

## User and Group Administration in Linux

User : A person who utilizes the Operating System services is a user.

Group : A group is collection of users.

### Important Files with user and group info

/etc/passwd – contains user information

/etc/shadow – Secure user account information(User's password info)

/etc/group - Group account information

/etc/gshadow - Secure group account information/ contains the shadowed information for group accounts.

/etc/login.defs - **default configuration information for several user account parameters.** The useradd, usermod, userdel, and groupadd commands, and other user and group utilities take default values from this file

you can also check    **# ls -l /home**

**# cd /var/spool/mail**

### Fields in below files

**/etc/passwd** - Username: User's password mask(x) : UID : GID : User Comment : home directory of user:  
Default log-in shell

**/etc/shadow** - Username: Encrypted password:Last password change:Minimum :Maximum :Warning  
days:Inactive:Expire:reserved

**/etc/group** - Groupname:password:GID:Members of group

**/etc/gshadow** - Groupname:group Encrypted password:group admin:Members of group

1. Create an user account
  - a. `useradd username`
  - b. `adduser username` (it is a soft link of `useradd` file)
2. To check the user's ID or UID with Group ID
  - a. `id username`
  - b. `id -un username`
  - c. `id -gn username`
3. To set user's password
  - a. `passwd username`
4. To remove password of a user
  - a. `passwd -d username`
5. To delete an user account
  - a. `userdel username`
6. To delete an user's account with its home directory and mail directory
  - a. `userdel --remove username`
  - b. `userdel -r username`
7. To list the currently login users
  - a. `w`
  - b. `who`
  - c. `whoami`
8. To create group
  - a. `groupadd grpname`
9. Add user into a group (secondary group)
  - a. `gpasswd -a user group`
  - b. `usermod -a -G group user`
10. Remove User from group
  - a. `gpasswd -d user group`
11. Change user Primary group
  - a. `usermod -g groupname/id username`
12. To remove Group
  - a. `groupdel grpname`