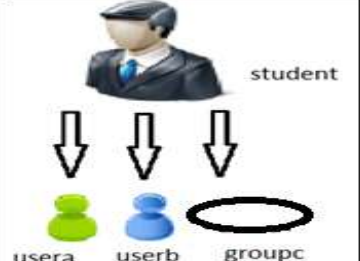
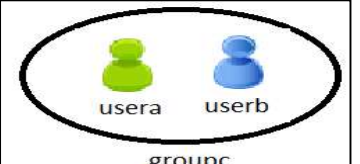


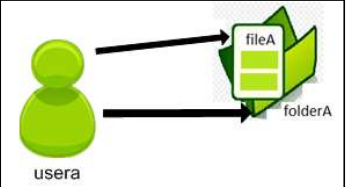
Open Source OS - LAB 03 – Users, Groups and Permissions

LAB Procedures

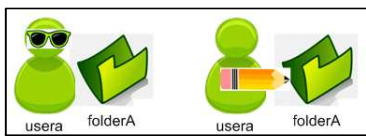
Take screen shots that show all activities below:

<ol style="list-style-type: none"> 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 	
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<ol style="list-style-type: none"> 5- Add both users to groupc using the commands <code>sudo usermod -a -G groupc usera</code> <code>sudo usermod -a -G groupc userb</code> 	
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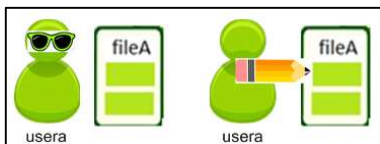
<ol style="list-style-type: none"> 6- Logout and then login as usera 7- Create a folder folderA using mkdir command then list contents of the directory 8- Change directory to folderA using cd command 9- Create a file fileA and the list contents of the directory 	
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10- usera is handling folderA (usera is the owner which is allowed by default for rwx)



Permission	command	Screen
Execute	<code>cd ..</code> <code>cd folderA</code>	
Write	<code>cp fileA fileA1</code>	
Read	<code>ls -l</code>	

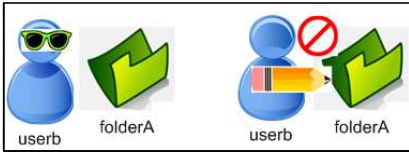
11- usera is handling fileA (usera is the owner which is allowed by default for rw_ only)



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

12- Logout and then login as userb

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



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

14- 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)	

15- Logout and then login as student

16- Change the group owner of fileA and folderA to be groupc using chgrp command

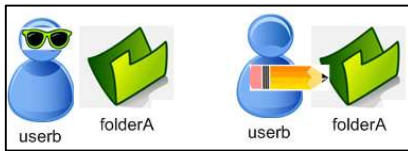
17- Change permissions as below for both fileA and folderA using chmod command (you need to evaluate the octal number)

owner permissions	group owner permissions	others permissions
rwX	rwX	r--

<pre>cd /home/usera sudo chgrp groupc folderA sudo chmod _____ folderA ls -l sudo chgrp groupc folderA/fileA sudo chmod _____ folderA/fileA</pre>	<p>student</p> <p>fileA</p> <p>folderA</p>
	<pre>group owner= groupc owner permissions =rwX group owner permissions =rwX other permissions =r--</pre> <pre>group owner= groupc owner permissions =rwX group owner permissions =rwX other permissions =r--</pre>

18- Logout and then login as userb

19- userb is handling folderA (userb is now member the group owner which is allowed for rwx)



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

20- userb is handling fileA (userb is now member the group owner which is allowed for rwx)



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