

Lab -01 - User management

- Create user

```
ubuntu@ip-172-31-11-127:~$ sudo adduser priti
info: Adding user 'priti' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group 'priti' (1001) ...
info: Adding new user 'priti' (1001) with group 'priti' (1001) ...
info: Creating home directory '/home/priti' ...
info: Copying files from '/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for priti
Enter the new value, or press ENTER for the default
    Full Name []:
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] Y
info: Adding new user 'priti' to supplemental / extra groups 'users' ...
info: Adding user 'priti' to group 'users' ...
ubuntu@ip-172-31-11-127:~$ |
```

Here it creates user `priti` using command 'adduser'

- Switch user

```
ubuntu@ip-172-31-11-127:~$ su priti
Password:
priti@ip-172-31-11-127:/home/ubuntu$ |
```

It switches user using 'su' command

- Verify Home directory

```
priti@ip-172-31-11-127:/home/ubuntu$ echo $HOME
/home/priti
priti@ip-172-31-11-127:/home/ubuntu$ |
```

Lab - 02 - Permissions

- Create file

Created a file named 'demo.txt' using command touch

```
ubuntu@ip-172-31-11-127:~$ touch demo.txt
ubuntu@ip-172-31-11-127:~$ echo "Hello buddy!!" > demo.txt
echo "Hello buddy" > demo.txt
ubuntu@ip-172-31-11-127:~$ cat demo.txt
Hello buddy
ubuntu@ip-172-31-11-127:~$ echo "Hello buddy!" > demo.txt
ubuntu@ip-172-31-11-127:~$ cat demo.txt
Hello buddy!
ubuntu@ip-172-31-11-127:~$ ls -l
total 4
-rw-rw-r-- 1 ubuntu ubuntu 13 Feb 23 16:10 demo.txt
ubuntu@ip-172-31-11-127:~$
```

- Modify permission

```
ubuntu@ip-172-31-11-127:~$ ls -l
total 4
-rw-rw-r-- 1 ubuntu ubuntu 13 Feb 23 16:10 demo.txt
ubuntu@ip-172-31-11-127:~$ chmod 700 demo.txt
ubuntu@ip-172-31-11-127:~$ ls -l
total 4
-rwx----- 1 ubuntu ubuntu 13 Feb 23 16:10 demo.txt
ubuntu@ip-172-31-11-127:~$
```

Changed the permission using command ‘chmod 700’ which means as follows:

Owner → read, write, execute
Group → no access
Others → no access

- Change ownership

```
ubuntu@ip-172-31-11-127:~$ sudo chown priti demo.txt
ubuntu@ip-172-31-11-127:~$ ls -l
total 4
-rwx----- 1 priti ubuntu 13 Feb 23 16:10 demo.txt
ubuntu@ip-172-31-11-127:~$
```

Changed the ownership of the file using ‘chown’ command

- Test access

```
priti@ip-172-31-11-127:~$ su priti
Password:
priti@ip-172-31-11-127:/home/ubuntu$ cat demo.txt
cat: demo.txt: Permission denied
priti@ip-172-31-11-127:/home/ubuntu$ echo "Test" > demo.txt
bash: demo.txt: Permission denied
priti@ip-172-31-11-127:/home/ubuntu$
```

When user was changed from ubuntu to priti the content of the file did not get displayed.

Lab - 03 - Process control

- Run background processes = used 'sleep' command
- Identify PID = used 'ps' command
- Kill process = used 'kill' command

```
ubuntu@ip-172-31-11-127:~$ sleep 100 &
[1] 1662
ubuntu@ip-172-31-11-127:~$ ps
  PID TTY      TIME CMD
 1002 pts/0    00:00:00 bash
 1662 pts/0    00:00:00 sleep
 1663 pts/0    00:00:00 ps
ubuntu@ip-172-31-11-127:~$ kill -9 1662
ubuntu@ip-172-31-11-127:~$ ps
  PID TTY      TIME CMD
 1002 pts/0    00:00:00 bash
 1664 pts/0    00:00:00 ps
[1]+  Killed                  sleep 100
ubuntu@ip-172-31-11-127:~$ |
```

Lab 04 – Edit with vim

- Create file
Used 'vim' command if file does not exist, it creates a file
- Insert content
By default vim opens in normal mode, now press 'i' to enter the text
- Save & exit
 - :w → write (save)
 - :q → quit

```
ubuntu@ip-172-31-11-127:~$ vim lab4.txt
ubuntu@ip-172-31-11-127:~$ cat lab4.txt
This is lab 4
learning vim editor in linux

ubuntu@ip-172-31-11-127:~$ |
```