Azure Virtual Machines and Advance Azure Virtual Machines

Assignment 1:

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

```
To update your account to use zsh, please run `chsh -s /bin/zsh`.
For more details, please visit https://support.apple.com/kb/HT208050.
macbooks-MacBook-Air:~ macbookair$ ssh azureuser@20.171.97.133
azureuser@20.171.97.133's password:
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.8.0-1021-azure x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/pro

 System information as of Thu Mar 20 13:28:25 UTC 2025

  System load:  0.0               Processes:             129
  Usage of /:   5.4% of 28.02GB   Users logged in:       0
  Memory usage: 3%                IPv4 address for eth0: 10.0.0.4
  Swap usage:   0%

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.

azureuser@linux-vm:~$
```

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Assignment 2:

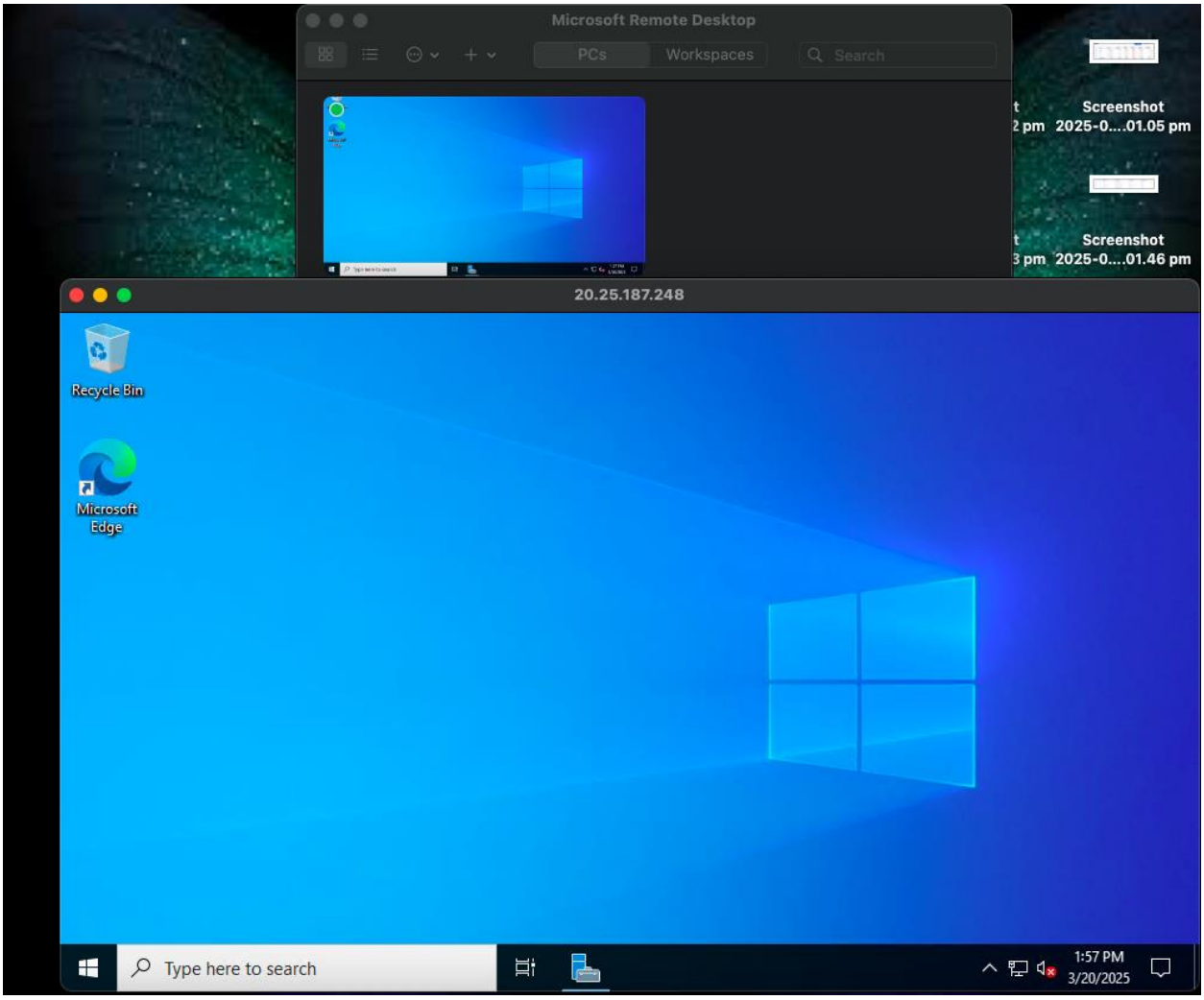
1. Create a Windows VM in west US region

Essentials JSON View

Resource group (move)	: linux-vm_group	Operating system	: Windows (Windows Server 2022 Datacenter Azure Editi...
Status	: Running	Size	: Standard D2s v3 (2 vcpus, 8 GiB memory)
Location	: West US 3	Public IP address	: 20.25.187.248
Subscription (move)	: Pay-As-You-Go	Virtual network/subnet	: linux-vm-vnet/default
Subscription ID	: 38bd44d5-d91c-4f34-8f1e-c946d6697ae4	DNS name	: Not configured
		Health state	: -
		Time created	: 20/03/2025, 13:46 UTC

2. Open the RDP port

3. Connect to it using Windows Remote Desktop



Assignment 3:

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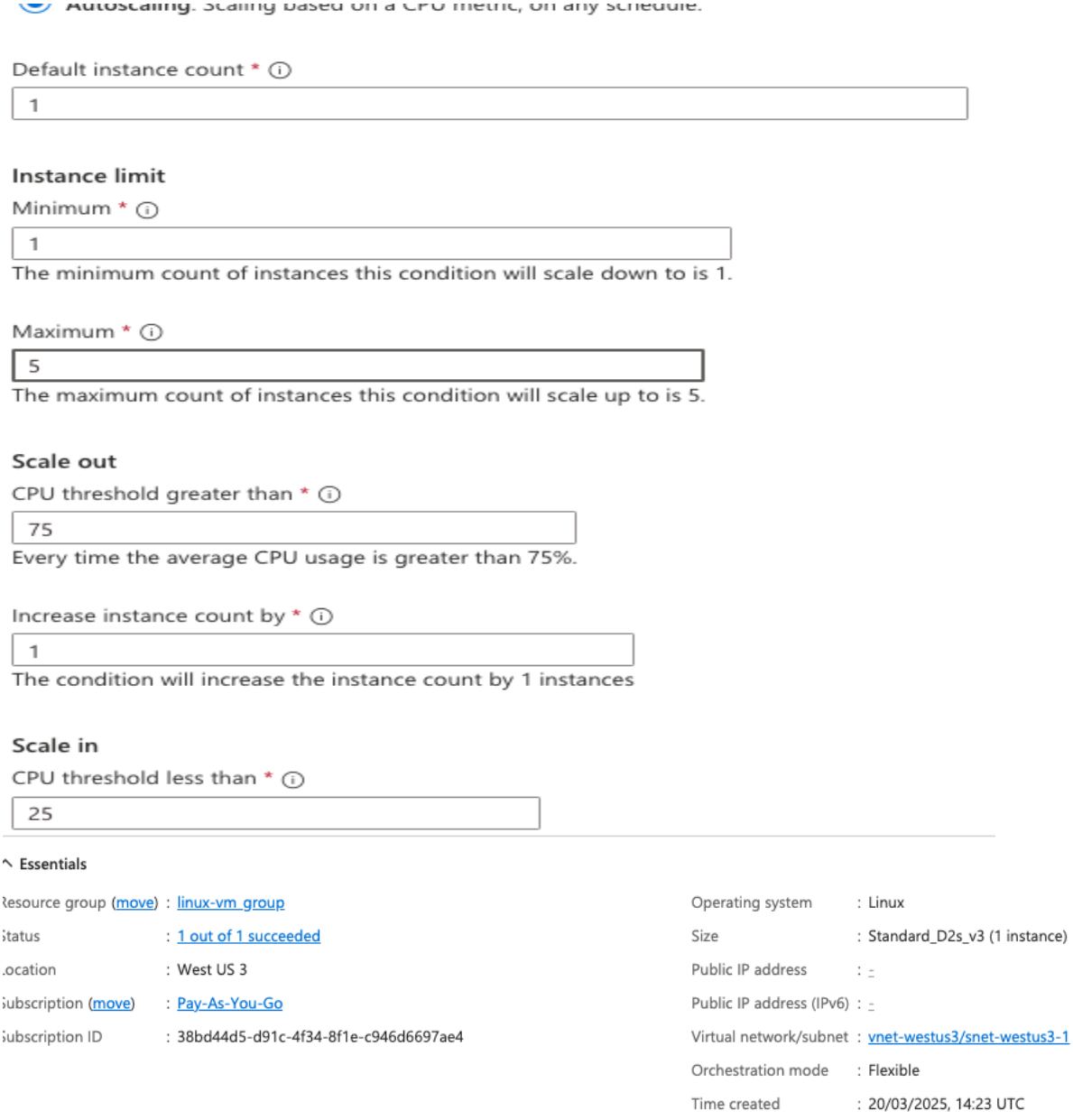
1. Create a VM scale set with Ubuntu as OS

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



Assignment 4:

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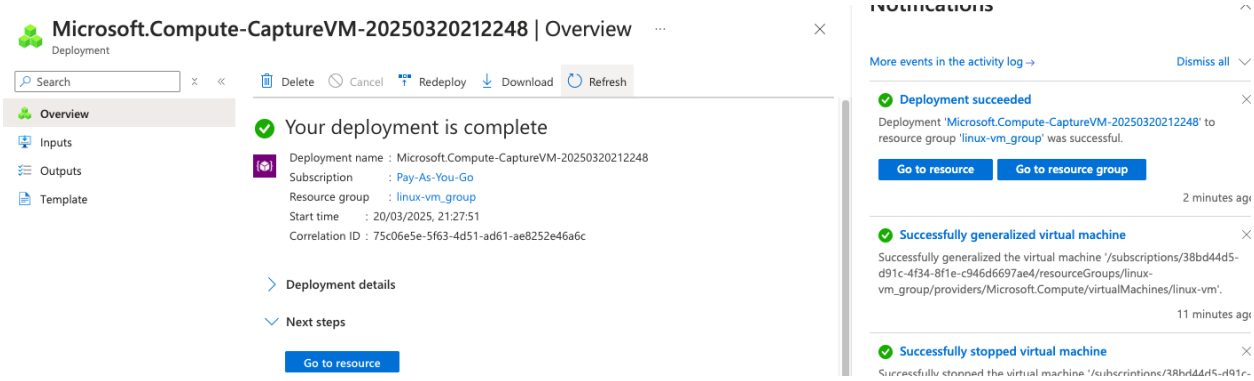
1. Create a Linux VM with Ubuntu OS

2. Install Apache2 software

3. Create image out of VM



Assignment 5:

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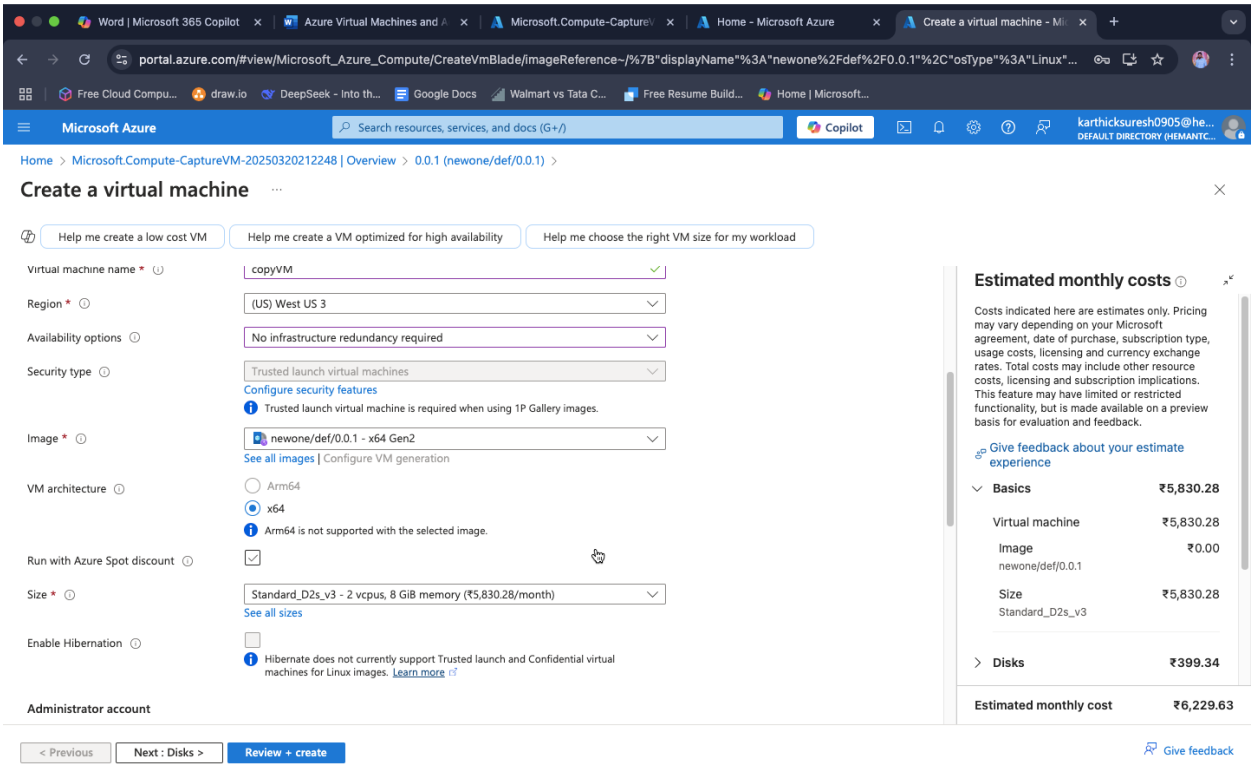
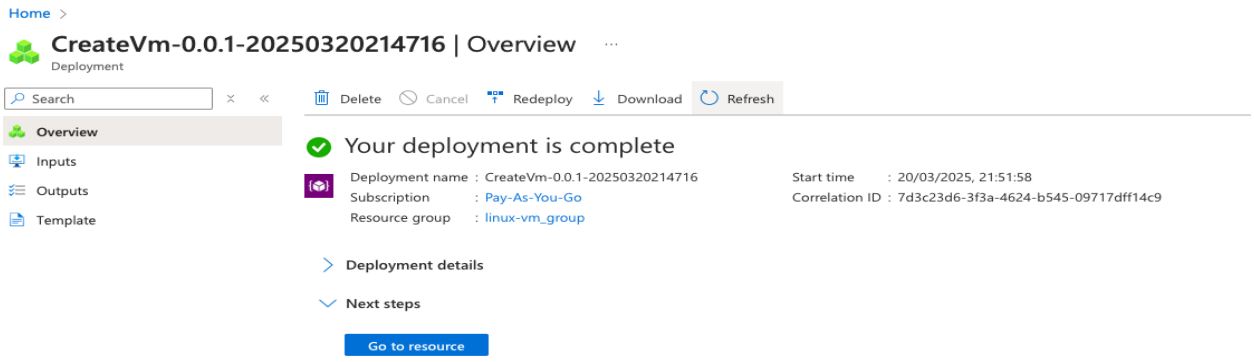
1. Deploy a VM from the previously created image





2. Open port 80 in NSG

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3. Start the Apache2 service in the VM

4. Verify if you are able to access the website