UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

IS1104 - Application Laboratory Activity 7 - File Permissions



In this tutorial we are going to learn about file permissions.

Permission types

Read (r)- Read the content of the file or directory..

Write (w)- Write or modify the file or directory.

Execute (x)- Execute a file or view the content in the directory.

Permission groups

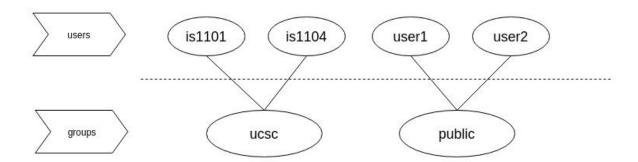
Owner - owner permissions apply only for the owner of the file or the directory.

Group - group permissions apply for the group that has been assigned for the directory or file.

All users - these permissions apply for all the users.

Activity 7

1. Create a user hierarchy as shown in the following figure.



2. Login to the terminal as user "is1104" and change your current working directory to "Documents". Create a directory structure as shown in the following directory tree.

`-- file_permission |-- is1101 | `-- main.c |-- is1104 | `-- laboratory.txt |-- myblog.txt

(include the hello world c program in the main.c file and add some data to the laboratory.txt and myblog.txt files as well.)

- 3. Goto the "file_premission" directory and identify the default permission assigned. (Hint: ls-l)
- 4. Change the permissions of files and directories as shown in the following table.

file/directory	user	group	permissions
myblog.txt	is1104	public	rw- r r
is1104	is1104	ucsc	rwx r-x r-x
laboratory.txt	is1104	ucsc	rw- r r
is1101	is1101	ucsc	rwx r-x r
main.c	is1101	ucsc	rwx r-x r

Answer the following questions and upload your answers to the UGVLE in pdf format.

- 1. What are the default permissions assigned to a directory and a file.
- 2. Who is the owner and the group of main.c file.
- 3. Perform the following tasks as "user1", "is1104" and "is1101" separately and mention in the report whether you execute each step, if not give the reasons.
 - a. Read main.c
 - b. Add print statement to main.c
 - c. Compile and execute main.c
 - d. List directory 'is1104'
 - e. Change the current working directory to 'is1104'
 - f. Create a new directory inside the 'is1104' directory as 'test <username>'