

# Exercises about users and groups management

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```
root@carlosmrw1e2122-VirtualBox: /
carlosmrw1e2122@carlosmrw1e2122-VirtualBox:~$ sudo su
[sudo] password for carlosmrw1e2122:
root@carlosmrw1e2122-VirtualBox:/home/carlosmrw1e2122# cd /
root@carlosmrw1e2122-VirtualBox:/#
```

1. Add two new groups named “daw” and “crey”
2. Change “daw” and “crey” GIDS to 2001 and 2002, respectively.
3. Create a new group called “profesores” with GID of 2000. Then, modify the group name to teachers
4. Verify that you have correctly created the groups named “daw”, “crey” and “teachers”

```
root@carlosmrw1e2122-VirtualBox:/# groupadd daw
root@carlosmrw1e2122-VirtualBox:/# groupadd crey
root@carlosmrw1e2122-VirtualBox:/# groupmod -g 2001 daw
groupmod: invalid group ID '2001daw'
root@carlosmrw1e2122-VirtualBox:/# groupmod -g 2001 daw
root@carlosmrw1e2122-VirtualBox:/# groupmod -g 2002 crey
root@carlosmrw1e2122-VirtualBox:/# groupadd -g 2000 profesores
root@carlosmrw1e2122-VirtualBox:/# groupmod -n teachers profesores
root@carlosmrw1e2122-VirtualBox:/# cat /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog,carlosmrw1e2122
tty:x:5:syslog
disk:x:6:
lp:x:7:
mail:x:8:
news:x:9:
uucp:x:10:
man:x:12:
proxy:x:13:
rdma:x:133:
daw:x:2001:
crey:x:2002:
teachers:x:2000:
root@carlosmrw1e2122-VirtualBox:/#
```

5. Add a new user named “john” whose primary group is “crey”. Has the home directory been created with the default command?
6. Add a new user named “mary”, whose primary group is “daw” and the home directory /home/mary
7. Add a new user named “martha”, whose primary group is “teachers”, the home directory /home/martha and belonging to the secondary group “crey”
8. Add the following names to the users that you have just created: a. John= “John Doe” b. Mary = “Mary Williams” c. Martha = “Martha Jones”
9. How could you check that you have created all the users with the right primary groups?
10. Verify if crey and daw groups have martha as a member Can you log in with any of the users you have created?
11. Set the password “martha22” for the user “martha”

```
root@carlosmrdw1e2122-VirtualBox: /
root@carlosmrdw1e2122-VirtualBox: /# useradd -g 2002 john
root@carlosmrdw1e2122-VirtualBox: /# useradd -g 2001 -d /home/mary mary
root@carlosmrdw1e2122-VirtualBox: /# useradd -g 2000 -G 2002 -d /home/martha martha
root@carlosmrdw1e2122-VirtualBox: /#
root@carlosmrdw1e2122-VirtualBox: /# usermod -c "John Doe" john
root@carlosmrdw1e2122-VirtualBox: /# usermod -c "Mary Williams" mary
root@carlosmrdw1e2122-VirtualBox: /# usermod -c "Martha Jones" martha
root@carlosmrdw1e2122-VirtualBox: /# id john
uid=1001(john) gid=2002(crey) groups=2002(crey)
root@carlosmrdw1e2122-VirtualBox: /# id mary
uid=1002(mary) gid=2001(daw) groups=2001(daw)
root@carlosmrdw1e2122-VirtualBox: /# id martha
uid=1003(martha) gid=2000(teachers) groups=2000(teachers),2002(crey)
root@carlosmrdw1e2122-VirtualBox: /# groups martha
martha : teachers crey
root@carlosmrdw1e2122-VirtualBox: /# --No password, no login--
```

12. Display on the shell prompt the groups to which Martha belongs
13. Create a directory named “teachers” in “/home”. Then, assign the directory “/home/teachers” to the user martha (you can do all the steps typing just one command).  
Linux Management Users and groups
14. Now, log in as user “martha”. Run the command “cd \$SHOME” and check that the home directory is “/home/teachers”
15. Go back to the root shell

```
root@carlosmrdw1e2122-VirtualBox: /
root@carlosmrdw1e2122-VirtualBox: /# passwd martha
New password:
Retype new password:
passwd: password updated successfully
root@carlosmrdw1e2122-VirtualBox: /# grep martha /etc/group
crey:x:2002:martha
root@carlosmrdw1e2122-VirtualBox: /# usermod -d /home/teachers -m martha
root@carlosmrdw1e2122-VirtualBox: /# login martha
Password:
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.11.0-38-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

177 updates can be installed immediately.
```

16. Change the shell of the user named “john” to “sh”
17. Add the user “martha” to the secondary group “daw” without removing the already assigned secondary groups.
18. Run a command to print the following information for each user User Primary group  
Secondary groups john crey mary daw martha teachers crey, daw
19. Delete all the groups you have created. Could you delete them? Why?
20. Delete all the users you have created, including the files and directories inside the home.

```
root@carlosmrdw1e2122-VirtualBox: /
root@carlosmrdw1e2122-VirtualBox:/# usermod -s /bin/sh john
usermod: no changes
root@carlosmrdw1e2122-VirtualBox:/# usermod -G -a daw martha
usermod: group '-a' does not exist
root@carlosmrdw1e2122-VirtualBox:/# usermod -G daw -a martha
root@carlosmrdw1e2122-VirtualBox:/# id john; id mary; id martha
uid=1001(john) gid=2002(crey) groups=2002(crey)
uid=1002(mary) gid=2001(daw) groups=2001(daw)
uid=1003(martha) gid=2000(teachers) groups=2000(teachers),2001(daw),2002(crey)
root@carlosmrdw1e2122-VirtualBox:/# groudel daw

Command 'groudel' not found, did you mean:

  command 'groupdel' from deb passwd (1:4.8.1-1ubuntu5.20.04.1)

Try: apt install <deb name>

root@carlosmrdw1e2122-VirtualBox:/# groupdelda
groupdelda: command not found
root@carlosmrdw1e2122-VirtualBox:/# groupdel daw
groupdel: cannot remove the primary group of user 'mary'
root@carlosmrdw1e2122-VirtualBox:/# --- All groups are primary group of users, cant delete ---
```

21. Try again to delete the groups

```
root@carlosmrdw1e2122-VirtualBox: /
root@carlosmrdw1e2122-VirtualBox:/# userdel -r john
userdel: john mail spool (/var/mail/john) not found
userdel: john home directory (/home/john) not found
root@carlosmrdw1e2122-VirtualBox:/# userdel -r mary
userdel: mary mail spool (/var/mail/mary) not found
root@carlosmrdw1e2122-VirtualBox:/# userdel -r martha
userdel: martha mail spool (/var/mail/martha) not found
root@carlosmrdw1e2122-VirtualBox:/# groupdel daw
root@carlosmrdw1e2122-VirtualBox:/# groupdel crey
root@carlosmrdw1e2122-VirtualBox:/# groupdel teachers
root@carlosmrdw1e2122-VirtualBox:/#
```