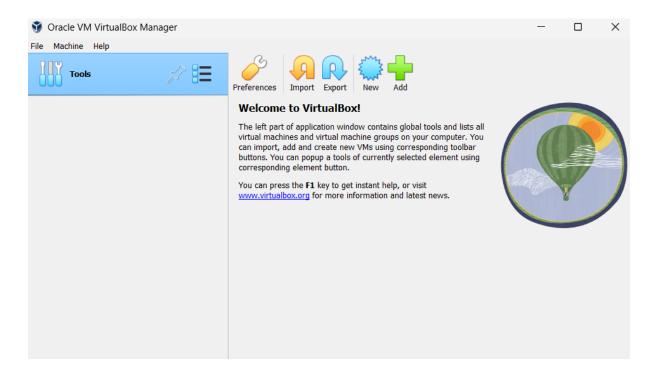
HeroVired: Networking and Servers Assignment

Task 3: Virtual Machine (VM)

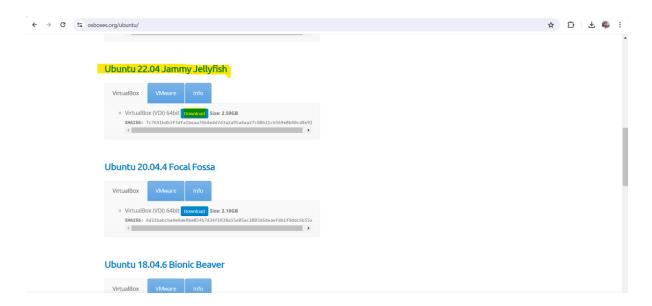
1. Go to https://www.virtualbox.org and download installer for windows.



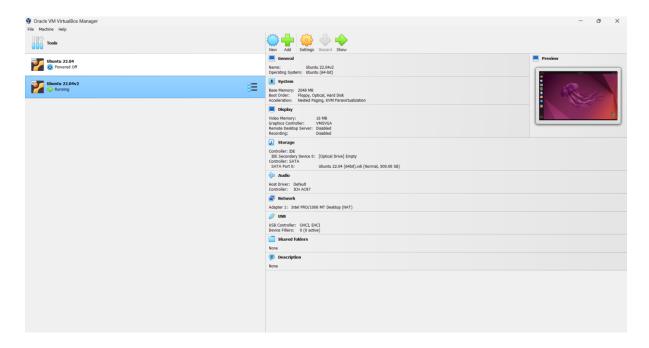
2. Install virtual box. After installation we can see below screen:



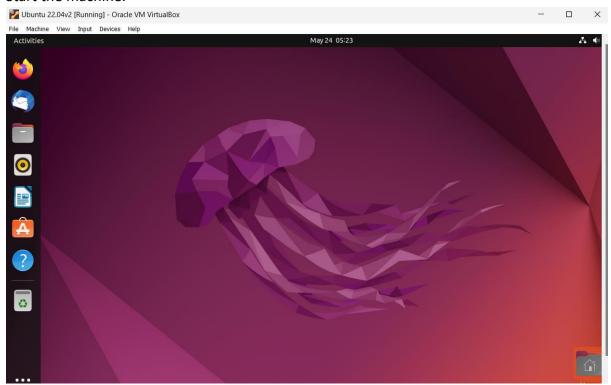
3. Now go to https://www.osboxes.org/ and download image for Ubuntu 22.04.



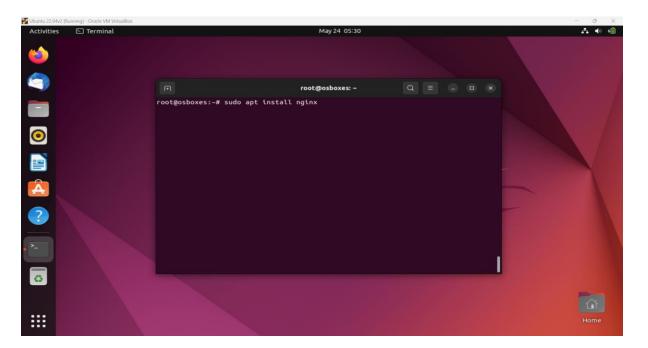
4. Now go to virtual box, click New and give the name to machine and select the VDI.



5. Start the machine.



6. Open the terminal and install nginx.



7. After installing nginx run the command 'sudo service nginx status' to see the status of nginx server.

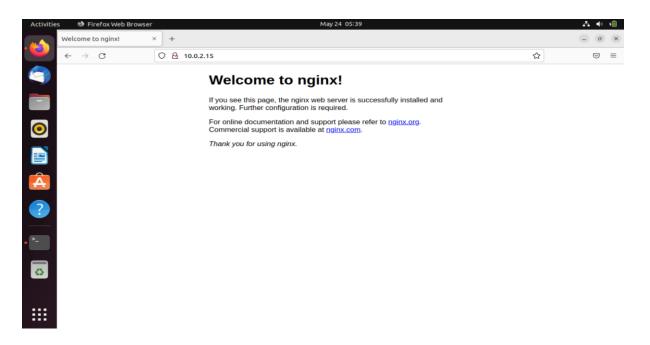
8. Run if config command to see the ip address and hit the ip address to verify nginx is working as expected.

```
root@osboxes:~# ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::e351:789e:2e24:5df9 prefixten 64 scopeid 0x20<link>
    ether 08:00:27:01:27:04 txqueuelen 1000 (Ethernet)
    RX packets 283887 bytes 423058137 (423.0 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 23206 bytes 1981493 (1.9 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 798 bytes 104449 (104.4 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 798 bytes 104449 (104.4 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

root@osboxes:~#
```

We will see below -



9. Now in order to host our own site, go to /var/www/html and remove the default file and replace with a new index.html. After restart the nginx using 'sudo service nginx restart' command and hit the ip address again. Will see the below:



10. Nmap scan output –

Nmap Output Ports / Hosts			Topology	Host Details	Scans	
	Port	Protocol	State	Service	Version	
	25	tcp	filtered	smtp		
	110	tcp	filtered	pop3		
	135	tcp	open	msrpc		
	139	tcp	open	netbios-ssn		
	445	tcp	open	microsoft-ds		
	548	tcp	filtered	afp		
	7070	tcp	open	realserver		