LINUX JOURNAL

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Subject: Linux Administration

College: SK Somaiya University

Sr.No	Practical
1	Installation of Linux distribution
2	Working with Users, Groups, and Permissions
3	Initial settings: Add a User, Network Settings, Change to static IP address, Disable IPv6 if not needed, Configure Services, display the list of services which are running, Stop and turn OFF auto-start setting for a service if you don't need it, Sudo Settings.
4	SSH Server: Password Authentication Configure SSH Server to manage a server from the remote computer, SSH Client: (Ubuntu and Windows)
5	Installing and Configure of FTP server
6	Install MySQL to configure database server
7	Install Samba to share folders or files between Windows and Linux.
8	Install and configure NFS server.
9	Install phpMyAdmin to operate MySQL on web browser from Clients.

Practical 1

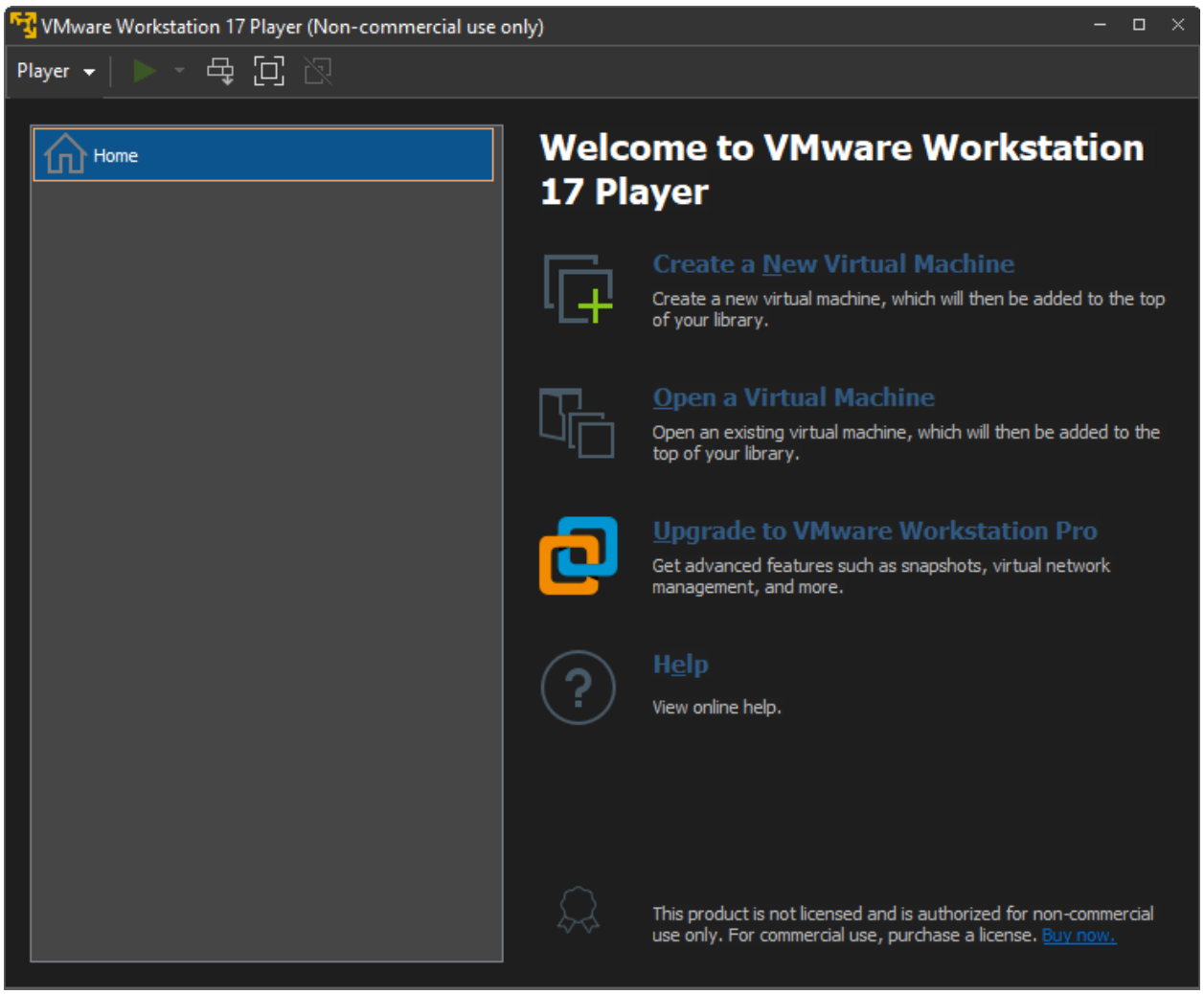
Installing a Linux distribution

Example: Distro: Ubuntu

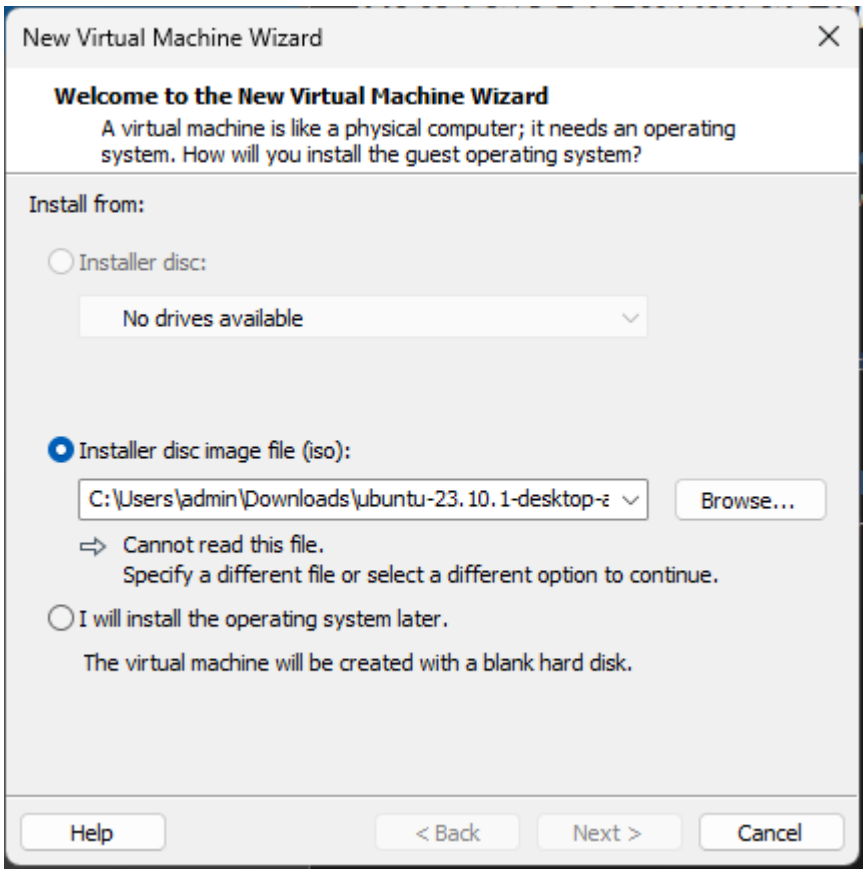
Go to https://ubuntu.com/download/desktop

Download Latest LTS

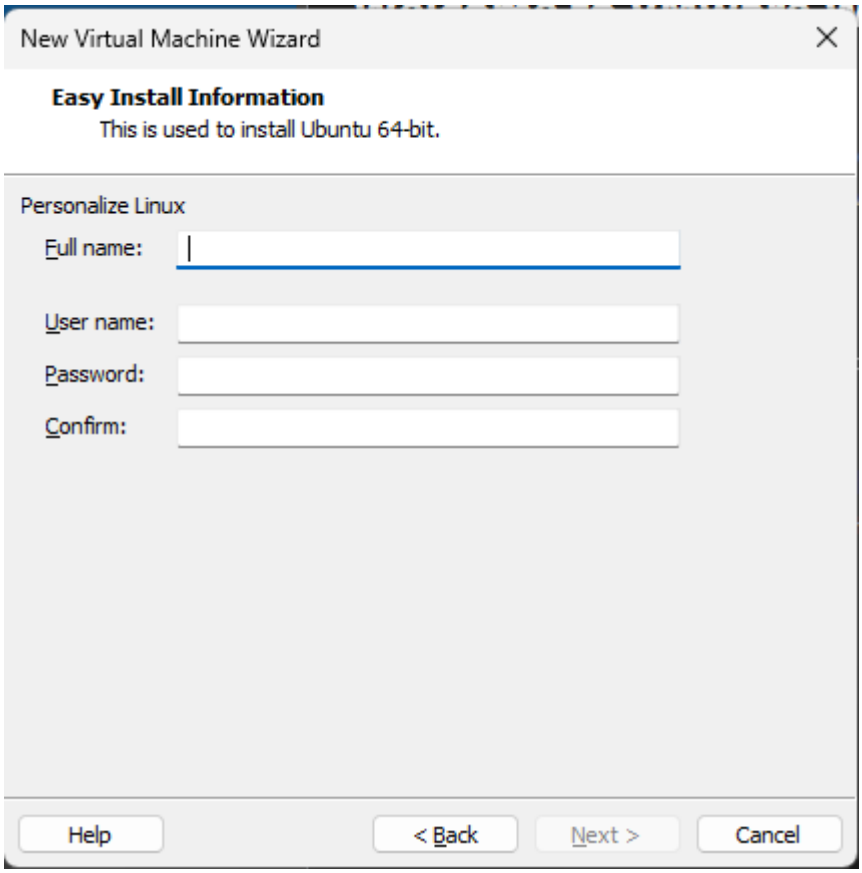
Open VMWare Player



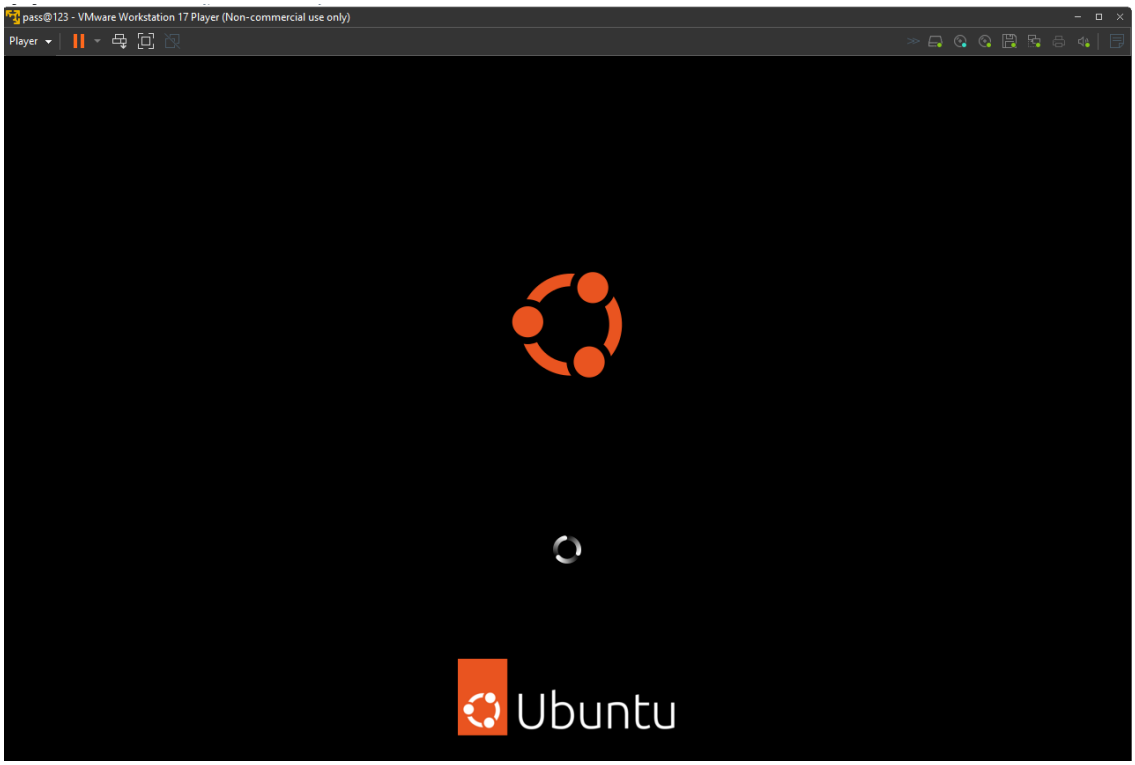
Create New Virtual Machine (select the iso manually if does not automatically)



Enter Information

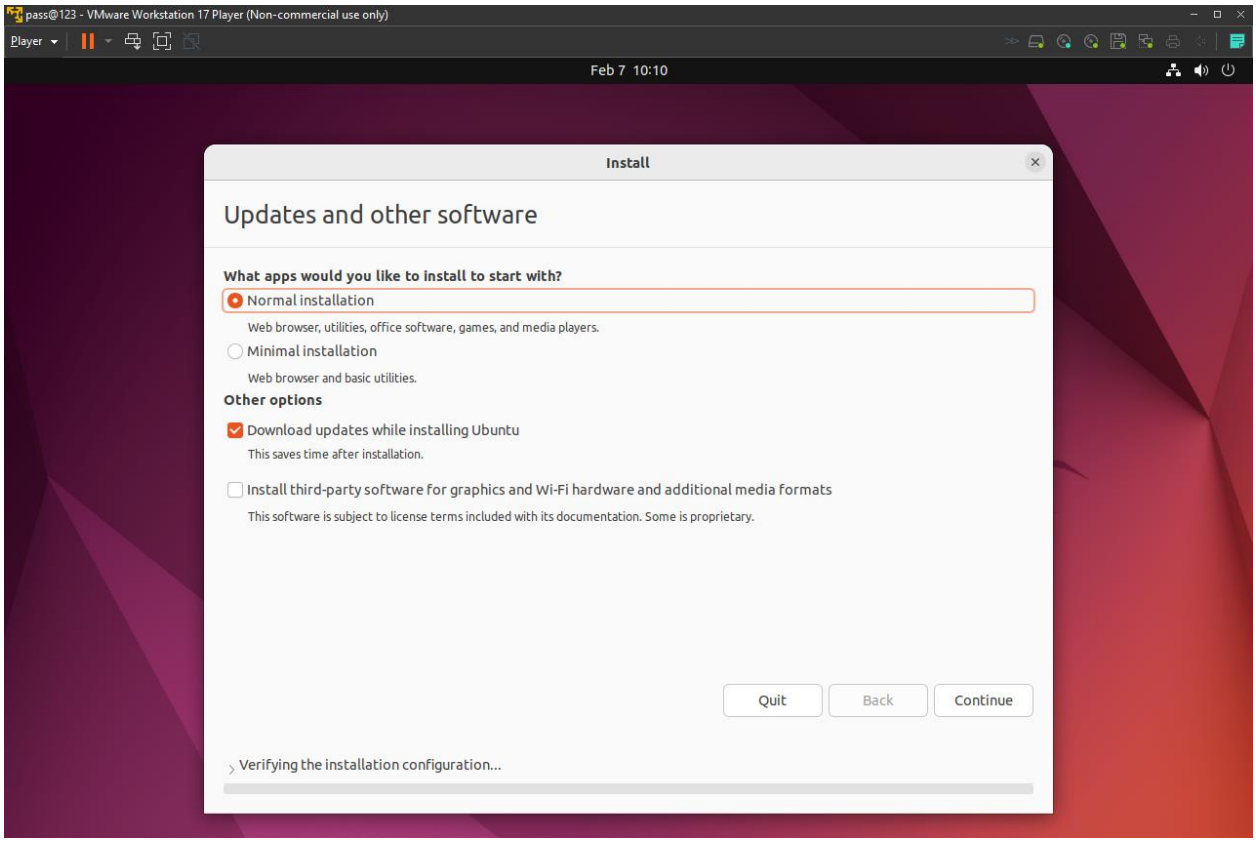


On the next screen; click finish and the VM will power on

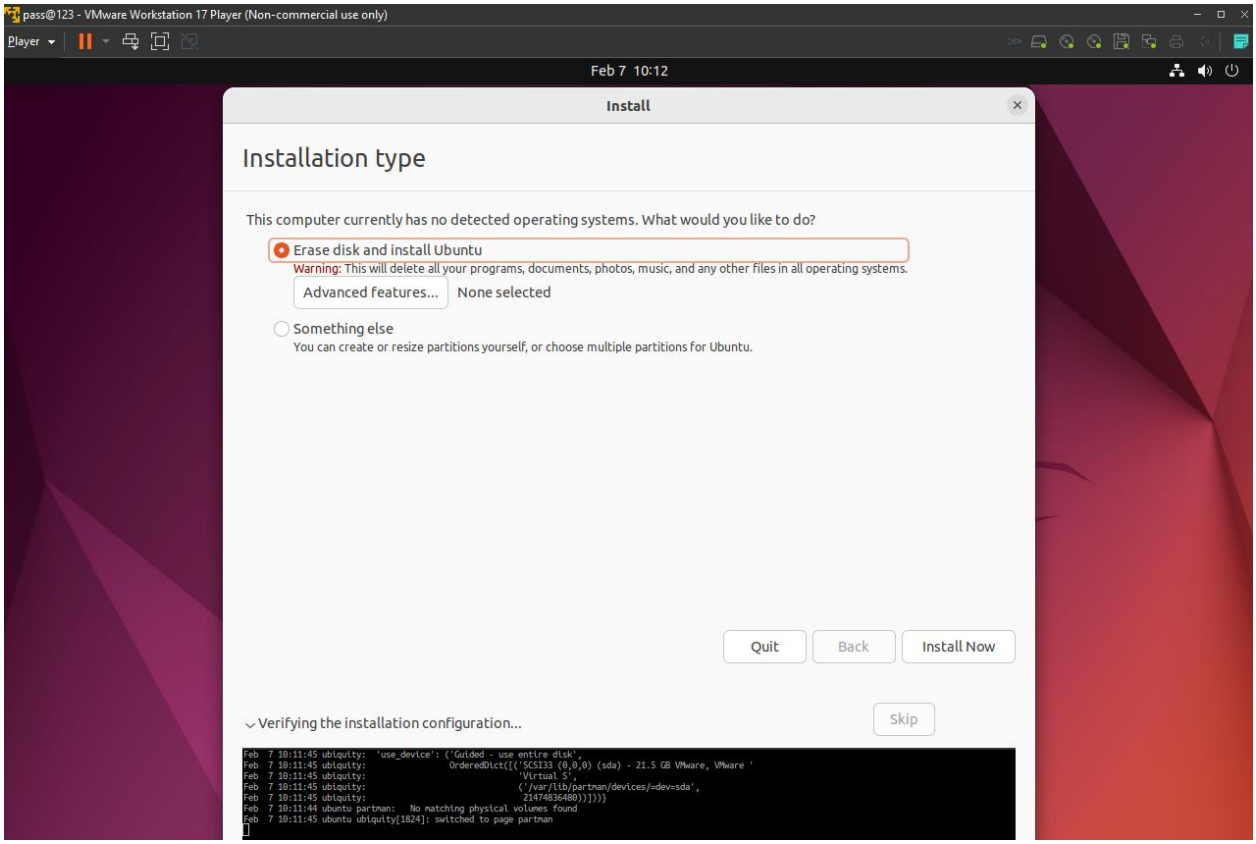


The installation process will begin

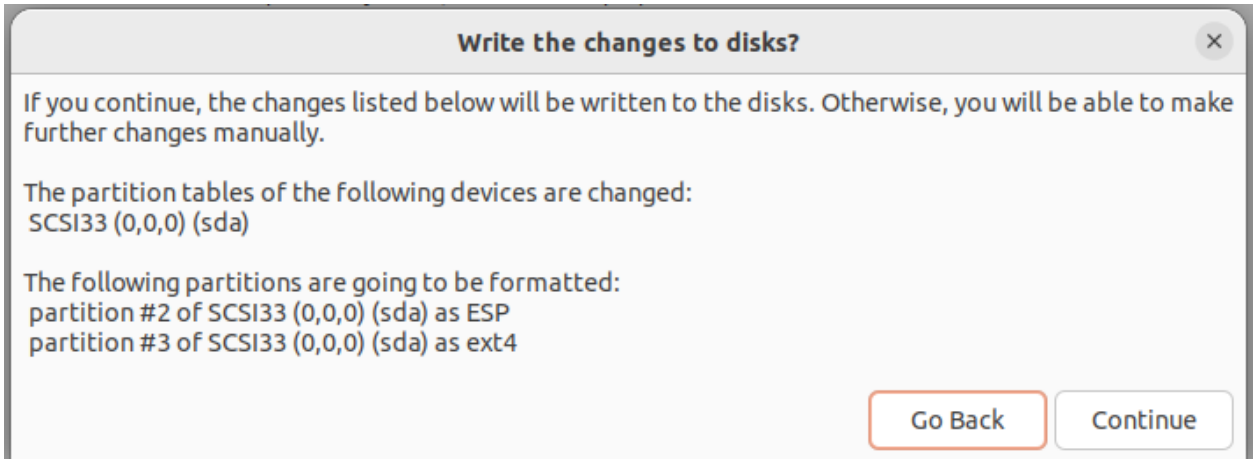
After selecting the keyboard layout, choose an installation template and continue



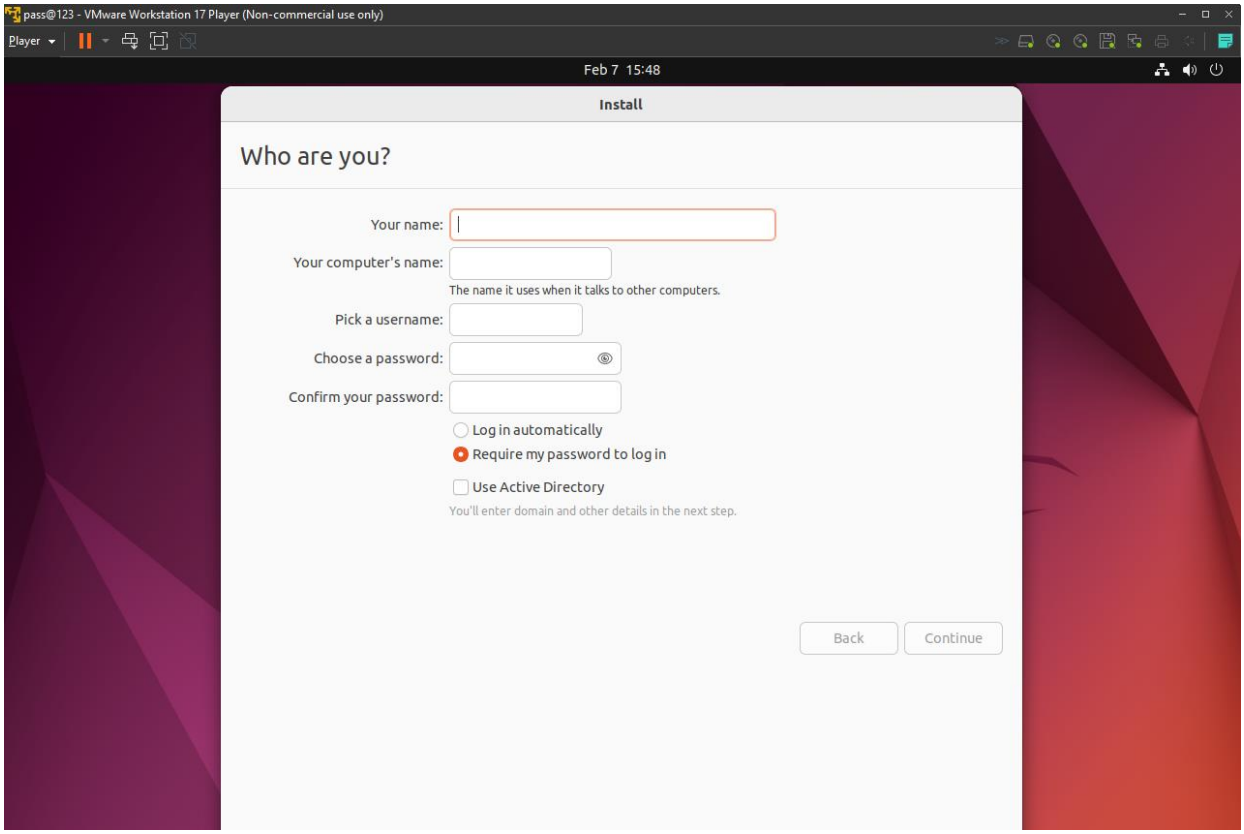
Click Install now



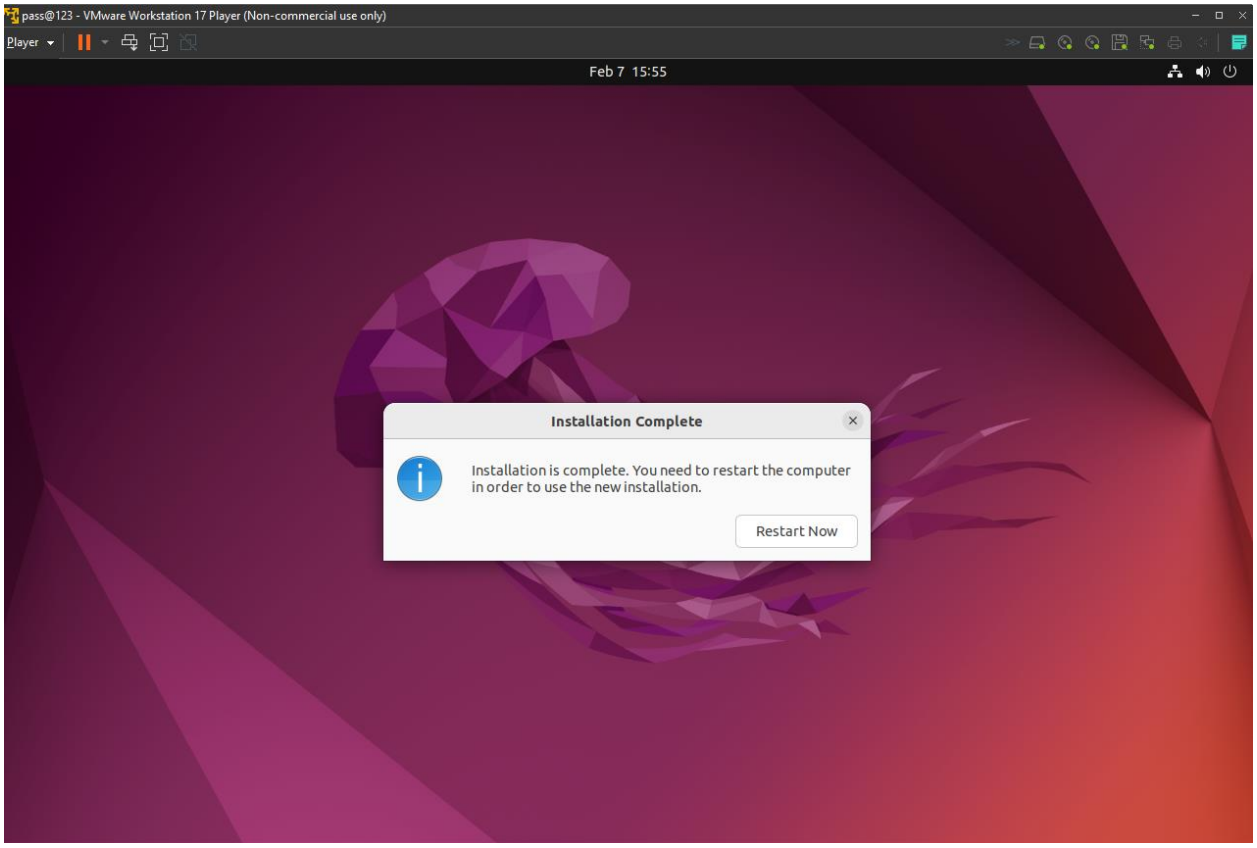
Continue



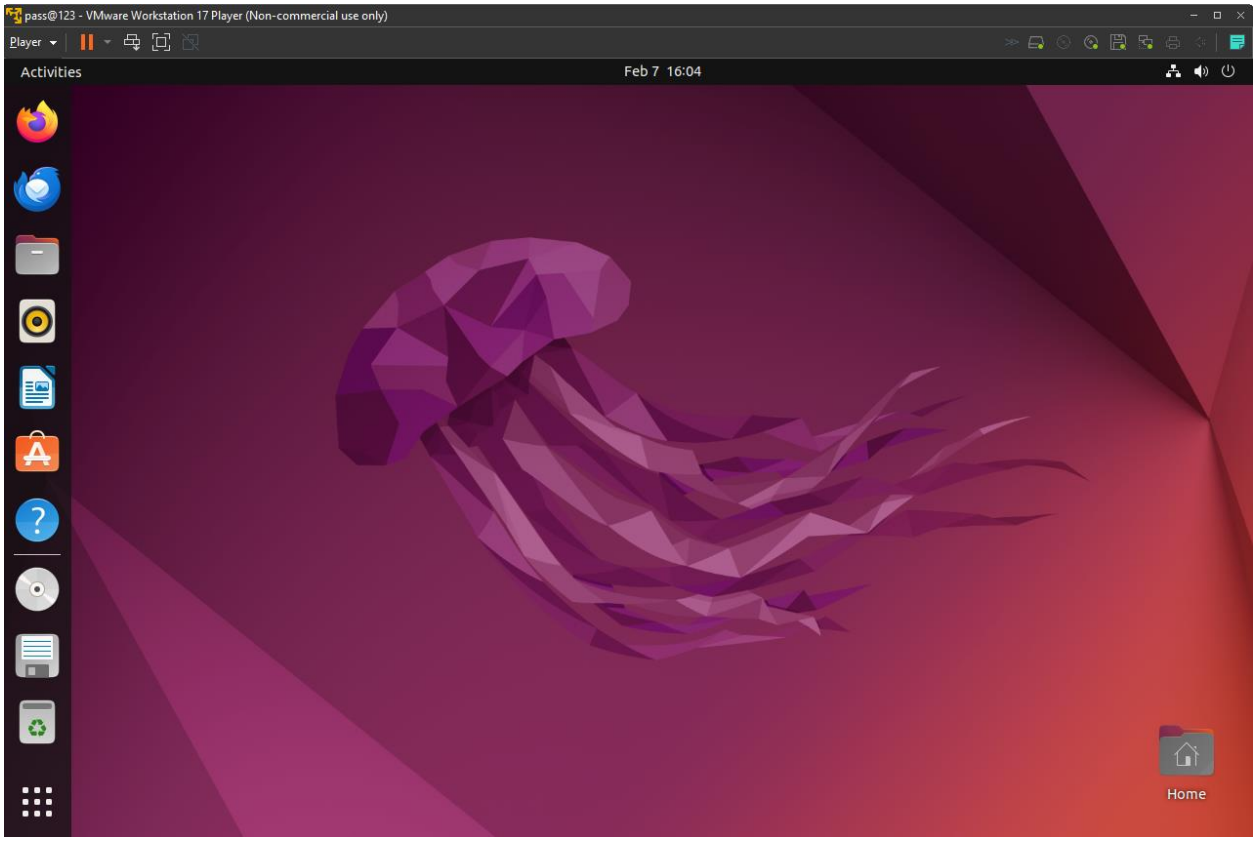
Choose a timezone and then fill in the information



Wait for installation to complete



Done


pass@123 - VMware Workstation 17 Player (Non-commercial use only)
Player
Activities
Feb 7 16:04
Home

PRACTICAL 2

Working with Users, Groups and Permissions

The flow of commands

Step 1: mkdir soham [make directory]

Step 2: cd soham [go to directory]

Step 3: pwd [path in which directory]

Step 5: touch text.txt [create file]

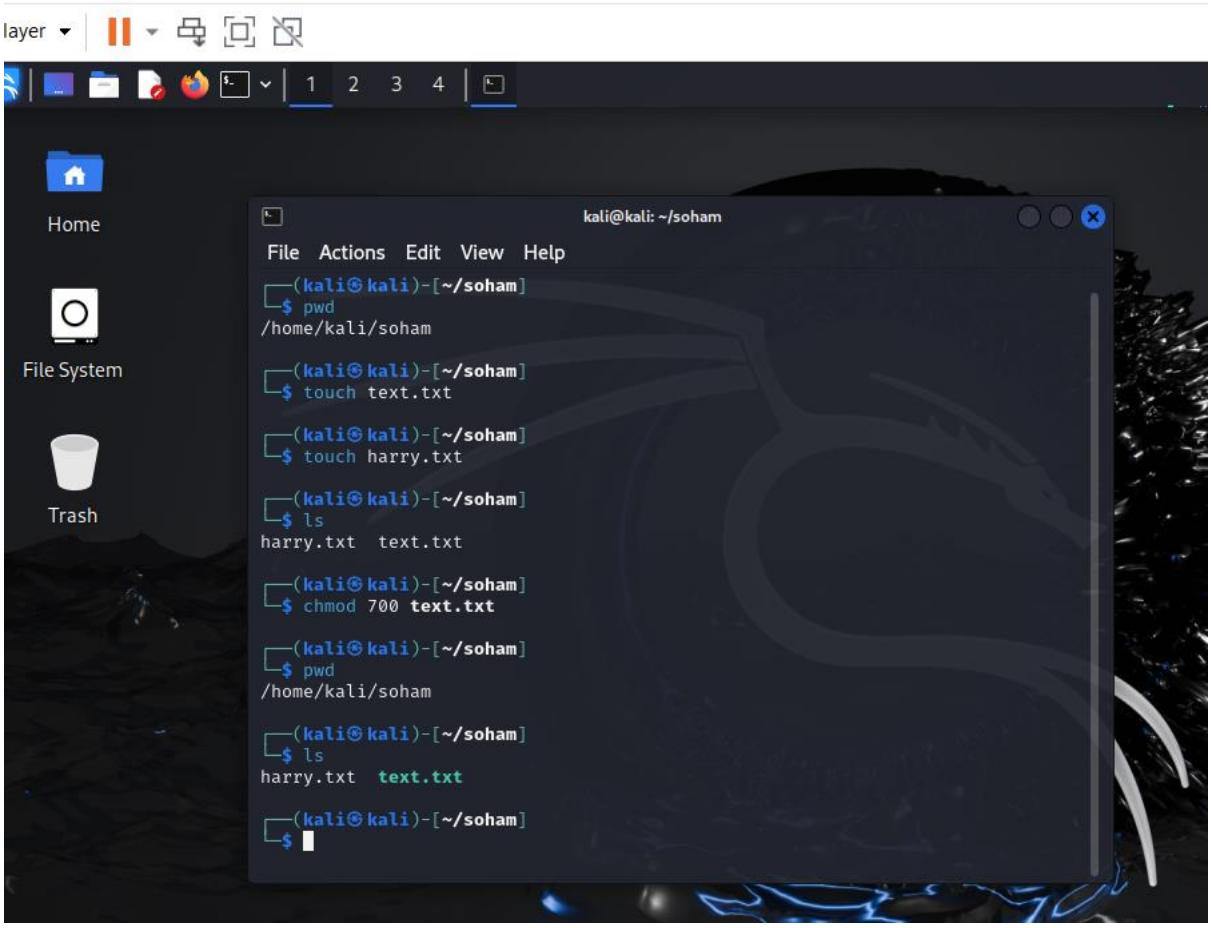
Step 6: touch harry.txt [create file]

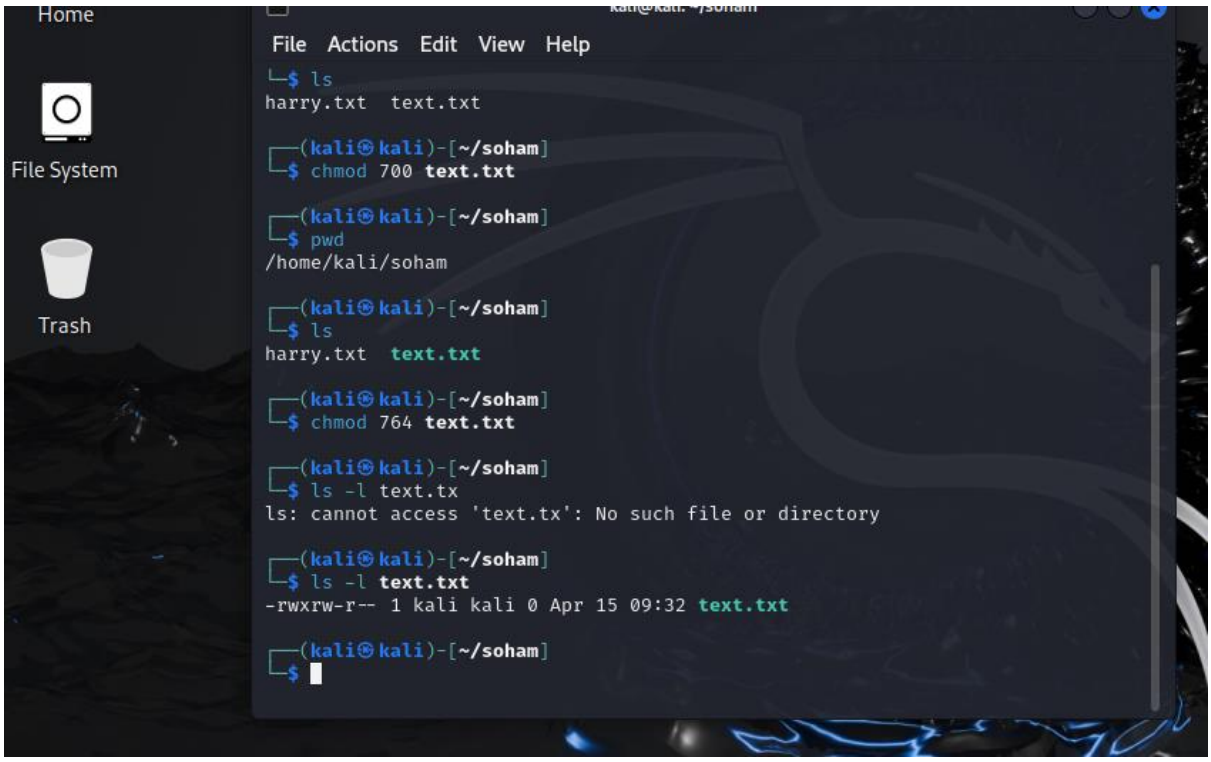
Step 7: ls [list of files]

Step 8: chmod 700 text.txt [Give permission]

Step 9: pwd [path of directory]

Step 10 chmod 764 text.txt [Permissions] Step 11: ls -l text.txt [check permission are done]





create user

sudo adduser username

create group

sudo addgroup groupname

add user to group

sudo usermod -aG groupname username

update password for user

sudo passwd username

print

id username

id groupname

make a directory

mkdir directoryname

delete file

rm filename

delete directory

rmdir directoryname

permissions

Read (r): Allows reading the file or listing the directory's contents.

Write (w): Allows modifying the file or directory.

Execute (x): Allows executing the file or accessing contents of the directory.

chmod permissions filename/directoryname

chmod 744 filename/directoryname

PRACTICAL 3

Initial settings: Add a User, Network Settings, Change to static IP address, Disable IPv6 if not needed, Configure Services, display the list of services which are running, Stop and turn OFF auto-start setting for a service if you don't need it, Sudo Settings

Step 1 : sudo useradd IT [add user]

Step 2 : id IT [add id]

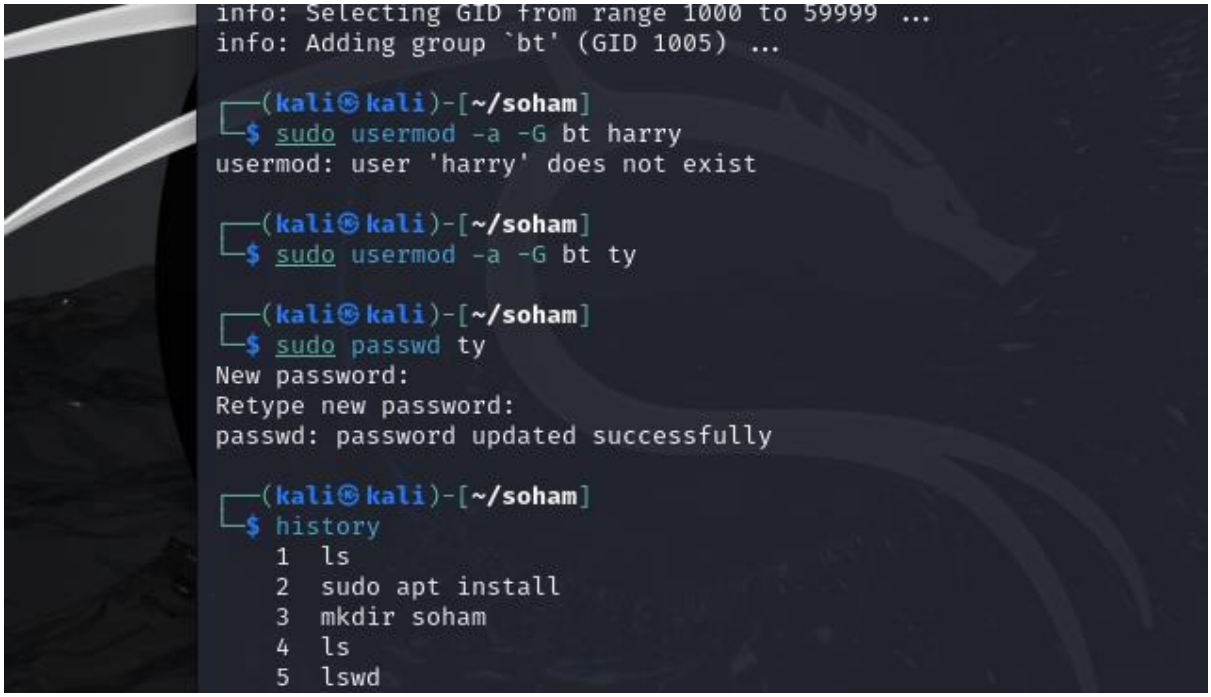
Step 3: #cat/etc/passwd

Step 4: sudo adduser ty [add user]

Step 5: sudo addgroup bt [Group name]

Step 6: sudo usermod -a -G bt ty [Check in group name user ‘ty’ is user]

Step 7: sudo passwd ty [to change password for user ty]


info: Selecting GID from range 1000 to 59999 ...
info: Adding group `bt' (GID 1005) ...
┌──(kali㉿kali)-[~/soham]
└─$ sudo usermod -a -G bt harry
usermod: user 'harry' does not exist
┌──(kali㉿kali)-[~/soham]
└─$ sudo usermod -a -G bt ty
┌──(kali㉿kali)-[~/soham]
└─$ sudo passwd ty
New password:
Retype new password:
passwd: password updated successfully
┌──(kali㉿kali)-[~/soham]
└─$ history
1 ls
2 sudo apt install
3 mkdir soham
4 ls
5 lswd


┌──(kali㉿kali)-[~/soham]
└─$ id ty
uid=1004(ty) gid=1004(ty) groups=1004(ty),100(users),1005(bt)
┌──(kali㉿kali)-[~/soham]
└─$ id bt
id: ‘bt’: no such user
┌──(kali㉿kali)-[~/soham]
└─$ id it
id: ‘it’: no such user
┌──(kali㉿kali)-[~/soham]
└─$ id IT
uid=1003(IT) gid=1003(IT) groups=1003(IT)
┌──(kali㉿kali)-[~/soham]
└─$

Practical 4

SSH Server:Password Authentication Configure SSH Server to manage a server from the remote computer,SSH Client(Ubuntu and Windows)

sudo apt-get update

```
somaiya@somaiya:~/Desktop$ sudo apt-get update
[sudo] password for somaiya:
Hit:1 http://security.ubuntu.com/ubuntu jammy-security InRelease
Hit:2 http://in.archive.ubuntu.com/ubuntu jammy InRelease
Hit:3 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:4 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease
Reading package lists... Done
```

sudo apt-get install openssh-server

```
somaiya@somaiya:~/Desktop$ sudo apt-get install openssh-server
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
openssh-server is already the newest version (1:8.9p1-3ubuntu0.1).
The following packages were automatically installed and are no longer required:
  chromium-codecs-ffmpeg-extra gstreamer1.0-vaapi i965-va-driver
  intel-media-va-driver libaacs0 libaom3 libass9 libavcodec58 libavformat58
  libavutil56 libbdplus0 libblas3 libbluray2 libbs2b0 libchromaprint1
  libcodec2-1.0 libdav1d5 libflite1 libgme0 libgsm1
  libgstreamer-plugins-bad1.0-0 libigdgmm12 liblilv-0-0 libmfx1 libmysofa1
  libnorm1 libopenmpt0 libpgm-5.3-0 libpostproc55 librabbitmq4 librubberband2
  libserd-0-0 libshine3 libsnappy1v5 libsord-0-0 libsratom-0-0
  libsrt1.4-gnutls libssh-gcrypt-4 libswresample3 libswscale5 libudfread0
  libva-drm2 libva-wayland2 libva-x11-2 libva2 libvdpau1 libvidstab1.1
  libx265-199 libxvidcore4 libzimg2 libzmq5 libzvbi-common libzvbi0
  mesa-va-drivers mesa-vdpau-drivers pocketsphinx-en-us systemd-hwe-hwdb
  va-driver-all vdpau-driver-all
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 287 not upgraded.
```

sudo systemctl start sshd

sudo systemctl status sshd

```
somaiya@somaiya:~/Desktop$ sudo systemctl start sshd
somaiya@somaiya:~/Desktop$ sudo systemctl status sshd
● ssh.service - OpenBSD Secure Shell server
     Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: e>
     Active: active (running) since Sat 2023-02-11 13:10:33 IST; 2min 44s ago
       Docs: man:sshd(8)
             man:sshd_config(5)
    Process: 747 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
   Main PID: 762 (sshd)
      Tasks: 1 (limit: 5913)
     Memory: 3.6M
        CPU: 46ms
     CGroup: /system.slice/ssh.service
             └─762 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"

Feb 11 13:10:33 somaiya systemd[1]: Starting OpenBSD Secure Shell server...
Feb 11 13:10:33 somaiya sshd[762]: Server listening on 0.0.0.0 port 22.
Feb 11 13:10:33 somaiya sshd[762]: Server listening on :: port 22.
Feb 11 13:10:33 somaiya systemd[1]: Started OpenBSD Secure Shell server.
```

ifconfig

```
somaiya@somaiya:~/Desktop$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.0.109  netmask 255.255.255.0  broadcast 192.168.0.255
        inet6 fe80::9b63:3f74:a469:b503  prefixlen 64  scopeid 0x20<link>
        ether 08:00:27:bd:e1:e2  txqueuelen 1000  (Ethernet)
        RX packets 13063  bytes 16521679 (16.5 MB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 3982  bytes 591822 (591.8 KB)
        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 812  bytes 105967 (105.9 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 812  bytes 105967 (105.9 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0
```

Copy the inet address(192.168.0.109) and ping it using windows cmd

```
somaiya@somaiya:~/Desktop$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.0.109  netmask 255.255.255.0  broadcast 192.168.0.255
        inet6 fe80::9b63:3f74:a469:b503  prefixlen 64  scopeid 0x20<link>
        ether 08:00:27:bd:e1:e2  txqueuelen 1000  (Ethernet)
        RX packets 13063  bytes 16521679 (16.5 MB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 3982  bytes 591822 (591.8 KB)
        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 812  bytes 105967 (105.9 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 812  bytes 105967 (105.9 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0
```

```
ping 192.168.0.109
```

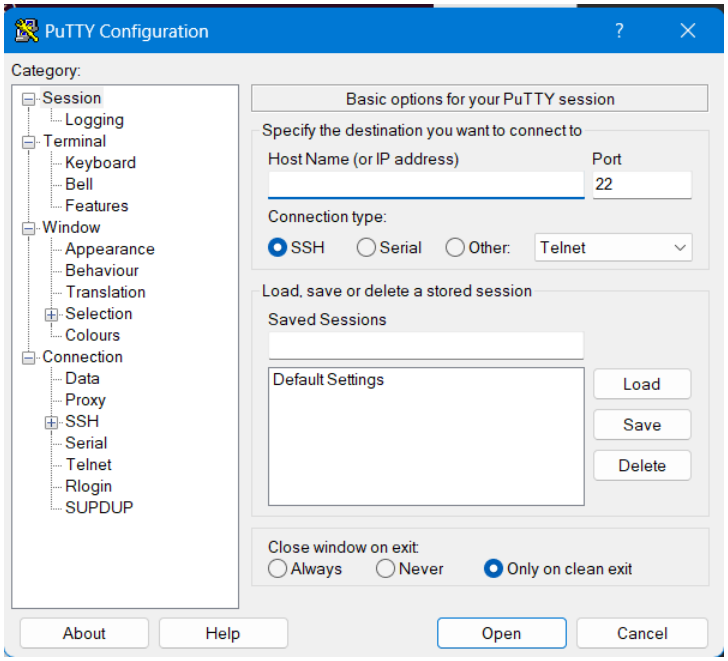
```
Pinging 192.168.0.109 with 32 bytes of data:
Reply from 192.168.0.109: bytes=32 time=1ms TTL=64
Reply from 192.168.0.109: bytes=32 time<1ms TTL=64
Reply from 192.168.0.109: bytes=32 time<1ms TTL=64
Reply from 192.168.0.109: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.0.109:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

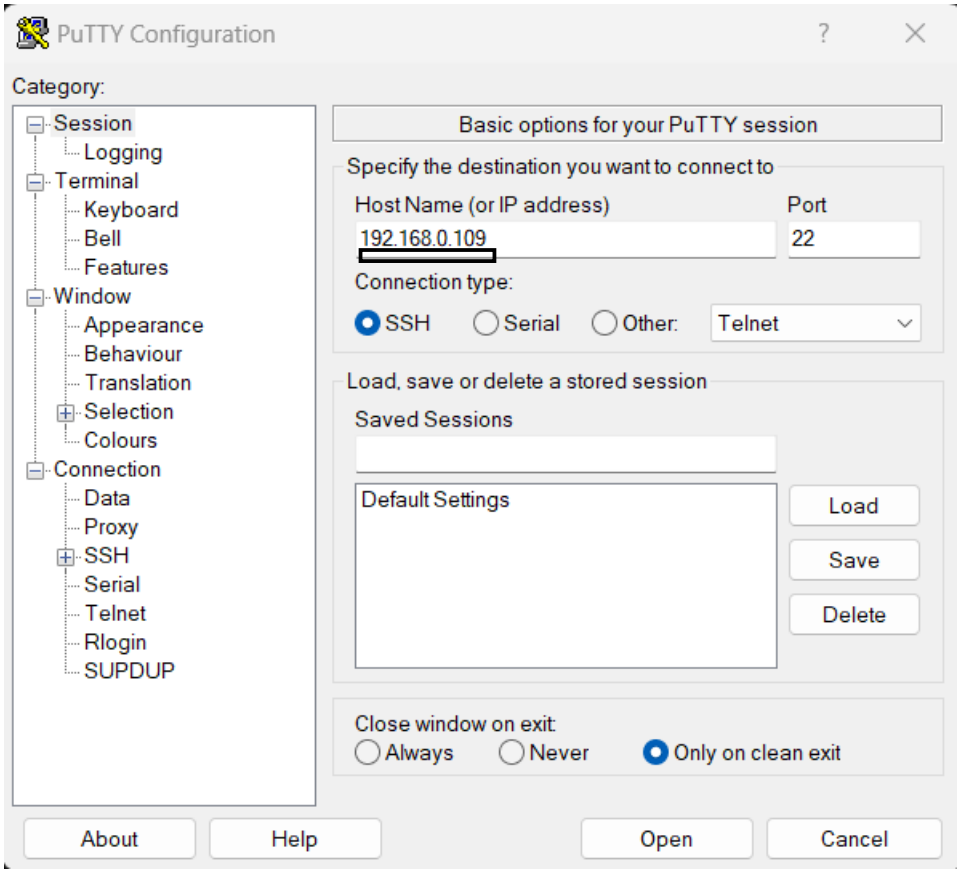
Install putty

https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html

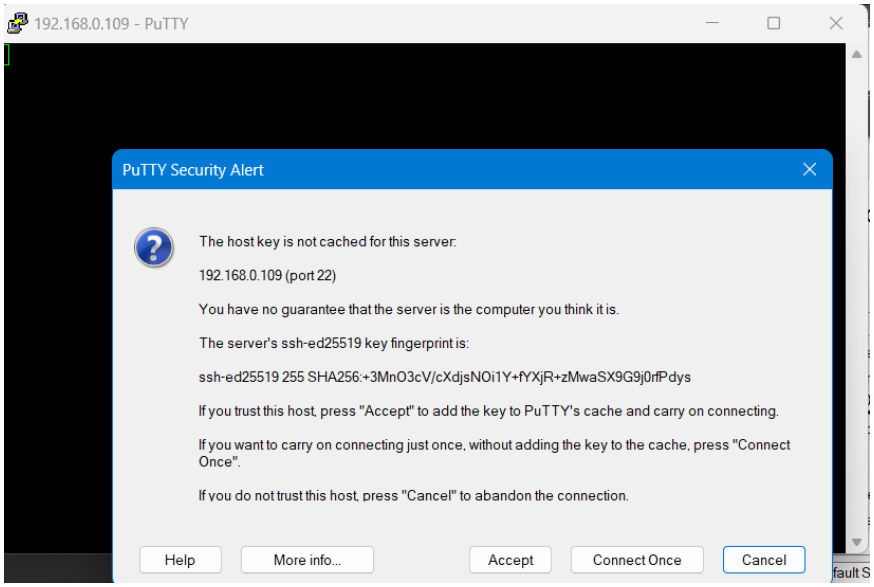
64-bit x86:putty.exe

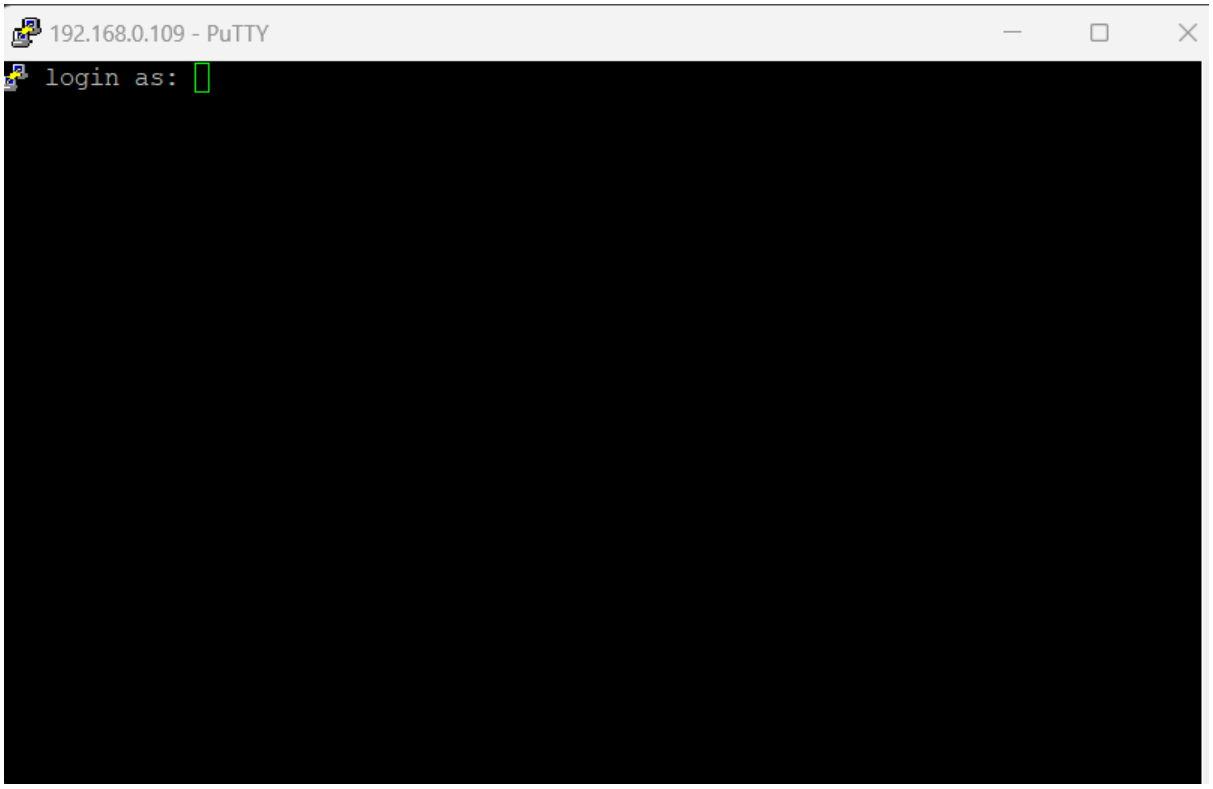


Hostname(or Ip address) -> inet address(192.168.0.129) ->Save -> Open



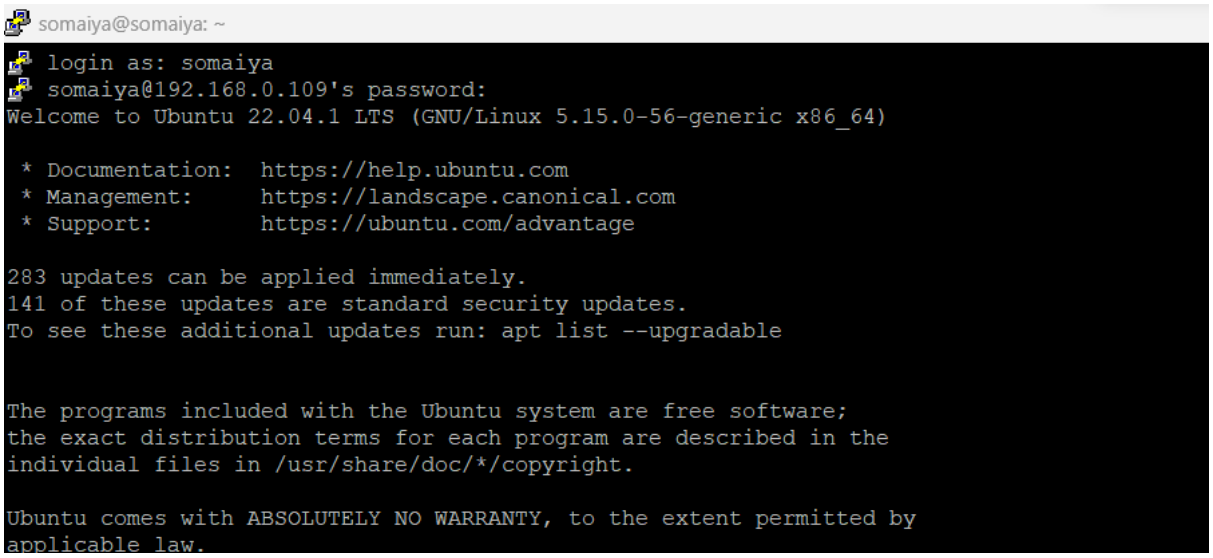
Select Accept



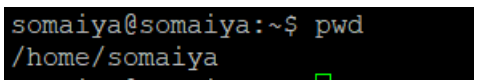


Put your ubuntu login credentials

In Login as:name of your and password



Run basic linux commands in putty



run tcpdump -e command

```
somaiya@somaiya:~$ tcpdump -e
tcpdump: enp0s3: You don't have permission to capture on that device
(socket: Operation not permitted)
somaiya@somaiya:~$ sudo su
[sudo] password for somaiya:
root@somaiya:/home/somaiya# tcpdump -e
```

```
tcpdump: verbose output suppressed, use -v[v]... for full protocol decode
listening on enp0s3, link-type EN10MB (Ethernet), snapshot length 262144 bytes
13:50:20.121841 08:00:27:bd:e1:e2 (oui Unknown) > b4:8c:9d:64:22:87 (oui Unknown), ethertyp
453, ack 1731877403, win 501, length 208
13:50:20.122134 b4:8c:9d:64:22:87 (oui Unknown) > 08:00:27:bd:e1:e2 (oui Unknown), ethertyp
 0
13:50:20.208639 08:00:27:bd:e1:e2 (oui Unknown) > 60:32:b1:08:15:3c (oui Unknown), ethertyp
dr.arpa. (55)
13:50:20.212641 60:32:b1:08:15:3c (oui Unknown) > 08:00:27:bd:e1:e2 (oui Unknown), ethertyp
13:50:20.212881 08:00:27:bd:e1:e2 (oui Unknown) > 60:32:b1:08:15:3c (oui Unknown), ethertyp
a. (44)
13:50:20.219205 60:32:b1:08:15:3c (oui Unknown) > 08:00:27:bd:e1:e2 (oui Unknown), ethertyp
13:50:20.220360 08:00:27:bd:e1:e2 (oui Unknown) > 60:32:b1:08:15:3c (oui Unknown), ethertyp
dr.arpa. (55)
13:50:20.226325 60:32:b1:08:15:3c (oui Unknown) > 08:00:27:bd:e1:e2 (oui Unknown), ethertyp
13:50:20.226652 08:00:27:bd:e1:e2 (oui Unknown) > 60:32:b1:08:15:3c (oui Unknown), ethertyp
a. (44)
13:50:20.231961 60:32:b1:08:15:3c (oui Unknown) > 08:00:27:bd:e1:e2 (oui Unknown), ethertyp
13:50:20.233199 08:00:27:bd:e1:e2 (oui Unknown) > b4:8c:9d:64:22:87 (oui Unknown), ethertyp
n 501, length 480
13:50:20.275348 b4:8c:9d:64:22:87 (oui Unknown) > 08:00:27:bd:e1:e2 (oui Unknown), ethertyp
 0
^C
12 packets captured
20 packets received by filter
0 packets dropped by kernel
```

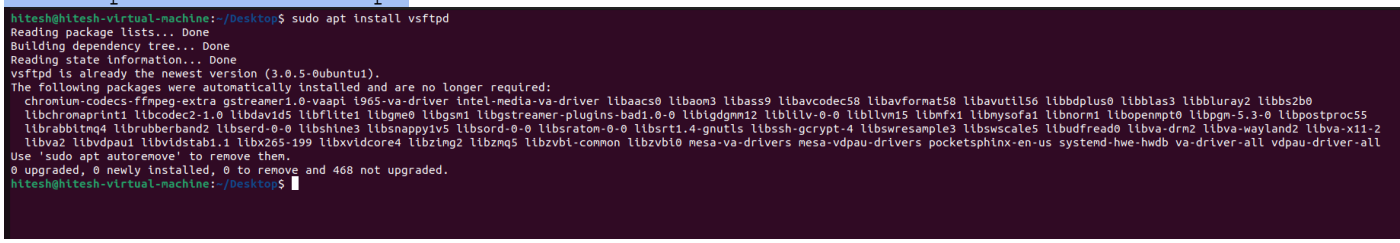
Practical 5

Installing and configure of FTP server

Practical 5

Step 1: Install FTP server

```
sudo apt update
sudo apt install vsftpd
```



Anonymous FTP:

- By default, vsftpd disables anonymous FTP. If you want to enable it, uncomment or add the following line:
- makefile
- Copy code

anonymous_enable=YES

Chroot Jail:

- To restrict users to their home directories, enable chroot:
- makefile
- Copy code

chroot_local_user=YES

Local Users:

- To allow local system users to access the FTP server, make sure this line is uncommented:
- makefile
- Copy code

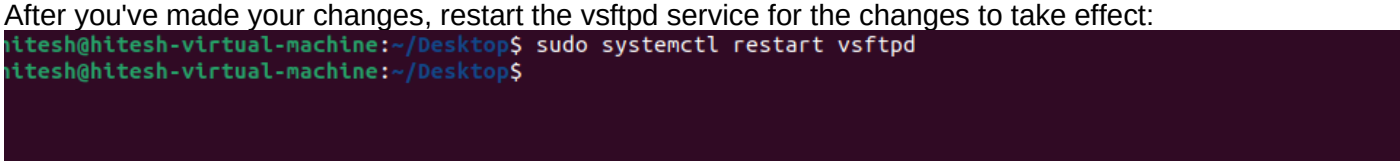
local_enable=YES

Write Access:

- If you want local users to have write access, uncomment this line:
- makefile
- Copy code
- write_enable=YES (if not login success then again commet)

Step 3: Restart the vsftpd service:

After you've made your changes, restart the vsftpd service for the changes to take effect:



Step 5: ifconfig

```
hitesh@hitesh-virtual-machine:~/Desktop$ ifconfig
ens33: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.211.128  netmask 255.255.255.0  broadcast 192.168.211.255
        inet6 fe80::[redacted]e9:2961:7952  prefixlen 64  scopeid 0x20<link>
        ether 00:0c:29:ab:41:c8  txqueuelen 1000  (Ethernet)
        RX packets 466650  bytes 674027302 (674.0 MB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 90530  bytes 7118944 (7.1 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 2484  bytes 532945 (532.9 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 2484  bytes 532945 (532.9 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

hitesh@hitesh-virtual-machine:~/Desktop$
```

Step 4: Connect it from client machine
ftp hostname@ipaddress

```
hitesh@hitesh-virtual-machine:~/Desktop$ ftp hitesh@192.168.211.128
Connected to 192.168.211.128.
220 (vsFTPd 3.0.5)
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls
229 Entering Extended Passive Mode (|||20524|)
150 Here comes the directory listing.
drwxr-xr-x    2 1000     1000         4096 Apr 15 11:37 Desktop
drwxr-xr-x    2 1000     1000         4096 Apr 15 11:37 Documents
drwxr-xr-x    2 1000     1000         4096 Apr 15 11:37 Downloads
drwxr-xr-x    2 1000     1000         4096 Apr 15 11:37 Music
drwxr-xr-x    3 1000     1000         4096 Apr 15 16:37 Pictures
drwxr-xr-x    2 1000     1000         4096 Apr 15 11:37 Public
drwxr-xr-x    2 1000     1000         4096 Apr 15 11:37 Templates
drwxr-xr-x    2 1000     1000         4096 Apr 15 11:37 Videos
drwx------    4 1000     1000         4096 Apr 15 13:27 snap
226 Directory send OK.
ftp> cd Music
250 Directory successfully changed.
ftp> ls
229 Entering Extended Passive Mode (|||24336|)
150 Here comes the directory listing.
226 Directory send OK.
ftp> cd..
?Invalid command.
ftp> cd ..
250 Directory successfully changed.
ftp>
```

Using windows

Open File Explorer:

- Open File Explorer by pressing Win + E or by clicking on the File Explorer icon in the taskbar.

Access FTP Site:

- In the address bar of File Explorer, type the FTP URL in the following format:
- perl
- Copy code

ftp://username:password@ftp_server_address

- Replace username, password, and ftp_server_address with your actual FTP server login credentials and server address.
  For example:
- perl
- Copy code

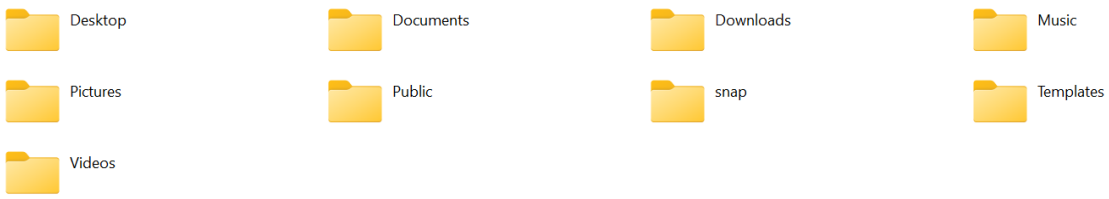
ftp://hitesh:hitesh@192.168.211.128

Enter Credentials (if required):

- If prompted, enter the username and password for your FTP server.

Access Files:

- Once authenticated, you'll be able to view and interact with the files and folders on the FTP server as if they were local files.



Practical 6

Install MySQL to configure database server

Step 1: update sudo and install Mysql

sudo apt update

sudo apt install mysql-server

```
hitesh@hitesh-virtual-machine:~/Desktop$ sudo apt update
[sudo] password for hitesh:
Get:1 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Hit:2 http://in.archive.ubuntu.com/ubuntu jammy InRelease
Get:3 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Hit:4 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease
Get:5 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [1,343 kB]
Get:6 http://security.ubuntu.com/ubuntu jammy-security/main i386 Packages [444 kB]
Get:7 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [852 kB]
Get:8 http://security.ubuntu.com/ubuntu jammy-security/universe i386 Packages [600 kB]
Fetched 3,468 kB in 4s (978 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
468 packages can be upgraded. Run 'apt list --upgradable' to see them.
hitesh@hitesh-virtual-machine:~/Desktop$ sudo apt install mysql-server
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
  chromium-codecs-ffmpeg-extra gstreamer1.0-vaapi i965-va-driver intel-media-va-driver libaacs0 libaom3 libass9 libavcodec58 libavformat58 libavutil56 libbdplus0 li
  libchromaprint1 libcodec2-1.0 libdav1d5 libflite1 libgme0 libgsm1 libgstreamer-plugins-bad1.0-0 libigdgmm12 liblilv-0-0 libllvm15 libmfx1 libmysofa1 libnorm1 libo
  librabbitmq4 librubberband2 libserd-0-0 libshine3 libsnappy1v5 libsord-0-0 libsratom-0-0 libsrt1.4-gnutls libssh-gcrypt-4 libswresample3 libswscale5 libudfread0 l
  libva2 libvdpau1 libvidstab1.1 libx265-199 libxvidcore4 libzimg2 libzmq5 libzvbi-common libzvbi0 mesa-va-drivers mesa-vdpau-drivers pocketsphinx-en-us systemd-hwe
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  libaio1 libcgi-fast-perl libcgi-pm-perl libevent-core-2.1-7 libevent-pthreads-2.1-7 libfcgi-bin libfcgi-perl libfcgi0ldbl libhtml-template-perl libmecab2 libproto
  mecab-ipadic-utf8 mecab-utils mysql-client-8.0 mysql-client-core-8.0 mysql-common mysql-server-8.0 mysql-server-core-8.0
Suggested packages:
  libipc-sharedcache-perl mailx tinyca
The following NEW packages will be installed:
```

Step 3 : start and enable mysql server

sudo systemctl start mysql

sudo systemctl enable mysql

```
hitesh@hitesh-virtual-machine:~/Desktop$ sudo systemctl start mysql
[sudo] password for hitesh:
hitesh@hitesh-virtual-machine:~/Desktop$ sudo systemctl enable mysql
Synchronizing state of mysql.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable mysql
hitesh@hitesh-virtual-machine:~/Desktop$
```

Step 5 : verify mysql installation

sudo systemctl status mysql

```
hitesh@hitesh-virtual-machine:~/Desktop$ sudo systemctl status mysql
● mysql.service - MySQL Community Server
     Loaded: loaded (/lib/systemd/system/mysql.service; enabled; vendor preset: enabled)
     Active: active (running) since Mon 2024-04-15 23:40:29 IST; 50min ago
   Main PID: 17063 (mysqld)
     Status: "Server is operational"
      Tasks: 37 (limit: 4557)
     Memory: 366.0M
        CPU: 22.058s
     CGroup: /system.slice/mysql.service
             └─17063 /usr/sbin/mysqld

Apr 15 23:40:28 hitesh-virtual-machine systemd[1]: Starting MySQL Community Server...
Apr 15 23:40:29 hitesh-virtual-machine systemd[1]: Started MySQL Community Server.
hitesh@hitesh-virtual-machine:~/Desktop$
```

Step 5: Create MySQL Databases and Users.

Sudo mysql

```
hitesh@hitesh-virtual-machine:~/Desktop$ sudo mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.36-0ubuntu0.22.04.1 (Ubuntu)

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>
```

```
CREATE DATABASE emp;
use emp
Database changed
mysql> create table employee(
    -> id int primary key,
    -> name varchar(30),
    -> age int,
    -> salary int
    -> );
insert into employee(1,"petter",25,30000);
insert into employee values  (2,"joye",28,40000);
```

select * from employee;

```
hitesh@hitesh-virtual-machine:~/Desktop$ sudo mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.36-0ubuntu0.22.04.1 (Ubuntu)

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Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE DATABASE emp;
Query OK, 1 row affected (0.01 sec)

mysql> use emp
Database changed
mysql> create table employee(
    -> id int primary key,
    -> name varchar(30),
    -> age int,
    -> salary int
    -> );
Query OK, 0 rows affected (0.02 sec)

mysql> insert into employee(1,"petter",25,30000);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to
mysql> insert into employee values  (1,"petter",25,30000);
Query OK, 1 row affected (0.18 sec)

mysql> insert into employee values  (2,"joye",28,40000);
Query OK, 1 row affected (0.00 sec)

mysql> select * from employee
    -> ;
+----+--------+------+--------+
| id | name   | age  | salary |
+----+--------+------+--------+
|  1 | petter |   25 |  30000 |
|  2 | joye   |   28 |  40000 |
+----+--------+------+--------+
2 rows in set (0.00 sec)

mysql>
```

Practical 7

Install Samba to share Folders and Files between Windows and Linux.

Step 1: sudo apt-get update

Step 2:sudo apt install samba

Step 3: sudo cp /etc/samba/smb.conf /etc/samba/smb.conf.backup

Step 4: sudo mkdir -p /home/somaiya/somaiya_TYIT

Step 5: cd /home/somaiya

Step 6: sudo adduser somaiya

Step 7: sudo smbpasswd -a somaiya

Step 8: Restarting the samba services
sudo systemctl restart smbd
sudo systemctl status smbd

Step 9: Editing Samba Configuration File

sudo nano /etc/samba/smb.conf

Add this Lines in the Last

[somaiya_TYIT]

path = /home/somaiya/somaiya_TYIT

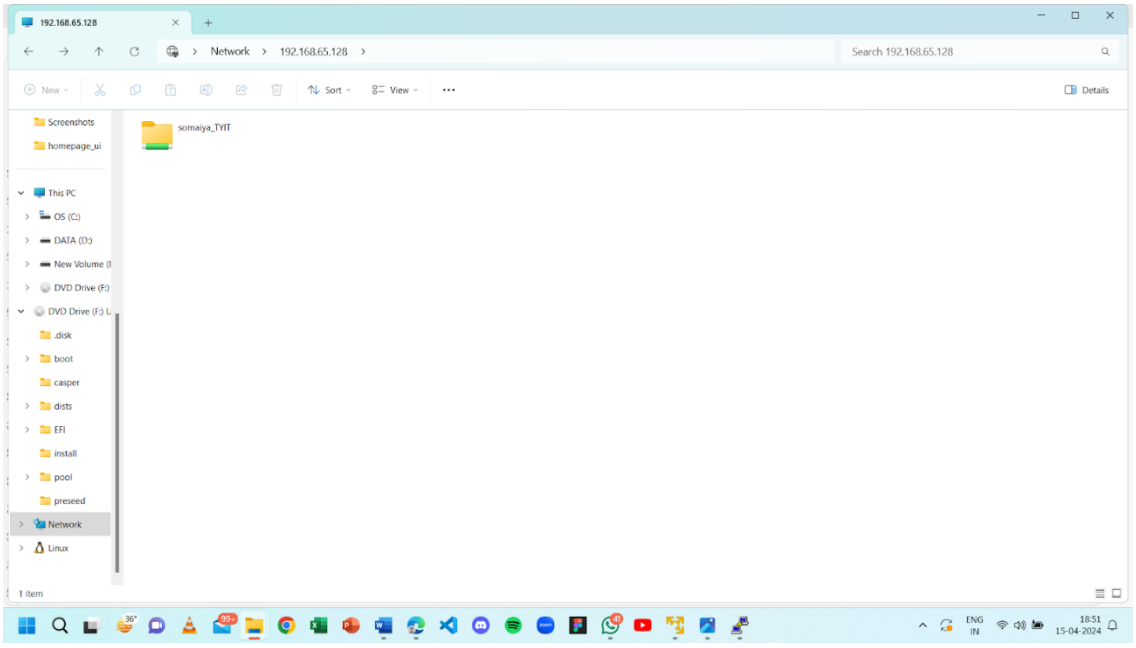
read only = no

valid users = somaiya

Step 10: ifconfig, Copy the IP Address

Step 11: Now go to Windows Explorer

Go to File explorer type the ip address of ubuntu OS to access the folder [folder_name] double click on the folder


192.168.65.128
Network
192.168.65.128
Search 192.168.65.128
New
Sort
View
Details
Screenshots
homepage_ui
This PC
OS (C:)
DATA (D:)
New Volume (I
DVD Drive (F:)
DVD Drive (F:) U
.disk
boot
casper
dists
EFI
install
pool
preseed
Network
Linux
somaiya_TYIT
1 item
ENG
IN
18:51
15-04-2024

Practical 8

Install Samba to share Folders and Files between Windows and Linux.

Step 1: sudo apt-get update

Step 2:sudo apt install nfs-kernel-server

Step 3: sudo mkdir /home/share

Step 4: cd /home/share

Step 5: sudo touch first.txt

Step 6: sudo chmod -R 755 /home/share

Step 7: sudo nano /etc/exports

Step 8: Add this Line at the End
/home/share *(rw)

Step 9: sudo systemctl restart nfs-kernel-server

Step 10: Copy the IP Address after running this command:
ip a

Step 11: Open Another Terminal for Client Side and Write the Command:
cd /etc

Step 12: showmount -e

Step 13: sudo mkdir /home/client

Step 14: cd /home/client

Step 15: ls

Practical 9

Install phpMyAdmin to operate MySQL on web browser from Clients.

Practical 9

Aim: Install phpMyAdmin to operate MySQL on web browser from Clients.

Step 1: sudo apt-get update

Step 2:sudo apt install apache2

Step 3: sudo apt install mysql-server

Step 4: sudo apt install mysql-client

Step 5: sudo mysql

Enter Following Commands:

create user ‘james’@’localhost’ identified by ‘password’; then press Enter

give all on . to ‘james’@’localhost’ then press Enter

exit

Step 6: sudo apt install php

Step 7: sudo apt install phpmyadmin

In the Dialog Boxes

Select - apache2

Click on Yes

Setup Password

Step 8: open browser and type ‘localhost/phpmyadmin’