#### Requirements: -

- Create virtual networks in the aforementioned region
- Create test virtual machines in both the virtual networks
- Establish the connectivity between both the networks via VNet peering
- Ensure connectivity is established properly

Lab screenshots and explanation: -

Step – 1 -> Created 2 resource groups.

Headquarters Resource group name - OSS\_RGH (Region - East US)

Branch Resource group name - OSS\_RGB (Region - Southeast Asia)

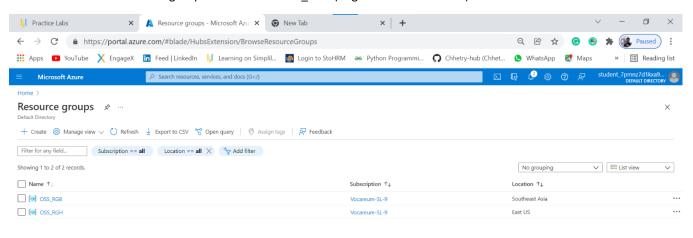




fig 0.1: Resource groups

Step - 2 -> Created Storage group

Headquarters storage group name – osshs1
Branch storage group name – ossbs2

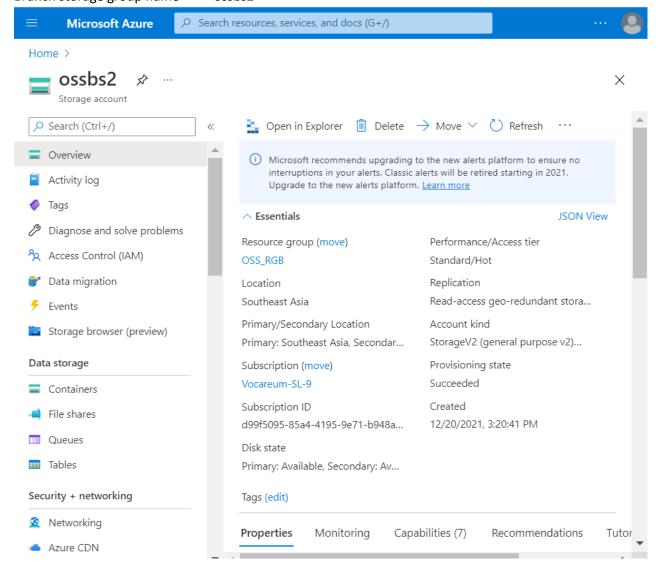


Fig: Storages account in branch sever

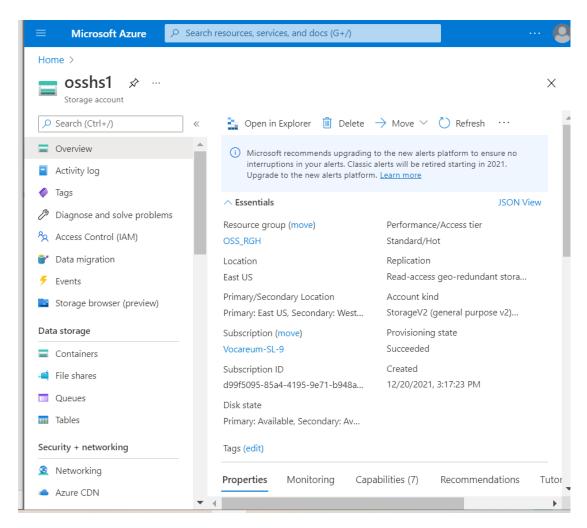
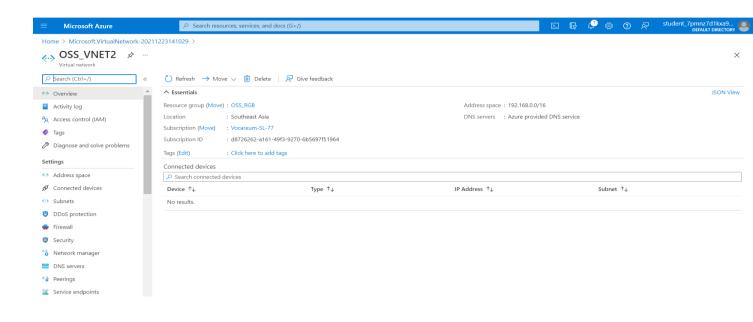


Fig: Storage account for Headquarter Sever

#### Step - 3 -> Created Virtual Network & Subnet

Headquarter Vnet details: -	
Name - OSS_VNET1	
IP Range - 10.0.0.0/16	
Subnet name - OSS_VNET1_subnet	
Subnet Range - 10.0.1.0/24	

# Branch Vnet details: Name - OSS\_VNET2 IP Range - 192.168.0.0/16 Subnet name - OSS\_VNET2\_subnet Subnet Range - 192.168.1.0/24



#### Fig: Vnet for Branch

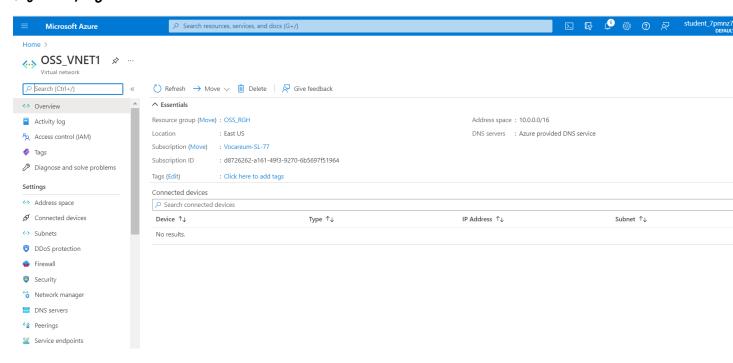


Fig: Vnet for Headquarter

Step - 4 -> Created virtual machine

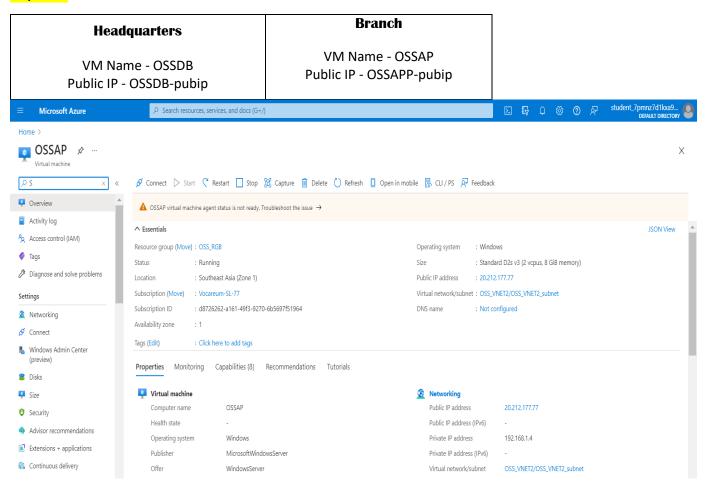
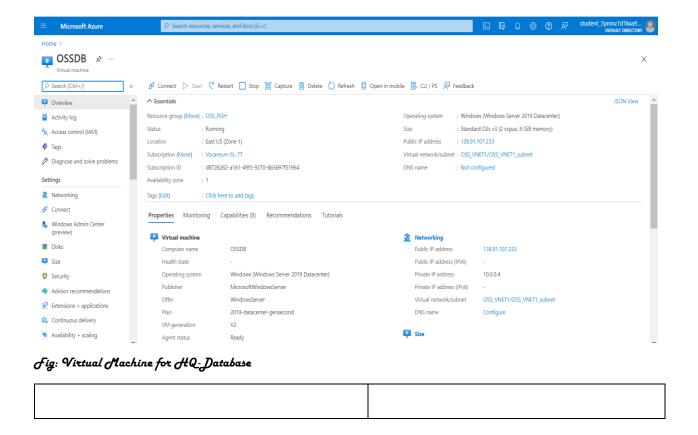
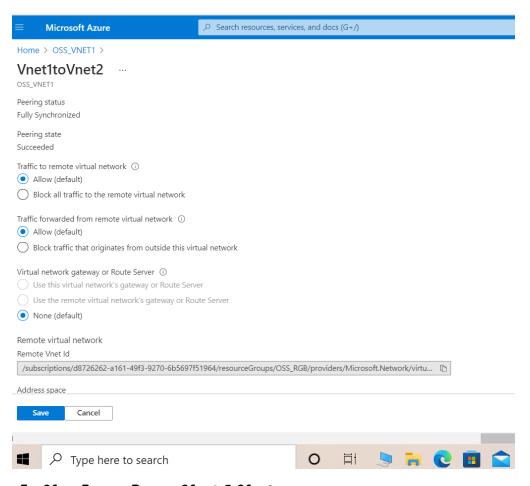


Fig: Virtual Machine for Brach application



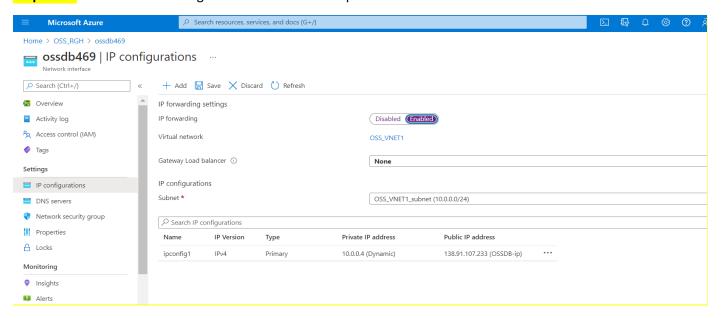
Step - 5 -> Setup VNET Peering between both the locations

Created the VNET peering settings in Headquarters VNET



#### Fig: Vnet Peering Between Vnet1 & Vnet2

Step – 6 -> Enable IP forwarding on VM located in headquarters.



**Step – 7->** Create Routing in the VM created at Branch location

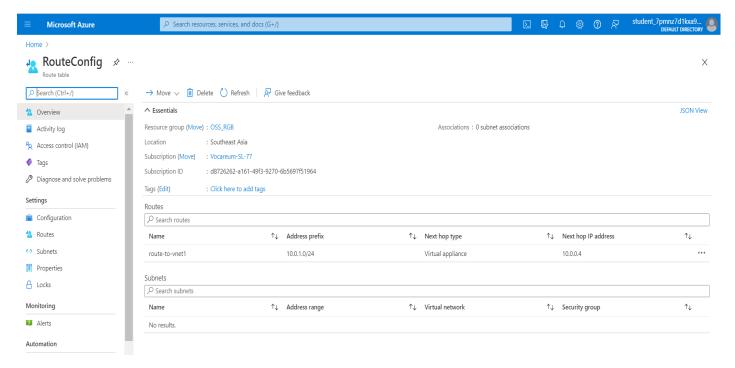


Fig: Routing Jable

Step – 8-> In DB VM (Headquarters) install Remote access & Routing features / Enable LAN routing

#### Headquarter VM:

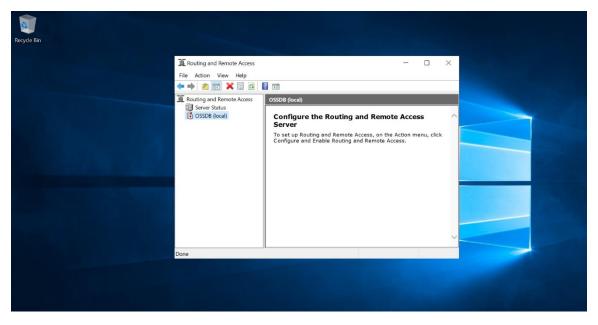


Fig: Routing and Remote Access

#### Enable Inbound rules for both the VM's: -

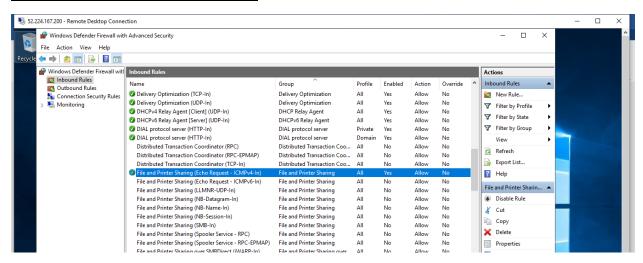


fig: Windows defender > Inbound rules > file and Printer Sharing > Inabled

#### Step - 9-> Pinging Branch APP\_VM from Headquarters DB\_VM

```
Microsoft Windows [Version 10.0.17763.2366]
(c) 2018 Microsoft Corporation. All rights reserved.
C:\Users\HQ>ipconfig
Windows IP Configuration
Ethernet adapter Ethernet:
   Connection-specific DNS Suffix . : drqt5fy5geeuhlvxozgqtdgy0e.bx.internal.cloudapp.net
   Link-local IPv6 Address . . . . : fe80::8cd4:a17c:b981:cc7e%6
   IPv4 Address. . . . . . . . . : 10.0.0.4
   Subnet Mask . . . . . . . . . : 255.255.255.0
   Default Gateway . . . . . . . : 10.0.0.1
C:\Users\HQ>ping 192.168.1.4
Pinging 192.168.1.4 with 32 bytes of data:
Reply from 192.168.1.4: bytes=32 time=218ms TTL=128
Reply from 192.168.1.4: bytes=32 time=217ms TTL=128
Reply from 192.168.1.4: bytes=32 time=217ms TTL=128
Reply from 192.168.1.4: bytes=32 time=217ms TTL=128
Ping statistics for 192.168.1.4:
 Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), approximate round trip times in milli-seconds:
    Minimum = 217ms, Maximum = 218ms, Average = 217ms
C:\Users\HQ>_
```

```
C:\Users\HQ>tracert 192.168.1.4

Tracing route to 192.168.1.4 over a maximum of 30 hops

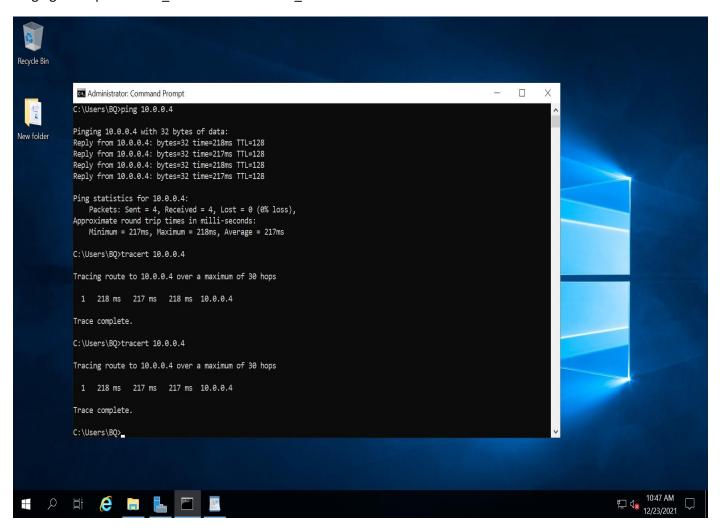
1 218 ms 217 ms 192.168.1.4

Trace complete.

C:\Users\HQ>_
```

Fig: Pinging & Trace complete HQ to Branch VM

Pinging Headquarters DB\_VM from Branch APP\_VM:



Successfully done