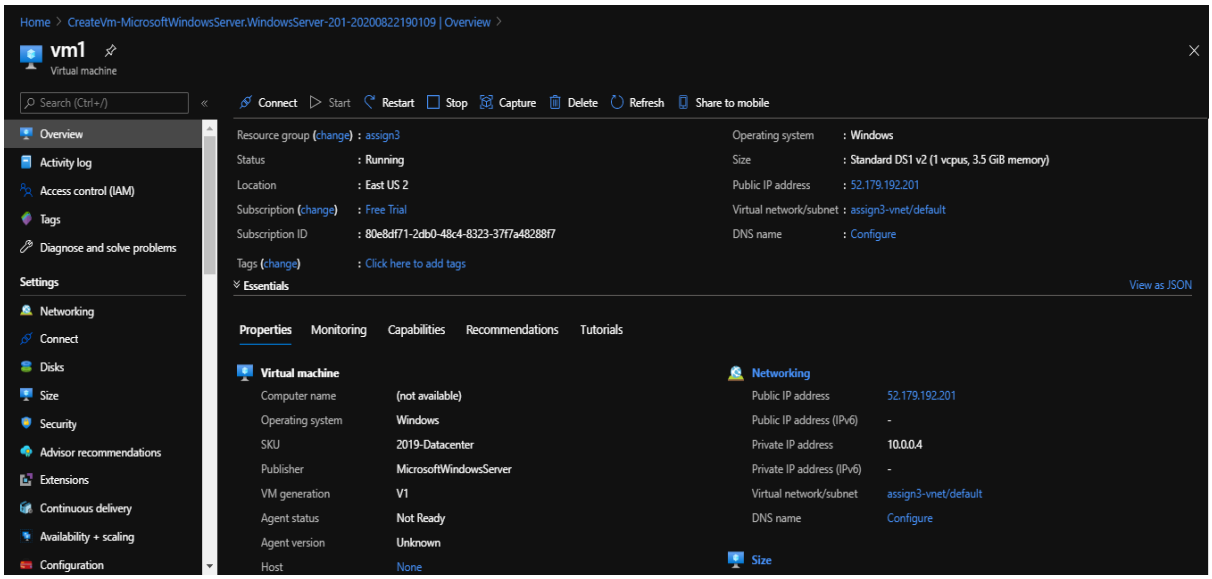
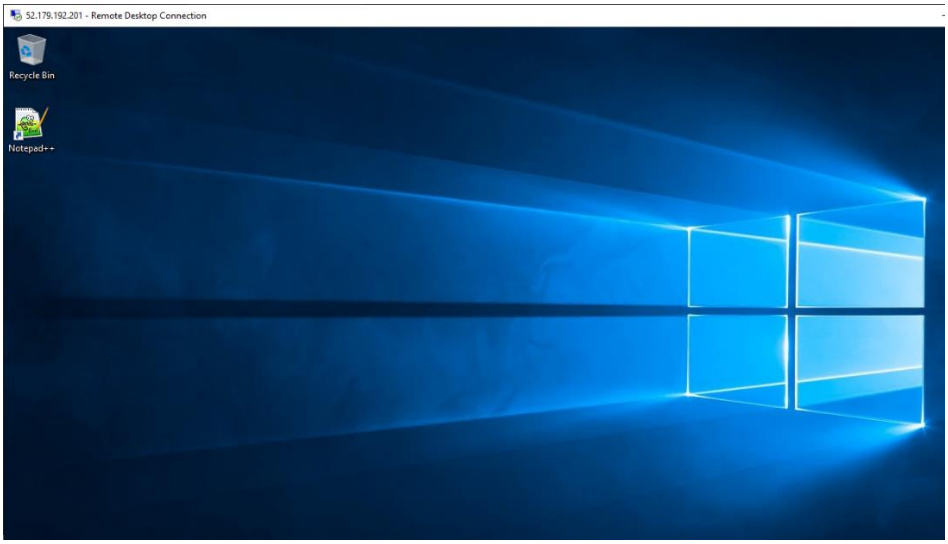
ASSIGNMENT-3

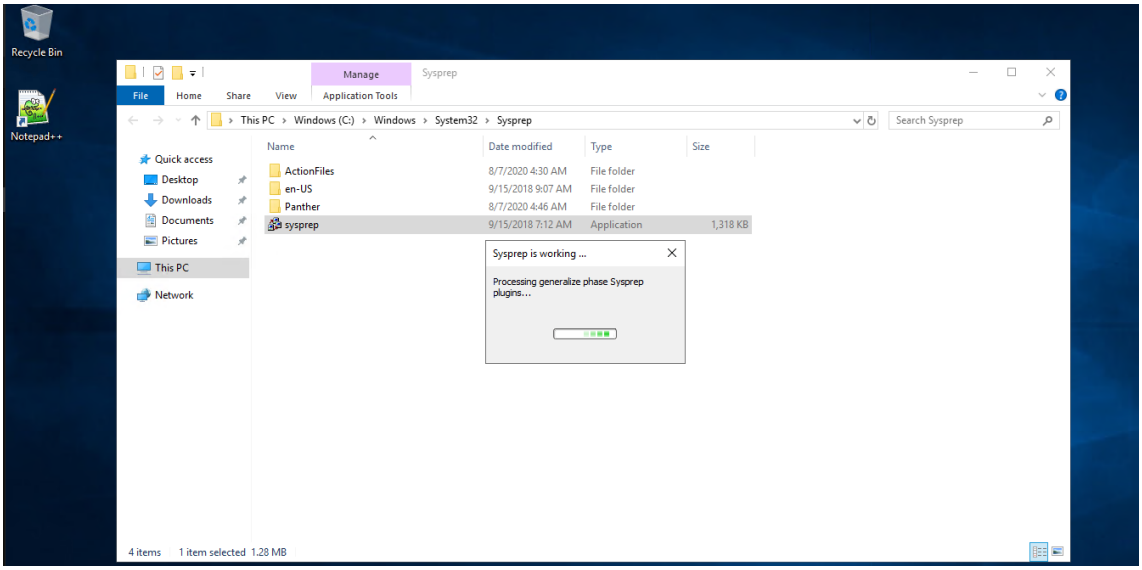
1. Deploy the custom image with any application installed



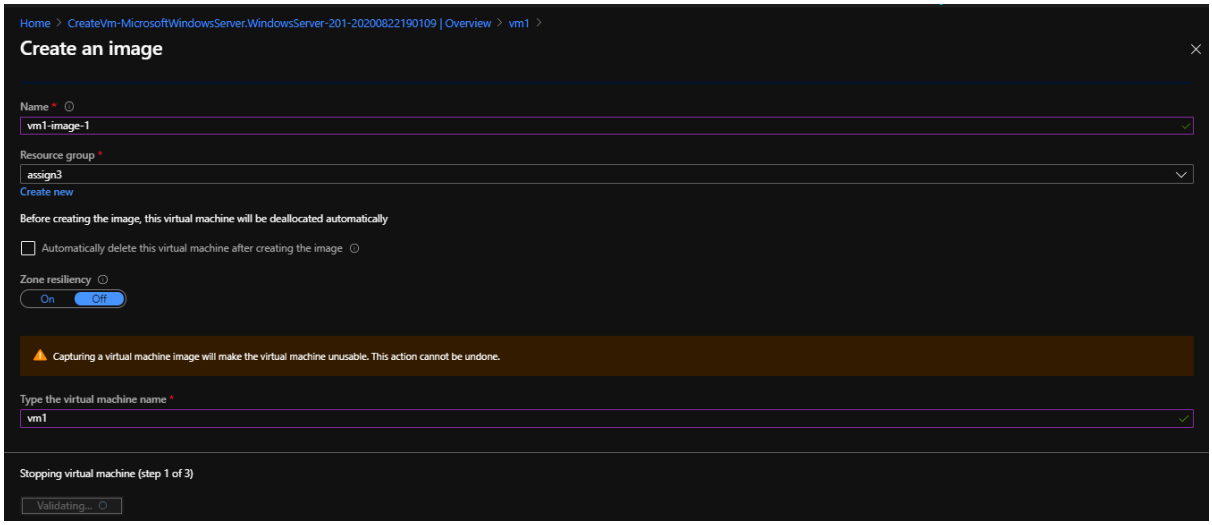
First, I create a Virtual machine named VM1.



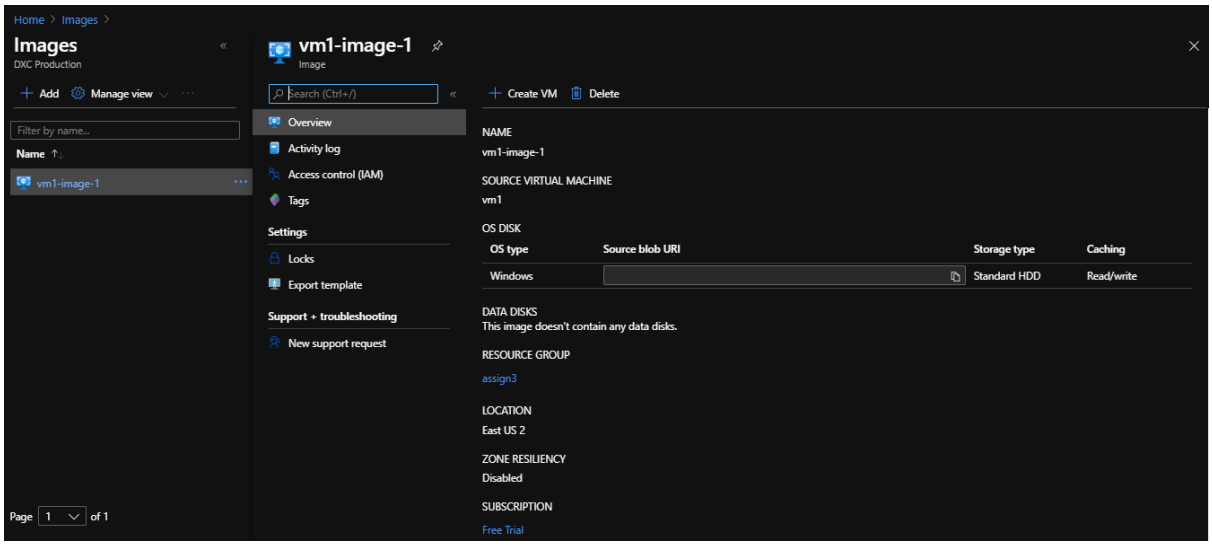
In that VM I installed Notepad++ application.

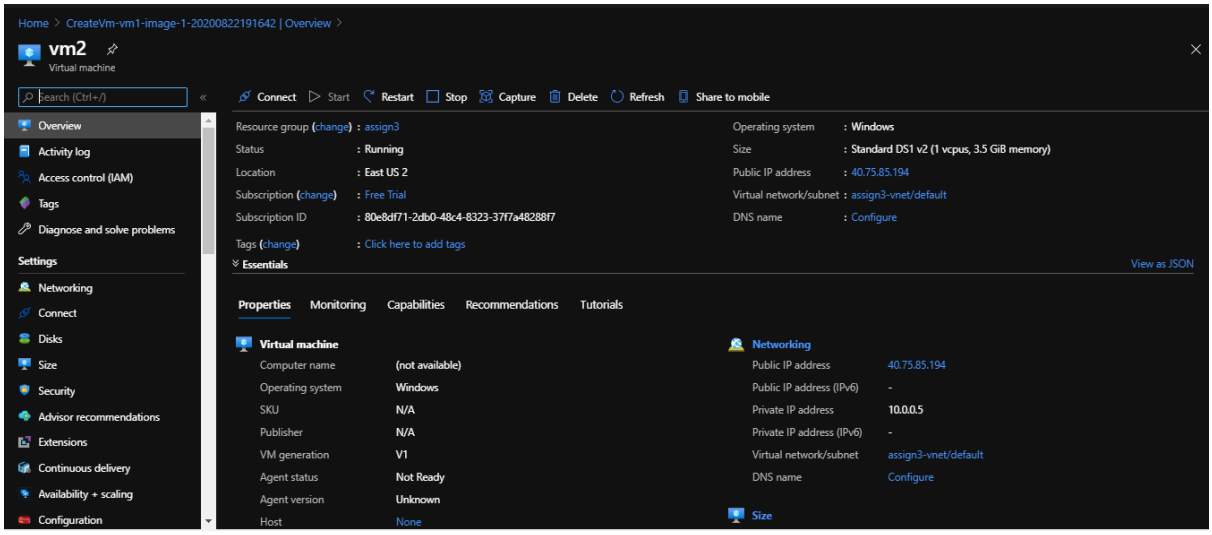


After that I generalize the VM1 using sysprep. It removes all the security and made the os usable for custom image generation.

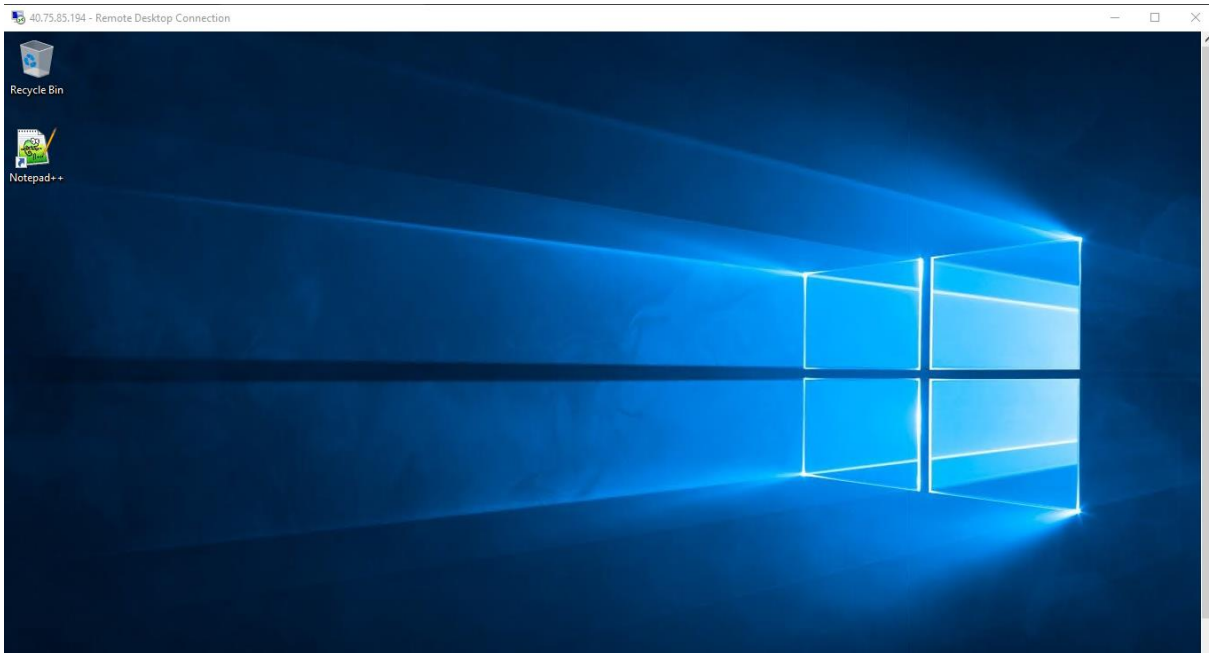


Now I create a custom image of vm1.



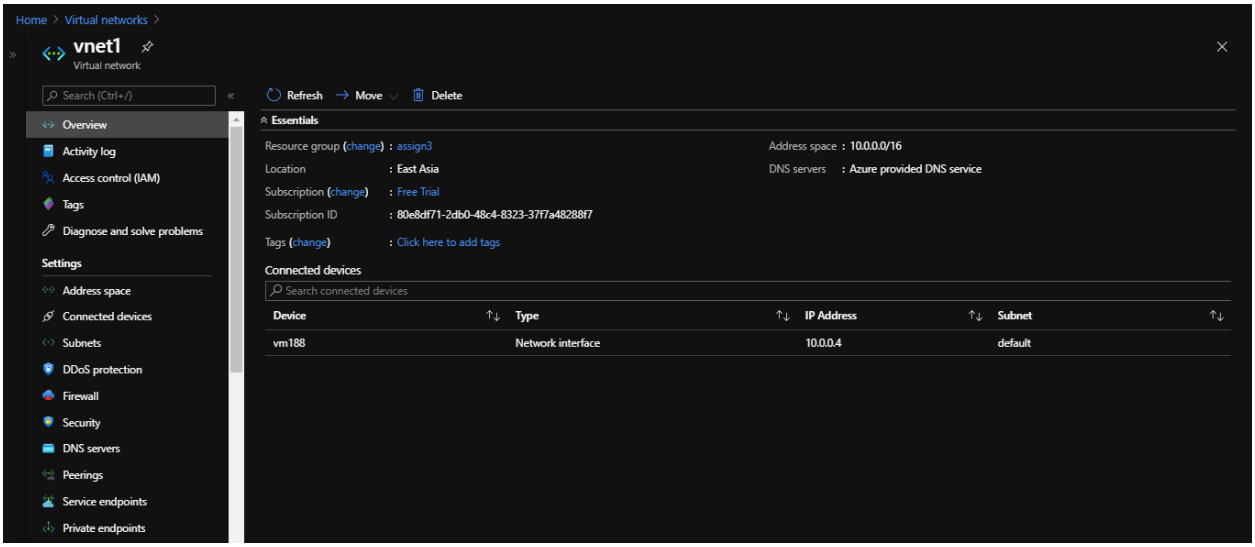


Finally, I create another VM named VM2 using custom image generated from VM1.

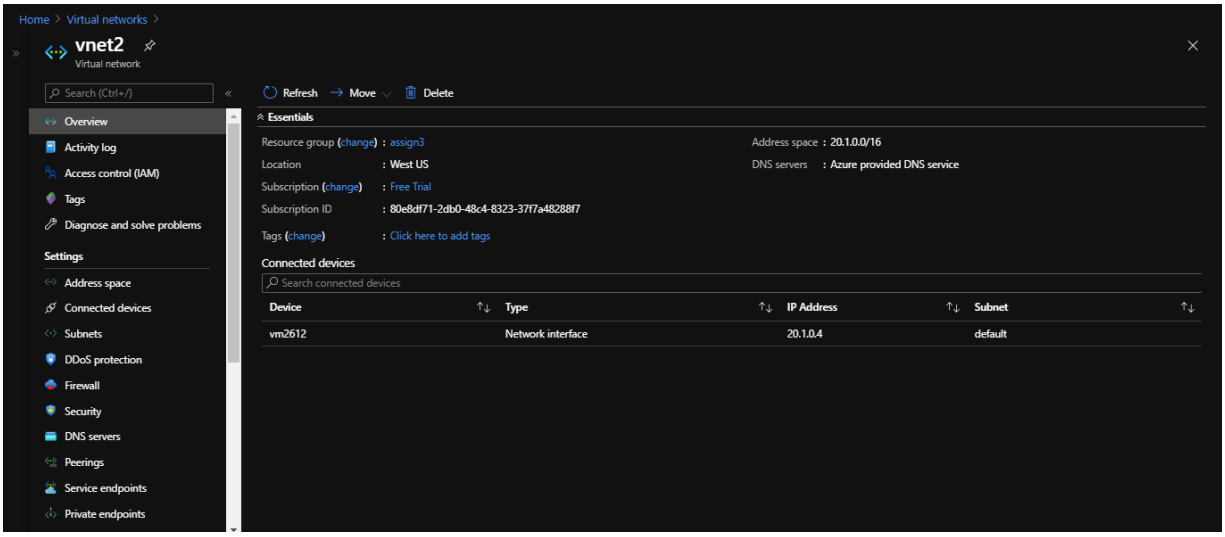


I open the VM2. Here I check whether the Notepad++ is installed or not. It is installed because this vm is created using custom image from vm1 where already Notepad++ is installed before the Custom image creation.

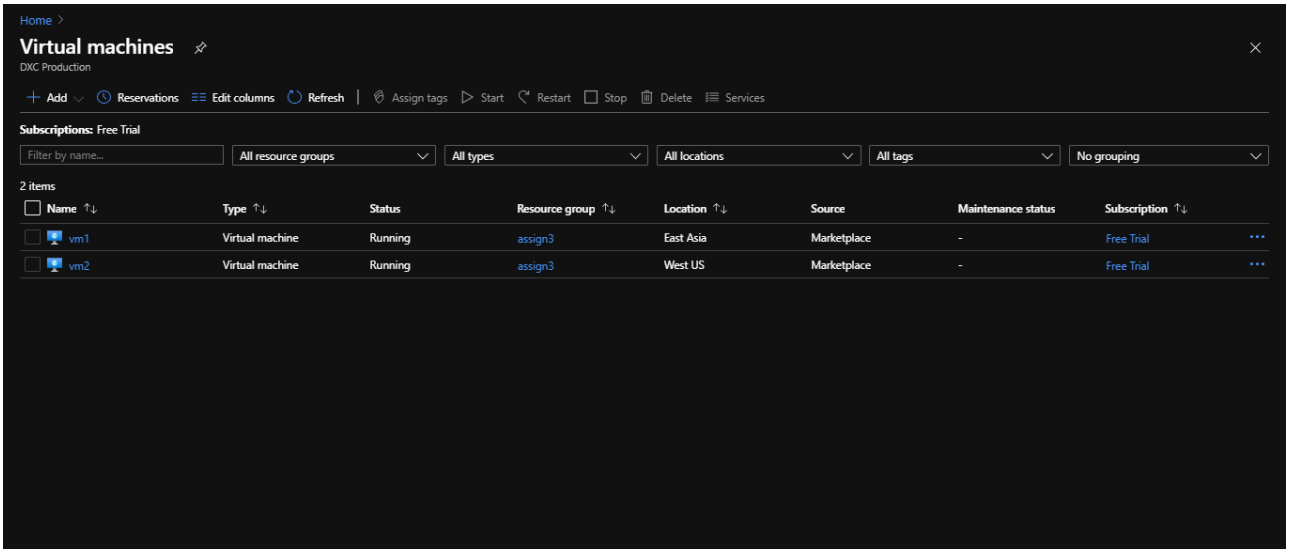
2. Create two networks in East Asia and west us and peer the network using Network Peering and access the VM using private from one location to other location

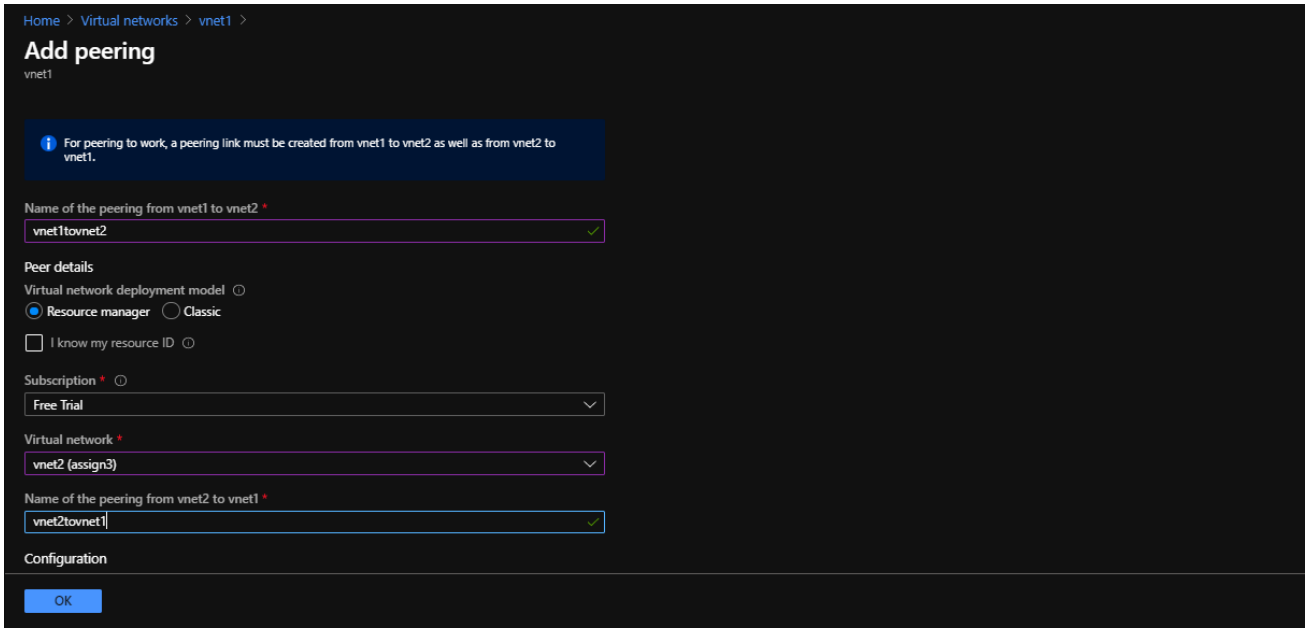


Here I created Virtual network named vnet1 in East Asia Location.

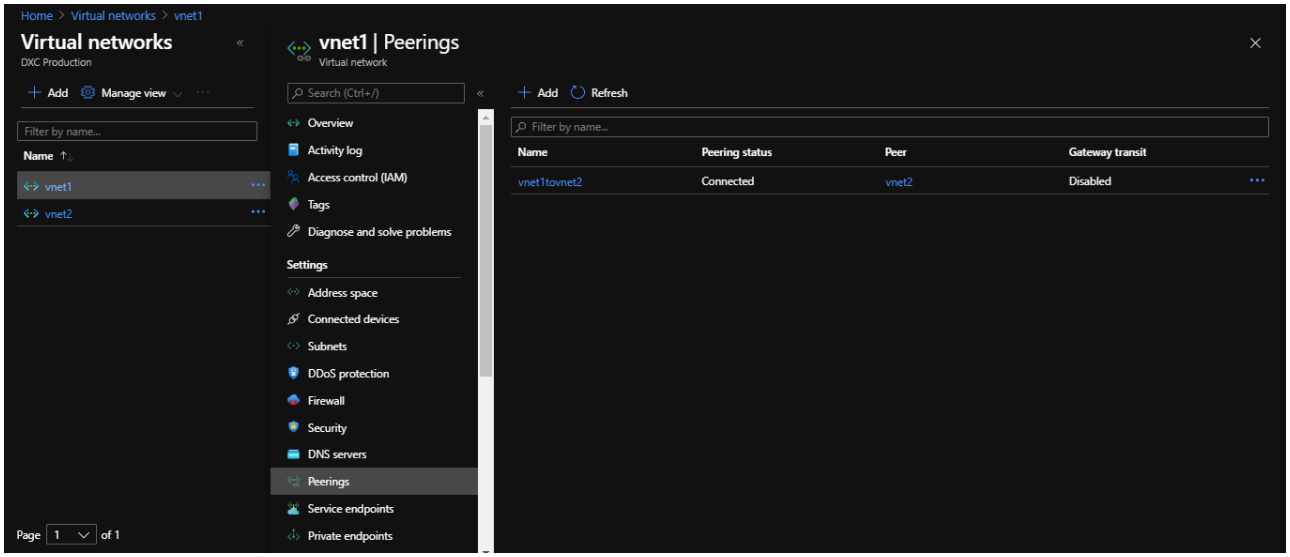


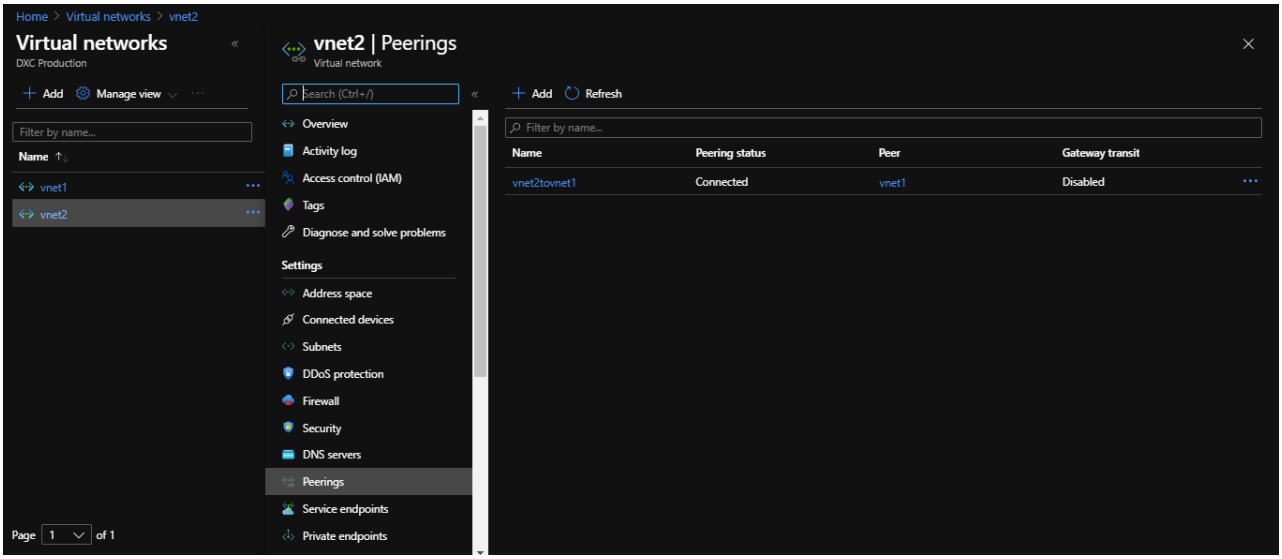
Here I created another virtual network named vnet2 in West US location.

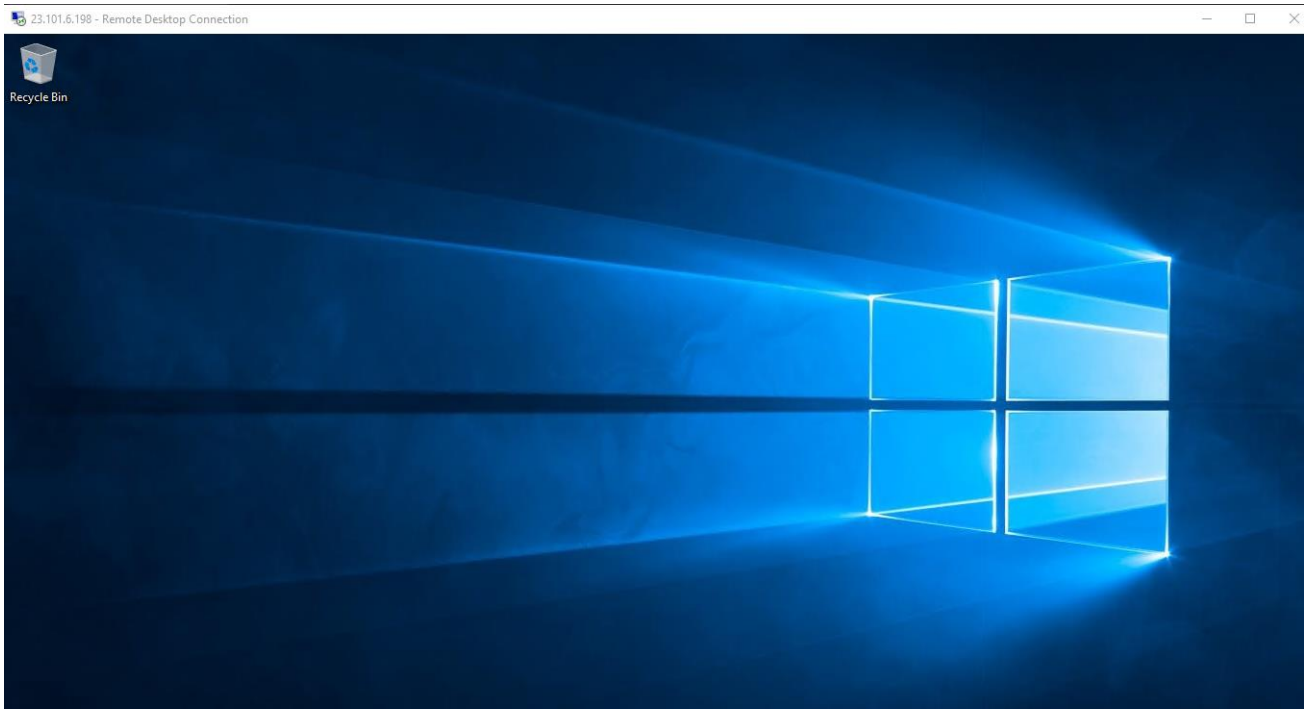




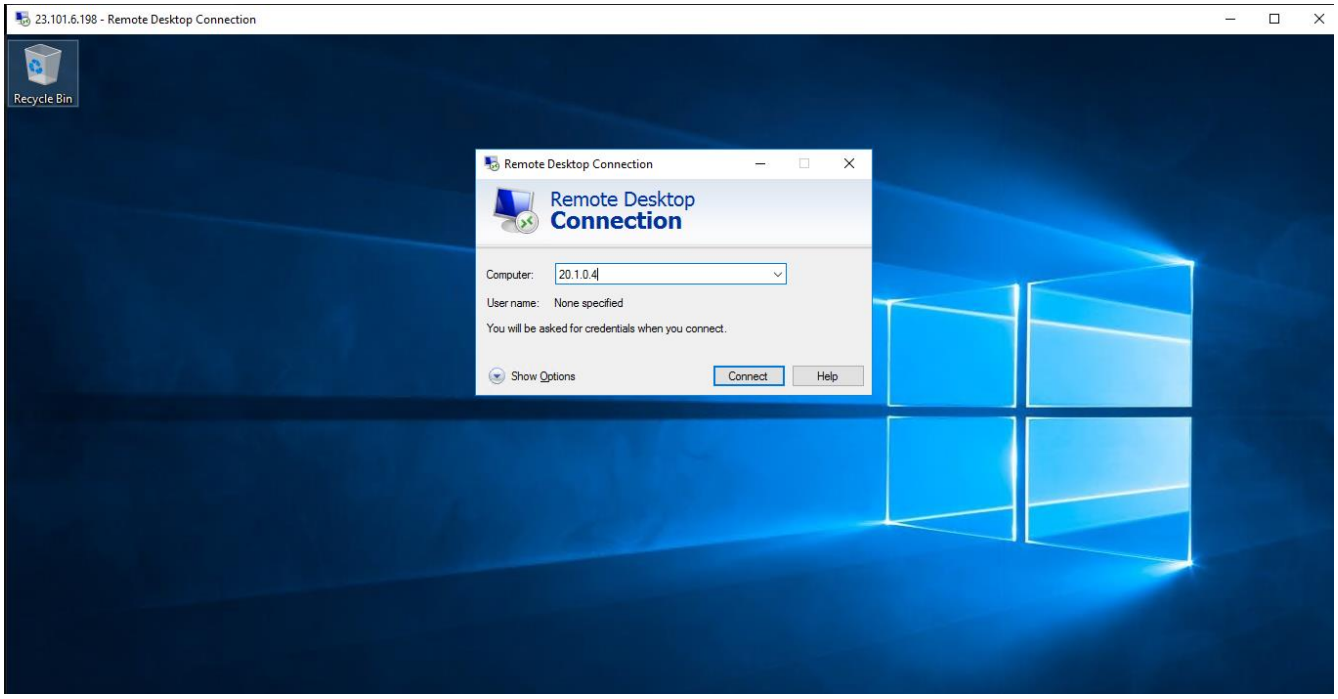
Now I create peering from vnet1 to vnet2 and vice versa.



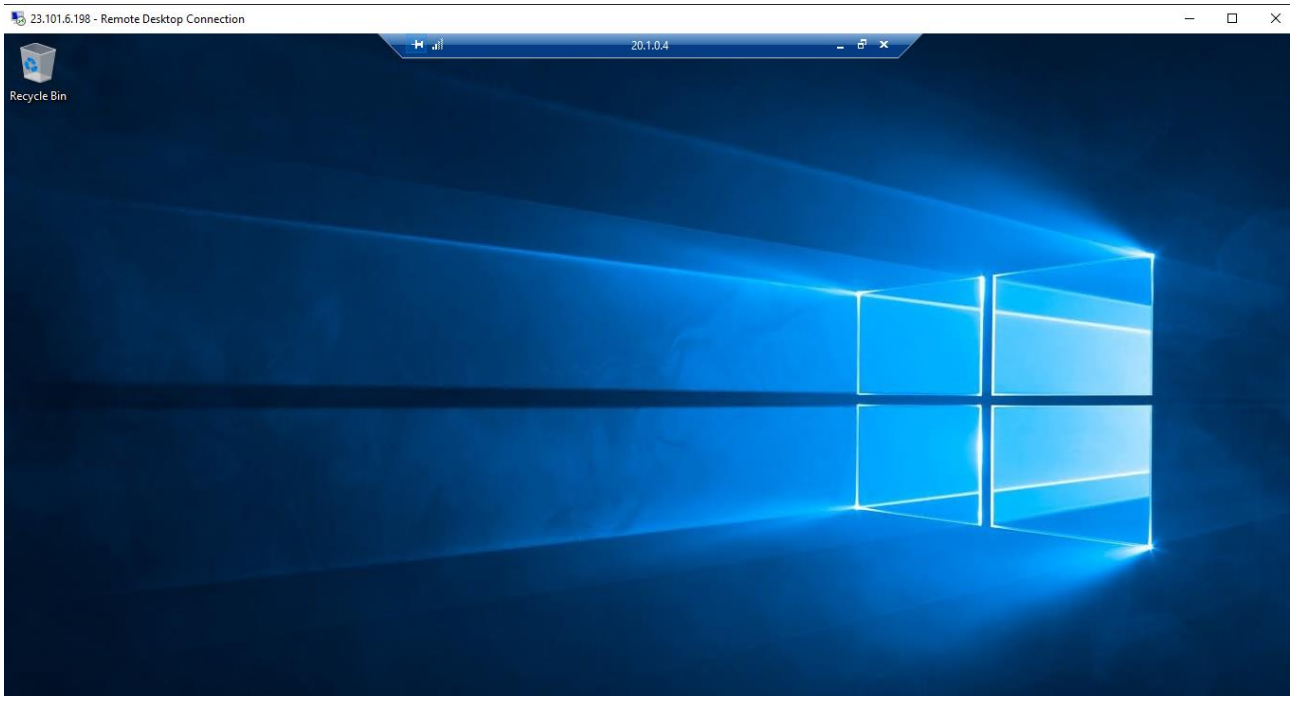




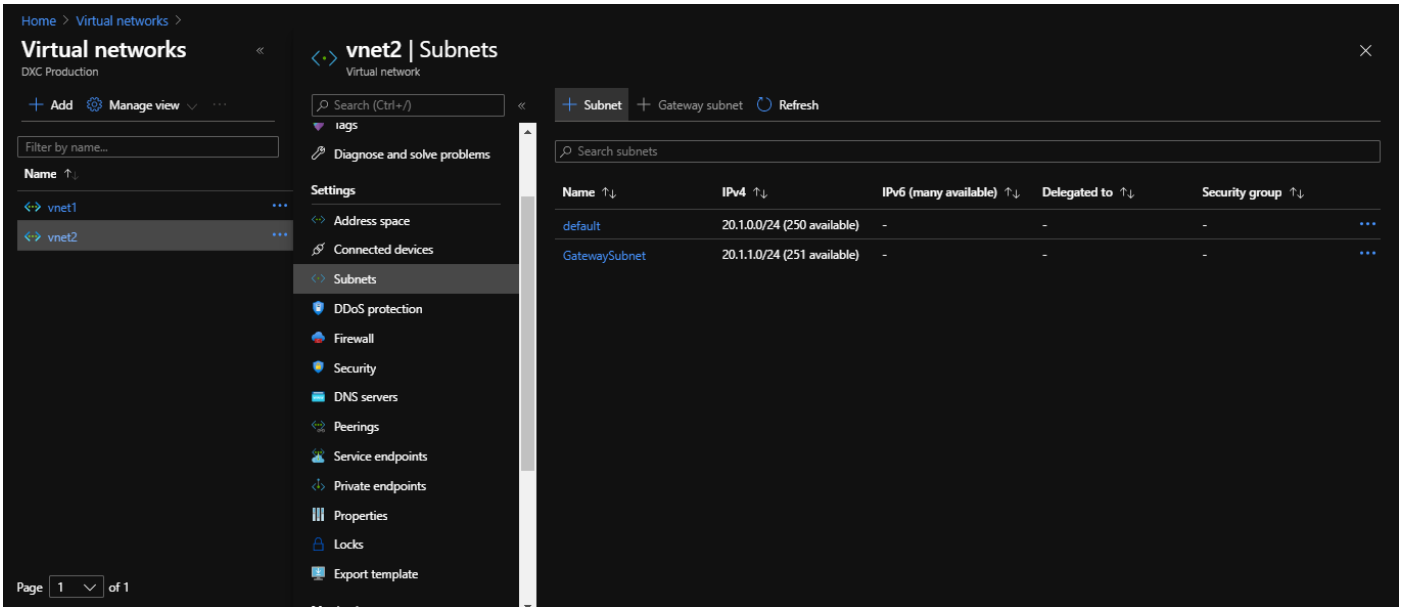
After that I open the VM connected to vnet1 using public ip.



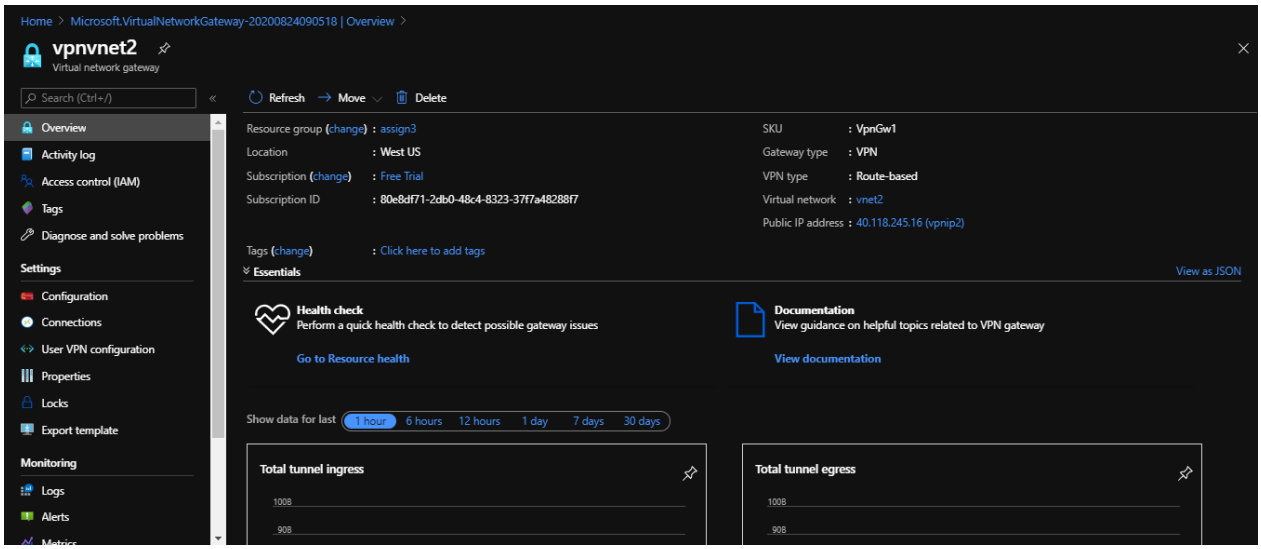
From that vm I try to connect the vm in vnet2 using private ip. It opened.



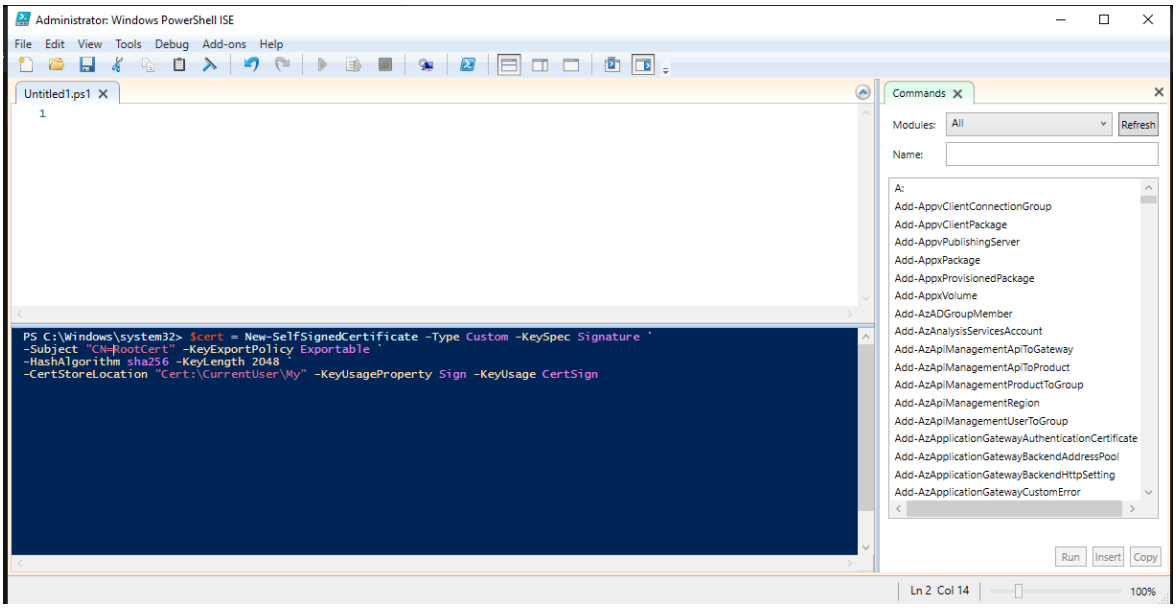
3. Create a Point to site VPN in west us location and try connect from your location laptop to Azure data center

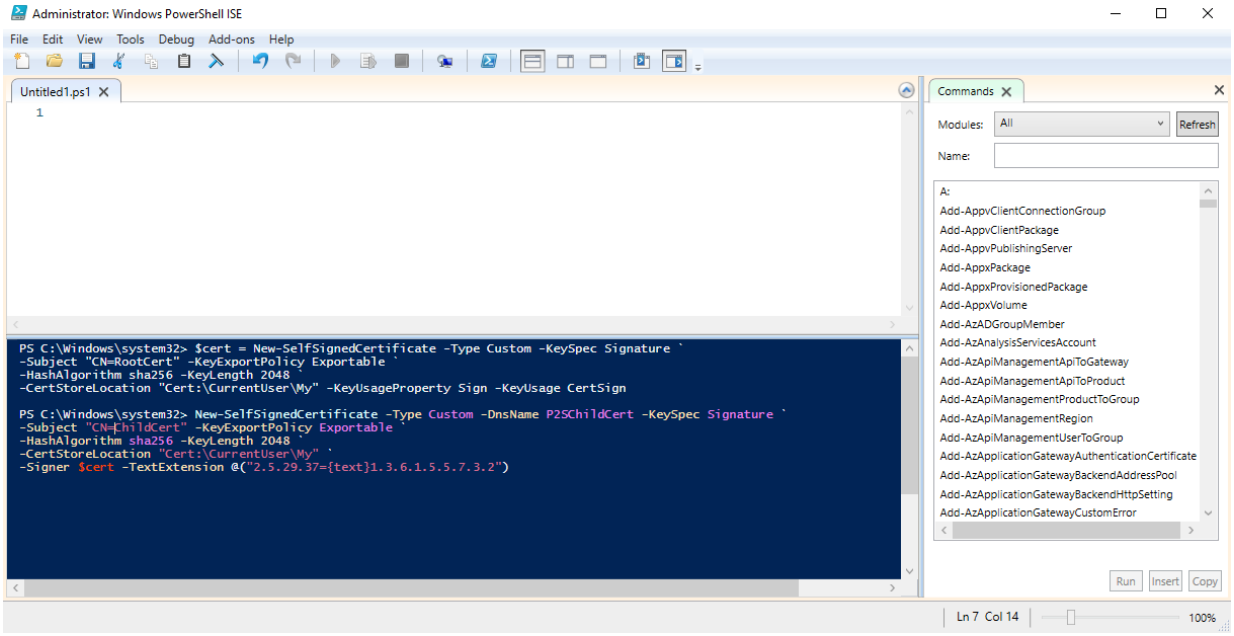


I want to create a point to site vpn for vnet2 which is located in West US. Before creating the vpn gateway I first create a gateway subnet in vnet2.

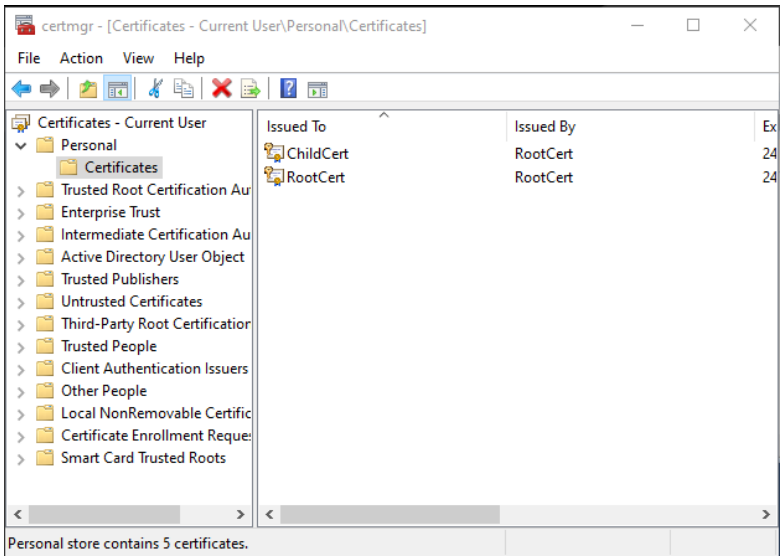


After that I create a VPN in West US location using vnet2 virtual network.

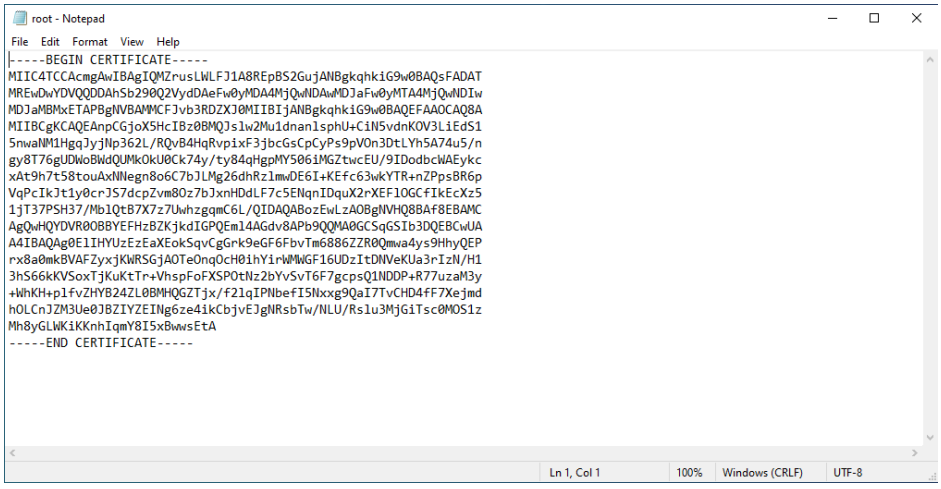




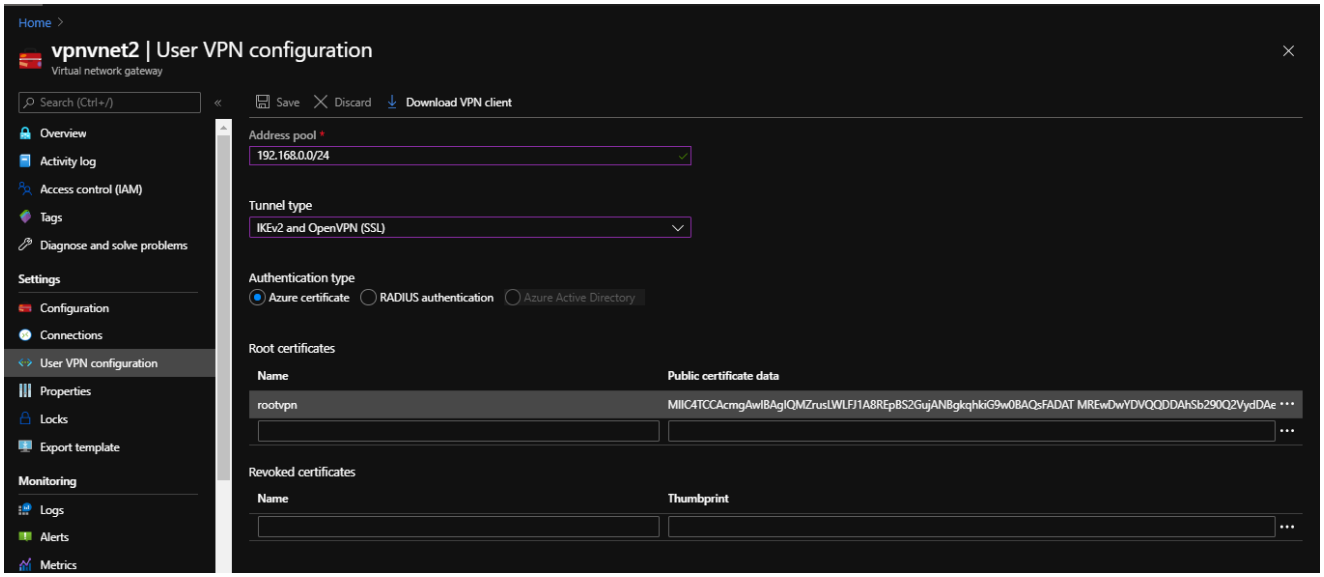
In order to create user vpn configuration we need certificates (client and root) for authentication. In the above snips I created the root and client certificates using Windows Powershell.



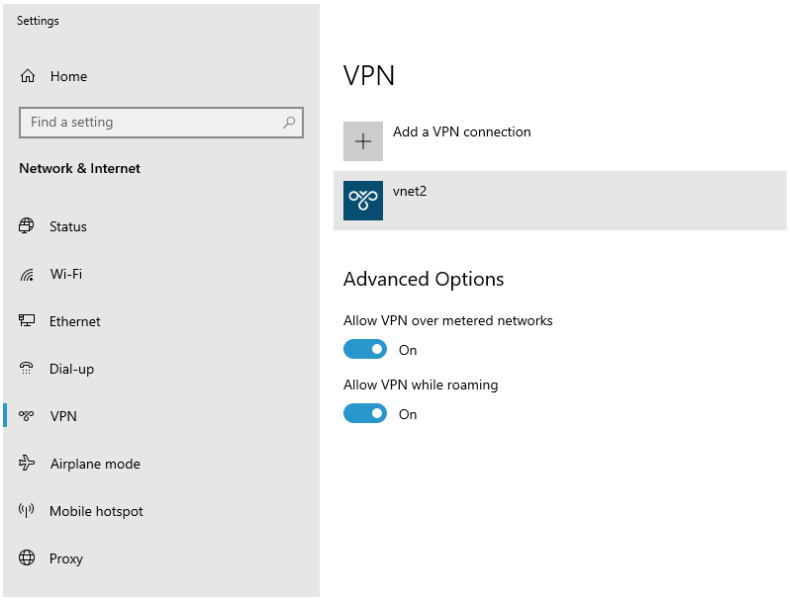
Here it shows the client and root certificates I created.

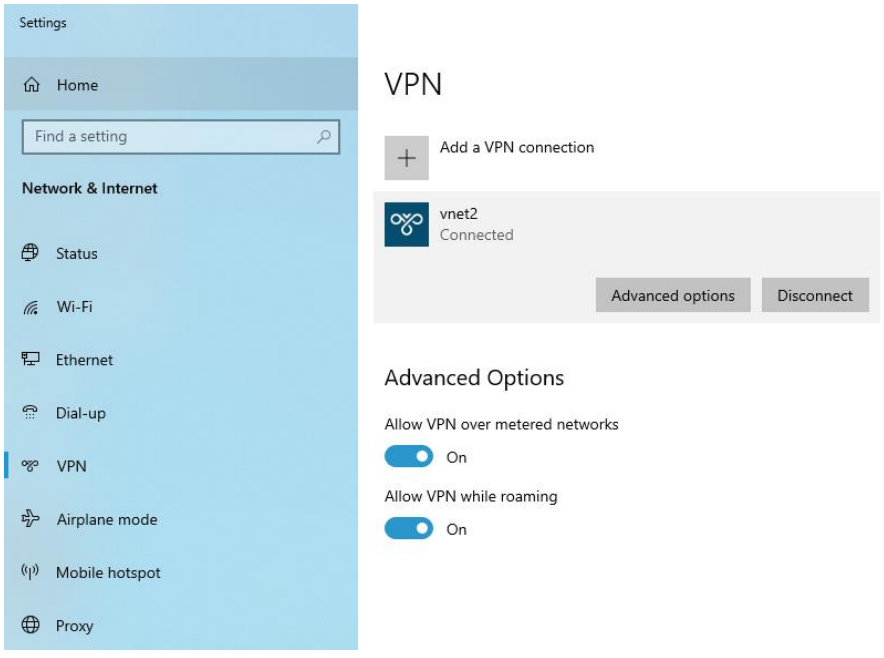


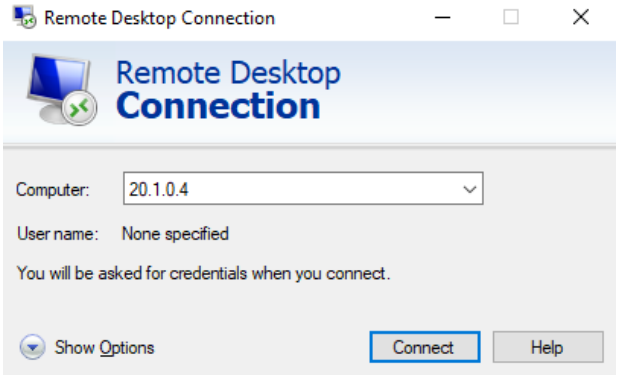
After that I export the root certificate and copy the key inside the certificate inorder to upload it in azure portal.

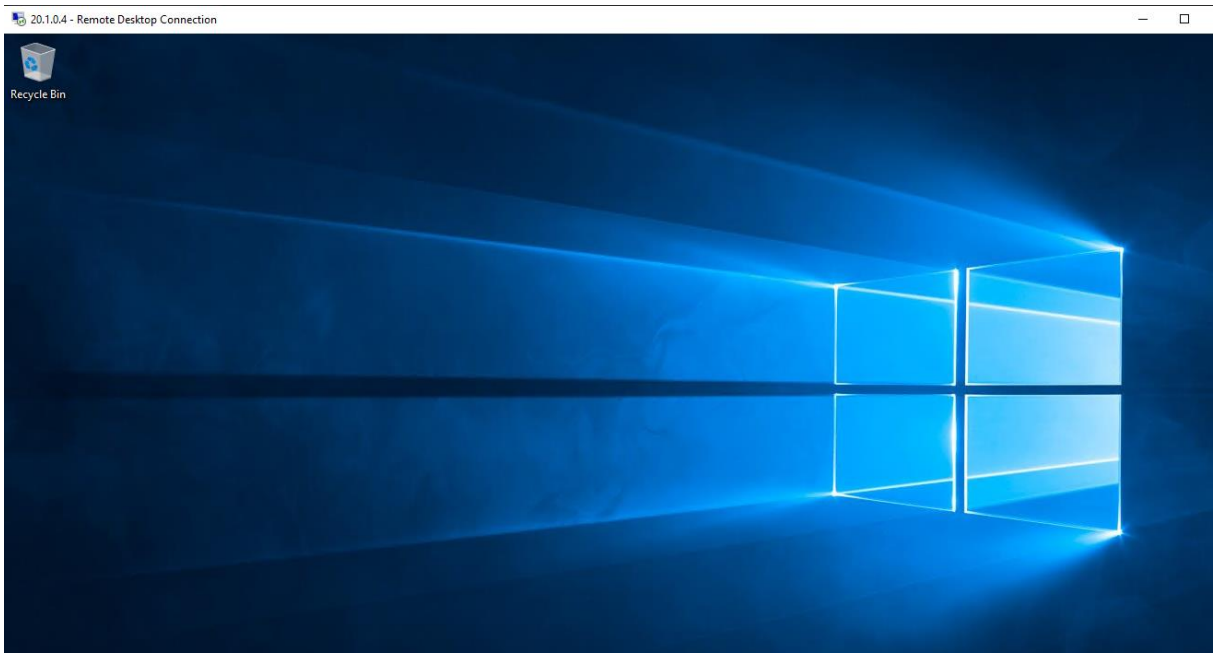


Here I created the User VPN configuration and upload the root certificate. After that I download the VPN client into my local system and try to connect.



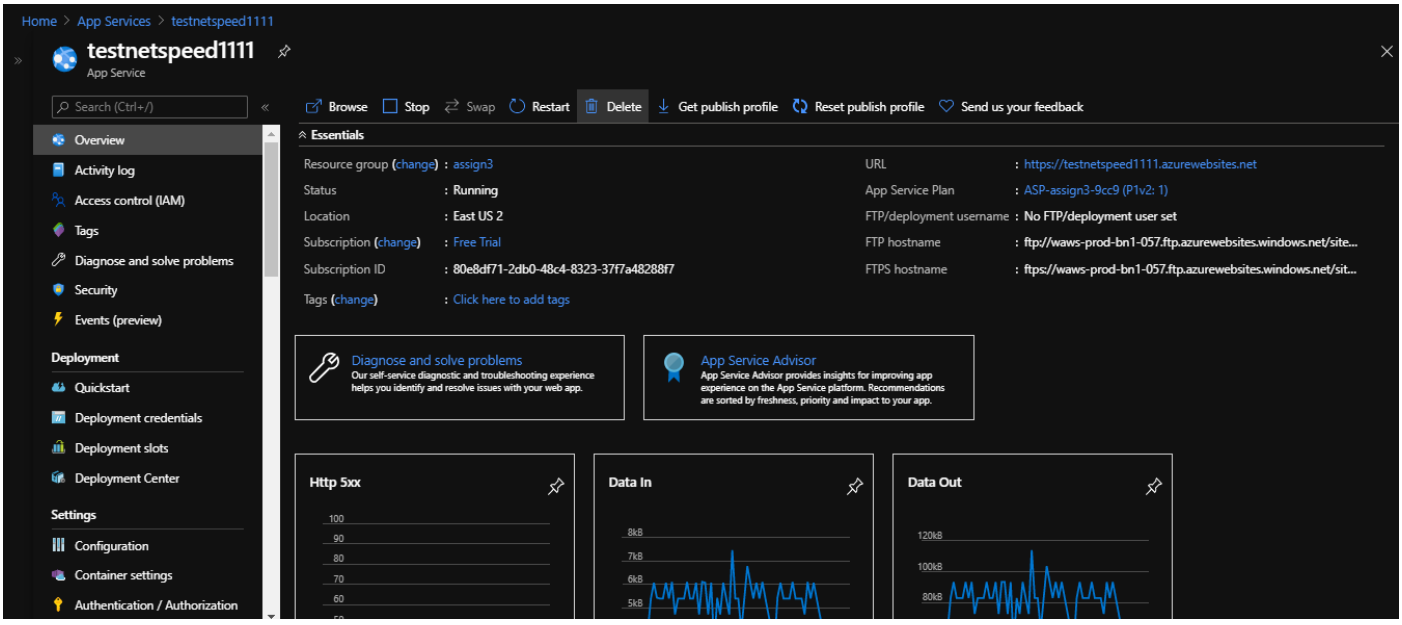


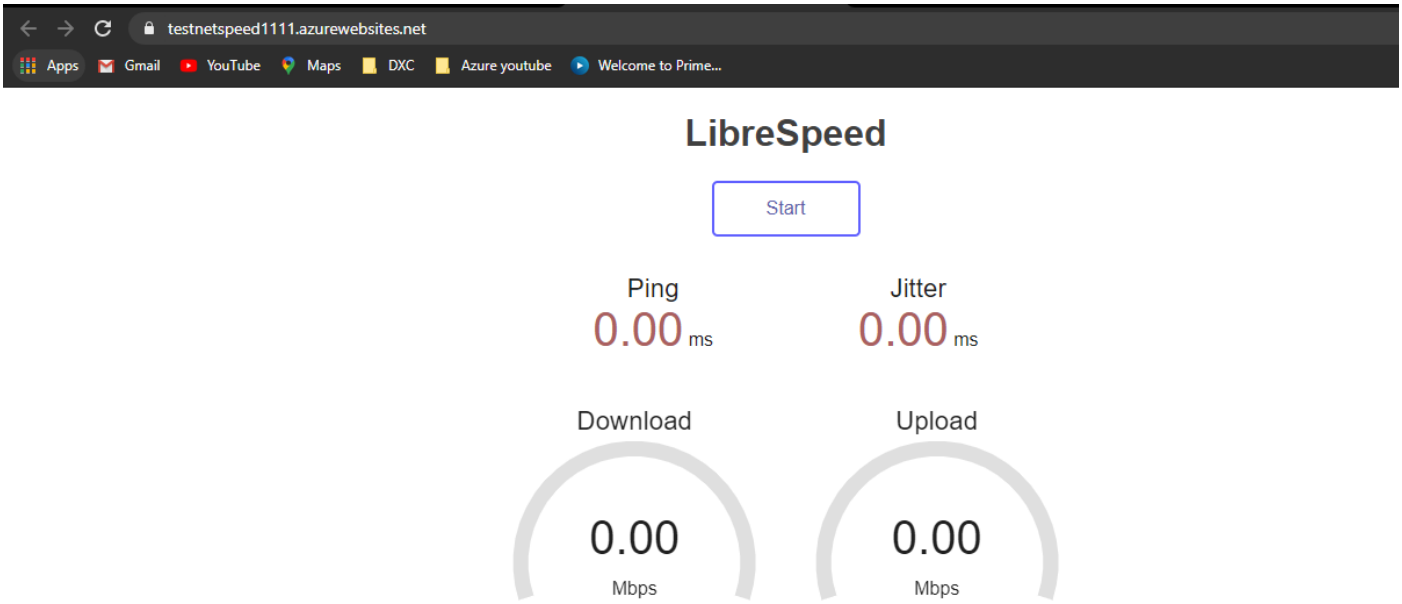




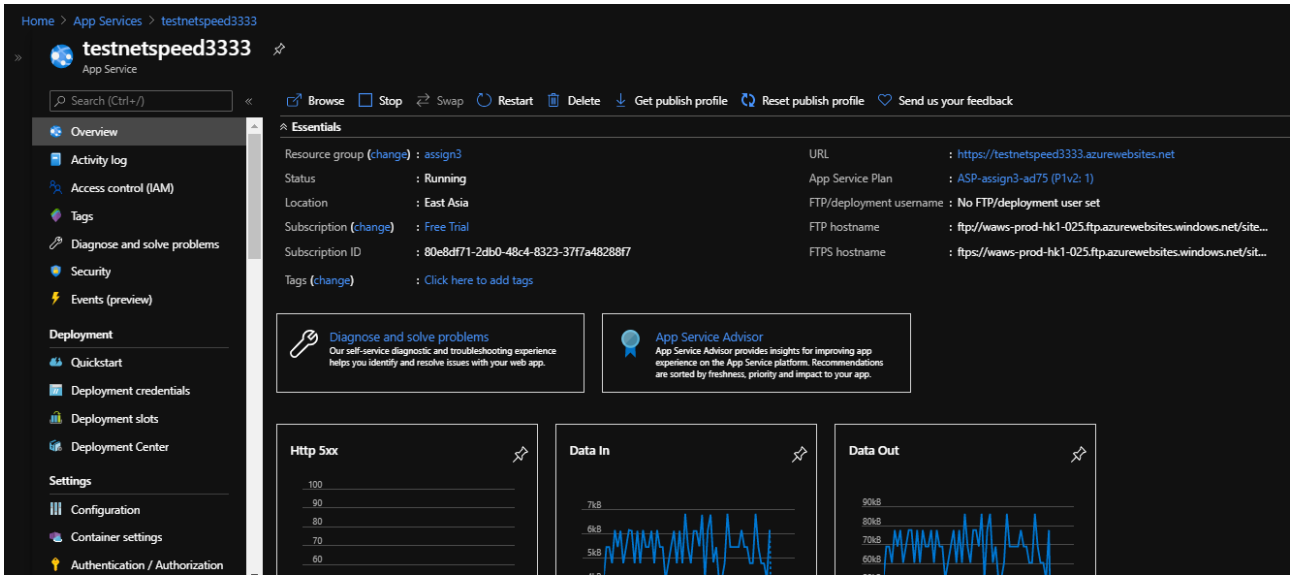
After connected to vpn I try to connect the vm s in vnet2 using private ip. It worked without any blockers.

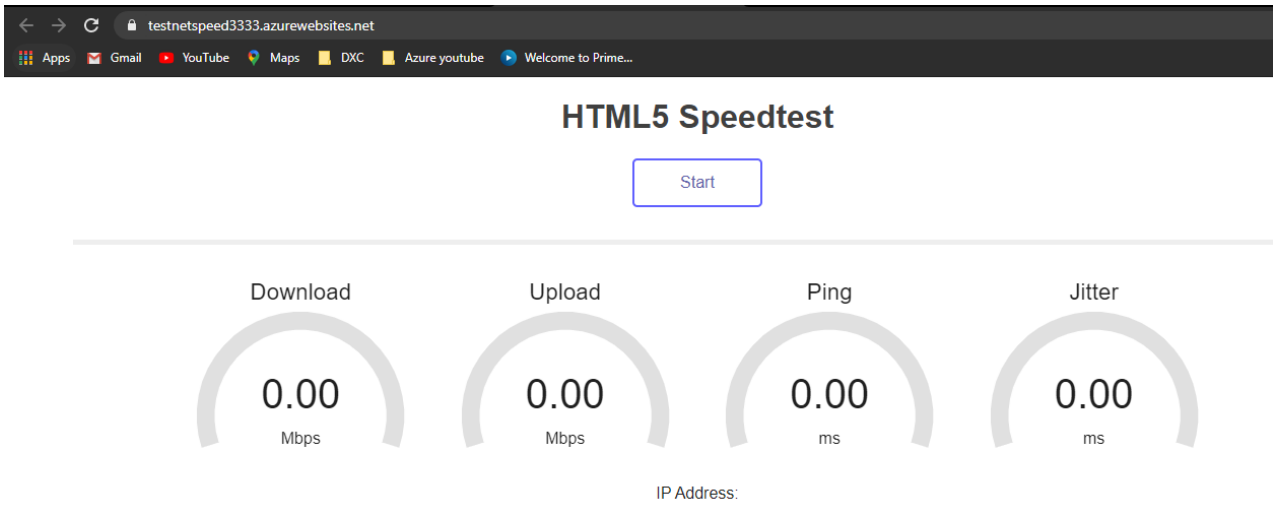
4. Create two web applications and put the apps under traffic manager with Priority routing method



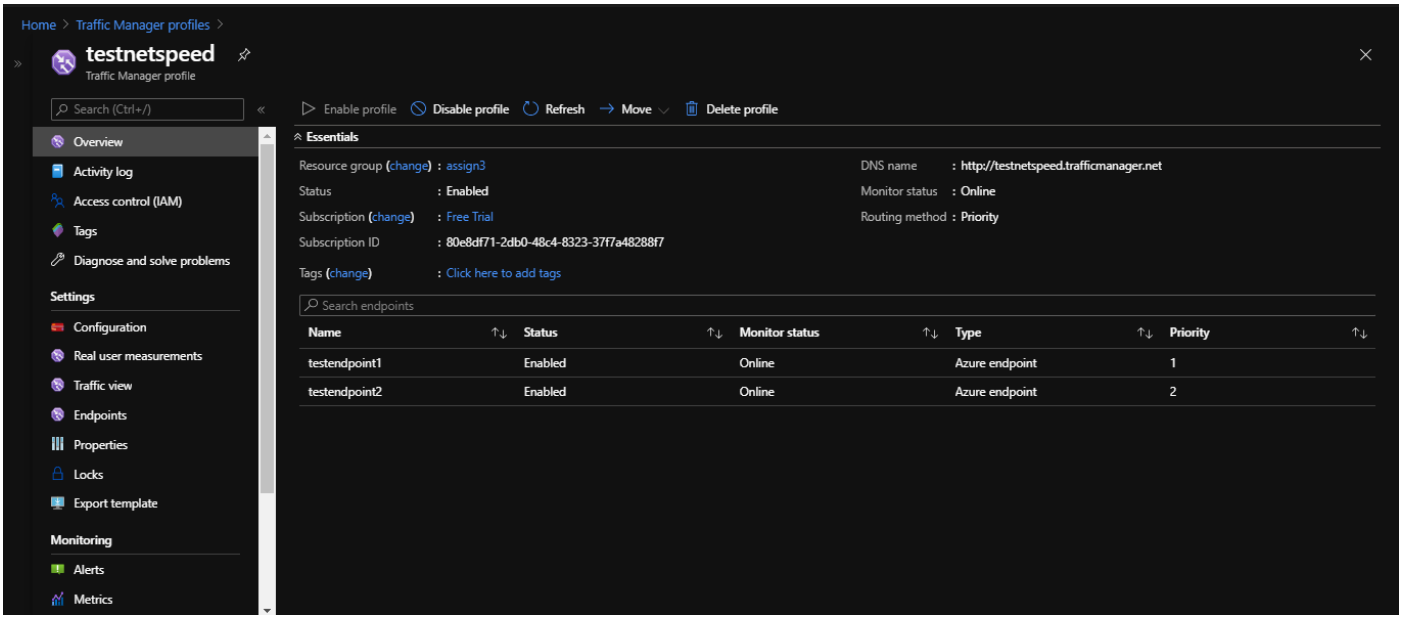


First I create a webapp named testnetspeed1111 using docker container.

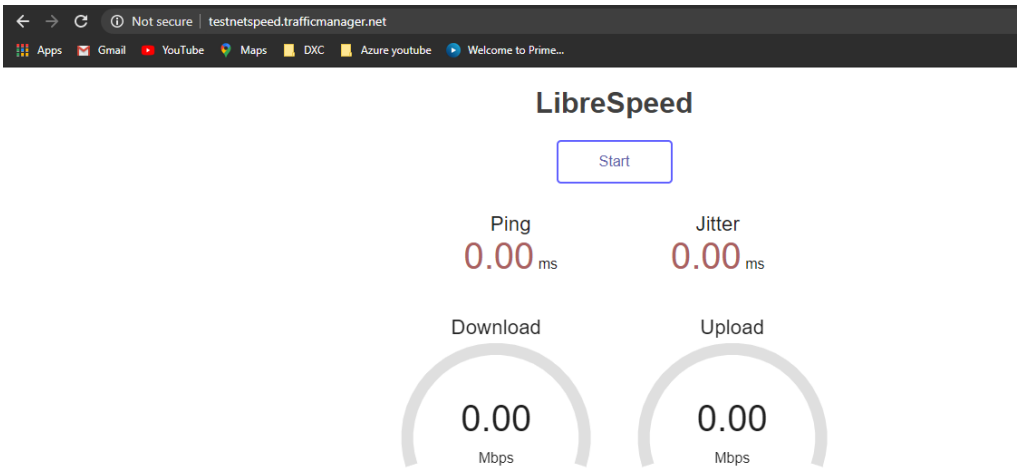




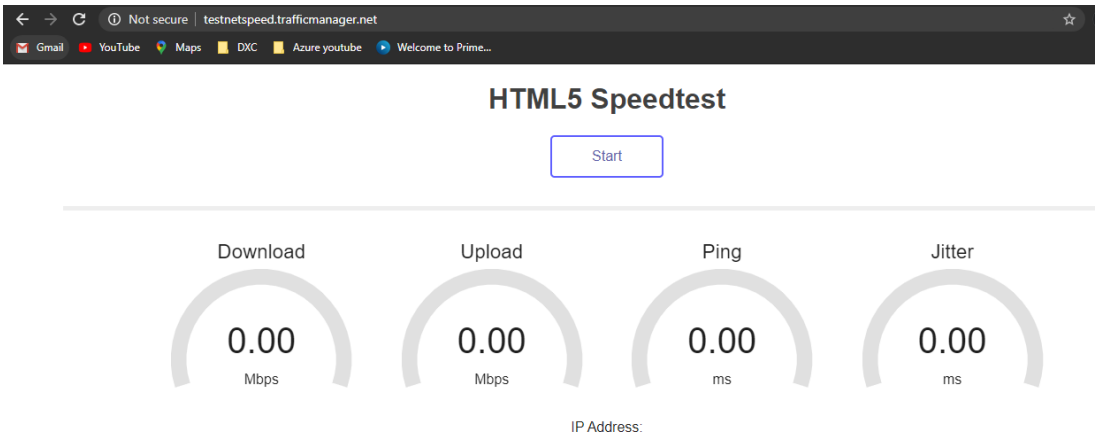
Here I create another webapp named testnetspeed3333 using another docker container.



After that I create a traffic manager profile using priority routing method and connect the end points of two webapps which I create earlier.

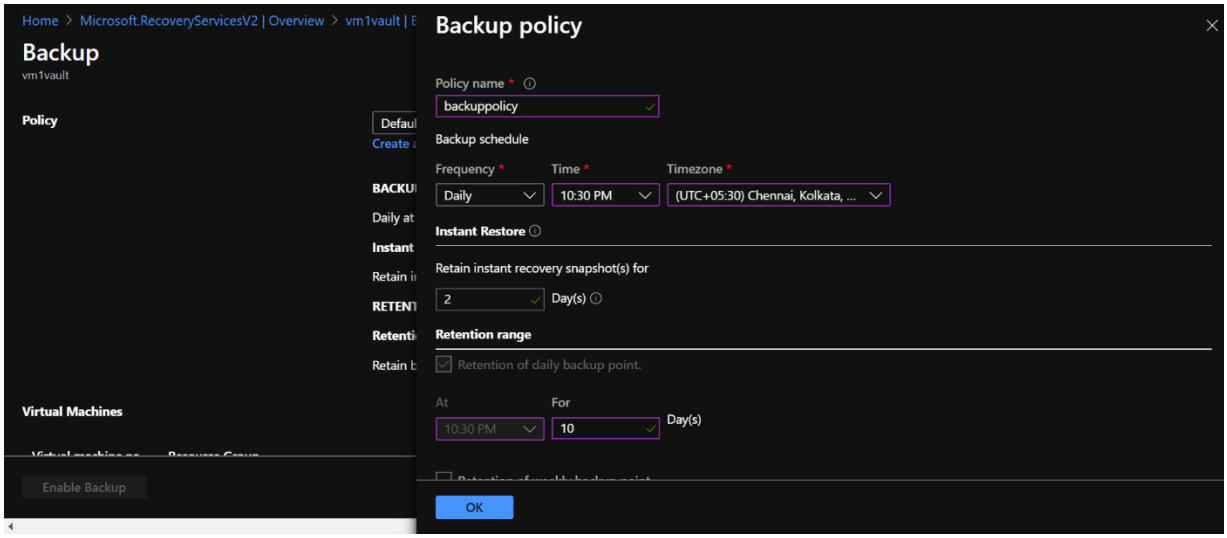


After connecting to traffic manager profile I try to access the web apps using traffic manager url and it shows the testnetspeed1111 web app. Because it has priority 1.

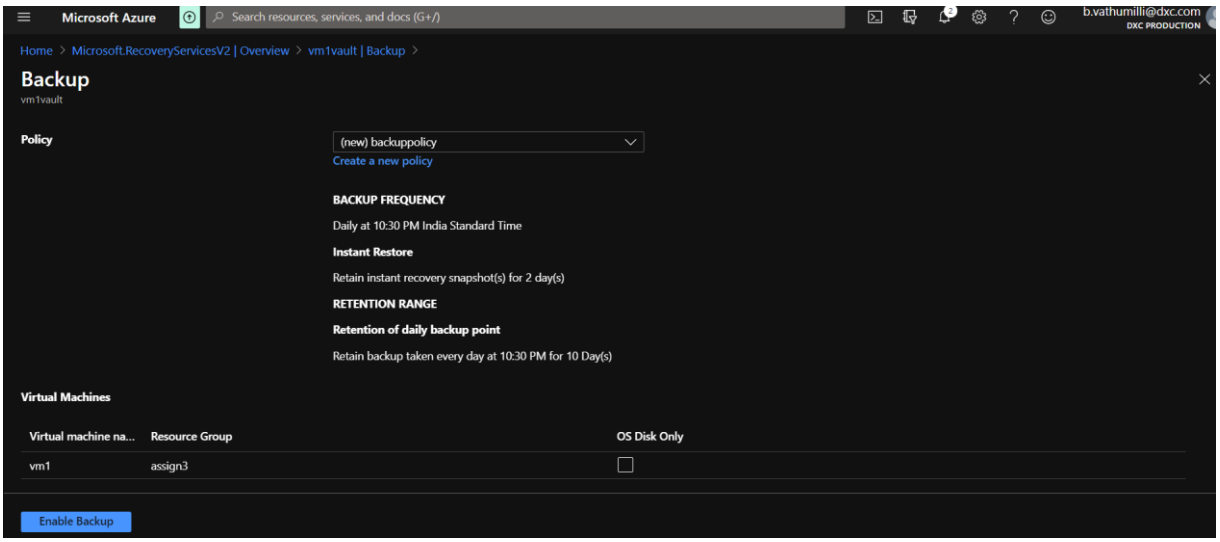


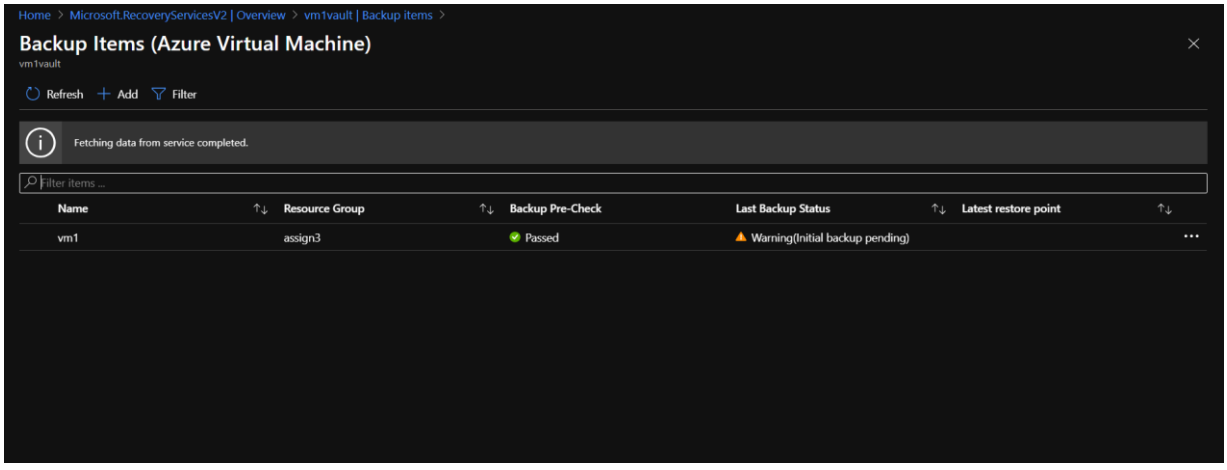
Next I disable the 1st webapp and try to access the same url. Now it shows testnetspeed3333 webapp because the 1st webapp which has priority 1 is disabled and 2nd app has priority 2 so it opened.

5. Create a Backup solution for the Vm and assign a daily policy to the VM with 10 days retention period

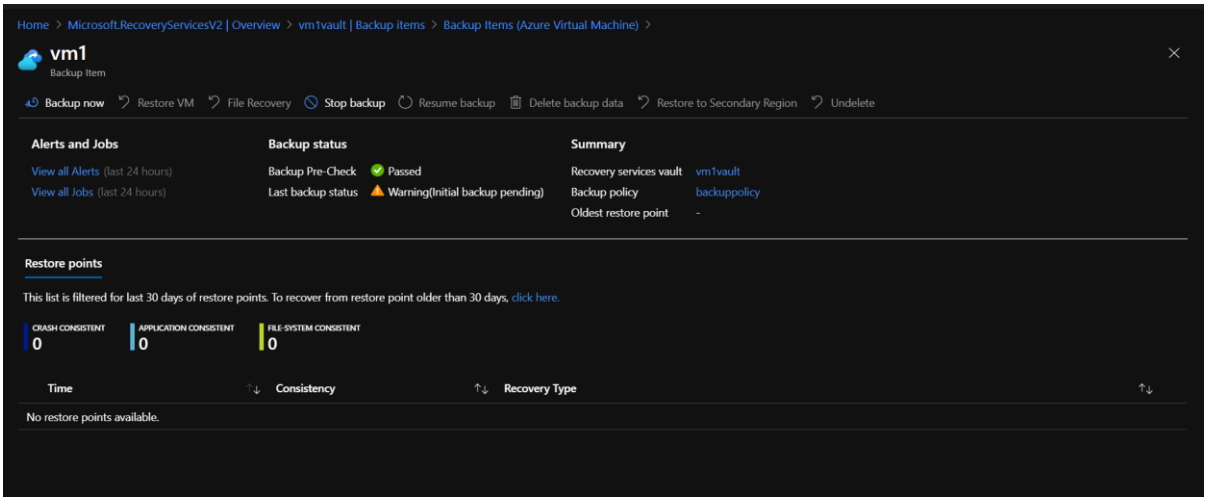


Here first I create a Azure recovery service vault named vm1vault and take azure vm backup with customized backup policy of retention period 10days.

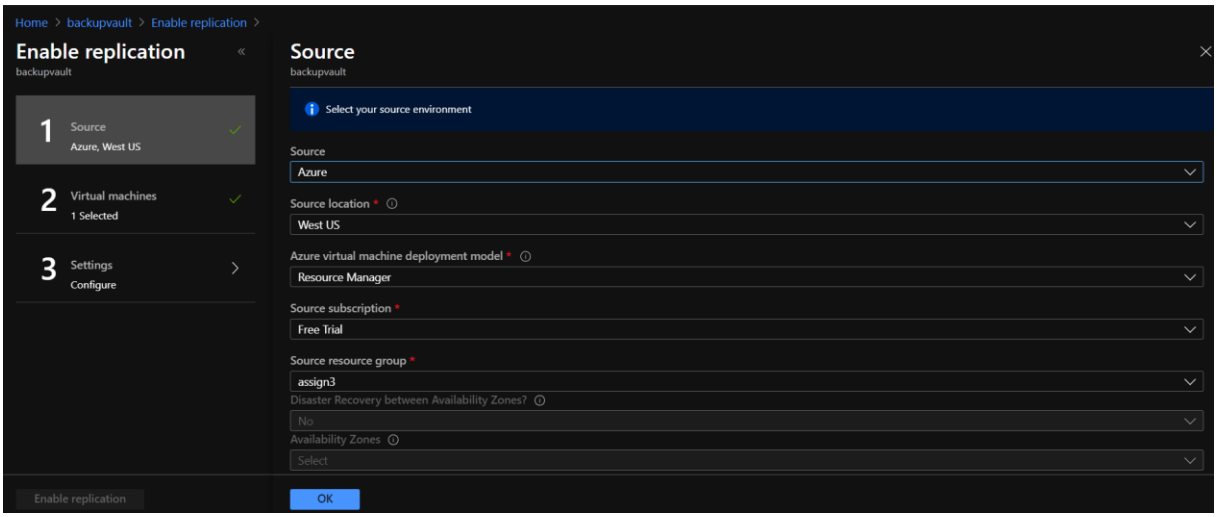




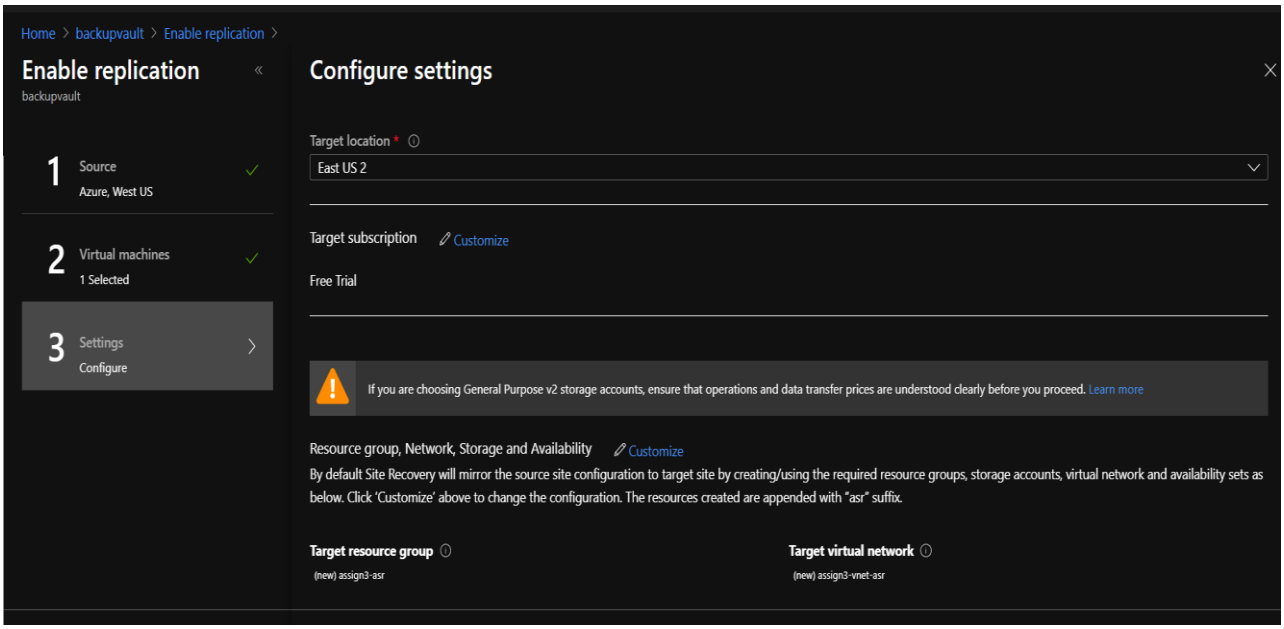
I enable backup for vm1.



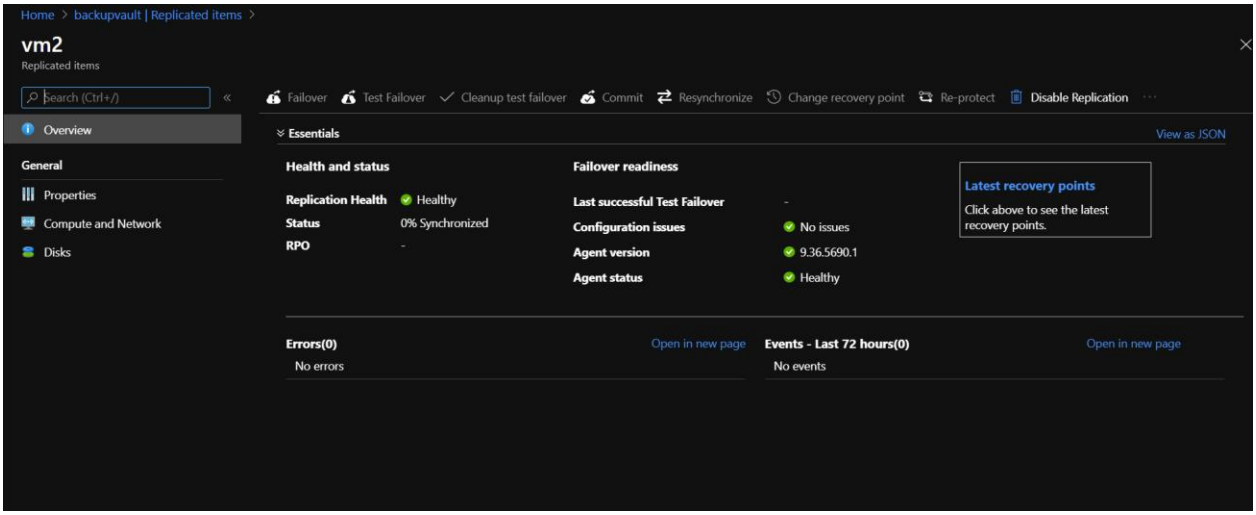
6. Replicate the VM form west us to any location using failover



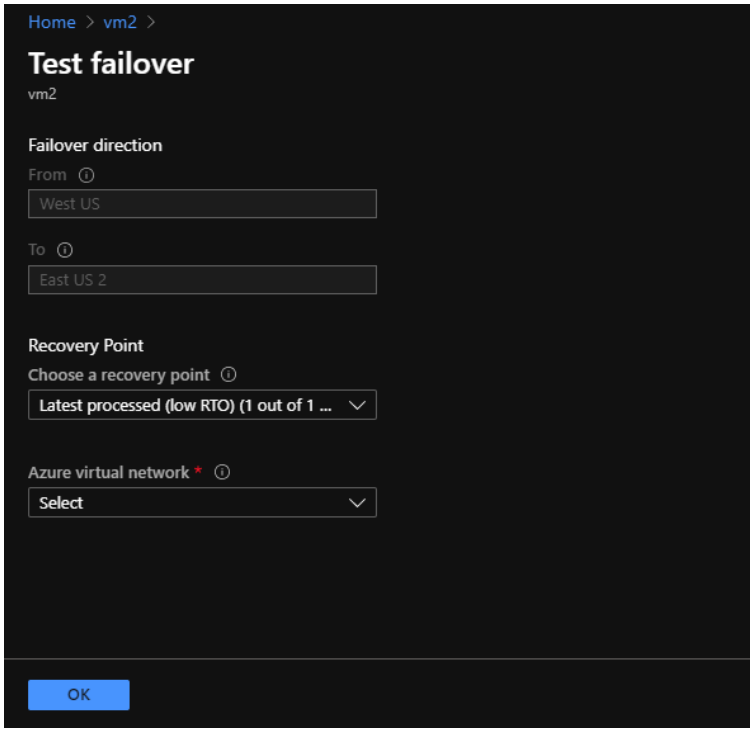
Here also first I created a Azure recovery service vault named backupvault and replicate the vm2 from West US to East US 2.

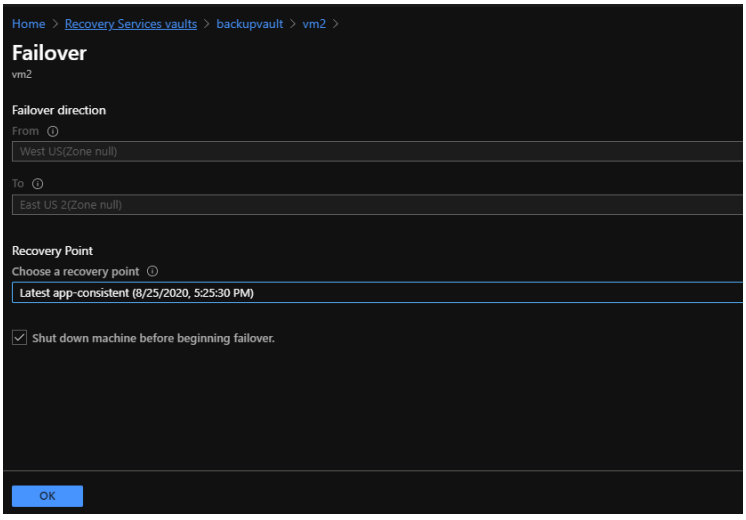


After configure settings click enable replication.

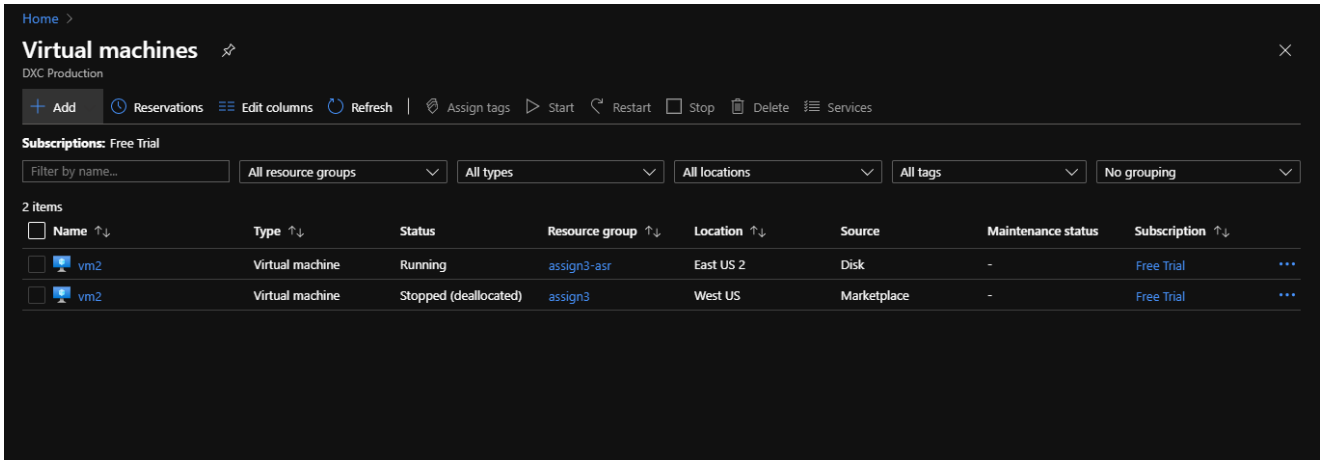


After replication and 100% synchronization I run the Test Failover and cleaned it up.

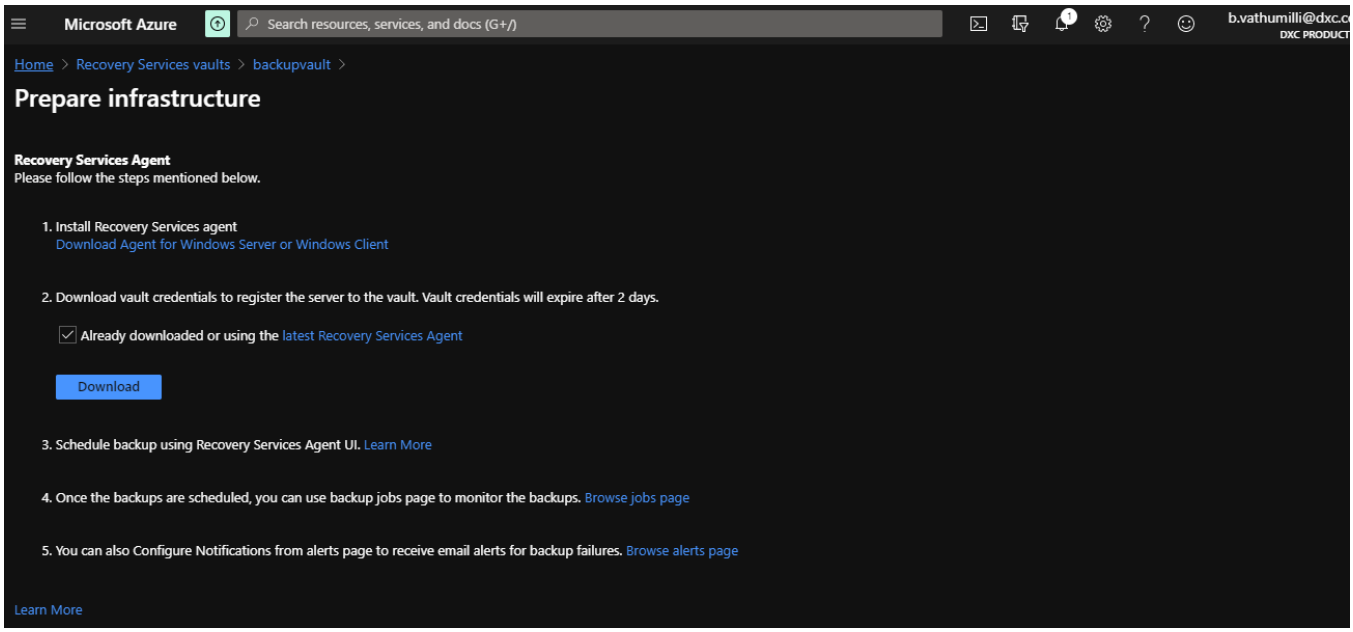




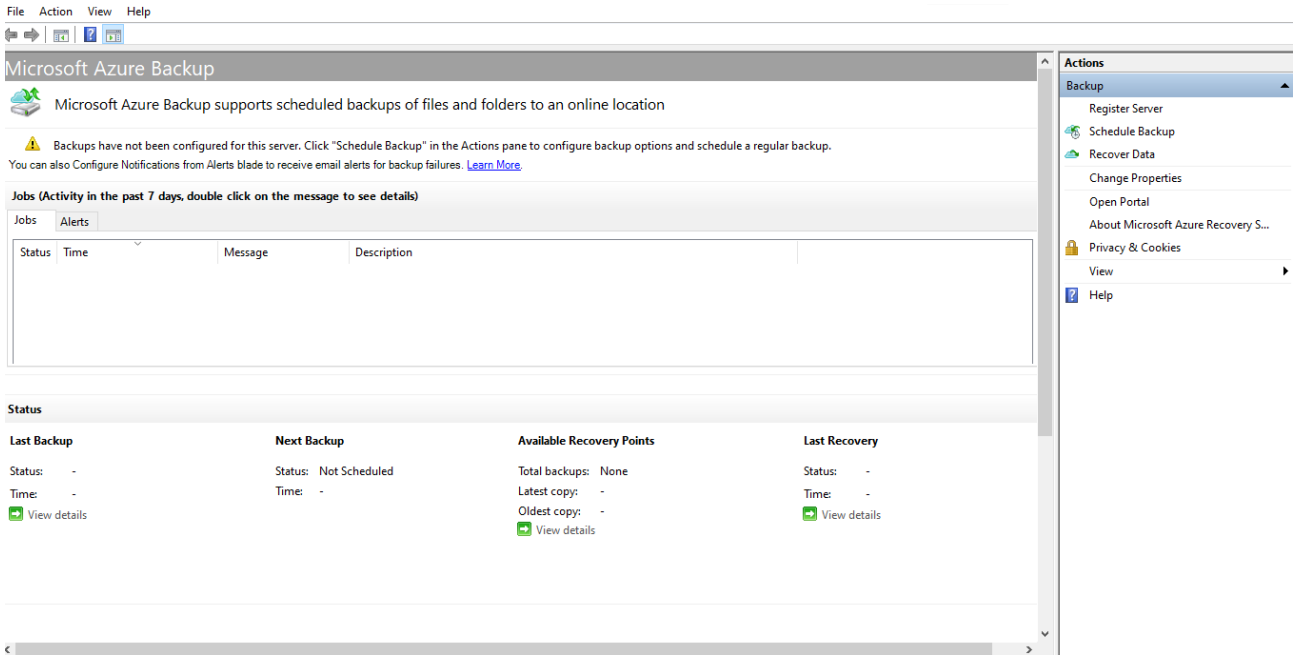
After test failover I create failover of vm2 which is created in East US 2 location as shown below.

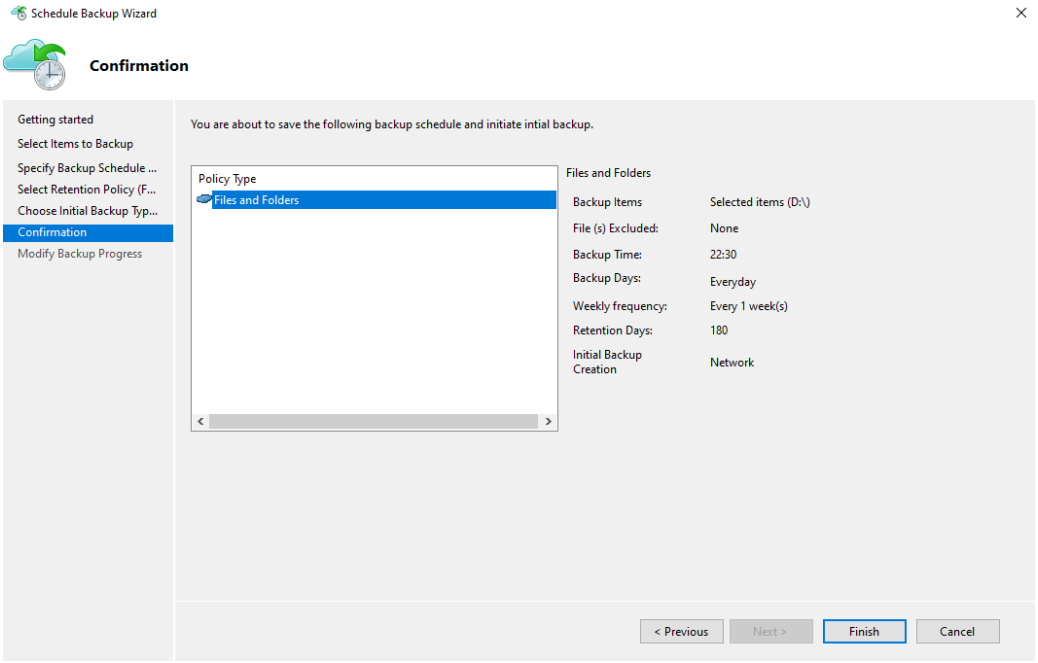


7. Take a on-premises backup using backup agent and exclude test folder from any drive

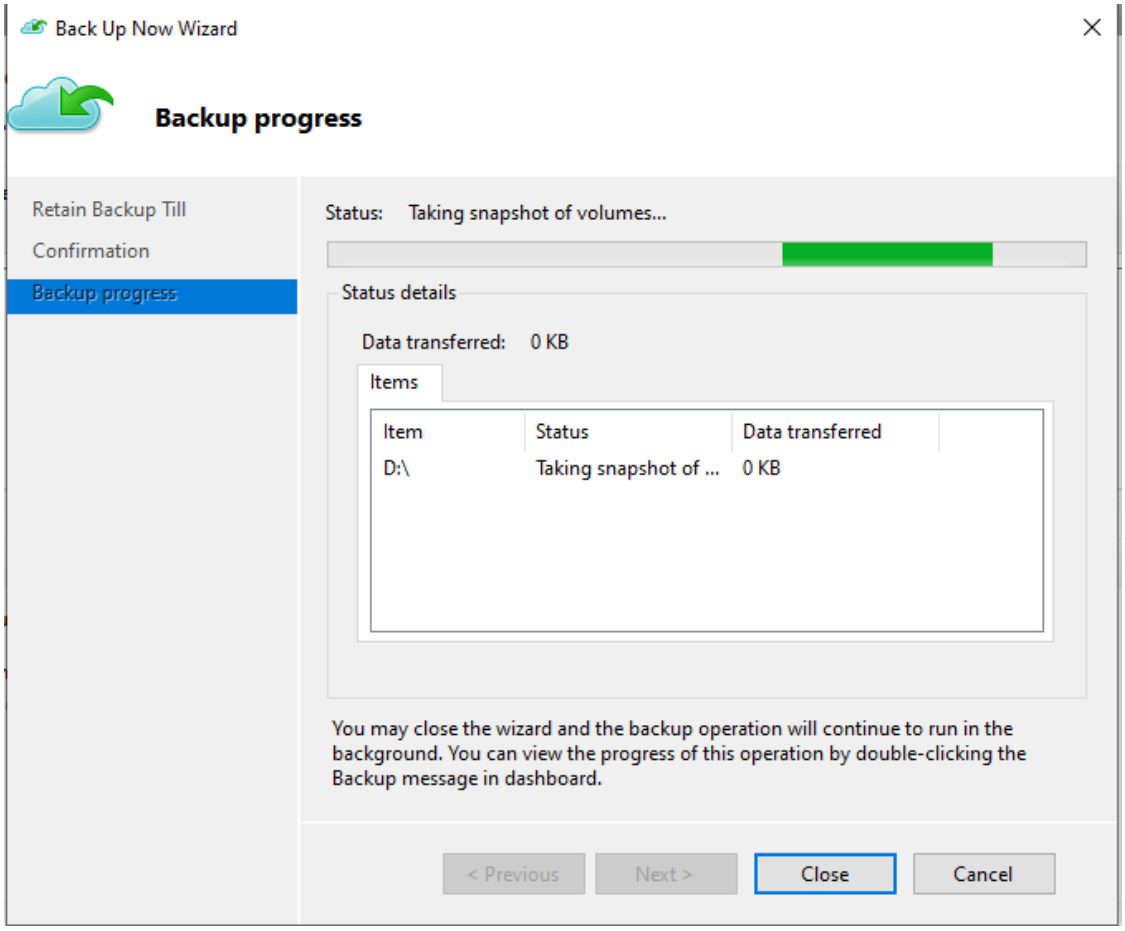


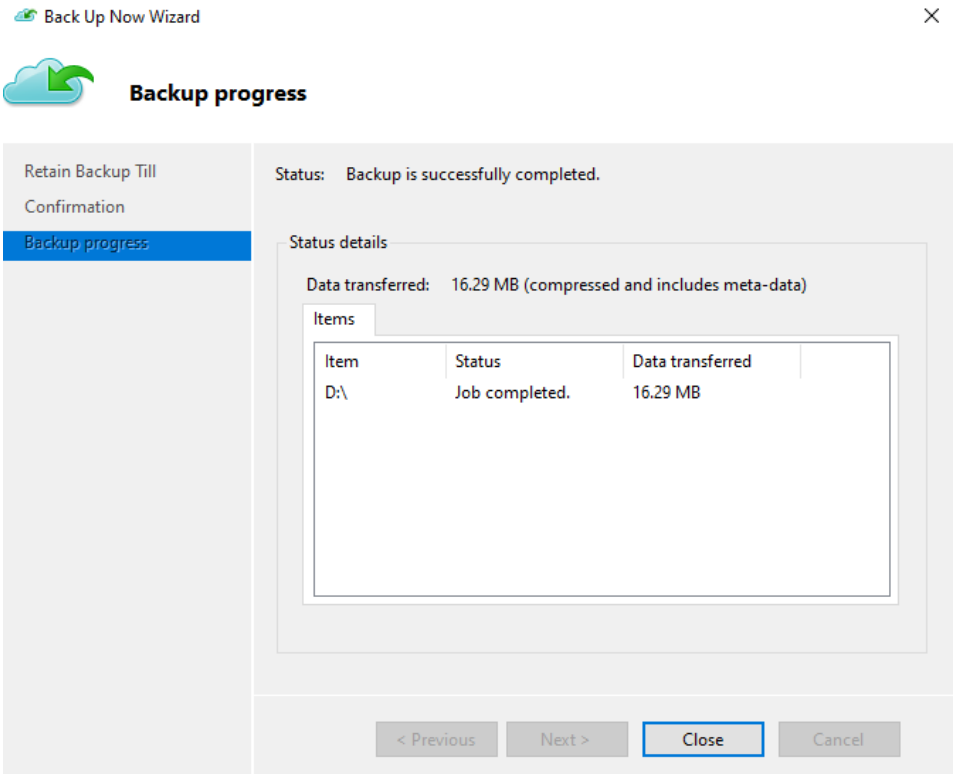
In the service vault named backupvault I created a backup for on-premises server for files and folders. After that I download and install Recovery services agent in the local server and configure it using azure vault credentials.



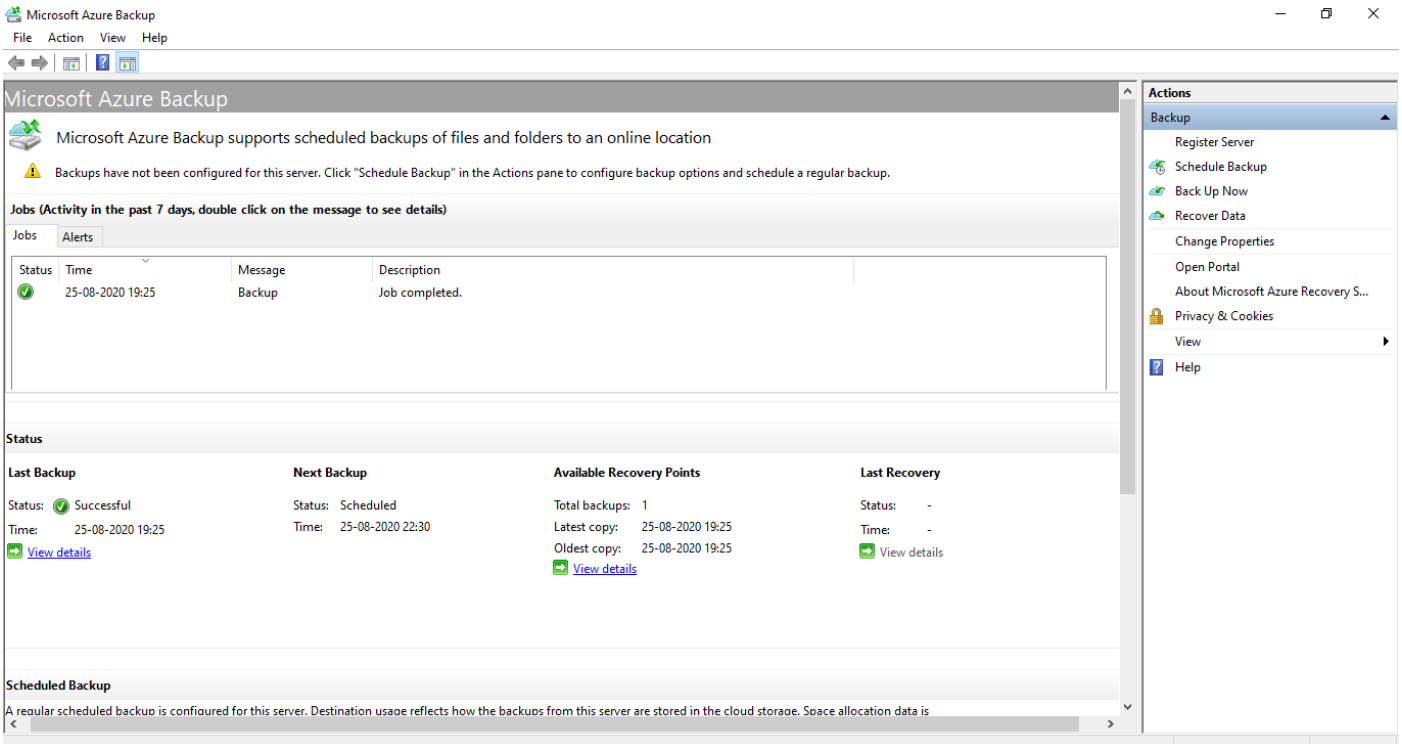


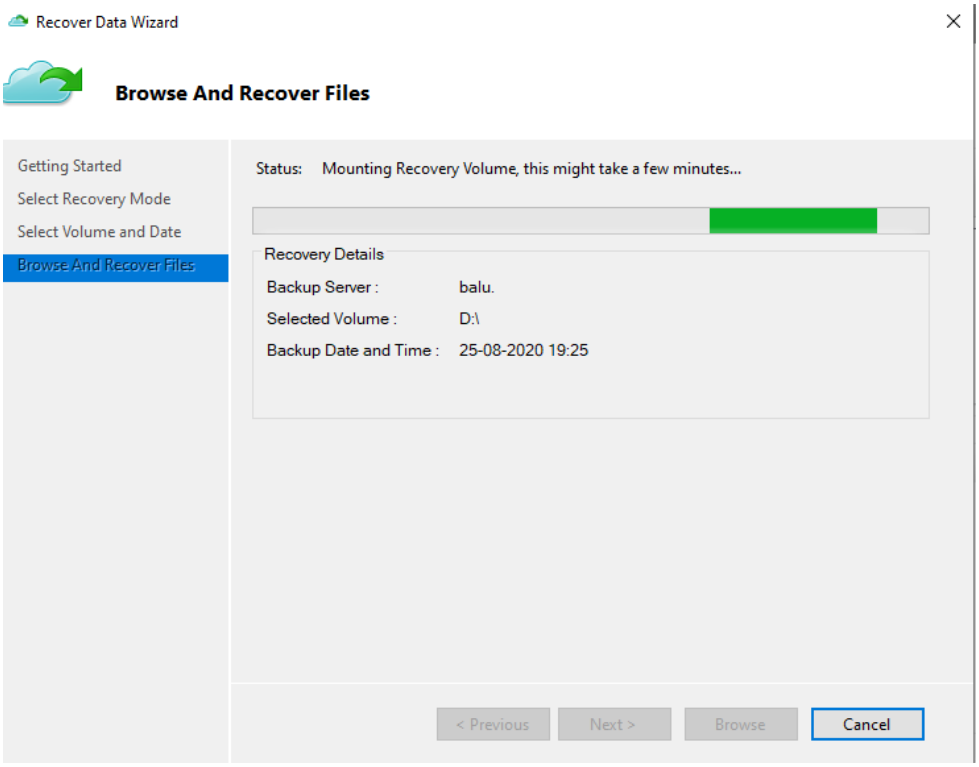
Here I configure schedule backup with 180 days retention period. I select a folder named **backup** in D drive for Backup. After that I select the Backup now option.

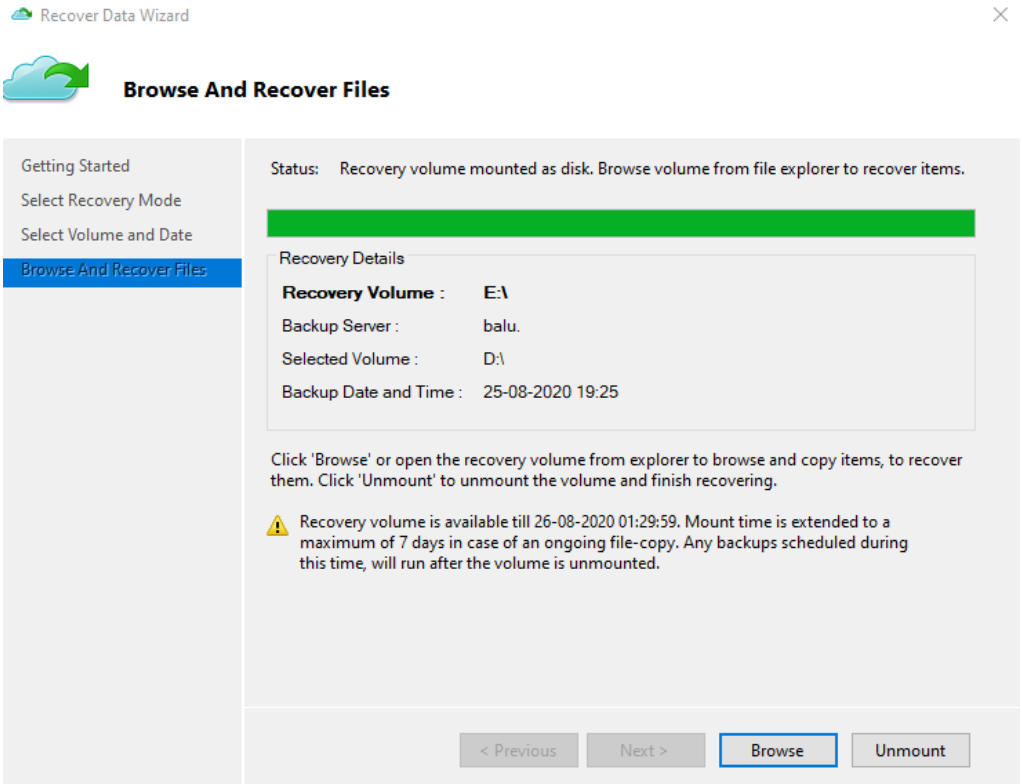




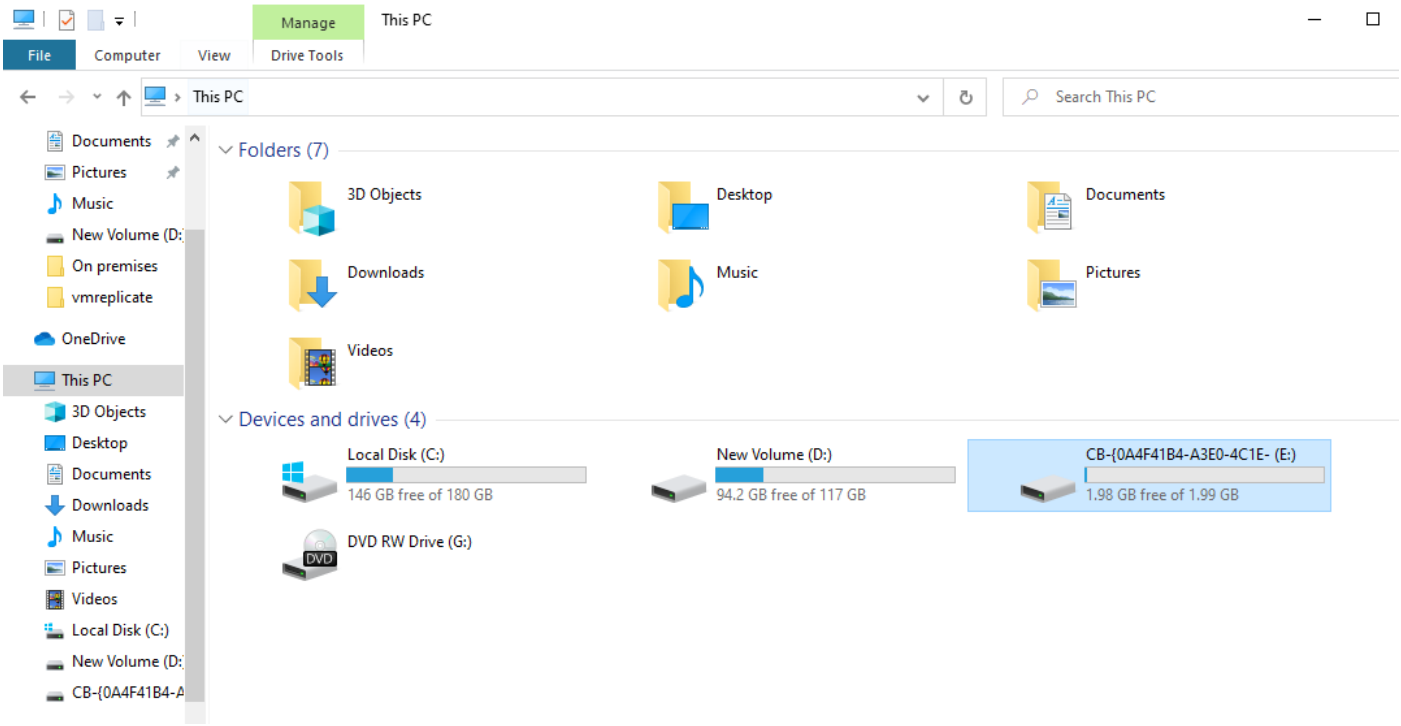
Here the Backup is finished.

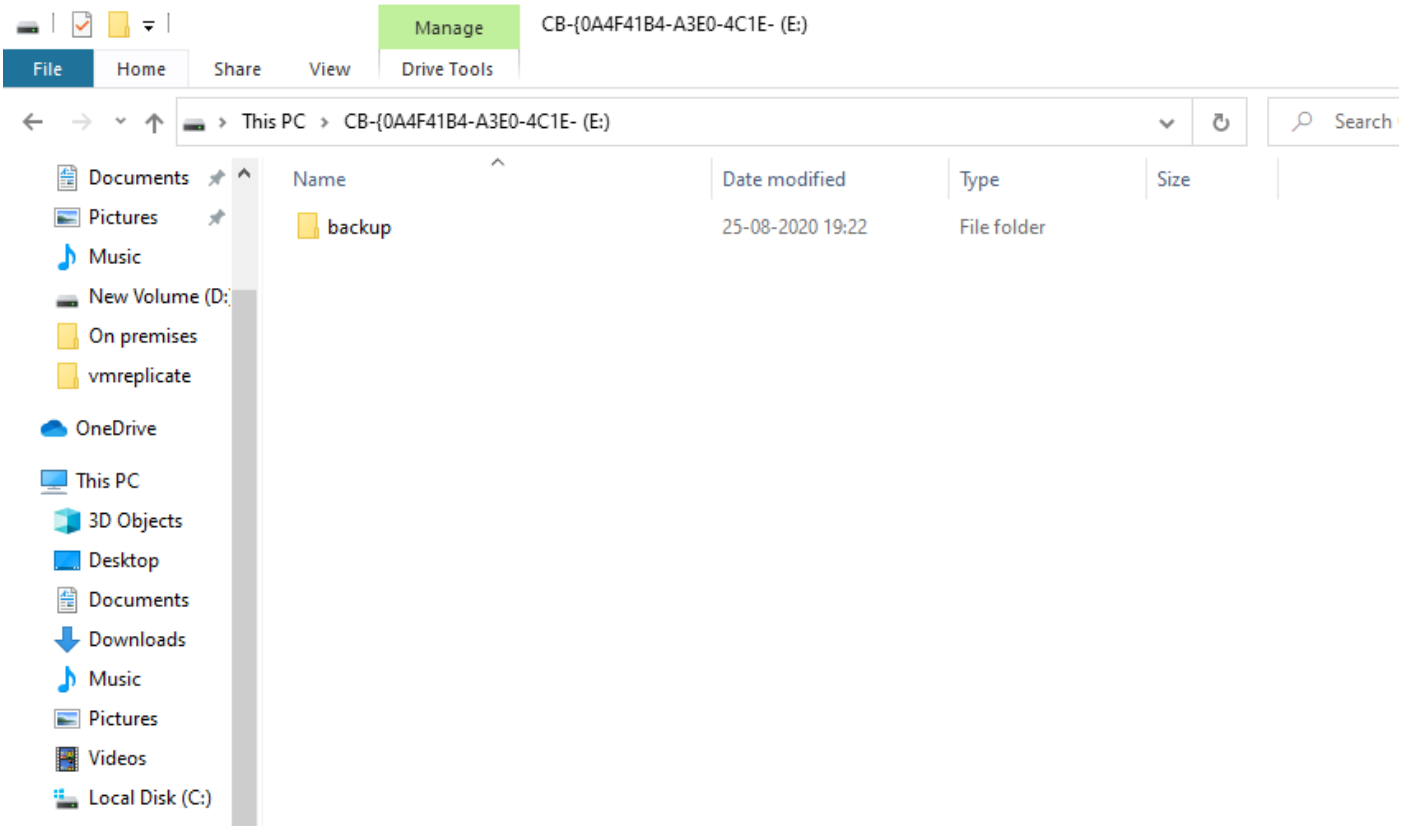






Now I delete that backup folder and try to recover it. After completing the recovery process it shows like below.





In the separate mounted disk the recover files are shown so I can copy that folder to original location.