Module 6: Assignment 1

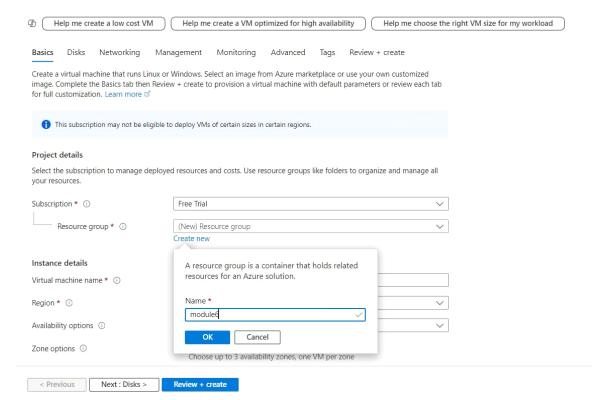
Tasks To Be Performed:

- 1. Create a virtual network in West US
- 2. Create another virtual network in South India
- 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
- 5. Create VNet-VNet peering to connect West US and South India VM
- 6. Check this by pinging VM1 to VM2 via ping command using private IP address

Solution:

- 2. Create another virtual network in South India
- 4. Deploy virtual machine in South India inside virtual network in South India

Home > Virtual machines >



Home > Virtual machines > Create a virtual machine Help me create a low cost VM Help me create a VM optimized for high availability Help me choose the right VM size for my workload Basics Disks Networking Management Monitoring Advanced Tags Review + create $Create\ a\ virtual\ machine\ that\ runs\ Linux\ or\ Windows.\ Select\ an\ image\ from\ Azure\ marketplace\ or\ use\ your\ own\ customized$ image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. Learn more $\vec{\mathbf{c}}$ 1 This subscription may not be eligible to deploy VMs of certain sizes in certain regions. Project details Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources. Subscription * ① Free Trial Resource group * ① module6 Create new Instance details Virtual machine name * ① vm-southindia Region * ① (Asia Pacific) South India

No infrastructure redundancy required

Trusted launch virtual machines

Configure security features

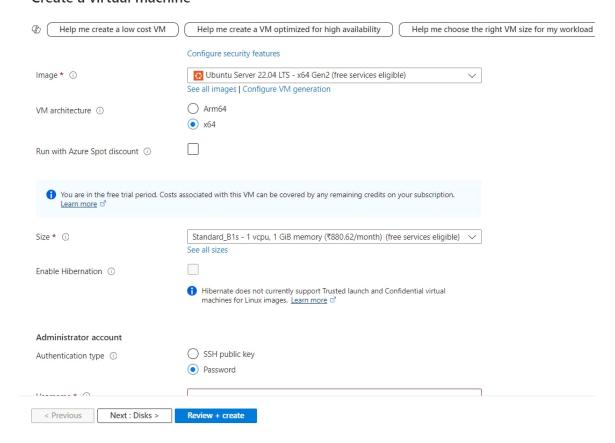
Review + create

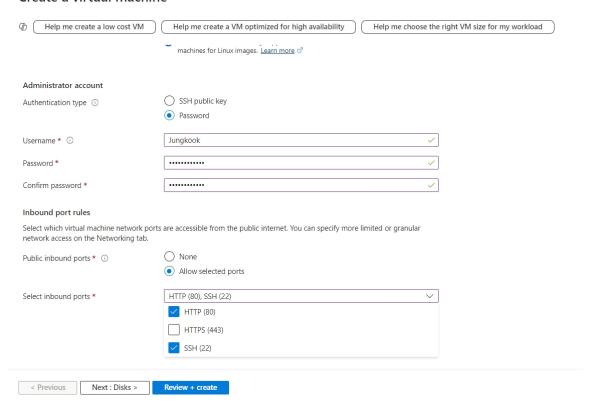
Availability options ①

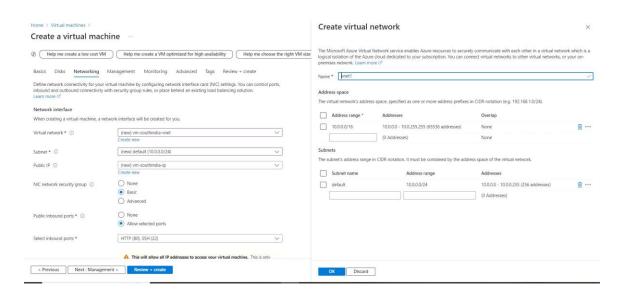
Next : Disks >

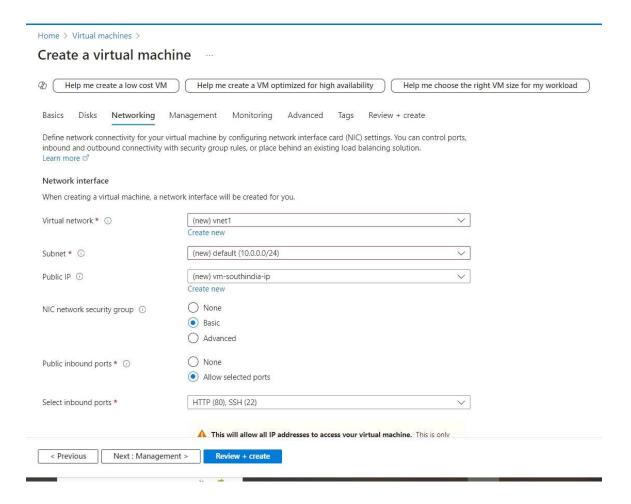
Security type ①

< Previous

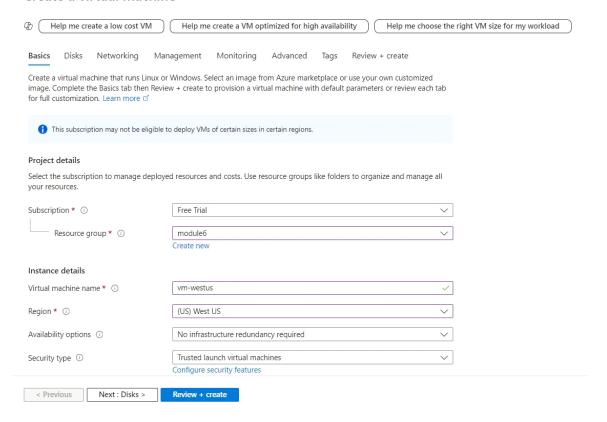


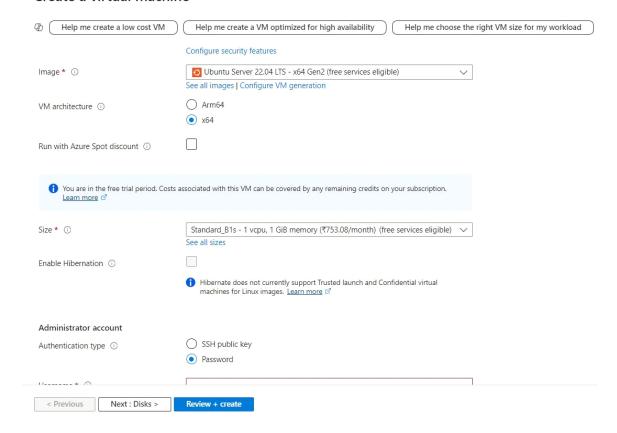




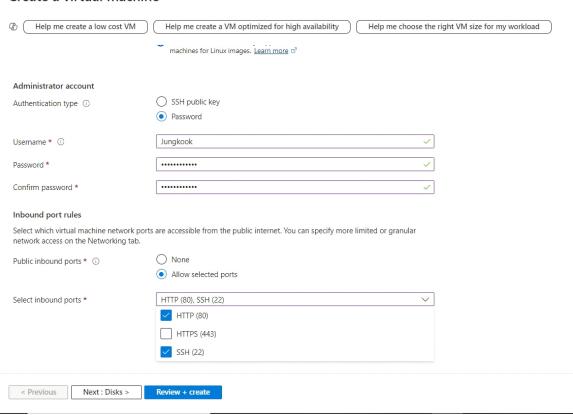


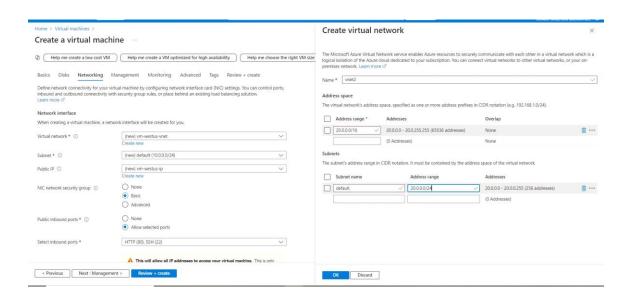
- 1. Create a virtual network in West US
- 3. Deploy virtual machine in West US with the virtual network in West US

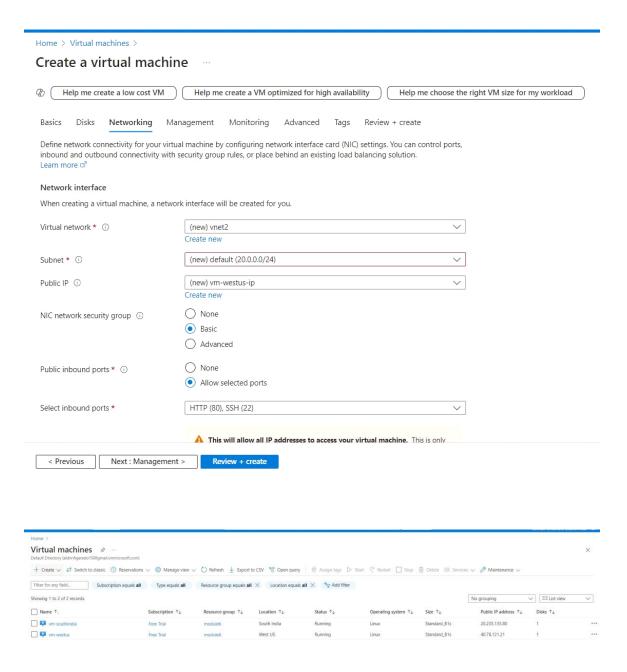




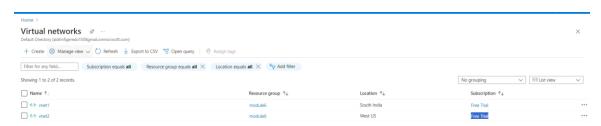
Home > Virtual machines >

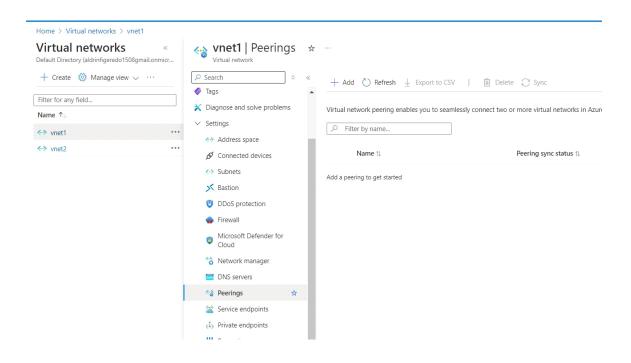






5. Create VNet-VNet peering to connect West US and South India VM



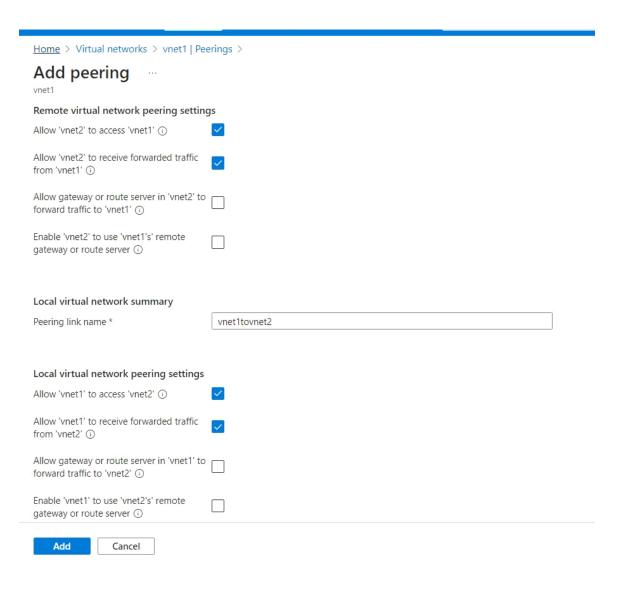


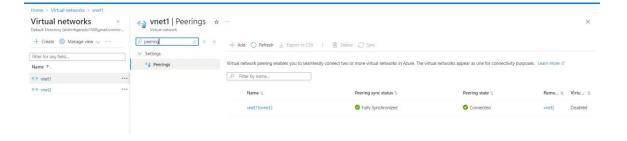
Home > Virtual networks > vnet1 | Peerings >

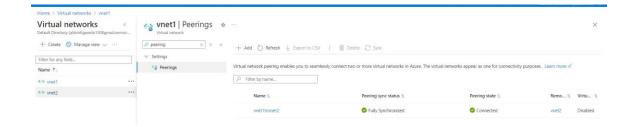
Add peering ...

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.

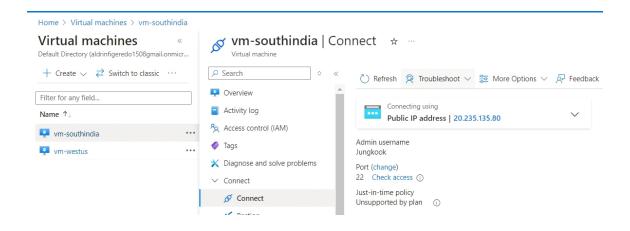
Remote virtual network summary	
Peering link name *	vnet1tovnet2
Virtual network deployment model ①	Resource manager
	Classic
I know my resource ID ①	
Subscription *	Free Trial V
Virtual network *	vnet2 (module6)
Remote virtual network peering setting	js
Allow 'vnet2' to access 'vnet1' ①	
Allow 'vnet2' to receive forwarded traffic from 'vnet1' $\textcircled{\scriptsize 1}$	
Allow gateway or route server in 'vnet2' to forward traffic to 'vnet1' \bigcirc	
Enable 'vnet2' to use 'vnet1's' remote gateway or route server ①	
Add Cancel	



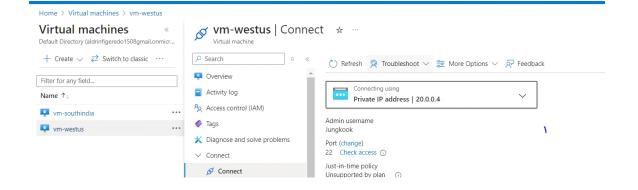




6. Check this by pinging VM1 to VM2 via ping command using private IP address



System information as of Fri Sep 6 08:06:26 UTC 2024 System load: 0.09 Processes: 104 Usage of /: 5.9% of 28.89GB Users logged in: Memory usage: 34% IPv4 address for eth0: 10.0.0.4 Swap usage: Expanded Security Maintenance for Applications is not enabled. 10 updates can be applied immediately. 10 of these updates are standard security updates. To see these additional updates run: apt list --upgradable Enable ESM Apps to receive additional future security updates. See https://ubuntu.com/esm or run: sudo pro status The programs included with the Ubuntu system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright. Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law. To run a command as administrator (user "root"), use "sudo <command>". See "man sudo root" for details. Jungkook@vm-southindia:~\$



```
Jungkook@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=2 ttl=64 time=201 ms

64 bytes from 20.0.0.4: icmp_seq=3 ttl=64 time=201 ms

64 bytes from 20.0.0.4: icmp_seq=4 ttl=64 time=201 ms

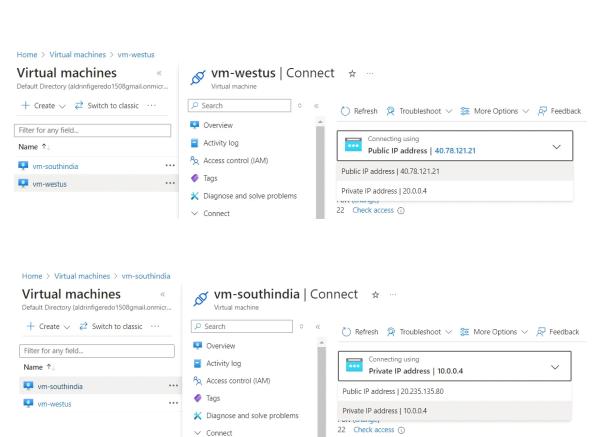
64 bytes from 20.0.0.4: icmp_seq=5 ttl=64 time=201 ms

64 bytes from 20.0.0.4: icmp_seq=6 ttl=64 time=201 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=201 ms

64 bytes from 20.0.0.4: icmp_seq=8 ttl=64 time=201 ms
```



```
System information as of Fri Sep 6 08:09:10 UTC 2024
  System load: 0.07
                                  Processes:
                                                         102
  Usage of /:
               5.2% of 28.89GB
                                  Users logged in:
 Memory usage: 34%
                                  IPv4 address for eth0: 20.0.0.4
 Swap usage:
Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
Jungkook@vm-westus:~$ ping 10.0.0.4
PING 10.0.0.4 (10.0.0.4) 56(84) bytes of data.
64 bytes from 10.0.0.4: icmp_seq=1 ttl=64 time=201 ms
64 bytes from 10.0.0.4: icmp_seq=2 ttl=64 time=201 ms
64 bytes from 10.0.0.4: icmp_seq=3 ttl=64 time=201 ms
64 bytes from 10.0.0.4: icmp_seq=4 ttl=64 time=201 ms
64 bytes from 10.0.0.4: icmp seq=5 ttl=64 time=203 ms
64 bytes from 10.0.0.4: icmp_seq=6 ttl=64 time=201 ms
64 bytes from 10.0.0.4: icmp_seq=7 ttl=64 time=201 ms
64 bytes from 10.0.0.4: icmp_seq=8 ttl=64 time=201 ms
64 bytes from 10.0.0.4: icmp_seq=9 ttl=64 time=201 ms
64 bytes from 10.0.0.4: icmp_seq=10 ttl=64 time=201 ms
64 bytes from 10.0.0.4: icmp_seq=11 ttl=64 time=201 ms
64 bytes from 10.0.0.4: icmp_seq=12 ttl=64 time=201 ms
64 bytes from 10.0.0.4: icmp_seq=13 ttl=64 time=201 ms
64 bytes from 10.0.0.4: icmp_seq=14 ttl=64 time=200 ms
64 bytes from 10.0.0.4: icmp_seq=15 ttl=64 time=201 ms
64 bytes from 10.0.0.4: icmp seq=16 ttl=64 time=201 ms
```