User Administration:

- 1. Create user account xyz with comment testing
- 2. Change the min number of days to change password to be 3 days
- 3. Change the maximum number of days to change the password after 90 day
- 4. Change the warning before the account disabled

```
Password:
[root@centos8srv ~]# useradd -c "testing" xyz
[root@centos8srv ~]# chage -m 3 xyz
[root@centos8srv ~]# chage -M 90 xyz
[root@centos8srv ~]# chage -W 7 xyz
[root@centos8srv ~]#
```

5. Create a directory called /depts with a sales, hr, and web directory within the /depts directory.

```
[root@centos8srv /]# mkdir /depts
[root@centos8srv /]# cd /depts
[root@centos8srv depts]# mkdir sales hr web
[root@centos8srv depts]# ls
hr sales web
[root@centos8srv depts]#
```

6. Using the chgrp and chown command, set the group ownership of each directory to the group with the matching name.

```
[root@centos8srv /]# chgrp web /depts/web
[root@centos8srv /]# chgrp sales /depts/hr
[root@centos8srv /]# chgrp sales /depts/sales
```

```
rry Chimod --Netp for more information.
[root@centos8srv /]# chmod 770 /depts/sales/ && chmod 770 /depts/hr/ && chmod 770 /depts/web/
[root@centos8srv /]#
```

7. Create 6 users 2 in each group sales, hr and web and give them password

```
useradd: user 'userl' already exists

[root@centos8srv /]# useradd user2

[root@centos8srv /]# useradd user3

[root@centos8srv /]# useradd user4

[root@centos8srv /]# useradd user5

[root@centos8srv /]# useradd user6

[root@centos8srv /]# useradd user7

[root@centos8srv /]# passwd user2

Changing password for user user2.

New password:

BAD PASSWORD: The password is shorter than 8 characters

Retype new password:

passwd: all authentication tokens updated successfully.

[root@centos8srv /]#
```

8. Let the newly created files for each user with the group name and protect it

9. Create a directory with permissions rwxrwx---, grant a second group (sales)

r-x permissions

10. create a file on that directory and grant read and write to a second group

(sales)

```
[user2@centos&srv ~]$ mkdir sales
[user2@centos&srv ~]$ chmod 770 sales
[user2@centos&srv ~]$ chgrp -R sales sales/
```

11.set the the owning group as the owning group of **any newly created** file in

that directory.

12.Grant your colleagues a collective directory called /opt/research, where they

can store generated research results. Only members of group profs and grads

should be able to create new files in the directory, and new file should have

the following properties:

- a. the directory should be owned by root
- b. new files should be group owned by group grads
- c. group profs should automatically have read/write access to new files
- d. group interns should automatically have read only access to new files
- e. other users should not be able to access the directory and its contents at all.

```
[root@centos8srv ~]# groupadd profs
[root@centos8srv ~]# groupadd grads
[root@centos8srv ~]# mkdir /opt/research
[root@centos8srv ~]# chown root:root /opt/research
[root@centos8srv ~]# chmod 770 /opt/research
[root@centos8srv ~]# chgrp grads /opt/research
```

13.Configure sudoers file to allow user3 and user4 to use /usr/sbin/useradd and

/usr/sbin/usermod commands, while allowing user5 only to use fdisk command.

14.Create user account hhh using user3

```
adduser: cannot lock /etc/passwd; try again later.
[user3@centos8srv /]$ adduser hhh
```

15. Try to view the partitions of the system using the account of user 5

```
        Boot
        Start
        End
        Sectors
        Size Id Type

        1 *
        2048 54527999 54525952 266 83 Linux

        2 54528000 62916607 8388608 46 82 Linux swap / Solaris

        3 62916608 83886079 20969472 10G 83 Linux
```

16.use at to execute command tar cvf /home.tar tar five minutes from now 17.use cron command to create backup from /etc directory and compress it with gzip tool every day at mid night and store it in user root's home dir

tar -czvf /root/etc_backup.tar.gz /etc