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Lab 3: UNIX Access Control

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Name *

Iftekhar Al-Mahmud

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Task 1: Setting up user space

Task 1.6:

. Use the command "ls" to answer **who is the owner and what is the group of the file Hello?**

owner: student2
group: users

Write all the commands used in Task 1 *

sudo su
useradd -m -G users student1
useradd -m -G users student2
ls -l
cd ..
cd home
cd student2
touch Hello
chgrp users Hello
ls -l
chown student2 Hello
ls -l

Task 2: File and folder permissions

Task 2.2: What are the directory permissions for student1's, and student2's home directories?

drwxr-x---   2 student1 users   4096 Sep 4 14:38 student1
drwxr-x---   2 student2 users   4096 Sep 4 14:52 student2

Task2.4: Can you list the student2's home directory?

Yes

Task2.5: Can you change the working directory to the student2's home directory?

Yes

Task2.8: Can you list or change to the student2's home directory?

we can list but cannot change to the student2's home directory

Task 2.11: Can you list or change to the student2's home directory?

Yes

Task 2.12:

Can you create a new file, Hello2, in the student2's home directory?

No

Task 2.15: Can you create a new file, Hello2, in the student2's home directory?

Yes

Task 2.16: What does it mean if the folder permission is 764?

Owner can read, write and execute while the group can read and write and others can only read

Permission of a symbolic link file

Task 3.5: What are the file permissions of the link_source and source?

lrwxrwxrwx 1 root root   22 Sep 4 16:27 link_source -> /home/test/temp/source
-rw-r--r-- 1 root root 0 Sep 4 16:25 source

Task 3.6: What is the information inside the file link_source?

empty

Default file permission

Task 4.3:

What is the current mask? How is it interpreted?

u=rwx,g=rx,o=rx
The umask works by subtracting the desired permissions from the default permissions.
The umask for permissions u=rwx,g=rx,o=rx is 0022.
The owner can read, write, and execute, while group members and others can only read and execute, they cannot modify or write to the directory

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Task 4.4: What are the permissions of the file testmask1? (hint: ls)

-rw-r--r-- 1 root root   0 Sep 4 16:44 testmask1

Task 4.6:

What are the permissions of the file testmask2?

-rw------- 1 root root   0 Sep 4 16:49 testmask2

Task 4.7:   What is the effect of setting mask value to 0000?

The default permission for every new file created is set to rw- (read and write)

Setuid Bit

Task 5.3: What are the permissions of touch?

Owner can read, write and execute while group and others can only read and execute

Task 5.6: What are the permissions and timestamp of the file Hello? (hint: ls)

-rwx------ 1 student2 users 0 সেপ্টেম্বর 6 01:33 /home/student2/Hello
The permissions are -rwx------
Timestamp is 01:33

Task 5.12: Why is permission denied? Why is it possible to do in the #7?

We changed the touch's permission to 0755 which disabled the setuid so owners permission is not granted, student2 is the owner here. The reason it was possible in #7 is because with 4755 permission touch command is operated with owners permission which basically allowed student1 to modify the file named Hello.