**Practice: Users and Groups**

1. Create the users Serena Williams, Venus Williams and Justine Henin, all of them

with password set to stargate, with username (lower case!) as their first name, and

their full name in the comment. Verify that the users and their home directory are

properly created.

Ans: sudo useradd -m -s /bin/bash -c "stargate" serenawilliams

sudo useradd -m -s /bin/bash -c "stargate" venuswilliams

sudo useradd -m -s /bin/bash -c "stargate" justinehenine

sudo passwd serenawilliams

sudo passwd venuswilliams

sudo passwd justinehenine

2. Create a user called **kornuser**, give him the Korn shell (/bin/ksh) as his default

shell. Log on with this user (on a command line or in a tty).

Ans: sudo useradd -m -s /bin/ksh -c "Korn user" kornuser

sudo passwd

3. Create a user named **einstime** without home directory, give him **/bin/date** as his

default logon shell. What happens when you log on with this user ? Can you think of

a useful real world example for changing a user's login shell to an application ?

Ans: sudo useradd -m -s /bin/ksh -s “einstine” einstime

The old username didn’t change to the new user it was assigned to

4. Try the commands who, whoami, who am i, w, id, echo $USER $UID .

5a. Lock the **venus** user account with usermod.

5b. Use **passwd -d** to disable the serena password. Verify the serena line in **/etc/**

**shadow** before and after disabling.

5c. What is the difference between locking a user account and disabling a user

account's password ?

Ans:5a. sudo usermod -L venuswilliams

cat /etc/shadow | grep ^venuswilliams

5b. Before; :19038:0:99999:7:::

After; !:19038:0:99999:7:::

5c. Disabled indicates an account has been administratively or automatically disabled for some reason. Usually some action is required to release it. Locked indicates an account has been automatically suspended due to invalid login attempts.

6. As **root** change the password of **einstime** to stargate.

Ans: Sudo passwd einstime

Stargate

7. Now try changing the password of serena to serena as serena.

Ans: Sudo passwd serenawilliams

Serena

8. Make sure every new user needs to change his password every 10 days.

Ans: acecode1@ubuntu:~$ sudo chage -M "10" serenawilliams

acecode1@ubuntu:~$ sudo chage -M "10" venuswilliams

acecode1@ubuntu:~$ sudo chage -M "10" justinehenine

acecode1@ubuntu:~$ sudo chage -M "10" einstime

acecode1@ubuntu:~$ sudo chage -M "10" kornuser

9. Set the warning number of days to four for the kornuser.

Ans: acecode1@ubuntu:~$ sudo chage -W 2 kornuser

10a. Set the password of two separate users to stargate. Look at the encrypted

stargate's in /etc/shadow and explain.

Ans: the encrypted passwords are both same.

10b. Take a backup as root of /etc/shadow. Use vi to copy an encrypted stargate to

another user. Can this other user now log on with stargate as a password ?

Ans:

11. Put a file in the skeleton directory and check whether it is copied to user's home

directory. When is the skeleton directory copied ?

12. Why use **vipw** instead of **vi** ? What could be the problem when using **vi** or **vim** ?

13. Use chsh to list all shells, and compare to cat /etc/shells. Change your login shell

to the Korn shell, log out and back in. Now change back to bash.

14. Which useradd option allows you to name a home directory ?

Ans: Useradd -d

15. How can you see whether the password of user harry is locked or unlocked ? Give a solution with grep and a solution with passwd.

Ans:cat /etc/passwd | grep

16. Create the groups tennis, football and sports.

Ans: sudo groupadd football

Sudo groupadd tennis

Sudo groupadd sports

17. In one command, make venus a member of tennis and sports.

Ans: sudo usermod -a -G tennis venuswilliams

18. Rename the football group to foot.

Ans: sudo groupmod -n foot football

19. Use vi to add serena to the tennis group.

Ans:sudo vi /etc/group,then add the user to tennis

20. Use the id command to verify that serena is a member of tennis.

Ans: sudo id serenawilliams