Module 4: Assignment - 1

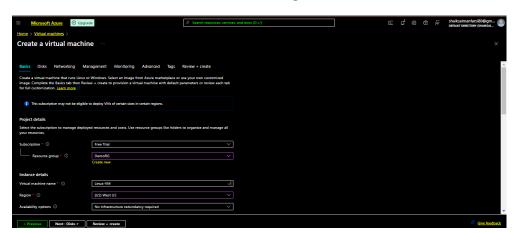
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Tasks To Be Performed:

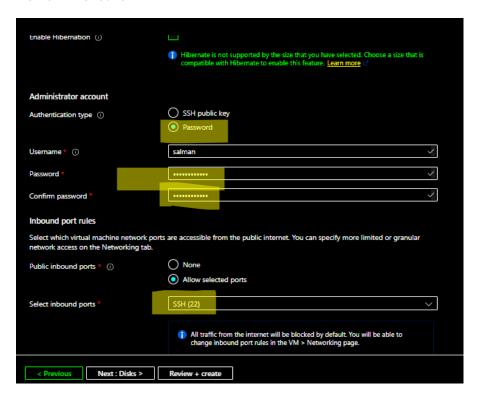
- 1. Create a VM in the west US region
- 2. Select the Ubuntu image for creating the VM
- 3. Open the SSH port
- 4. Connect to the Linux VM using the terminal

Launch VM for Ubuntu OS on west US Region

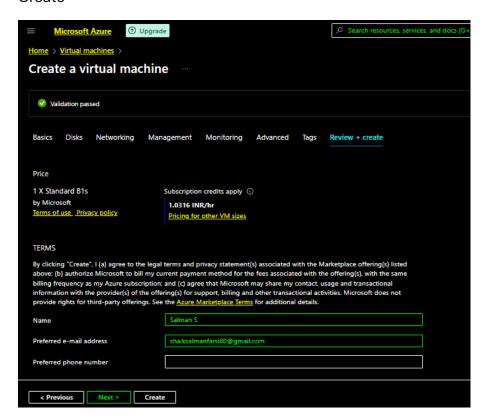




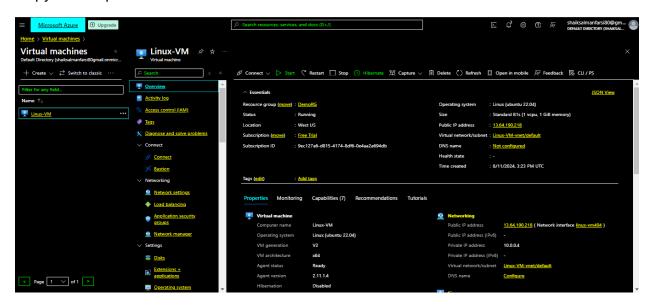
Review + Create



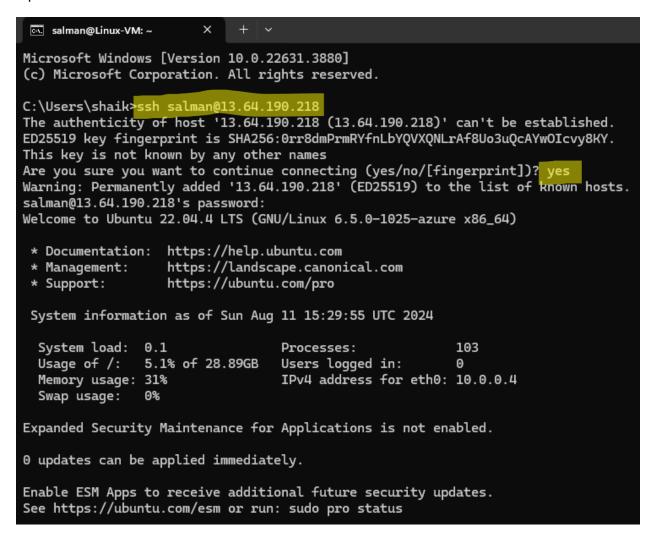
Create



Copy Public Ip



Open Cmd



salman@Linux-VM: ~ System information as of Sun Aug 11 15:29:55 UTC 2024 System load: 0.1 Processes: 103 Usage of /: 5.1% of 28.89GB Users logged in: IPv4 address for eth0: 10.0.0.4 Memory usage: 31% Swap usage: Expanded Security Maintenance for Applications is not enabled. O 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.

Module 4: Assignment - 2

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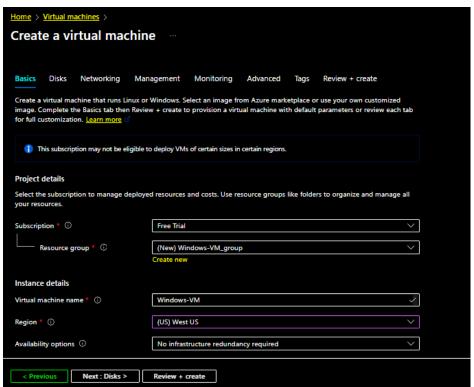


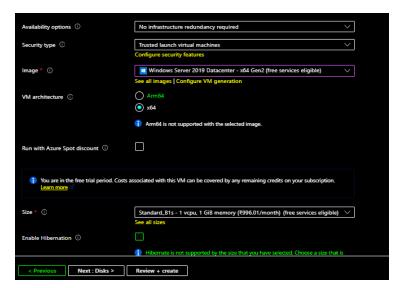
Tasks To Be Performed:

- 1. Create a Windows VM in west US region
- 2. Open the RDP port
- 3. Connect to it using Windows Remote Desktop

Launch Windows VM on west US Region

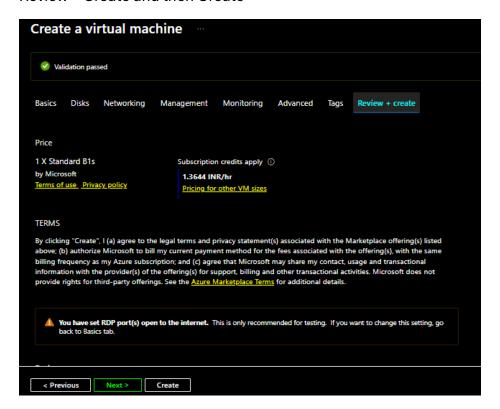






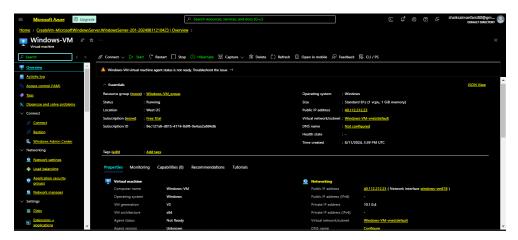


Review + Create and then Create

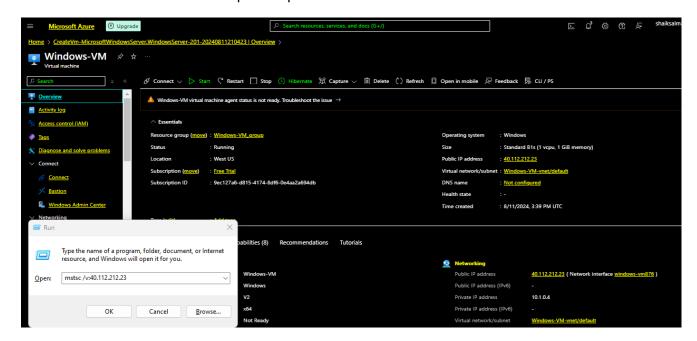




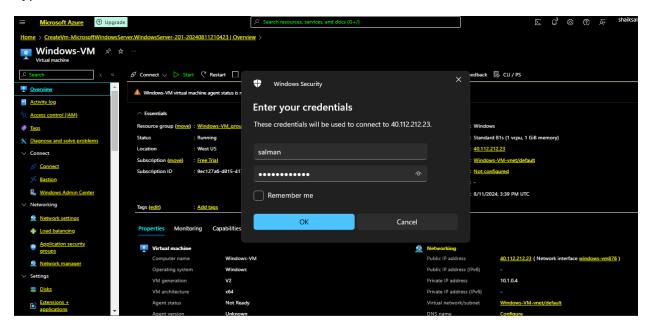
Copy Public Ip



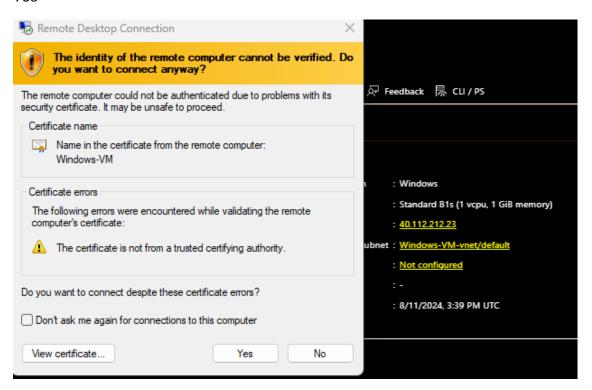
Click Window + R and mstsc /v:public ip



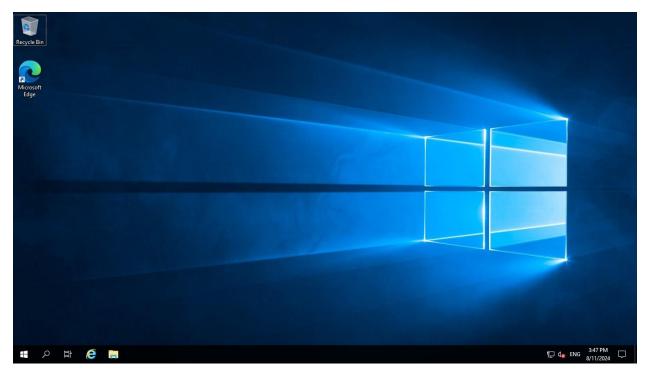
Type VM Credentials to connect RDP

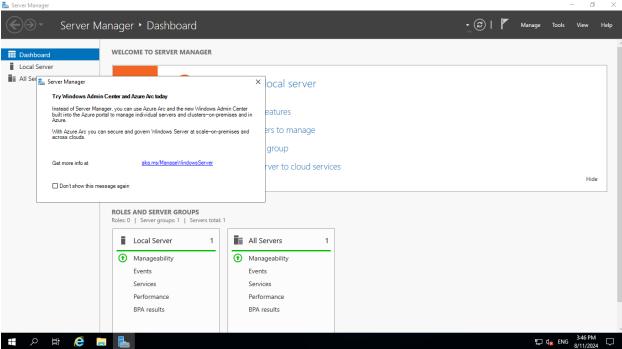


Yes



Connected





Module 4: Assignment - 3

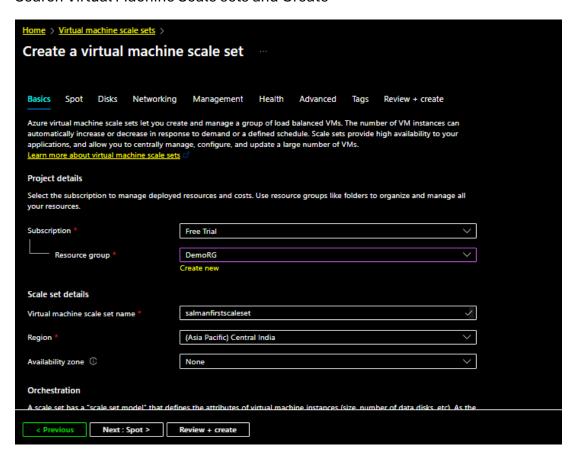
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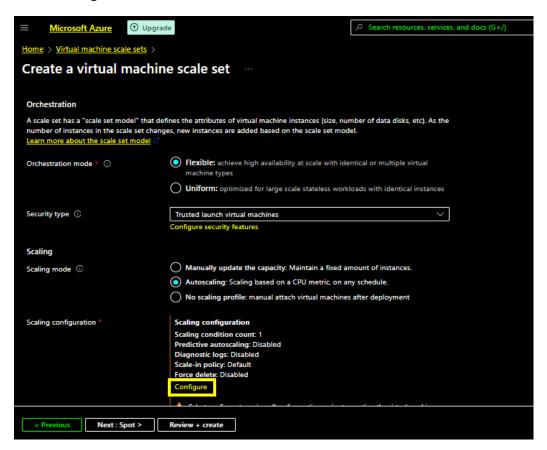
Tasks To Be Performed:

- 1. Create a VM scale set with Ubuntu as OS
- 2. Give min VM's as 1 and maximum as 5
- 3. For scale-out CPU % is 75 and increase by 1 VM
- 4. For scale-in CPU % is 25 increase by 1 VM

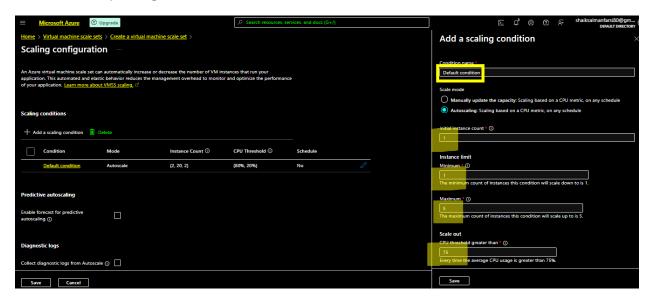
Search Virtual Machine Scale sets and Create

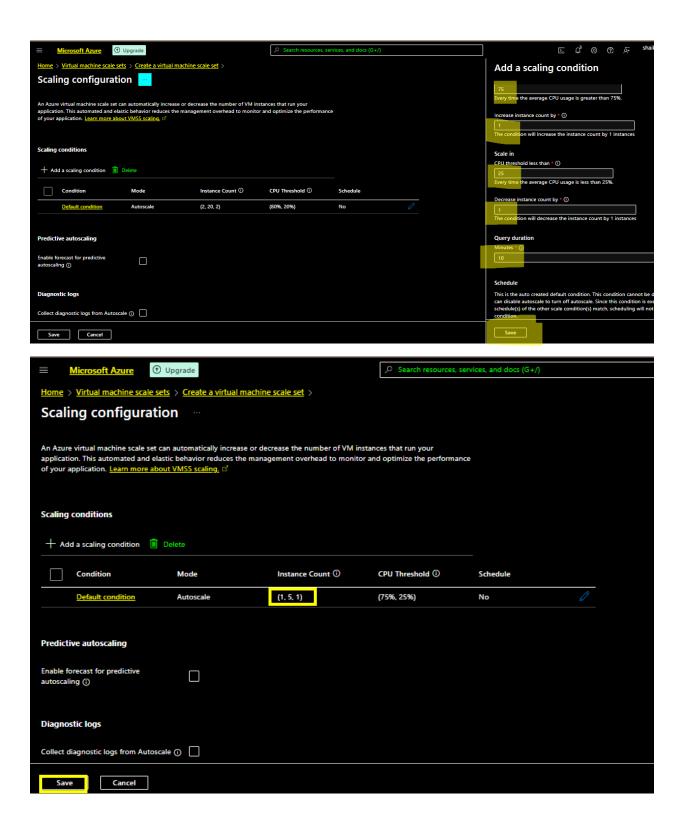


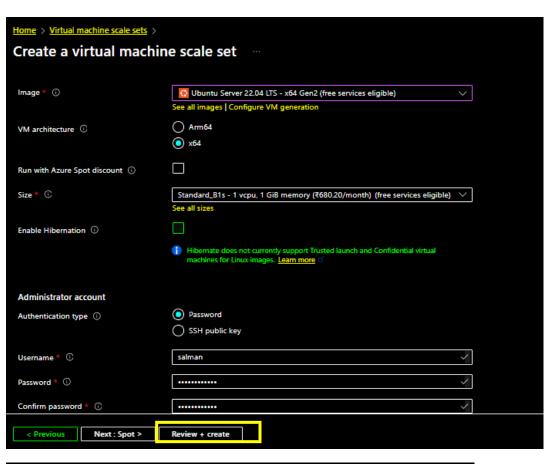
Click Configuration

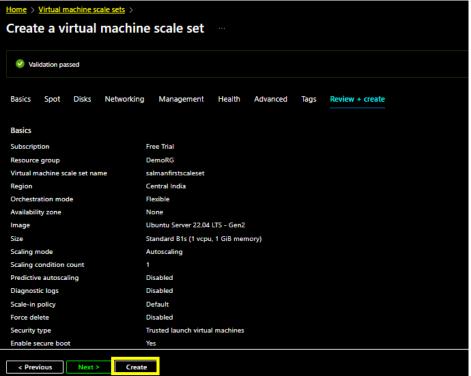


Need to Set Up Assignment Task Here

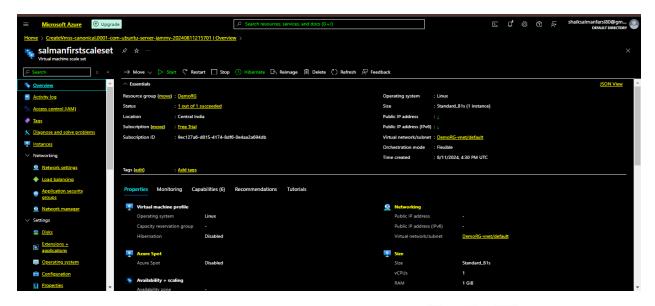








Assignment Task Completed



Module 4: Assignment - 4

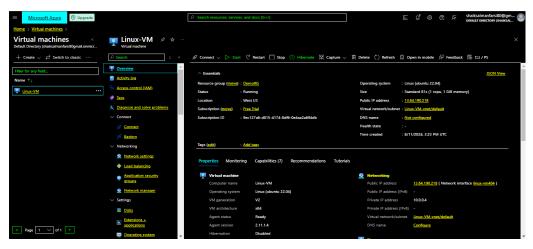
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Tasks To Be Performed:

- 1. Create a Linux VM with Ubuntu OS
- 2. Install Apache2 software
- 3. Create image out of VM

In Assignment I installed ubuntu virtual machine and I am using the same VM now



```
salman@Linux-VM:~
salman@Linux-VM:~
sudo apt update
Hit:1 http://azure.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://azure.archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Hit:3 http://azure.archive.ubuntu.com/ubuntu jammy-backports InRelease
Get:4 http://azure.archive.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
Fetched 257 kB in 1s (344 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
13 packages can be upgraded. Run 'apt list --upgradable' to see them.
salman@Linux-VM:~$
```

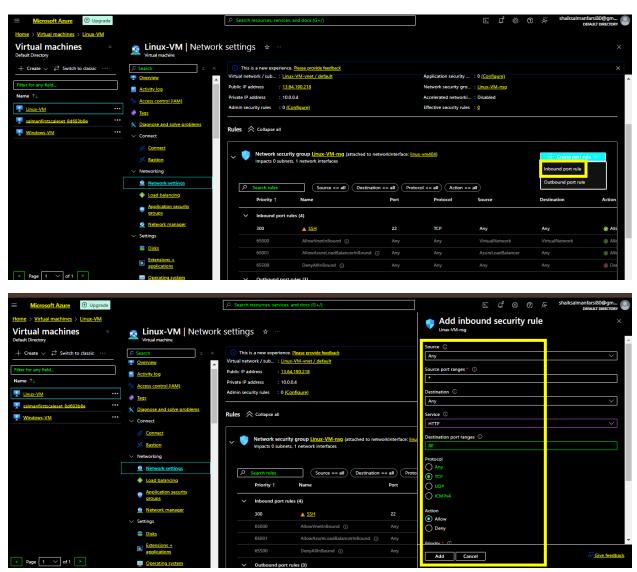
No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.

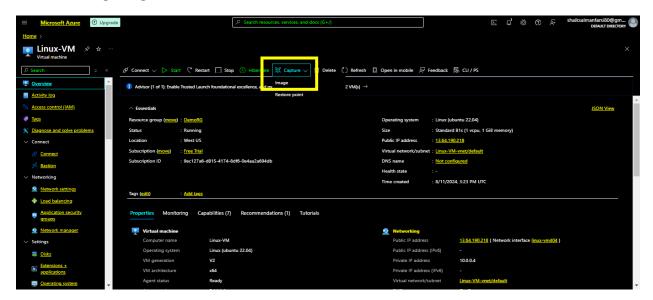
salman@Linux-VM:~\$

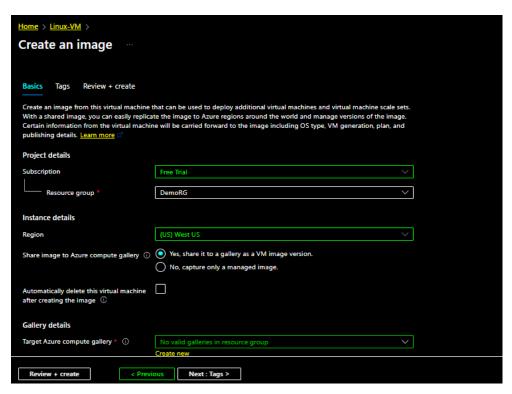
I am using Assignment 1 VM so on that time we are not enable to http port so here need to modify

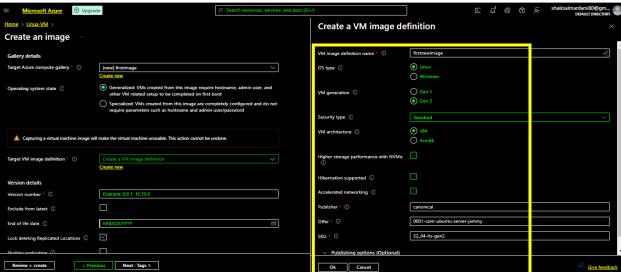


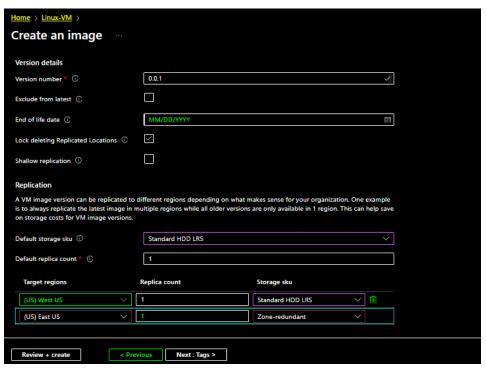


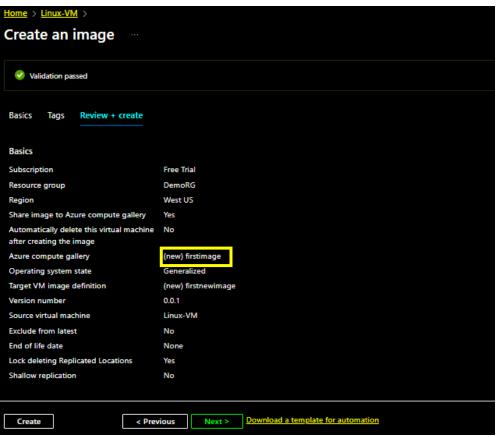
Now Creating Image



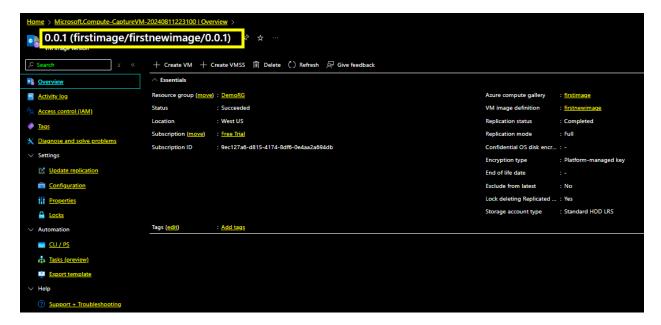








Now the Assignment Task is completed



Module 4: Assignment - 5

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Tasks To Be Performed:

- 1. Deploy a VM from the previously created image
- 2. Open port 80 in NSG
- 3. Start the Apache2 service in the VM
- 4. Verify if you are able to access the website

Now Deploying VM using with Previously created Image



