

# Activity 4 Users and groups

## Steps

Login to your machine.

Let's add/create a user

```
# sudo useradd -c "user1" -m -s /bin/bash user1
# id username
```

Let's check if user is created or not.

```
# tail -n 2 /etc/passwd
```

Now, set a password for this user.

```
# sudo passwd user1
```

Let's add/create a system or application user, before that let's list home directories,

```
# ls /home
# sudo useradd -c "Apache web Server" -d /opt/apache -r -s /usr/sbin/nologin
apache
```

- r : To create system account
- d : To specify home directory
- c : To specify Comments

Let's delete a user, without any option it will only delete user, it's home directory and files will be accessible.

```
# sudo userdel test1
```

Above user is deleted, but home directory is still available.

```
[ec2-user@ip-172-16-1-243 ~]$ sudo userdel user1
[ec2-user@ip-172-16-1-243 ~]$ ls /home/
ec2-user  nishant  test1    user1
[ec2-user@ip-172-16-1-243 ~]$
```

Now if you need data of that user, save it in some other path and delete the folder, to do so,

```
# rm -r /home/user1
```

Let's delete a user with its home directory as well.

```
# userdel -r test1
```

```
[ec2-user@ip-172-16-1-243 ~]$ sudo userdel -r test1
userdel: /var/spool/mail/test1 not owned by test1, no
[ec2-user@ip-172-16-1-243 ~]$ ls /home/
ec2-user  nishant  rest1    user1
```

Let's modify a user, Here we are changing its comment information.

```
# usermod -c "Apache user" apache
```

Let's add a group.

```
# groupadd web
```

Let's verify if it's created or not

```
# tail -f /etc/groups
```

Expected Output: **Web:x:100\*:\_\_**

Let's add a group with custom group id

```
# groupadd -g 2500 database
```

verify again

```
# tail -f /etc/groups
```

Expected Output: **database:x:2500:\_\_**

Add a user

```
# useradd user6
```

Let's add user6 to group database

```
# usermod -G database user6
```

To add multiple users to a group.

```
# gpasswd -M u1,u2,u3 groupname
```

To remove a user from a group

```
# gpasswd -d username groupname
```

Let's delete a group

```
# groupdel database
```

Check with cat /etc/group

```
# tail -n 3 /etc/group
```

Command	Desc
cat /etc/passwd	to list information of all users
sudo useradd username	to add a user
sudo passwd username	to generate password for username
sudo gpasswd username	to generate password for group
id username	to get the user details
usermod -l newname username	To change username ( user1 --> newuser1)
usermod -u 1008 newuser1	To change user id -- > uid
usermod -g 1004(exist) newuser1	To change group id -- > gid
usermod -c "comment" newuser1	To change the comment
usermod -d "/home/ubuntu" newuser1	To change the home directory
usermod -s "/bin/sh" newuser1	To change the shell
useradd -c "demo" -m -s"/bin/bash" -u 1234 demouser	to create new user with custom values
useradd user6	to add user6
groupadd devops	To create new group
usermod -G devops user6	To add user6 in a group (devops)
groupadd tester	to add a group with name tester
usermod -G tester user6	to add user6 in group tester
gpasswd -M user5,user6,user7 dev	To add multiple users in one group
gpasswd -d user4 dev	To remove user4 from group dev
groupdel groupname	to delete the group
groupdel tester	to delete the group
userdel -r username	to delete the user with it's home dir
rm -r /home/demouser	

