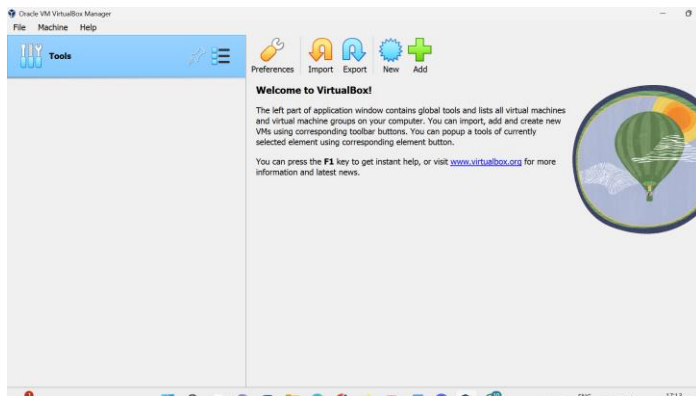


Cloud Computing lab

DA 1

Downloading and setting up the ubuntu os – server and clients systems :

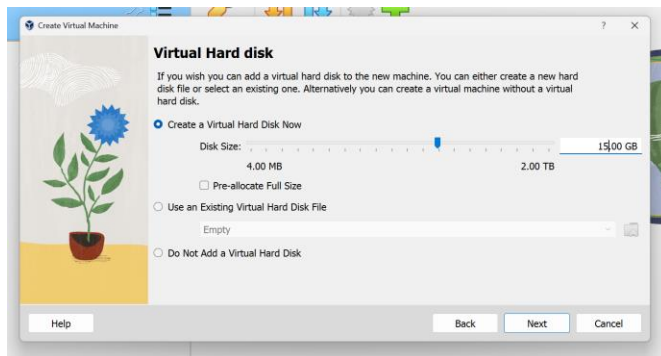
1) Open and start vm, then click new



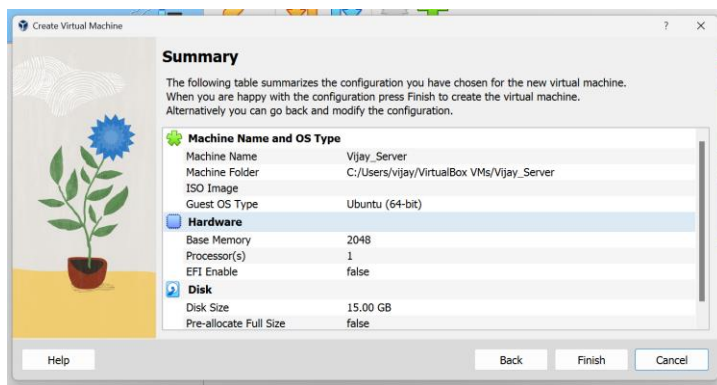
2) Select the type and version of the VM



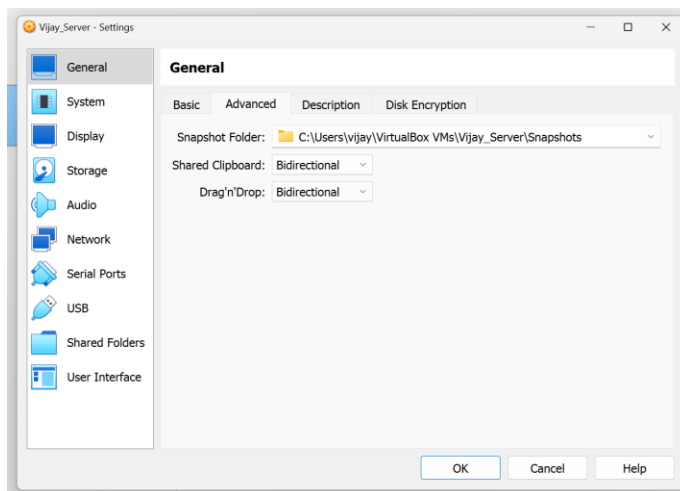
3) Keep the memory to 15gb



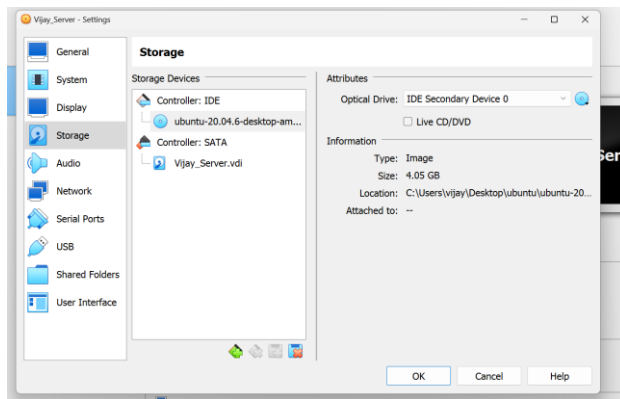
4) Keep it default



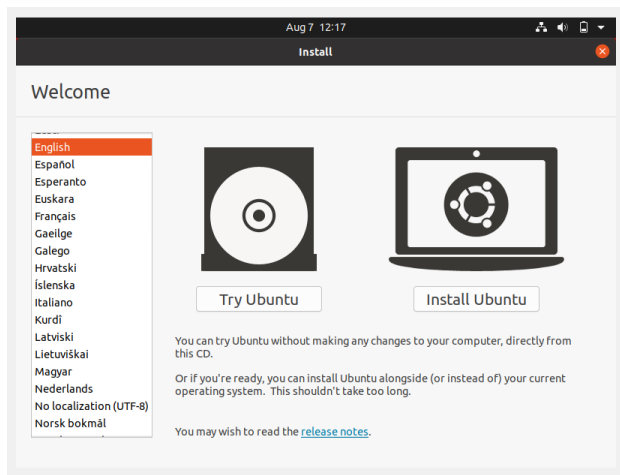
5) Change general > advanced setting, - Bidirectional



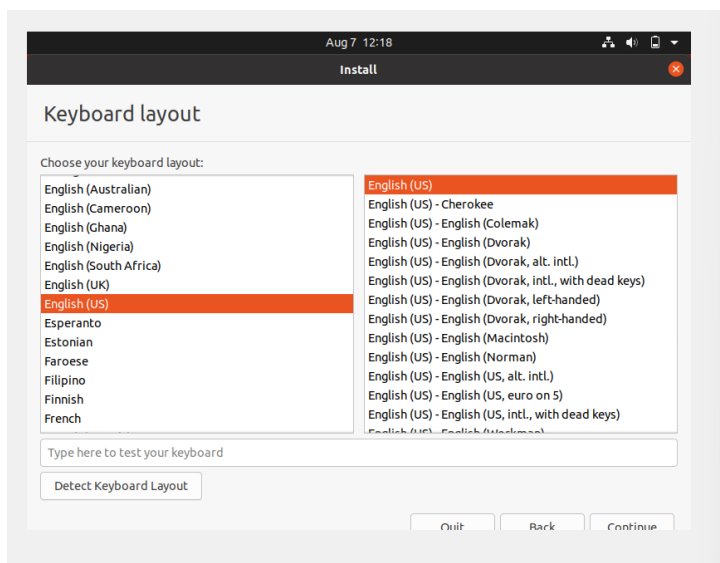
6) Change setting>storage>controller and add cd disk and select ubuntu version



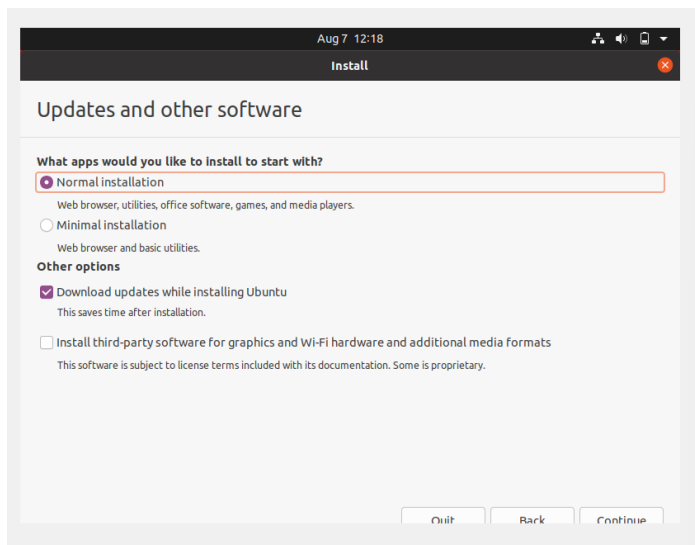
7) Click start and now enter the install



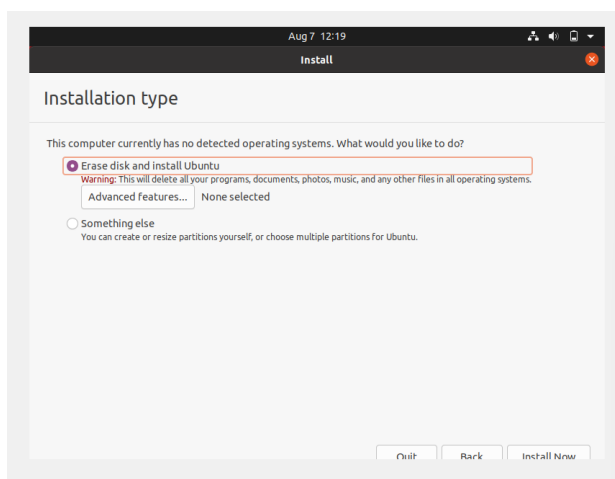
8) Keep it default



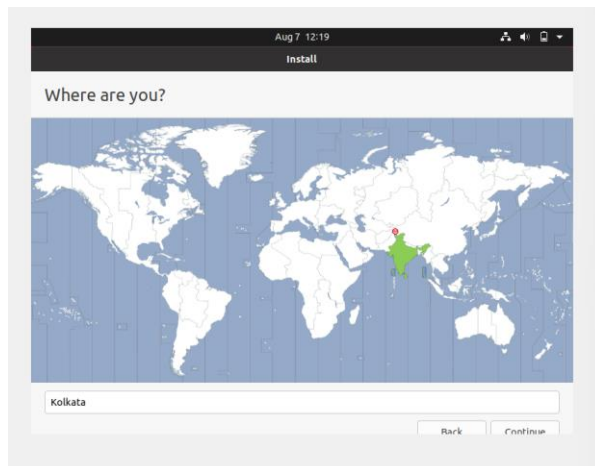
9) Keep it default



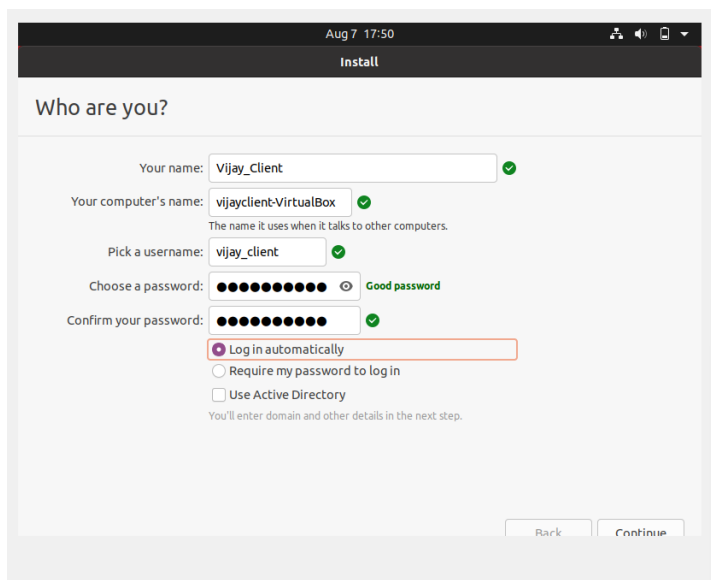
10. Keep it default



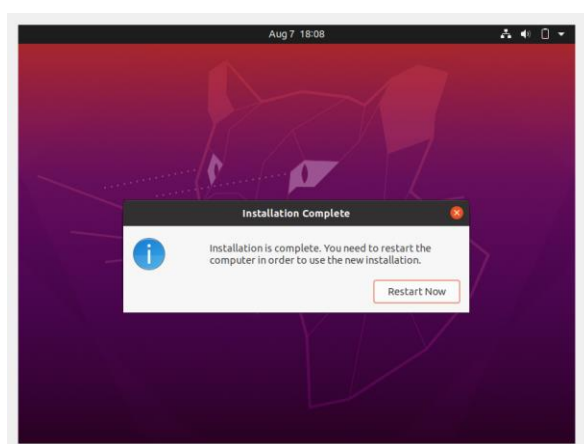
11. Keep it default



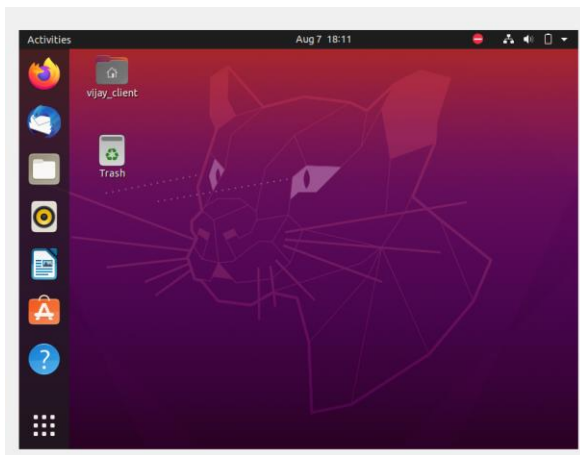
13) setup everything as you want and keep names



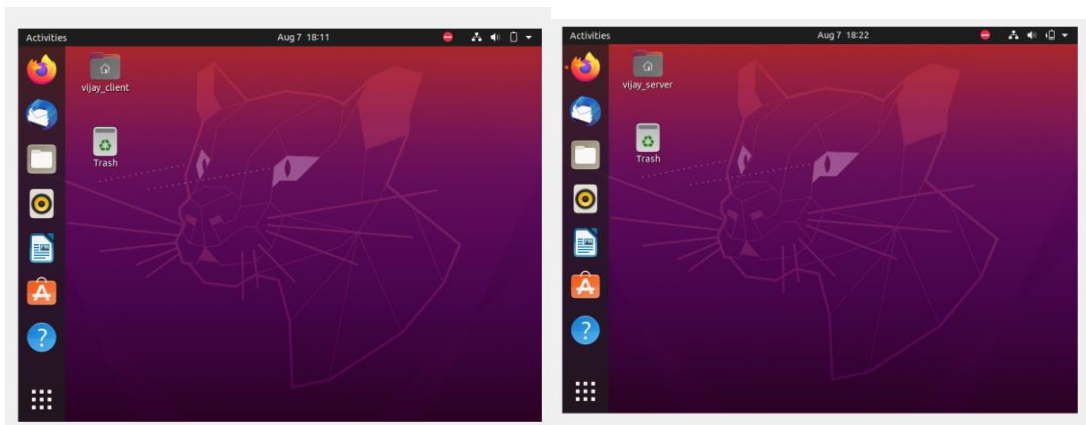
14) restart it



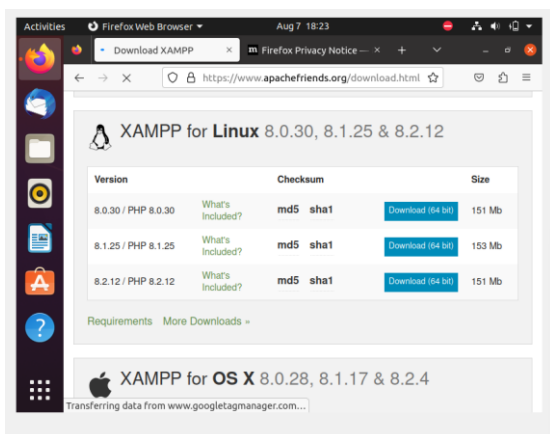
15) This is your ubuntu vm



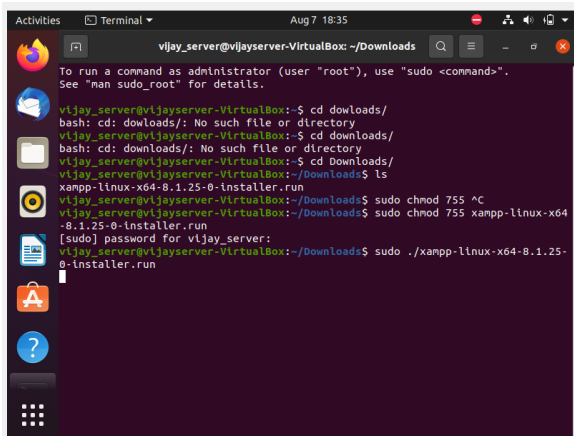
17) do the same and create two vms client and server...



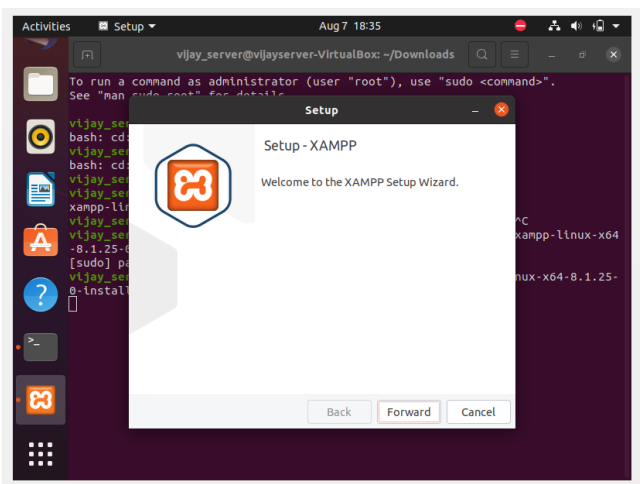
17) go to firefox and download the xampp server on server vm



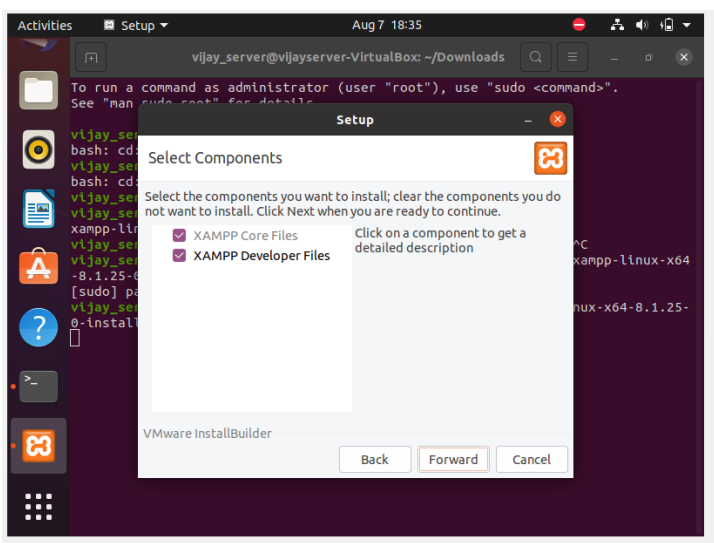
18: To setup the XAMPP in your Ubuntu, Enter the following codes in the Terminal (in Linux):



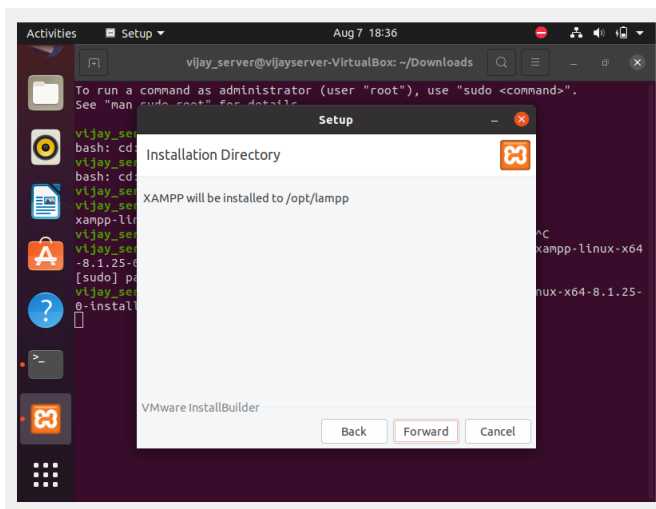
19: A Setup Window Opens, click on “Forward”:



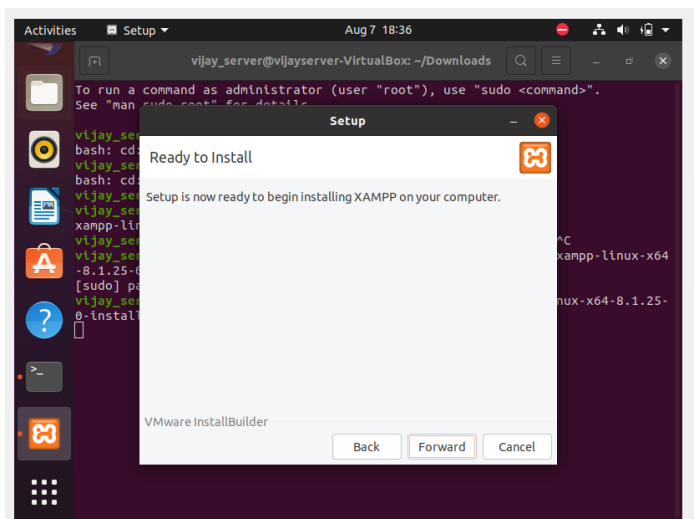
20: Click “Forward”



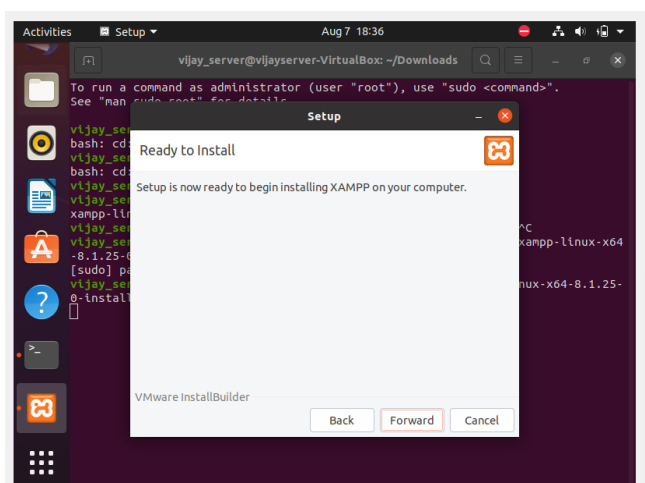
21: Click “Forward”



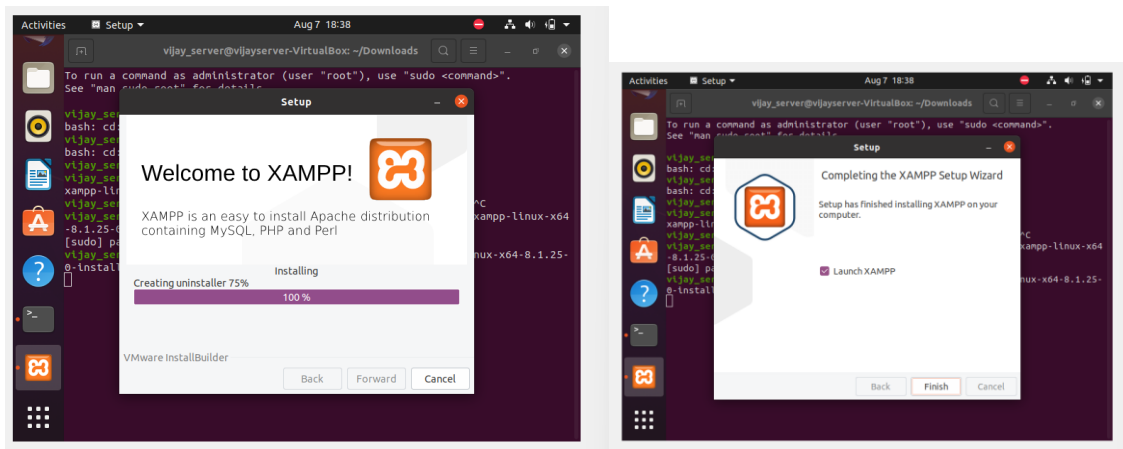
22: Click “Forward”



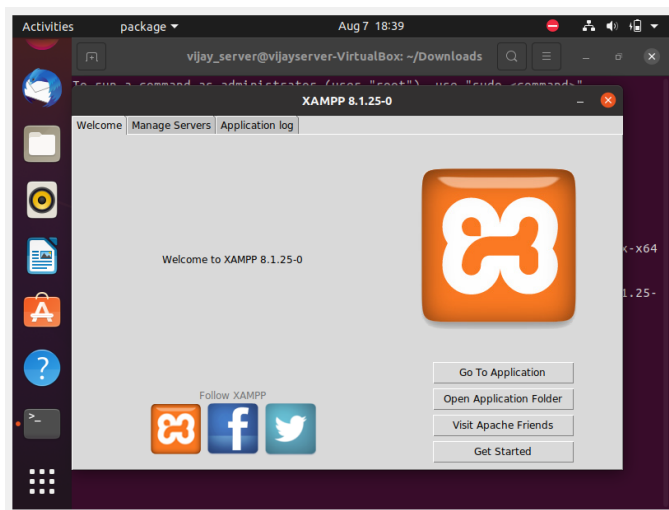
23: Click “Forward”



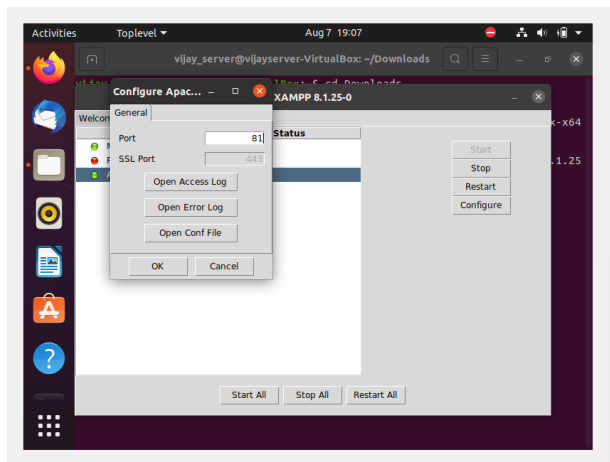
24: Let the Installation Process complete. Once the installation completed XAMPP window for the ubuntu will be opened automatically:



25: This the Welcome page of XAMPP. Click on the “Get Started”:



26: Set all the status as “Stopped” except “Apache Web Server” as “Running” and click “Configure” for “Apache Web Server” set the “Port” as 81:



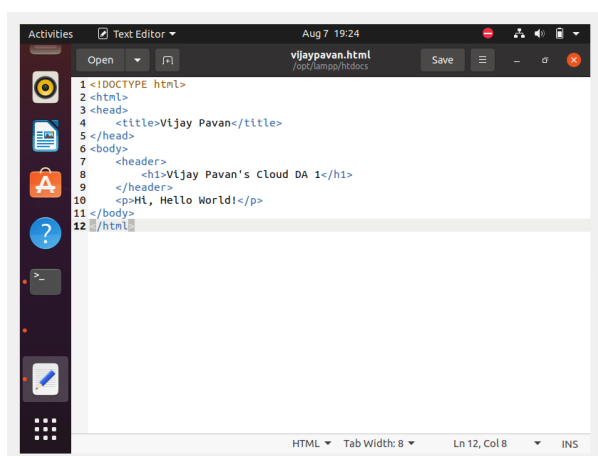
27: Enter the following Code in the Ubuntu Terminal to open the html file in the “htdocs” of the Ubuntu to make it to open over the network:

```

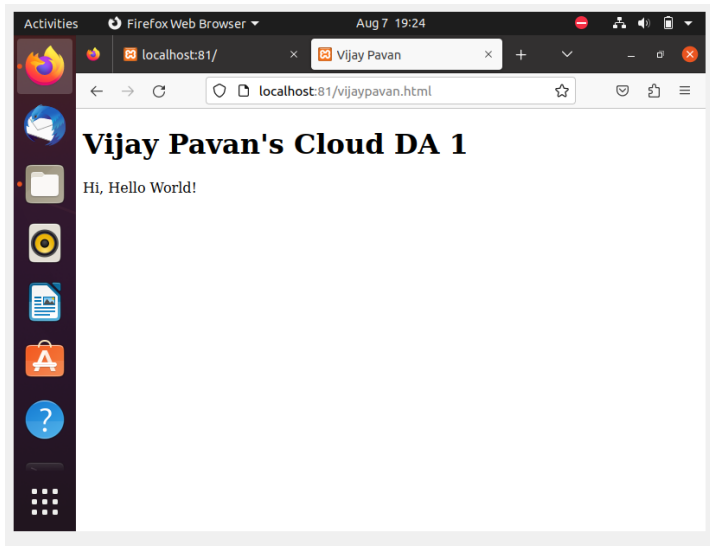
vi_jay_server@vi_jayserver-VirtualBox:~/Downloads
vi_jay_server@vi_jayserver-VirtualBox:~/Downloads$ cd Downloads
vi_jay_server@vi_jayserver-VirtualBox:~/Downloads$ ls
xampp-linux-x64-8.1.25-0-Installer.run
vi_jay_server@vi_jayserver-VirtualBox:~/Downloads$ sudo chmod 755 xampp-linux-x64-8.1.25-0-Installer.run
[sudo] password for vi_jay_server:
vi_jay_server@vi_jayserver-VirtualBox:~/Downloads$ sudo ./xampp-linux-x64-8.1.25-0-Installer.run
vi_jay_server@vi_jayserver-VirtualBox:~/Downloads$ cd ..
vi_jay_server@vi_jayserver-VirtualBox:~/Downloads$ cd /opt/lampp/htdocs
vi_jay_server@vi_jayserver-VirtualBox:/opt/lampp/htdocs$ sudo touch index.html
vi_jay_server@vi_jayserver-VirtualBox:/opt/lampp/htdocs$ gedit index.html
vi_jay_server@vi_jayserver-VirtualBox:/opt/lampp/htdocs$ gedit vi_jay.html
vi_jay_server@vi_jayserver-VirtualBox:/opt/lampp/htdocs$ sudo touch vi_jaypavan.html
vi_jay_server@vi_jayserver-VirtualBox:/opt/lampp/htdocs$ sudo chmod 777 vi_jaypavan.html
vi_jay_server@vi_jayserver-VirtualBox:/opt/lampp/htdocs$ gedit vi_jaypavan.html

```

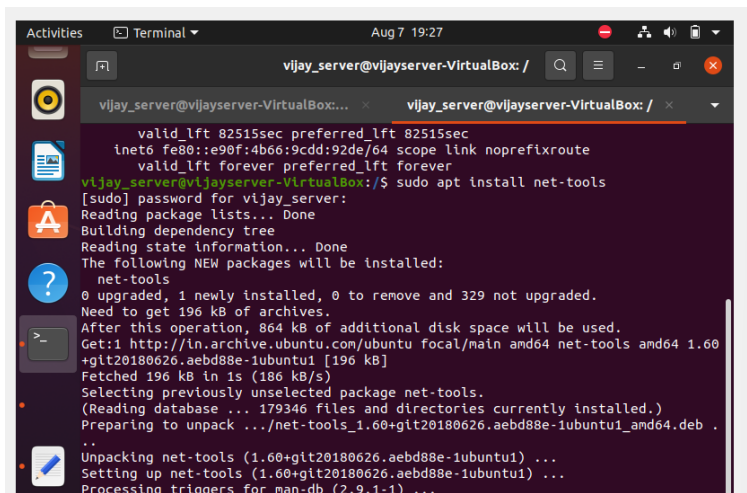
28: A new html text area will be available on the Screen to text the html doc of your Profile:



29: Open the Firefox and type “localhost:81” or “localhost:81/<file-name>” to check the page:

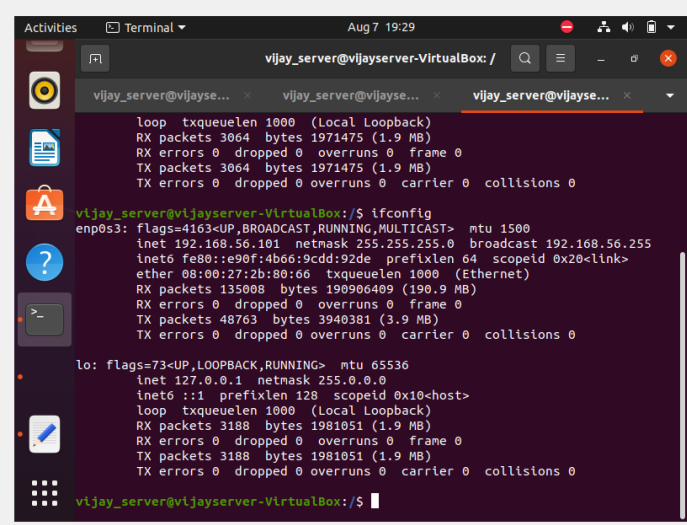


30: Download the net-tools using the following code in Terminal (in Linux):



31: Type “ifconfig” in the Terminal to check the IP Address of the Server (IP: 192.168.46.183)

Check on enp0s3's "inet" value for the IP ADDRESS



A terminal window titled 'vijay_server@vijayserver-VirtualBox: /' showing the output of the 'ifconfig' command. The output displays details for three network interfaces: 'lo' (loopback), 'enp0s3' (ethernet), and 'lo' (loopback). The 'enp0s3' interface is highlighted, showing its IP address as 192.168.56.101. The terminal also shows statistics for RX and TX packets, bytes, and errors for each interface.

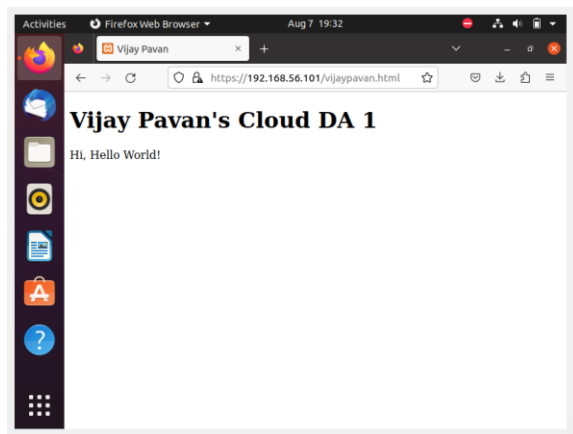
```
loop txqueuelen 1000 (Local Loopback)
RX packets 3064 bytes 1971475 (1.9 MB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 3064 bytes 1971475 (1.9 MB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

vijay_server@vijayserver-VirtualBox:/$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.56.101 netmask 255.255.255.0 broadcast 192.168.56.255
    inet6 fe80::e90f:4b66:9cdd:92de prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:2b:80:66 txqueuelen 1000 (Ethernet)
    RX packets 135008 bytes 190906409 (190.9 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 48763 bytes 3940381 (3.9 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 3188 bytes 1981051 (1.9 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 3188 bytes 1981051 (1.9 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

vijay_server@vijayserver-VirtualBox:/$
```

33: Open Firefox in your Client and Enter the IP Address of your Server with your html doc name (ie: IP_Address/<file-name>) in the search. Your html page will be opened in your Client VM:



Server :

Client :

