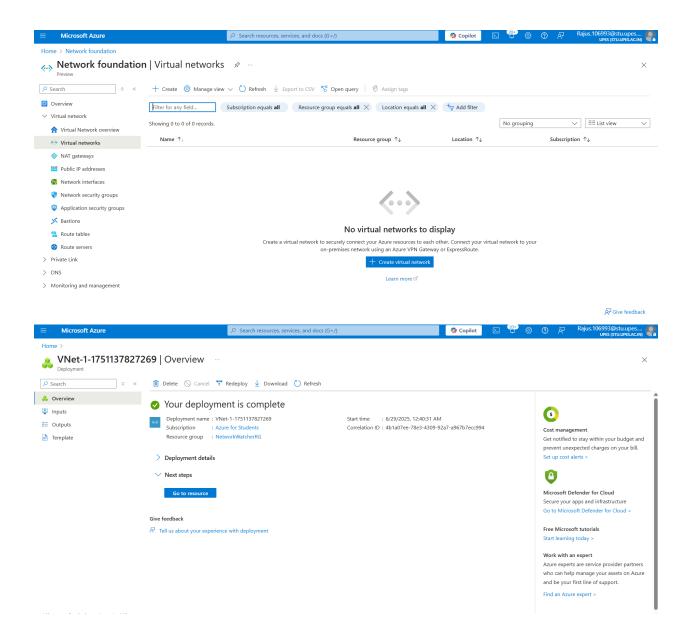
Region: Same as resource group (Example: Central India)

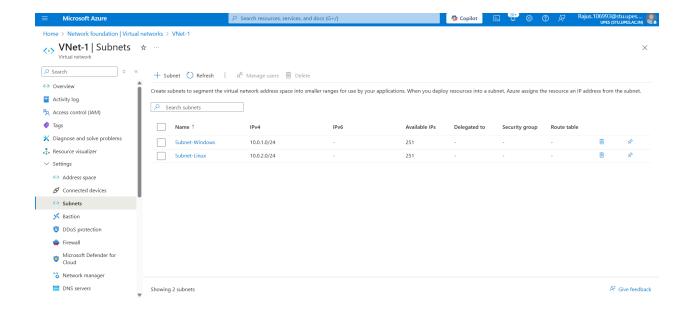
Under IP Addresses Tab: Address Space: 10.0.0.0/16

Add Two Subnets:

Subnet-Windows 10.0.1.0/24

Subnet-Linux 10.0.2.0/24





Step 3: Create VNet-2 with One Subnet (For VNet Peering Test VM)

Go to "Virtual Networks" → "+ Create"

Under Basics Tab:

Resource Group: VNetLab-RG

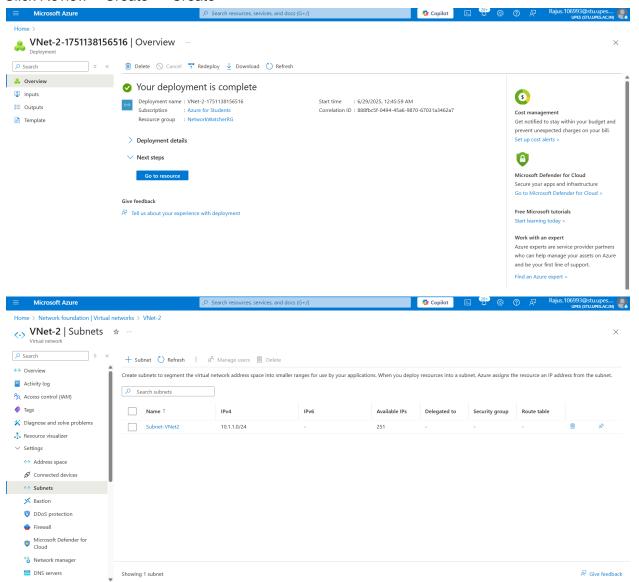
Name: VNet-2

Region: Same as VNet-1 Under IP Addresses Tab: Address Space: 10.1.0.0/16

Add One Subnet:

Subnet-VNet2 10.1.1.0/24

Click Review + Create → Create



Step 4: Deploy Windows VM in Subnet-Windows (VNet-1)

Go to "Virtual Machines" → "+ Create"

Under Basics Tab: Name: Windows-VM

Resource Group: VNetLab-RG

Region: Central India

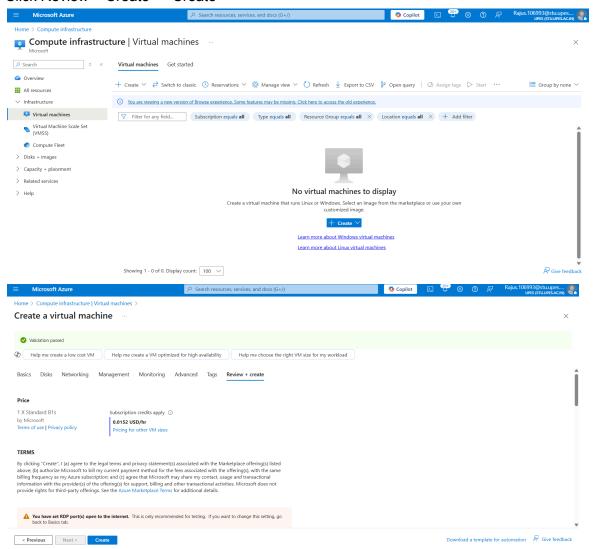
Image: Windows Server 2019 Datacenter

Size: Standard B1s

Authentication: Username + Password Inbound Ports: Allow RDP (3389)

Under Networking Tab: Virtual Network: VNet-1 Subnet: Subnet-Windows

Click Review + Create → Create



Step 5: Deploy Linux VM in Subnet-Linux (VNet-1)

Go to "Virtual Machines" \rightarrow "+ Create"

Under Basics Tab: Name: Linux-VM

Resource Group: VNetLab-RG

Region: Central India Image: Ubuntu 20.04 LTS

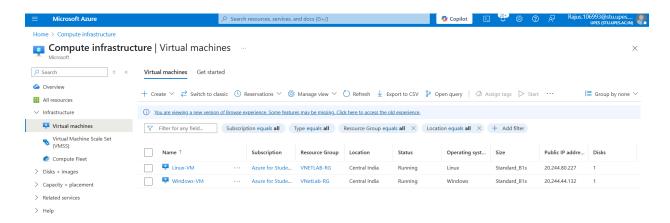
Size: Standard B1s

Authentication: Username + Password (or SSH)

Inbound Ports: Allow SSH (22)

Under Networking Tab: Virtual Network: VNet-1 Subnet: Subnet-Linux

Click Review + Create → Create



Step 6: Configure Network Security Group (NSG) Rules (Optional if auto-created)

Go to Azure Portal → Network Security Groups (or directly from each VM's Networking tab).

For both Windows-VM and Linux-VM NSGs:

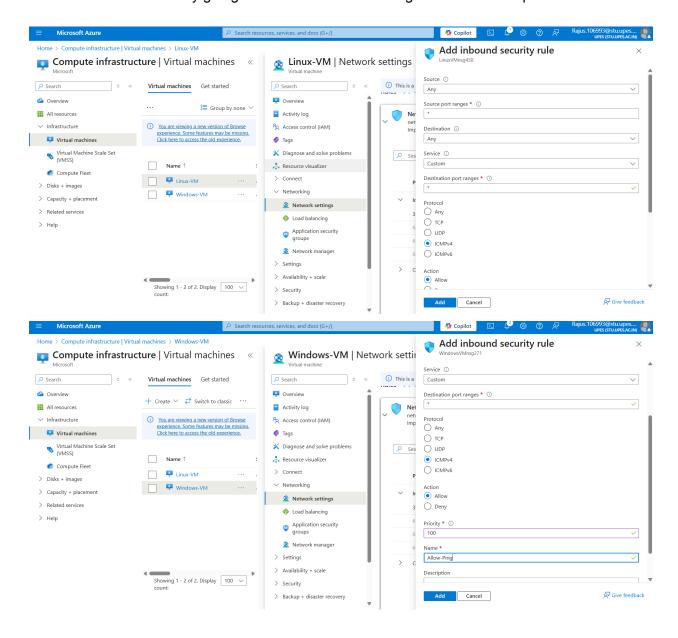
Ensure inbound rules allow RDP (3389) for Windows-VM.

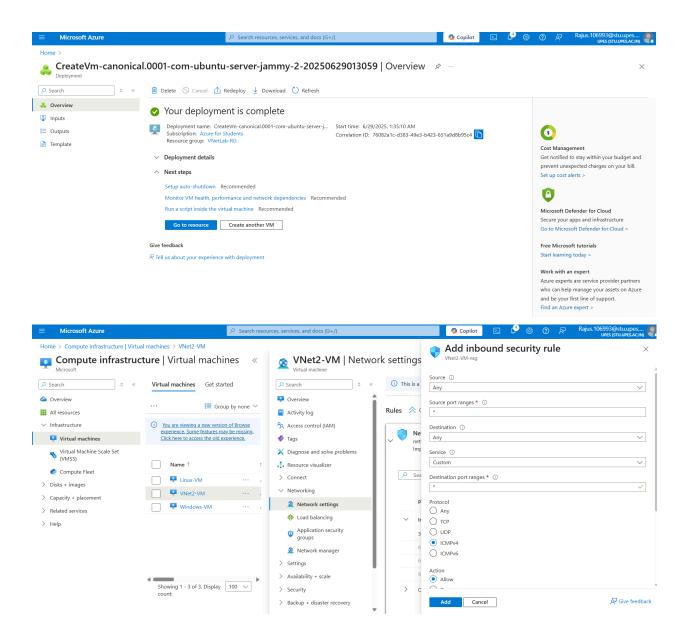
Ensure inbound rules allow SSH (22) for Linux-VM.

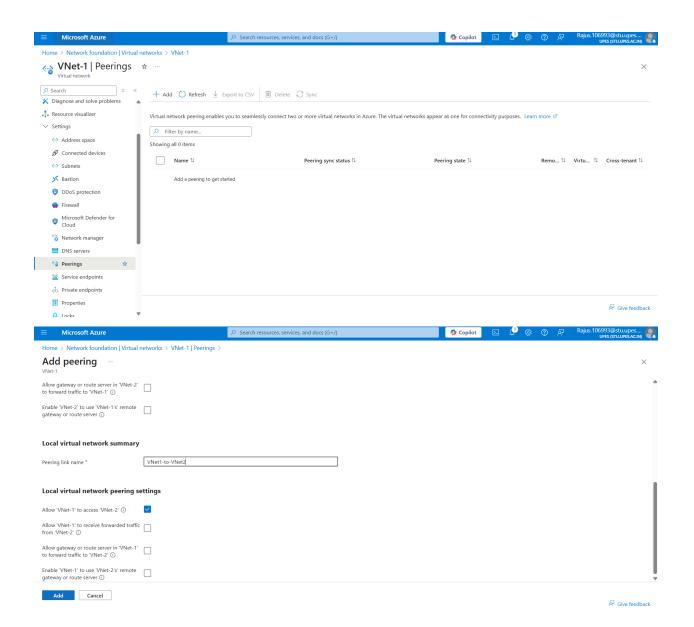
For Ping (ICMP), add a new inbound rule:

Protocol: ICMP Source: Any Destination: Any Action: Allow

You can create this rule by going to each VM \rightarrow Networking \rightarrow Add inbound port rule.







Step 7: Create VNet Peering from VNet-1 to VNet-2

Go to Azure Portal → Virtual Networks → VNet-1 → Peerings → "+ Add".

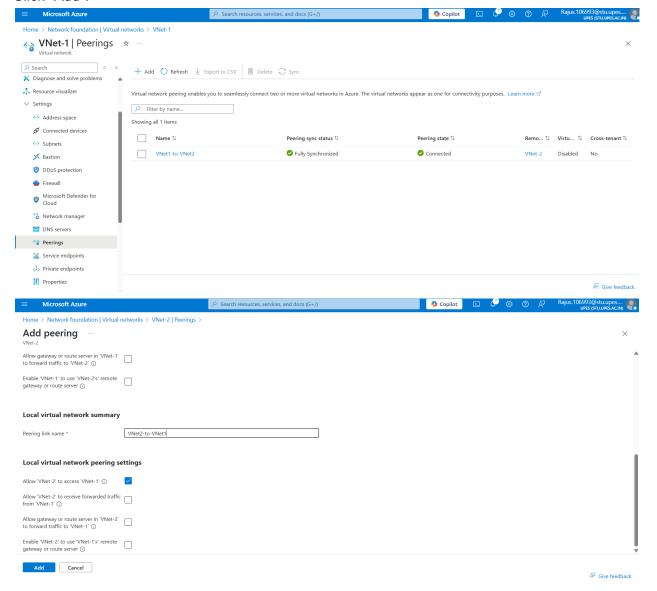
For Peering link name: VNet1-to-VNet2 For remote virtual network: Select VNet-2

Check the option:

Allow VNet-2 to access VNet-1 (enable)

Leave others unchecked (for simple peering).

Click "Add".



Step 8: Create VNet Peering from VNet-2 to VNet-1

Go to Virtual Networks \rightarrow VNet-2 \rightarrow Peerings \rightarrow "+ Add".

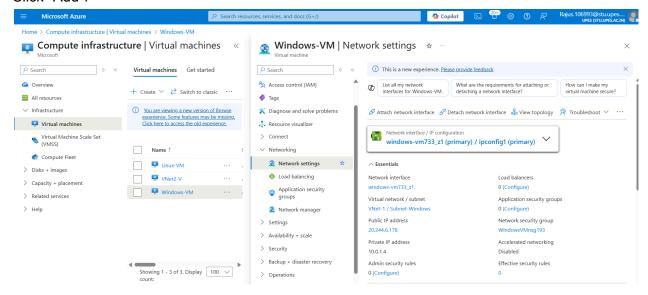
Peering link name: VNet2-to-VNet1 Remote virtual network: Select VNet-1

Check:

Allow VNet-1 to access VNet-2 (enable)

Leave others unchecked.

Click "Add".



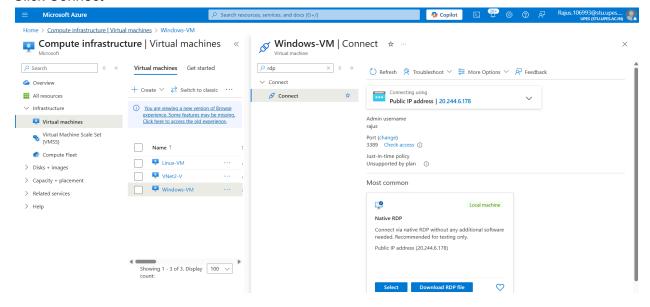
Click on Connect → Select RDP

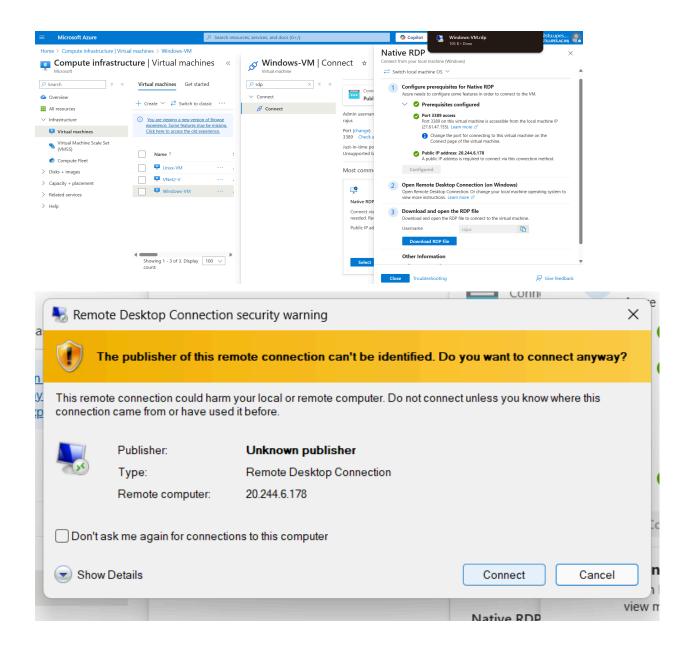
Click Download RDP File

Open the downloaded .rdp file on your PC

Enter the Username and Password you set while creating the VM

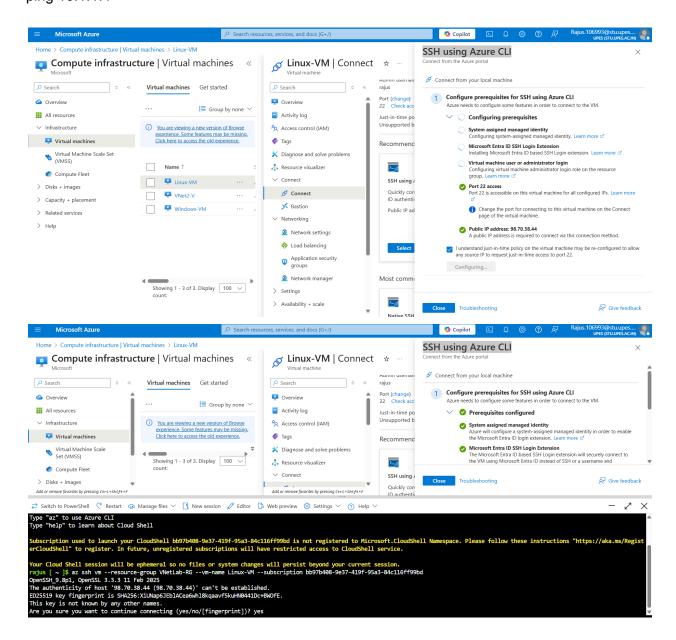
Click Connect





```
RecyNicrosoft Windows [Version 10.0.20348.3807]
    (c) Microsoft Corporation. All rights reserved.
 C:\Users\rajus>ping 10.0.2.4
Pinging 10.0.2.4 with 32 bytes of data:
MicReply from 10.0.2.4: bytes=32 time=1ms TTL=64
Reply from 10.0.2.4: bytes=32 time=1ms TTL=64
Reply from 10.0.2.4: bytes=32 time<1ms TTL=64
    Reply from 10.0.2.4: bytes=32 time=1ms TTL=64
   Ping statistics for 10.0.2.4:
        Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
    C:\Users\rajus>ping 10.1.1.4
    Pinging 10.1.1.4 with 32 bytes of data:
    Reply from 10.1.1.4: bytes=32 time=2ms TTL=64
    Reply from 10.1.1.4: bytes=32 time=1ms TTL=64
    Reply from 10.1.1.4: bytes=32 time=1ms TTL=64
    Reply from 10.1.1.4: bytes=32 time=1ms TTL=64
    Ping statistics for 10.1.1.4:
        Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
     Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 2ms, Average = 1ms
     C:\Users\rajus>_
```

From Linux-VM, run: ping 10.0.2.4 ping 10.1.1.4



From VNet2-VM ping 10.0.2.4 ping 10.1.1.4

```
New release '24.04.2 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Sun Jun 29 06:26:05 2025 from 4.224.111.199
To run a command as administrator (user "root"), use "sudo <command>".

See "man sudo_root" for details.

rajus.106993@stu.upes.ac.in@tinux-Wi-5 ping 10.0.1.4
PING 10.0.1.4 (10.0.1.4) 56(84) bytes of data.
```

```
rajus.106993@stu.upes.ac.in@VNet2-V:~$ ping 10.0.2.4
PING 10.0.2.4 (10.0.2.4) 56(84) bytes of data.
64 bytes from 10.0.2.4: icmp seq=1 ttl=64 time=2.18 ms
64 bytes from 10.0.2.4: icmp seq=2 ttl=64 time=1.81 ms
64 bytes from 10.0.2.4: icmp seq=3 ttl=64 time=0.959 ms
64 bytes from 10.0.2.4: icmp seq=4 ttl=64 time=1.66 ms
64 bytes from 10.0.2.4: icmp seq=5 ttl=64 time=2.53 ms
64 bytes from 10.0.2.4: icmp seq=6 ttl=64 time=1.39 ms
64 bytes from 10.0.2.4: icmp seq=7 ttl=64 time=0.830 ms
64 bytes from 10.0.2.4: icmp seq=8 ttl=64 time=1.08 ms
64 bytes from 10.0.2.4: icmp seq=9 ttl=64 time=1.33 ms
64 bytes from 10.0.2.4: icmp seq=10 ttl=64 time=1.16 ms
64 bytes from 10.0.2.4: icmp seq=11 ttl=64 time=1.62 ms
64 bytes from 10.0.2.4: icmp seq=12 ttl=64 time=1.80 ms
64 bytes from 10.0.2.4: icmp seq=13 ttl=64 time=1.65 ms
64 bytes from 10.0.2.4: icmp seq=14 ttl=64 time=3.87 ms
64 bytes from 10.0.2.4: icmp seq=15 ttl=64 time=1.20 ms
64 bytes from 10.0.2.4: icmp seq=16 ttl=64 time=1.67 ms
64 bytes from 10.0.2.4: icmp seq=17 ttl=64 time=0.906 ms
64 bytes from 10.0.2.4: icmp seq=18 ttl=64 time=1.69 ms
64 bytes from 10.0.2.4: icmp seq=19 ttl=64 time=2.21 ms
64 bytes from 10.0.2.4: icmp seq=20 ttl=64 time=1.25 ms
64 bytes from 10.0.2.4: icmp seq=21 ttl=64 time=1.67 ms
64 bytes from 10.0.2.4: icmp seq=22 ttl=64 time=1.88 ms
64 bytes from 10.0.2.4: icmp seq=23 ttl=64 time=1.33 ms
64 bytes from 10.0.2.4: icmp seq=24 ttl=64 time=1.10 ms
64 bytes from 10.0.2.4: icmp seq=25 ttl=64 time=1.69 ms
64 bytes from 10.0.2.4: icmp seq=26 ttl=64 time=1.40 ms
64 bytes from 10.0.2.4: icmp seq=27 ttl=64 time=2.75 ms
64 bytes from 10.0.2.4: icmp seq=28 ttl=64 time=1.47 ms
64 bytes from 10.0.2.4: icmp seq=29 ttl=64 time=2.50 ms
```