
Linux User and Group Management

Due date

- End of the day of Week 10 (Nov.7 to Nov.11) lab class

Evaluation

- 3% of final grade.

Submission

Submit completed lab using **Assignment link** (make sure you choose the right **section number**) on BlackBoard before due date.

Materials

- 1) Student laptop computer
- 2) Ubuntu 14.04.5 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: **user101**

home directory: **/home/user101home** (*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:

- **cat /etc/passwd | grep user101**
- **cat /etc/group | grep user101**

- d. What is the initial group of **user101**? _____

2. Delete the user account, **user101**. Make sure 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 user101 /etc/group**

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

username: **user102**

home directory: **/home/user102** (*create the user's home directory if not exist*)

initial group: **users**

login shell: **/bin/bash**

expiration date: **2016-12-31**

- 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 **user102** with the command: **su - user102**,
and copy **/etc/fstab** to **user102**'s home directory with the following command:
cp /etc/fstab ~/

- e. List all files in **user102**'s home directory with the command:
ls /home/user102

4. Switch to **root** user account with the command **su - root**, and change the home directory of **user102** to **/home/user102home**, (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 **user102** with the command: **su - user102**

- c. Record the commands you use to verify the user's home directory has changed to **/home/user102home**

5. Log in as **user102**, and change the login shell of **user102** 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 **user102**, record the command used:

6. a. Change the primary (initial) group of **user102** to **root**, and record the command you use:

- b. Create a new group named **cst8102**, and record the command you use:

- c. Let **user102** join the group **cst8102** as a supplementary group, and record the command you use:

- d. What is the output of the command: **groups user102**?

7. a. Log in to **user102** with the command **su - user102**, and change **user102**'s group ID (initial group) to **cst8102** 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 **labs**
d. Create a password for the group **labs**, and record the command you use:

- e. Log in to **user102** with the command **su - user102**, and change **User102**'s group ID (initial group) to **labs** for the duration of current session, and record the command you use:

f. 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**?
