

16.01.2025

Day - 9

## users and groups

→ let's continue with that "linux" instance.

→ Before that delete everything (files and dir)

Polly:

```
[root@ip-172-31-95-49 ~]# touch hello
```

```
[root@ip-172-31-95-49 ~]# ls -l
```

```
total 0
```

```
-rw-r--r--  ---  hello
```

```
[root@ip-172-31-95-49 ~]# cd /
```

```
[root@ip-172-31-95-49 /]# ls
```

```
bin  boot  dev  etc  home  lib  lib64  local  media  mnt  opt  proc  root  
run  sbin  srv  sys  tmp  usr  var
```

```
[root@ip-172-31-95-49 /]# cd home
```

```
[root@ip-172-31-95-49 home]# ls
```

```
ec2-user
```

```
[root@ip-172-31-95-49 home]# cd
```

```
[root@ip-172-31-95-49 ~]#
```

## users and groups - Day 2

### useradd commands:

- create a user and add in home directory.
- sets permission to the home directory

### 1. useradd username:

#### example:

useradd swetha or adduser (su-)

id name

- d = custom home directory
- m = create home directory if does not exist
- u = assign unique identification number if needed
- g = assign a group to this user
- s = specify the custom shell /bin/bash

useradd -g student -s /bin/bash -c "student details" -m -d /home/Pritya Pritya

useradd -d username -m

useradd -d path -m username

useradd username -u id

2. to check the information about the user:

cat /etc/passwd

3. to change the password of the user:

passwd username

passwd praveen

only root user has the access to change the password for another user.

su - praveen

4. to add a group:

groupadd groupname

example:

groupadd employee

groupadd -g groupid groupname

etc/group

5. to check the user belong to which group:

groups username

6. to remove a user from the group:

- This userdel command can be used to delete an existing user

userdel -r username

7. to modify a user to group:

usermod -d -G groupname username

usermod -G groupname username

less /etc/group

→ users and groups file management

8. groupmod

- to change the group id

groupmod -g newgroupid groupname (to change the groupid)

groupmod -n newname oldname (to change the groupname)

9. groupdel:

- to delete the group

groupdel groupname

10. To Lock the user:

To change the default group

usermod -L username

To unlock the user

usermod -U username

vi /etc/sudoers

root ALL=(ALL:ALL) ALL

---

→ yesterday class is good, but we gonna see that clearly today.

→ Launch a new "Linux" Instance.

puth:

```
[root@ip-172-31-83-248 ~]# cd /home
```

```
[root@ip-172-31-83-248 home]# ls
```

ec2-user

```
[root@ip-172-31-83-248 home]# useradd swetha
```

```
[root@ip-172-31-83-248 home]# ls
```

ec2-user swetha

[∴ adding a "user"]

```
[root@ip-172-31-83-248 home]# cd ..
```

```
[root@ip-172-31-83-248 /]# cat /etc/passwd
```

:

[∴ to check the information  
about the user]

```
tcpdump: x: 72:72::/:/sbin/nologin
```

```
ec2-user: x: 1000:1000::/home/ec2-user:/bin/bash
```

```
swetha: x: 1001:1001::/home/swetha:/bin/bash
```

```
[root@ip-172-31-83-248 /]# useradd priya -u 2001
```

```
[root@ip-172-31-83-248 /]# cat /etcpasswd
```

:

[∴ assigning "unique" id for  
the user]

∴ -u = assign unique id number  
if needed]

tcp:.

```
ec2-user: x: 1000:1000::/home/ec2-user:/bin/bash
```

```
swetha: x: 1001:1001::/home/swetha:/bin/bash
```

```
priya: x: 2001:2001::/home/priya:/bin/bash
```

```
[root@ip-172-31-83-248 /]# passwd priya
```

[∴ setting "password" for user  
"priya"]

changing password for user priya.

new password: admin123 (invisible)

Retyp new password: admin123 (invisible)

passwd: all authentication tokens updated successfully.



[root@ip-172-31-83-248 ~]# su - priya

[∴ Switching user to "Priya"]

[Priya@ip-172-31-83-248 ~]\$ yum install httpd

Error: This command has to be run with superuser privileges (under the root user on most system)

[Priya@ip-172-31-83-248 ~]\$ sudo su -

:

[sudo] password for priya: admin123

Priya is not in the sudoers file.

[Priya@ip-172-31-83-248 ~]\$ sudo yum install httpd

[sudo] password for priya: admin123

Priya is not in the sudoers file.

[Priya@ip-172-31-83-248 ~]\$

→ gonna add "Priya" user to "system account"

[Priya@ip-172-31-83-248 ~]\$ exit

logout

[root@ip-172-31-83-248 ~]# vi /etc/sudoers

:

# Allows root to run any commands anywhere

root ALL=(ALL) ALL

priya ALL=(ALL) ALL

:

wq!

[root@ip-172-31-83-248 ~]# cd /home

[root@ip-172-31-83-248 home]# su - phya

last login...

[phy@ip-172-31-83-248 ~]\$ sudo yum install httpd

[sudo] password for phya: admin123

✓

complete!

[phy@ip-172-31-83-248 ~]\$ exit

logout

[root@ip-172-31-83-248 home]# cd ..

[root@ip-172-31-83-248 ~]# cat /etc/group

:

Screen : x : 84 :

ec2-user : x : 1000 :

Swetha : x : 1001 :

Phya : x : 2001 :

[root@ip-172-31-83-248 ~]# groupadd student

[∴ creating a group "student"]

[root@ip-172-31-83-248 ~]# cat /etc/group

:

Screen ..

ec2-user : 1000 :

Swetha : x : 1001 :

Phya : x : 2001 :

→ It is only a "group"

Student : x : 2002 :

[root@ip-172-31-83-248 ~]# cat /etc/passwd

:

tcpd ..

ec2-user : x : 1000 : 1000

Swetha : x : 1001 : 1001 :: /home/Swetha : /bin/bash

Phya : x : 2001 : 2001 :: /home/Phya : /bin/bash

[∴ only shows "users"

not "groups"]



```
[root@ip-172-31-83-248 ~]# groupadd -g 5555 teacher
```

[∴ creating a "group" with "custm" id no.]

```
[root@ip-172-31-83-248 ~]# cat /etc/group
```

```
swetha:
```

```
er2-user: x: 1000:
```

```
Swetha: x: 1001:
```

```
phya: x: 2001:
```

```
student: x: 2002:
```

```
teacher: x: 5555:
```

```
[root@ip-172-31-83-248 ~]# groups swetha
```

[∴ cmd to know the "user" belongs to which group]

```
swetha: swetha
```

```
[root@ip-172-31-83-248 ~]# usermod -a -G student swetha
```

[∴ to modify a user to group]

```
[root@ip-172-31-83-248 ~]# groups swetha
```

[∴ Here we added "swetha" to group "student"]

```
swetha: swetha student
```

```
[root@ip-172-31-83-248 ~]# groups phya
```

```
phyah: phya
```

```
[root@ip-172-31-83-248 ~]# groupmod -g 6666 teacher
```

[∴ changing the "group id" of "teacher" from "5555" to "6666"]

```
[root@ip-172-31-83-248 ~]# cat /etc/group
```

```
swetha:
```

```
er2-user: x: 1000:
```

```
Swetha: x: 1001:
```

```
phya: x: 2001:
```

```
student: x: 2002: Swetha
```

```
teacher: 6666:
```

```
[root@ip-172-31-83-248 ~]# groupmod -n principal teacher
```

[∴ changing group name from "teacher" to "principal"]

```
[root@ip-172-31-83-248 ~]# cat /etc/group
```

```
swetha:
```

```
er2-
```

```
swetha-
```

```
phya-
```

```
student: x: 2002: Swetha
```

```
principal: x: 6666:
```

[root@ip-172-31-83-248 ~]# usermod -s -G student priya

[:: adding user "priya" to group "student"]

[root@ip-172-31-83-248 ~]# cat /etc/group

screen:

ec2-user:

swetha:x:1001:

priya:x:2001:

student:x:2002:swetha,priya

principal:x:6666:

[root@ip-172-31-83-248 ~]# cat /etc/passwd

tcpdump

ec2-user:x:1000:1000:ec2:Default user:/home/ec2-user:/bin/bash

swetha:x:1001:1001:/home/swetha:/bin/bash

priya:x:2001:2001:/home/priya:/bin/bash

[root@ip-172-31-83-248 ~]# userdel priya

[:: cmd to delete a user]

[root@ip-172-31-83-248 ~]# cat /etc/passwd

tcpdump-

ec2-user:x:1000:1000:ec2:Default

swetha:x:1001:1001:/home/swetha:/bin/bash

[root@ip-172-31-83-248 ~]# cat /etc/group

screen:

ec2-user:x:1000:

swetha:x:1001:

student:x:2002:swetha

principal:x:6666:

[root@ip-172-31-83-248 ~]# groupdel principal

[:: cmd to delete a group]

[root@ip-172-31-83-248 ~]# cat /etc/group

screen:

ec2-user:x:1000:

swetha:x:1001:

student:x:2002:swetha