Q-1. Deploy a website on localhost using either apache2 or Nginx. Create a DNS name for this website as 'awesomeweb'. You can use any web template you want or can write your own simple HTML code.

-Deployed a website on localhost using Nginx:

sudo apt-get install nginx

sudo apt-get update

sudo service nginx start

→ * Starting nginx nginx

sudo service nginx status

→ * nginx is running

cd /var/www/html

ls

-> index.nginx-debian.html

sudo rm -rf index.nginx-debian.html

Created index.html file at /var/www/html

touch index.html

Website is running successfully on localhost.



This is Pankaj Gacche's Page. Thank You!.

- -Created a DNS name for this website as 'awesomeweb':
- -Created 'awesomeweb' DNS name in host file.

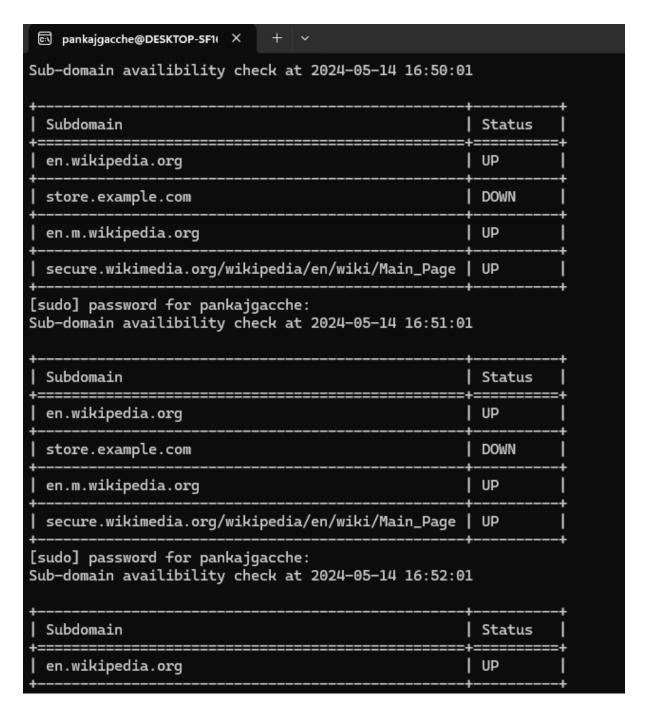




This is Pankaj Gacche's Page. Thank You!.

- Q-2. A website can have many subdomains and different services are running on them. Write a Python script to check the status of the subdomains which are up or down. The script should automatically check the status every minute and should update it in tabular format on the screen.
- -Written python script to check the status of the subdomains which are up or down and pushed .py file in github repository https://github.com/PankajGacche/Networking_Assesment.git
- -Created crontab which will execute python script every minute and validate subdomain availability and capture log and output in tabular format as below:

Output:



Logs:

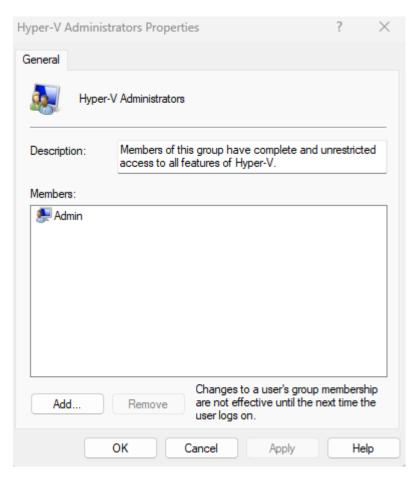
```
Python script started at 2024-05-14 16:50:01
Sub-domain availibility check at 2024-05-14 16:50:01
[['en.wikipedia.org', 'UP'], ['store.example.com', 'DOWN'], ['en.m.wikipedia.org', 'UP'], ['secure.wikimedia.org/wikipedia/en/wiki/Main_Page', 'UP']
Bython script started at 2024-05-14 16:51:01
Sub-domain availibility check at 2024-05-14 16:51:01
[['en.wikipedia.org', 'UP'], ['store.example.com', 'DOWN'], ['en.m.wikipedia.org', 'UP'], ['secure.wikimedia.org/wikipedia/en/wiki/Main_Page', 'UP']
Bython script started at 2024-05-14 16:52:01
Sub-domain availibility check at 2024-05-14 16:52:01
Sub-domain availibility check at 2024-05-14 16:52:01
[['en.wikipedia.org', 'UP'], ['store.example.com', 'DOWN'], ['en.m.wikipedia.org', 'UP'], ['secure.wikimedia.org/wikipedia/en/wiki/Main_Page', 'UP']
```

Task-3:

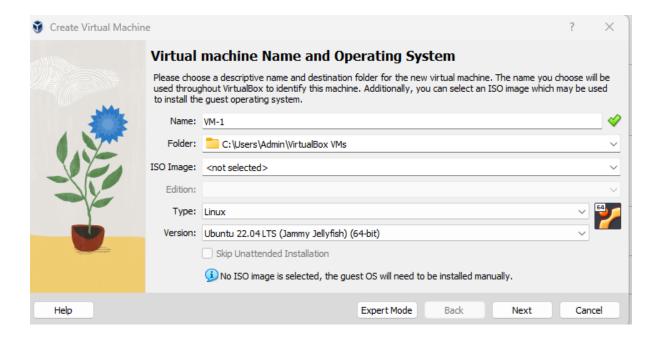
-Download and Installed Oracle Virtual Box:

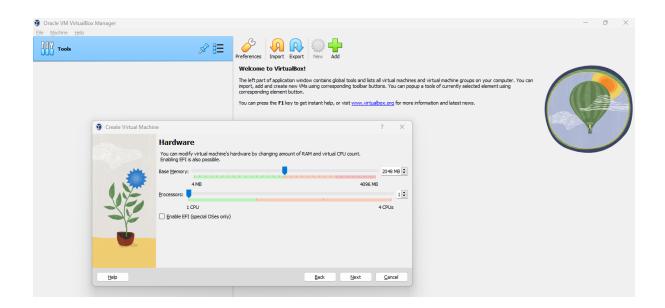


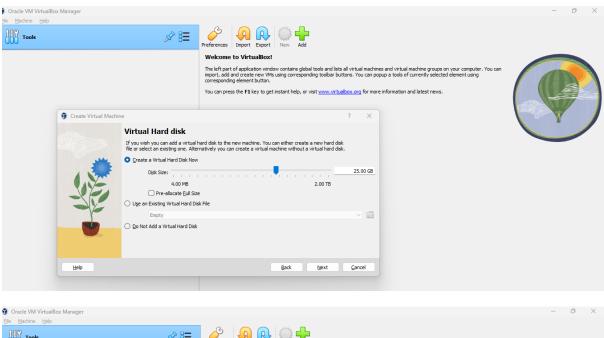
-Added user account to "VirtualBox Users" group on Windows to grant permissions to manage VMs.



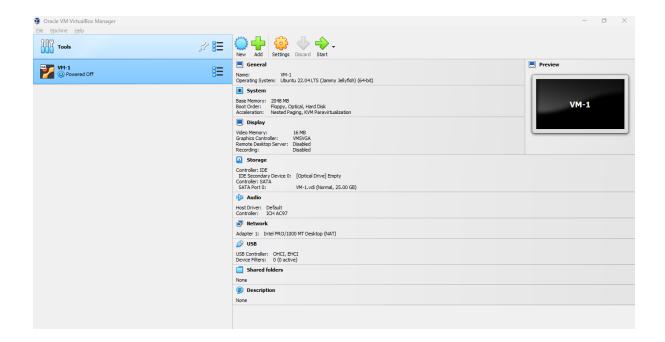
-Creating virtual machine on Virtual Box:











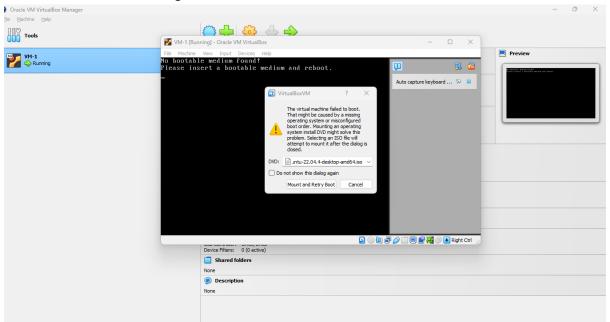
-Visited https://www.osboxes.org/ and downloaded a Ubuntu 22.04 image:

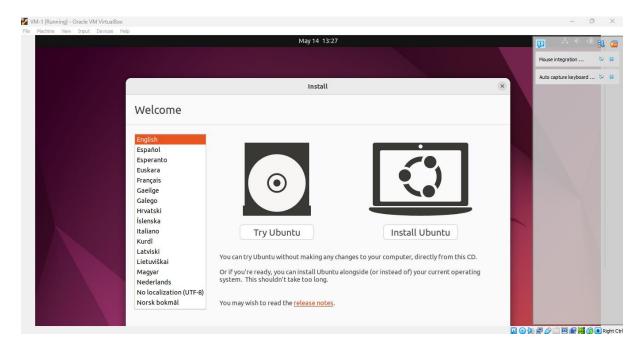


Ubuntu 22.04 Jammy Jellyfish

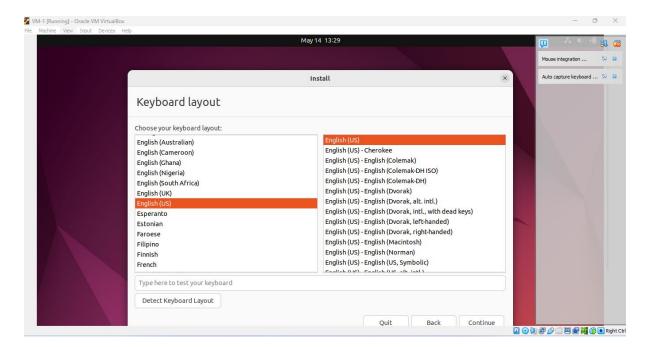


-Mounted Ubuntu 22.04 image into VM machine:

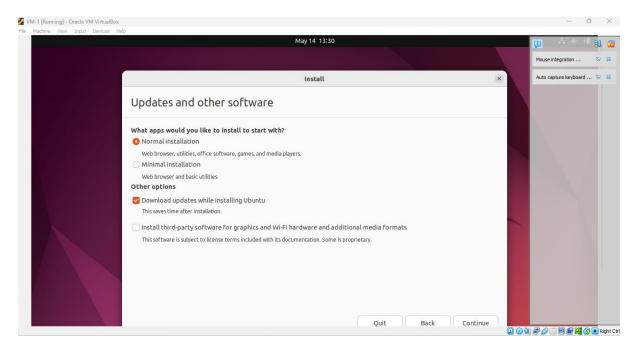




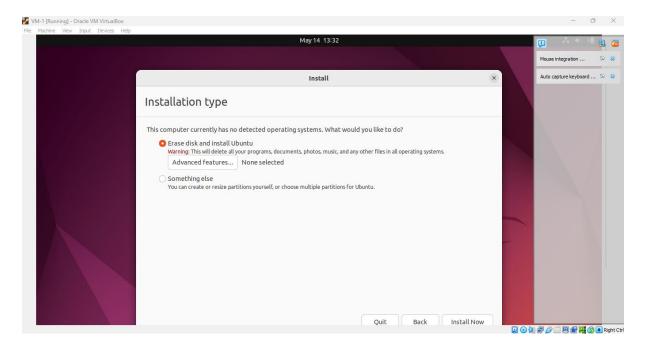
Clicked on install Ubuntu:



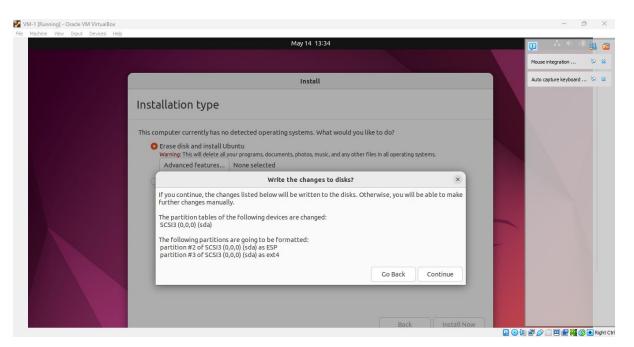
Click on continue:



Click on continue:

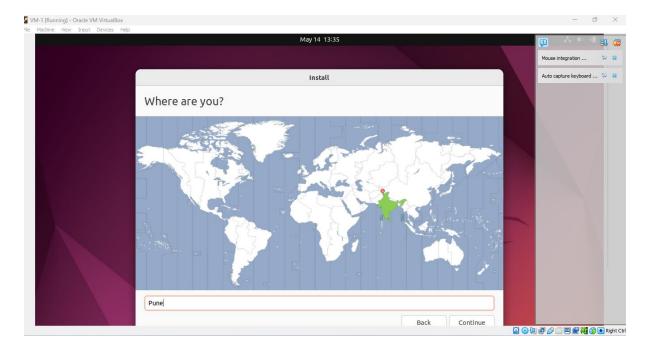


Click on install now:

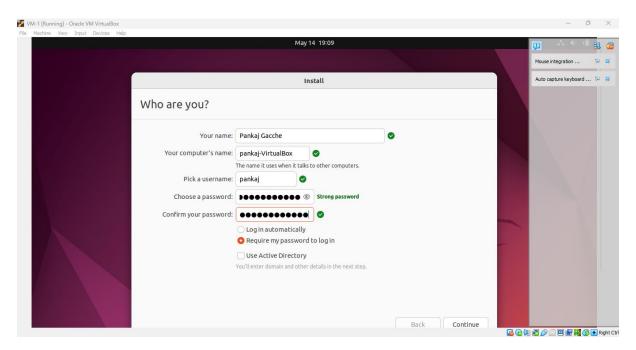


Click on continue:

Selected My city and click on continue:



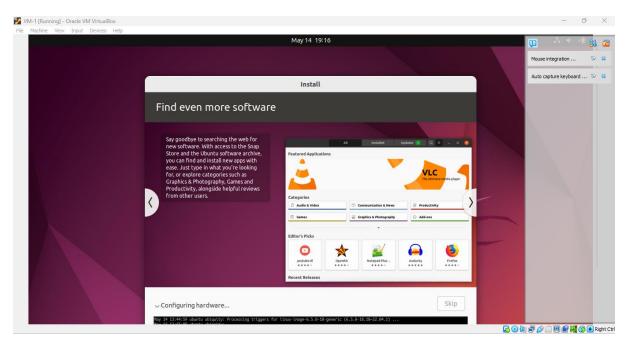
-Entered details and click on continue:

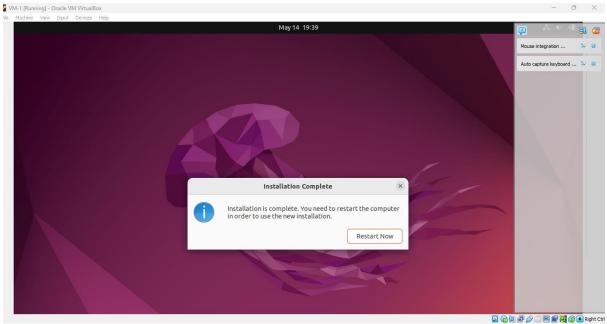


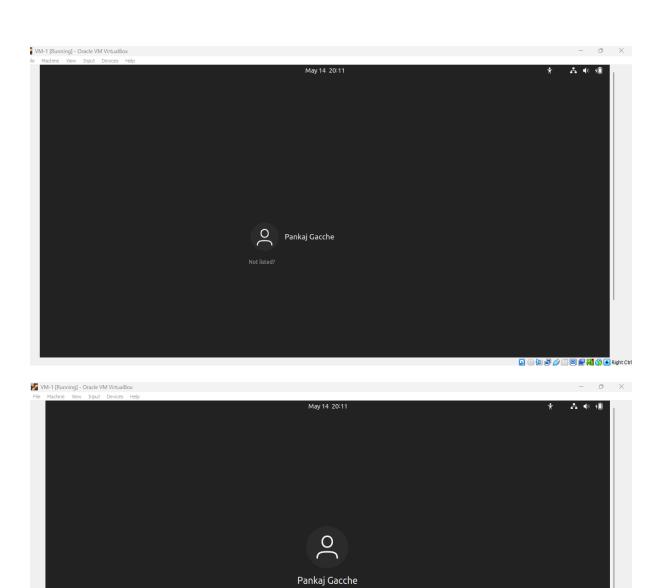
Installing packages:





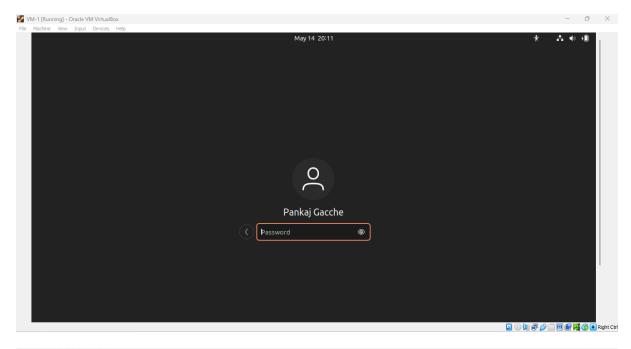


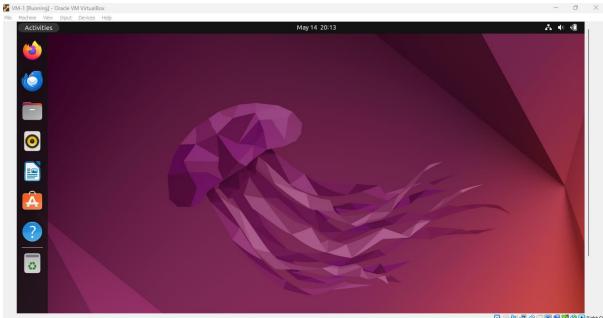




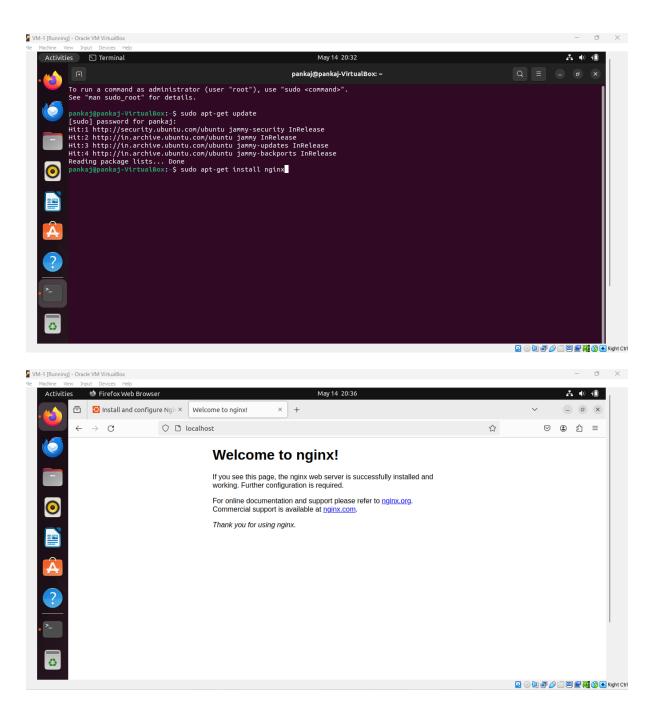
(Password ®

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- Installed Nginx server inside the Ubuntu:



-Hosted a new website on Nginx server:

