Open Source OS - LAB 03 – Users, Groups and Permissions Management

LAB Procedures: Take screen shots that show all activities below**:**

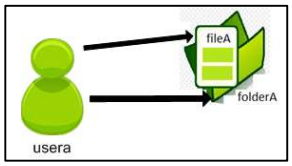
Task 1

1- Login to Linux with the admin user (student)
2- Create user using adduser command and name it usera
(password = 12345, and Full Name: usera)
3- Create user using adduser command and name it userb
(password = 12345, and Full Name: userb)
4- Create a group using groupadd command and name it groupc

5- Add both users to groupC using the commands
sudo usermod -a -G groupc usera
sudo usermod -a -G groupc userb
6- Check that users are created and group is set by the command
cat /etc/group
7- Logout from student

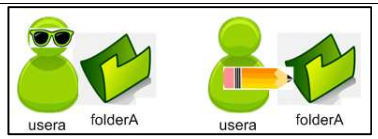
Task 2

1- Login as usera
2- Create a folder folderA using mkdir command
3- list contents



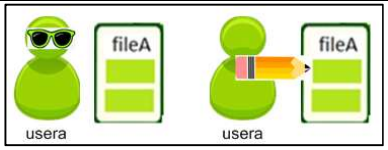
4- usera is handling folderA (usera is the owner which is allowed by default for rwx)

Permission	command	Screen
Execute	cd folderA	
Write	touch fileA	
Read	ls -l	



5- usera is handling fileA (usera is the owner which is allowed by default for rw_ only)

Permission	command	Screen
Write	cat > fileA	
Read	cat fileA	
Execute	(not applicable for text files)	



6- Logout from usera

Task 3

1- Login as userb
2- userb is handling folderA (userb is not the owner which is allowed by default for r_x only)

Permission	command	Screen
Execute	cd /home/usera/folderA	
Write	cp fileA fileA2	
Read	ls -l	

3- userb is handling fileA (userb is not the owner which is allowed by default for read only)

Permission	command	Screen
Write	cat > fileA	
Read	cat fileA	
Execute	(not applicable for text files)	

4- Logout from userb

Task 4

1- Login as student
2- Change the group owner of fileA and folderA to be groupc using chgrp command
3- Change permissions as below for both fileA and folderA using chmod command (you need to evaluate the octal number)

owner permissions	group owner permissions	others permissions
rwx	rwx	r--

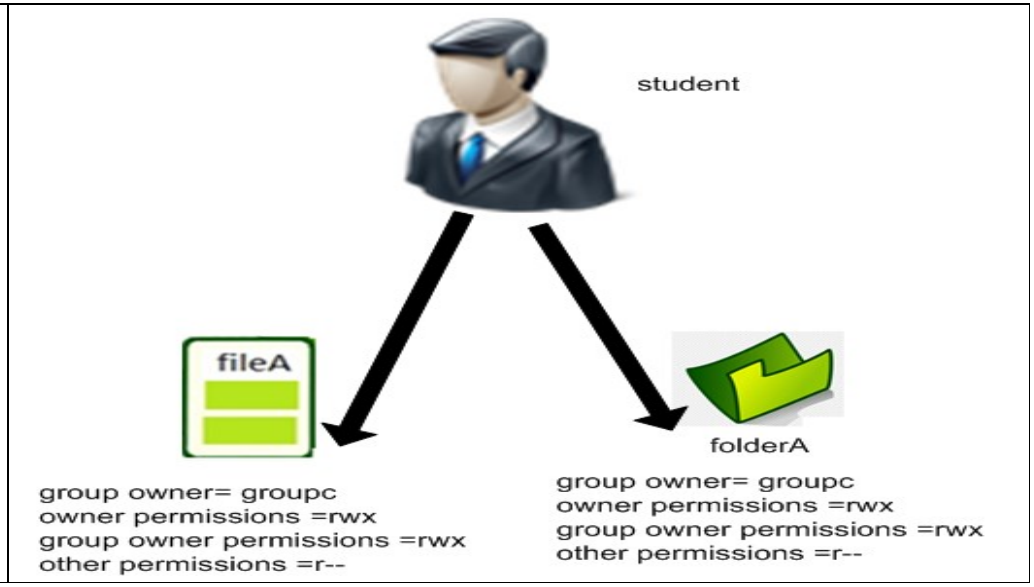
cd /home/usera

sudo chgrp groupc folderA

sudo chmod _____ folderA

ls –l
sudo chgrp groupc folderA/fileA1

sudo chmod _____ folderA/fileA1



4- Logout from student

Task 5

1- Login as userb

2- userb is handling folderA (userb is not the owner which is allowed by default for r_x only)

Permission	command	Screen
Execute	cd /home/usera/folderA	
Write	cp fileA fileA2	
Read	ls -l	

3- userb is handling fileA (userb is not the owner which is allowed by default for read only)

Permission	command	Screen
Write	cat > fileA	
Read	cat fileA	
Execute	(not applicable for text files)	

4- Logout from userb

Task 6

1- Make sure to take all screen shots and then delete both users and group:

2- Login as student

```
groupdel    groupc
userdel   -r   usera
userdel   -r   userb
```