1 Create below mentioned directory structure

.

├── linux-intro

│   ├── dev

│   │   ├── git

│   │   ├── jenkins

│   │   ├── maven

│   │   └── vagrant

│   ├── ops

│   │   ├── ansible

│   │   ├── chef

│   │   ├── docker

│   │   └── vagrant

│   └── tex

│   ├── CD

│   └── CI

2. Create two text files in every directory with name of your choice.

Out of two files one file should be hidden file.

Both the files should contain your name and its complete path.

3 Create three groups

- devgr

- opsgr

- devopsgr

4 Create 5 users

dev1

dev2

ops1

ops2

vpdevops

5 Add dev1 and dev2 in devgr group

Add ops1 and ops2 in opsgr group

Add vpdevops in devopsgr group

6. Assign devgr group ownership on dev directory

Assign opsgr group ownership on ops directory

Assign devopsgr group ownership on tex directory

7. Find all the users with nologin shell from passwd file and redirect its output to a file named *nologinusers*. Copy *nologinusers* file to tex directory.

Extract all the UID’s from passwd file and redirect its output to a file name usersuid.

Move that file to ops directoy.

8. Open nologinusers file created in above step. Search for content “nologin” and replace it with “badlogin”. Do the same with sed command.

9. Create symbolic link for directry CI and CD in dev and ops directory.

Example shown below:

In dev directory

LinktoCI -> /home/devops/linux-intro/tex/CI

In ops directory

LinktoCD -> /home/devops/linux-intro/tex/CD

10 Add vpdevops group in sudoers list with full permission

Add Ops1 user in sudoers list with full permission.

Lock user dev2.

Delete user ops2 with its home directory.

11. Create bash script which will take backup of linnux-intro directory and stores it in /home/devops/backup directory. Does below operations.

1. Take two arguments, first argument is the path of directory to be zipped/tarred, second argument will be the name of the zip/tar file.

2. Creates a tar ball with gunzip compression and move the tarred file to /home/devops/backup directory directory.

3. Creates a zip file and move it to /home/devops/backcup directory

4. Displays messages of what it is doing in every step, use echo command.

5. Use # for commenting each and every line in your script.