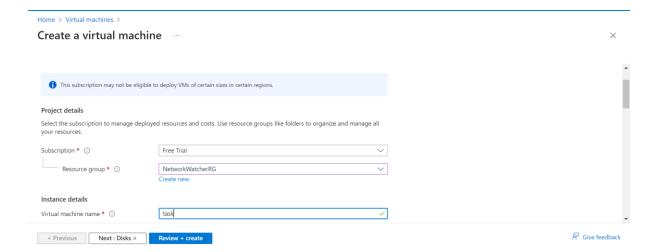
Module 4 - Azure Virtual Machines And Advance Azure Virtual Machines

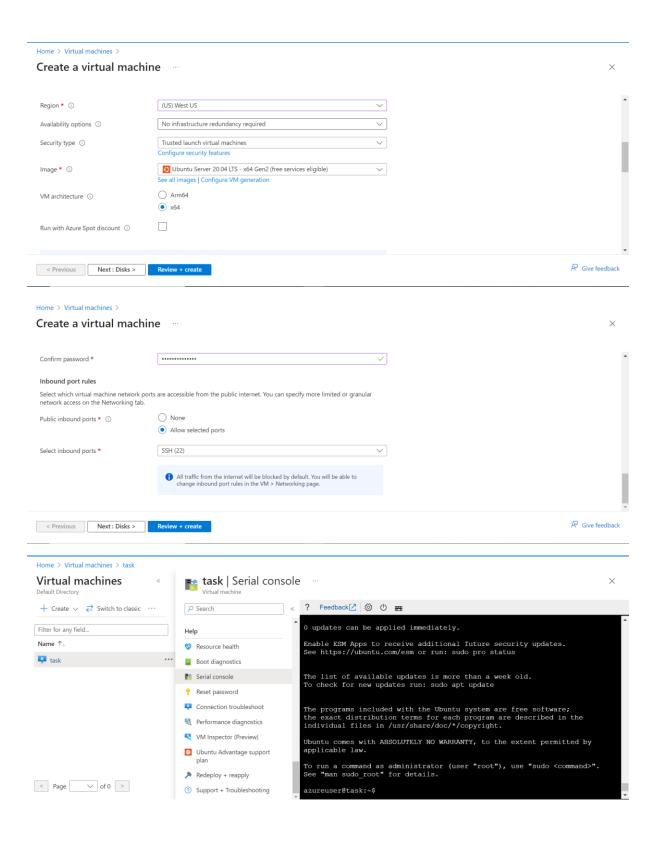
Assignment – 1

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

- Click the create Azure Virtual machine
- Provide the necessary resource group
- Provide the name for the Virtual machine
- Provide the region as US west
- Select the Ubuntu in Image
- Select Inbound rule as SSH
- Provide the necessary configurations
- Finally Virtual machine is created
- Connect to the Virtual machine which was created in terminal

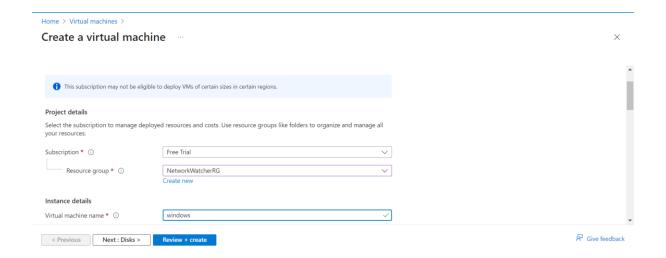


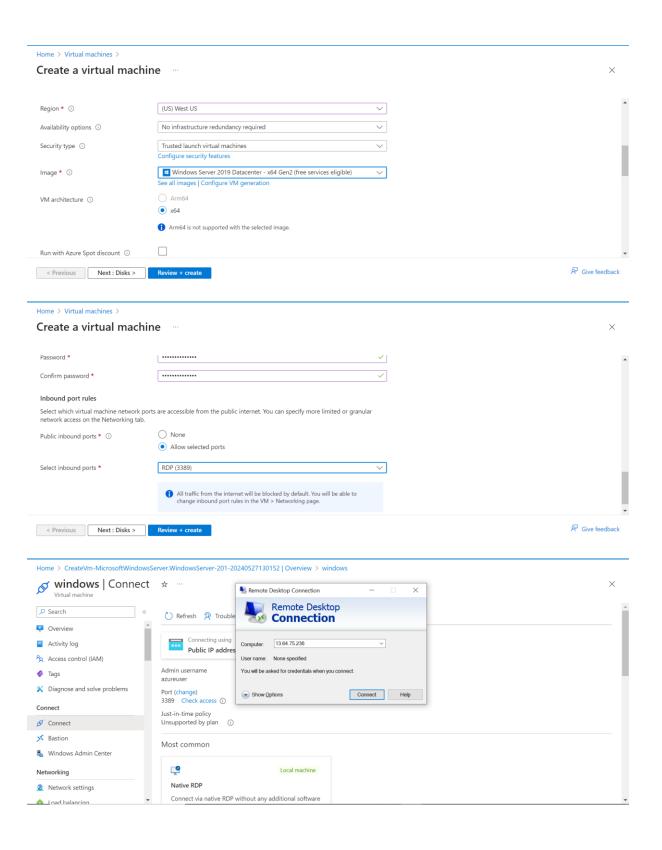


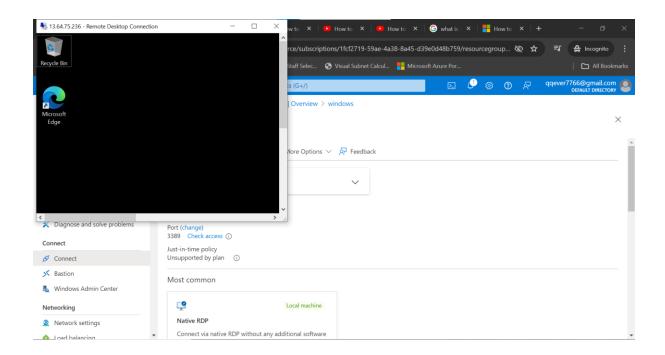
Tasks To Be Performed:

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

- Click the create Azure Virtual machine
- Provide the necessary resource group
- Provide the name for the Virtual machine
- Provide the region as US west
- Select the Windows server in Image
- Select Inbound rule as RDP
- Provide the necessary configurations
- Finally Virtual machine is created
- Open the Remote desktop connection in PC and Provide the public IP address of Virtual machine
- Click the connect and provide the user name and password
- Finally connected to windows virtual machine which was created.



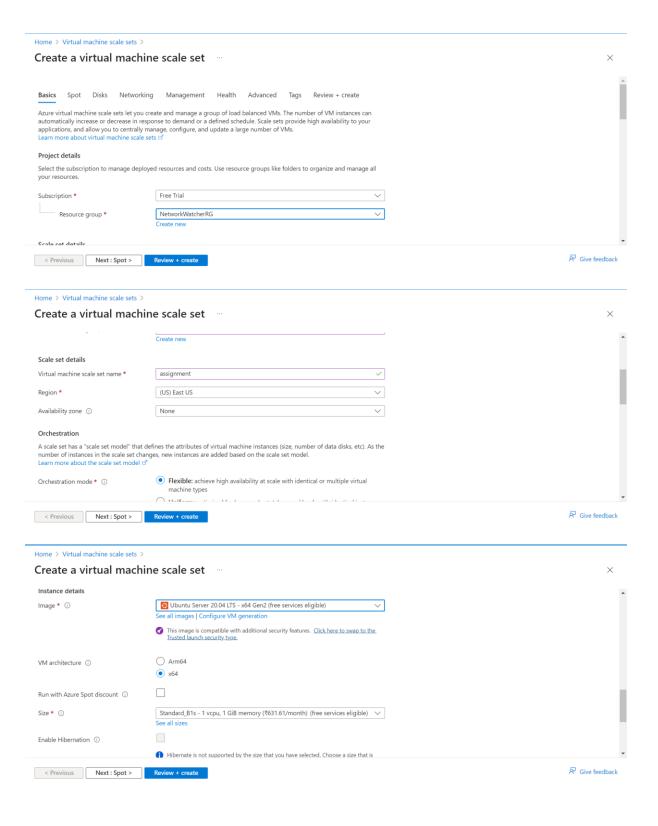


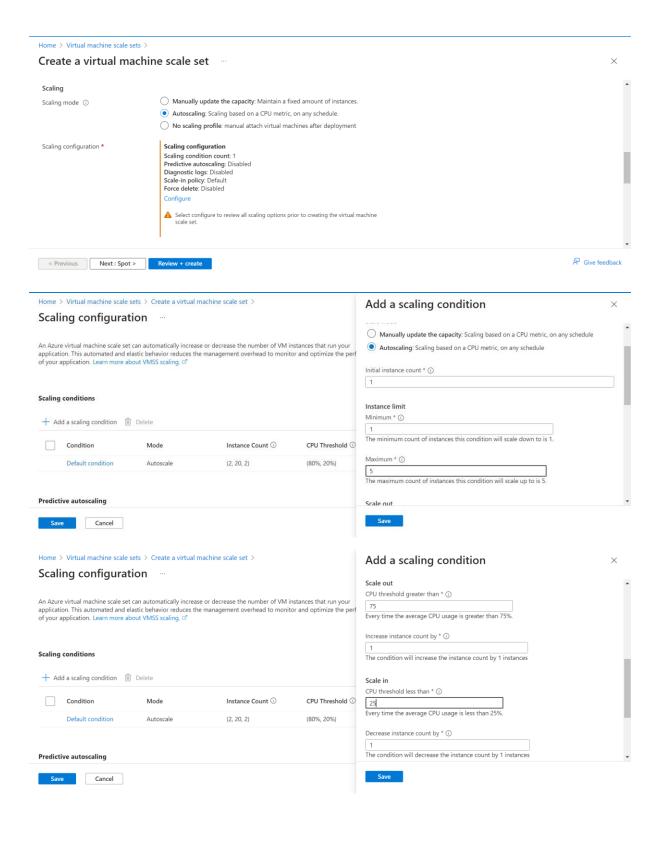


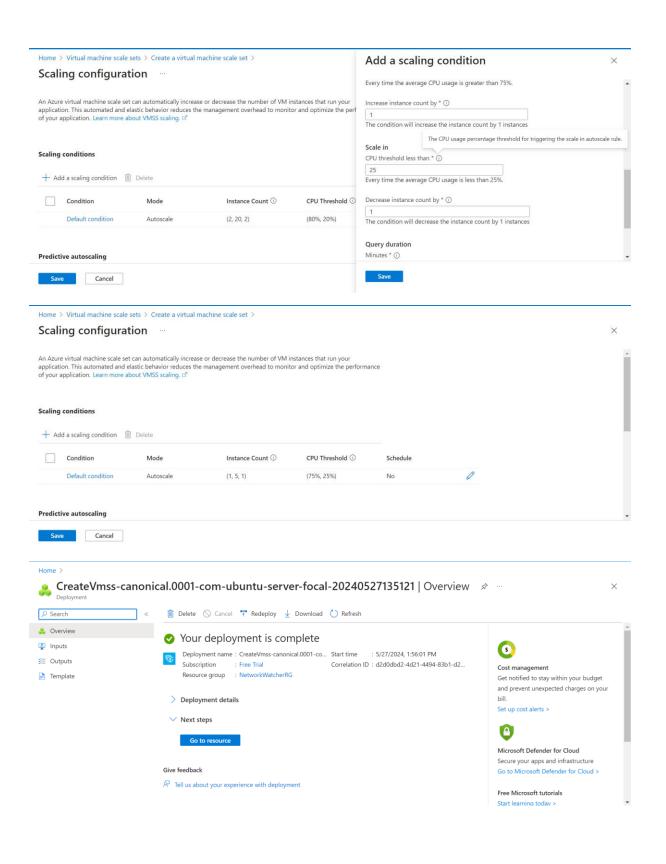
Tasks To Be Performed:

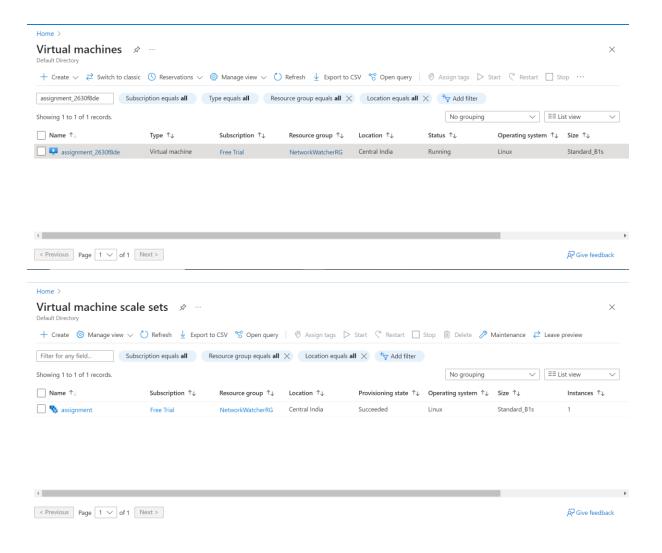
- 1. Create a VM scale set with Ubuntu as OS
- 2. Give min VM's as 1 and maximum as 5
- 3. For scale-out CPU % is 75 and increase by 1 VM
- 4. For scale-in CPU % is 25 increase by 1 VM

- Go into the virtual machine scale set in Azure
- Next Click the create
- Provide the necessary resource group
- Provide the name for the virtual machine scale set
- And Provide the necessary region
- Select the Ubuntu in Image
- Select the autoscaling in scaling and click the configure
 - a) Provide the scaling condition initial instance count as 1
 - b) Provide in the instance limit minimum as 1 and maximum as 5
 - c) Provide in the scale out If CPU threshold greater than 75% and increase instance county by 1
 - d) Provide in the scale In If CPU threshold less than 25% and decrease Instance County by 1
 - e) Next click the save
- Provide the necessary configurations
- Finally Virtual machine is created





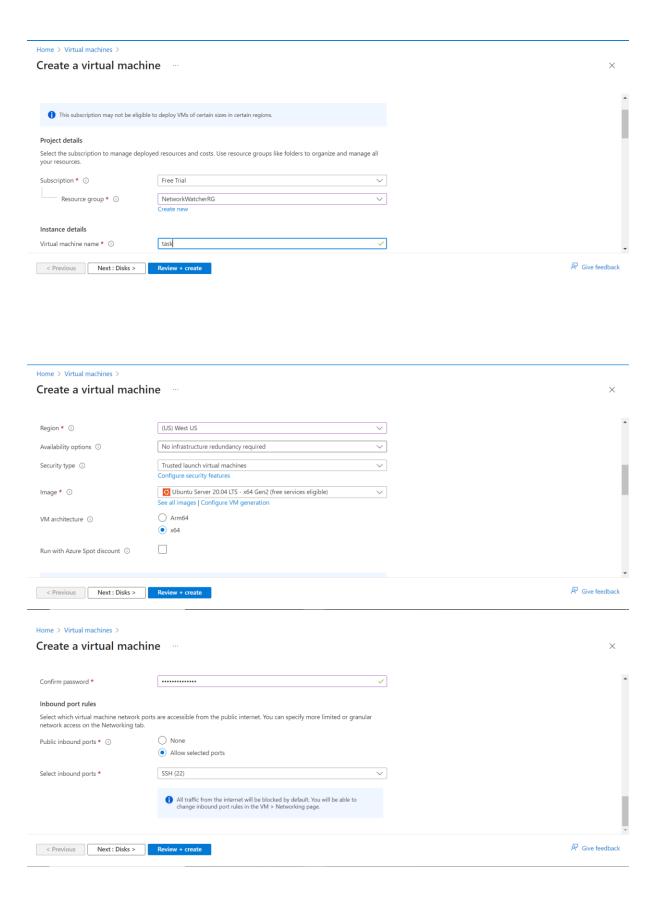


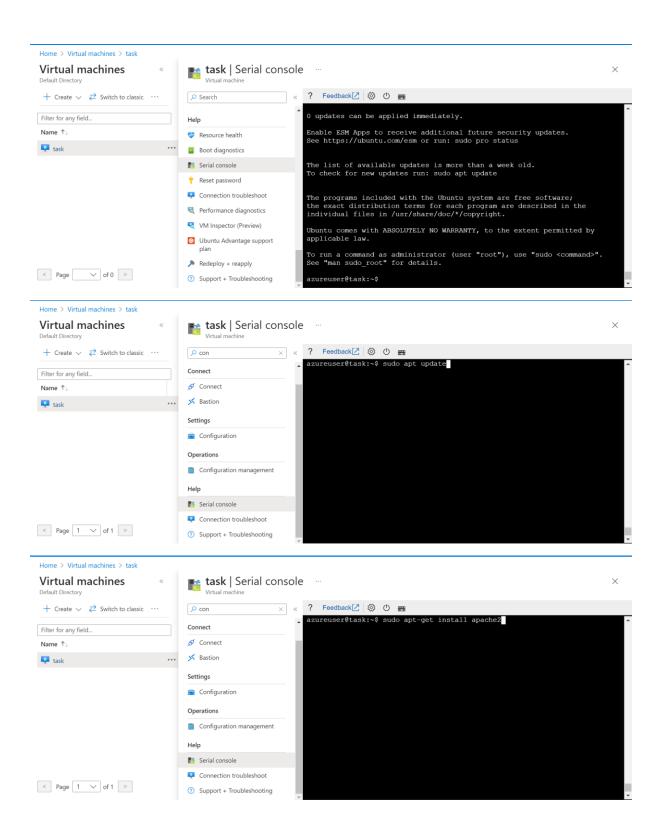


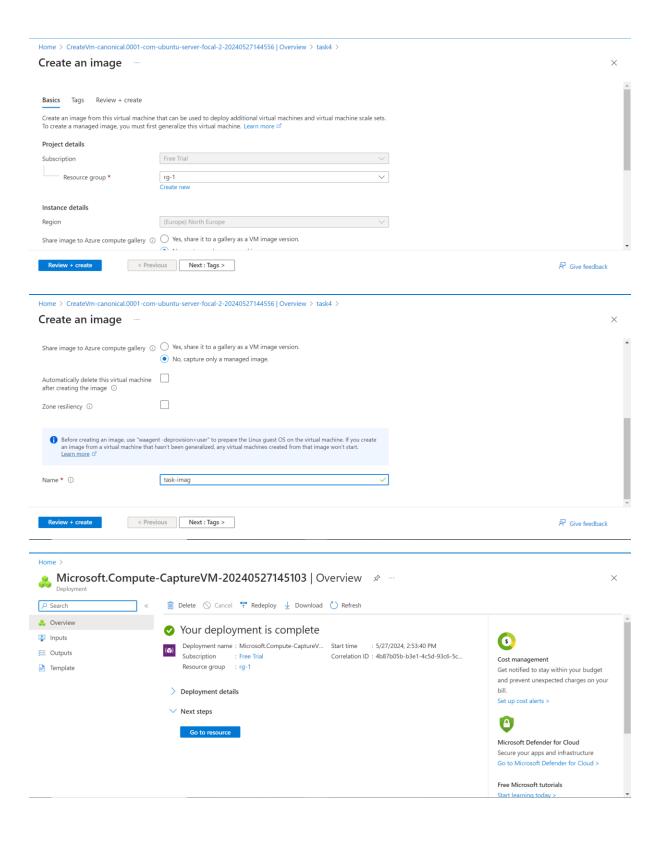
Tasks To Be Performed:

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

- Click the create Azure Virtual machine
- Provide the necessary resource group
- Provide the name for the Virtual machine
- Provide the necessary region
- Select the Ubuntu in Image
- Provide the necessary configurations
- Finally Virtual machine is created
- Connect to the Virtual machine which was created
- To Update the Virtual machine by running the command **sudo apt update**
- Next to install Apache2 by running the command **sudo apt-get install apache2**
- Next go inside the Virtual machine and click the capture
- Provide the necessary resource group
- Provide the name for the creating image
- Provide the necessary configurations
- Finally the Image is created







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

- Click the create Azure Virtual machine
- Provide the necessary resource group
- Provide the name for the Virtual machine
- In Image select the image which was created in previous assignment 4
- Provide the necessary configurations
- Finally Virtual machine is created
- Go inside the created Virtual machine and click network settings
- Next click create port rule and provide the port as 80 and click on add
- Connect to the Virtual machine which was created
- Next to start the Apache2 service by running the command sudo service apache2 start
- To see the Apache2 page on browser put the **public IP address** of Virtual machine in the Brower the Apache2 page will be reflected.

