HOMEWORK ASSIGNMENT 02

1.What does the id command do? What does it show?

Returns the uid of the specified username. User ID is 0 for root.

2. If I wanted to see the password information for users, where would I look?

etc/shadow

3.Explain the format of how passwords are stored.As an example, paste the password for your user on your Linux system (You may use a screenshot of your screen when you view your password information).

Hashed password are stored in /etc/shadow.

4.What is the difference between a primary group and a supplementary group?

Each user has a primary group. Primary group has new files created by users. A new created user's primary group is a new created group with the same name as the user. Users can be members of 0 or more supplementary groups. supplementary group membership is used to allow users to have permissions to access files and resources on the system.

5.Draw a UML diagram representing how users and groups are related. For full credit you must include all necessary relationships between the User class and Group classand each class you create must have at least three (3) attributes defined.

6.Explain all ways that a user can gain superuser (root) access without logging into the root user directly from the login screen.

su: su - switches to root user. terminal prompts for root password. after entering this you can access all the privileges of root

sudo: For commands that start with the word sudo, you can only run that command as if you were root. however, the terminal prompts you for your own user password.

7.Write a list of commands to create a new user on your system with the user id "wanda" and the password "V!s!0n". Then create a group named "marvel" and put the user you created into this group. Also put your own user into this group.

8.Remove the user "agatha" from the system and remove the home directory for this user.

sudo userdel agatha

sudo userdel –r agatha

9.Lock the account "pietro".

11.List the users that can view file "starktower".

thor and hulk

12.List the users that can edit the file "evilPlans".

loki

13.How could we change the permissions to allow anyone in the "villains" group to execute the "evilPlans" file?

chmod g+x evilplans

14.List the users that can view a list of all files in the "mcu" directory.

All of them

15.List users that can delete the file "evilPlans"

Hulk and thor

16.What command is used to show the default permissions? Explain the value that is shown when you view the default permissions. (i.e. run the command on your system, state what the value is and explain what the numbers shown mean).

Umask show the default permissions

0 when all privileges are available

The default umask for normal user 002

The default umask for root user 022

For directories, the base permissions is 0777 and for files 0666.

For Directories 777-022=755-------> Pictures ()

drwxr-xr-x ; users read,write and execute.

groups read and execute.

others read and execute.

For files 666-002=664----------> myFile

-rw-rw-r-- ; users and groups read and write but can't execute. Others only read.

17.What is a process?

a program is any executable file

18.What happens to a parent process when a child is executing?

Parent waits to children

19.What happens to a child process when it is completed executing and exits? What is the term used to describe this process?

Zombi process

20.What is the first thing a parent process does upon having control returned and "waking up"?

clean up whatever was from the child. the child cannot clean up its own stuff.