
Linux User and Group Management

Due date

As determined by your lab instructor.

Submission

Complete online quiz.

Resources

- Student laptop computer
- Ubuntu 20.04.2 installed in VMWare Workstation

Procedure

1. Log in to root account with the command: **su - root**
 - a. Create the following account using **useradd** command:

username: **user501**

home directory: **/home/user501home** (*create the user's home directory if not exist*)

login shell: **/bin/bash**

Record the command you use _____

- b. Define password for this user account and record the command you use

- c. Verify that the information of the new user account is recorded in the **/etc/passwd** file by typing commands:
- d. **cat /etc/passwd | grep user501**

- `cat /etc/group | grep user501`

e. What is the initial group of **user501**? _____

2. Delete the user account, **user501**. Ensure the user's home directory is removed, as well as all files stored in it.

a. Record the command you use:

b. Record the commands you use to verify the user account and the user's home directory are deleted.

c. Record the output of the command: `grep user501 /etc/group`

3. Use the **useradd** command to create the following user account:

username: **user502**

home directory: **/home/user502** (*create the user's home directory if not exist*)

initial group: **users**

login shell: **/bin/bash**

expiration date: **2021-12-31**

a. Record the command you use _____

b. Define password for this user account using **passwd** command

c. Record the commands you use to verify the user account is created:

- d. Log in to **user502** with the command: **su - user502**,
and copy **/etc/fstab** to **user502**'s home directory with the following
command:
cp /etc/fstab ~/
- e. List all files in **user502**'s home directory with the command:
ls /home/user502
4. Switch to **root** user account with the command **su - root**, and change the home
directory of **user502** to **/home/user502home**, (Please note that the contents of
the current home directory should be moved to the new home directory, which
should be created if it does not already exist.)
 - a. Record the command you use:

 - b. Log in to **user502** with the command: **su - user502**
 - c. Record the commands you use to verify the user's home directory has changed to
/home/user502home

5. Log in as **user502**, and change the login shell of **user502** to **/bin/sh**
 - a. Record the command you use:

 - b. What is the command you use to verify the login shell has been changed to
/bin/sh?

 - c. Switch to **root**, and change the login shell back to **/bin/bash** for **user502**,
record the command used:

6. a. Change the primary (initial) group of **user502** to **root**, and record the command you use:

- b. Create a new group named **cst8102labs**, and record the command you use:

- c. Let **user502** join the group **cst8102labs** as a supplementary group, and record the command you use:

- d. What is the output of the command: **groups user502**?

7. a. Log in to **user502** with the command **su - user502**, and change **user502**'s group ID (initial group) to **cst8102labs** for the duration of current session, and record the command you use:

- b. What is the output of the command: **groups**?

- c. Log in to **root** and create a new group named **test**
Create a password for the group **test**, and record the command you use:

- d. Log in to **user502** with the command **su - user502**, and change **User502**'s group ID (initial group) to **test** for the duration of current session,
and record the command you use:

- e. What is the output of the command: **groups**?

8. Create the following user accounts using **useradd** commands:

- Mick Jagger - login name: **mickj**
- Jones Brian - login name: **jonesb**
- Keith Richards - login name: **keithr**
- Charlie Watts - login name: **charliew**

a. Create a group named **stones**, record the command used

b. Designate **Mick Jagger** as the group administrator, and record the command you use:

c. Login as **mickj**, and add all the above user accounts to the group **stones**, record the commands you use:

d. What is the output of the command **cat /etc/group | grep stones**?
