

=====

1-2 Create a user account with the following attribute

```
sok /home 13:20 sudo adduser -c "Islam Askar" islam
adduser: `Islam Askar' does not exist. Using defaults.
Adding user `islam' ...
Adding new group `islam' (1002) ...
Adding new user `islam' (1002) with group `islam' ...
Creating home directory `/home/islam' ...
Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
Changing the user information for islam
Enter the new value, or press ENTER for the default
    Full Name []: Islam Askar
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] y

sok /home 13:21 sudo adduser -c "Bad User" baduser
adduser: `Bad User' does not exist. Using defaults.
Adding user `baduser' ...
Adding new group `baduser' (1003) ...
Adding new user `baduser' (1003) with group `baduser' ...
Creating home directory `/home/baduser' ...
Copying files from `/etc/skel' ...
```

3-

```
sok ~ 13:12 sudo addgroup --gid 30000 pgroup
addgroup: `pgroup' (GID 30000) ...
```

4 -

```
sok ~ 13:13 sudo addgroup badgroup
Adding group `badgroup' (GID 1004) ...
Done.
```

5-Add islam user to the pgroup group as a supplementary group

```
sok ~ 13:13 sudo usermod -aG pgroup islam
```

6-Modify the password of islam's account to password

```
sok /home 13:26 sudo passwd islam
New password:
BAD PASSWORD: The password fails the dictionary check - it is too commonly used or a dictionary word
Retype new password:
passwd: password updated successfully
```

7- Modify islam's account so the password expires after 30 days

```
sok /home 13:26 sudo chage -M 30 islam
```

```
sok /home 13:32
```

```
sok /home 13:32 sudo chage -l islam
Last password change           : Dec 23, 2023
Password expires                : Jan 22, 2024
Password inactive               : never
Account expires                 : never
Minimum number of days between password change : 0
Maximum number of days between password change : 30
Number of days of warning before password expires : 7
```

```
sok /home 13:33
```

8-Lock bad user account so he can't log in

```
sok /home 13:33 sudo usermod -L baduser
```

```
sok /home 13:36 sudo
sudo          sudoedit          sudo_logsrvd  sudoreplay   sudo_sendlog
```

```
sok /home 13:36 su - baduser
```

```
Password:
su: Authentication failure
```

```
sok /home 13:36 sudo usermod -U baduser
```

```
sok /home 13:36 su - baduser
```

```
Password:
baduser@sok-HP-Compaq-Pro-6300-MT:~$
```

9.Delete bad user account

```
sok /home >> 13:38 sudo userdel -r baduser
userdel: baduser mail spool (/var/mail/baduser) not found

sok /home >> 13:38 |
```

10. Delete the supplementary group called badgroup.

```
sok ~ >> 13:42 sudo groupdel badgroup

sok ~ >> 13:43 |
```

13-Create a folder called myteam in your home directory and change its permissions to read only for the owner.

```
sok ~ >> 13:49 sudo chmod a= ~/myteam

sok ~ >> 13:50 ls -l myteam/
ls: cannot open directory 'myteam/': Permission denied

sok ~ >> 13:50 sudo chmod u=r ~/myteam

sok ~ >> 13:50 ls -l myteam/
ls: cannot access 'myteam/.': Permission denied
ls: cannot access 'myteam/..': Permission denied
total 0
d????????? ? ? ? ?      ? ./
d????????? ? ? ? ?      ? ../

sok ~ >> 13:50 |
```

14-Log out and log in by another user

```
sok ~ >> 13:50 su - islam
Password:
islam@sok-HP-Compaq-Pro-6300-MT:~$ |
```

15-Try to access (by cd command) the folder (myteam)

```
sok ~ 13:50 su - islam
Password:
islam@sok-HP-Compaq-Pro-6300-MT:~$ pwd
/home/islam
islam@sok-HP-Compaq-Pro-6300-MT:~$ cd /home/sok/
-bash: cd: /home/sok/: Permission denied
islam@sok-HP-Compaq-Pro-6300-MT:~$ su - sok
Password:

sok ~ 13:53 cd my
mybash/ myteam/

sok ~ 13:53 cd myteam/
-bash: cd: myteam/: Permission denied

sok ~ 13:53 |
```

```
sok ~ 13:55 sudo chmod u+x ~/myteam

sok ~ 13:55 cd myteam/

sok ~/myteam 13:55 |
```

16. Using the command Line

a-

```
sok ~ 14:03 vim oldpasswd

sok ~ 14:04 sudo chmod u=rwx,g=wx,o=x ~/oldpasswd

sok ~ 14:03 vim oldpasswd

sok ~ 14:04 umask
0002

sok ~ 14:06 chmod 731 /home/sok/oldpasswd

sok ~ 14:07
```

b-

```
sok ~ 14:40 umask 046
sok ~ 14:40 umask -S
u=rwx,g=wx,o=x
sok ~ 14:40
```

c- For files its 666 and Dirs is 777 ==> that means the dir got the x permission and the file is not.

d-

```
sok ~ 14:49 umask 777
sok ~ 14:50 umask -S
u=,g=,o=
sok ~ 14:50 ls -l all/
ls: cannot open directory 'all/': Permission denied
sok ~ 14:50 ls -l tes
test/      test.cpp
sok ~ 14:50 ls -l test
ls: cannot open directory 'test': Permission denied
sok ~ 14:50
```

17 -What are the minimum permission needed for:

For	Source Permissions	Target Permissions
Copy a directory	rx	wX
Copy a file	r	wX
Delete a file	w	w
Change to a directory	x	
List a directory content	r	
View a file content	r	
Modify a file content	w	

18-create a file with permission 444.

```
sok ~ > 14:52 touch file
sok ~ > 14:57 chmod 444 fi
file file.txt first
sok ~ > 14:57 chmod 444 file
sok ~ > 14:58 ls -l fil
file file.txt
sok ~ > 14:58 ls -l file
-r--r--r-- 1 sok sok 0 Dec 23 14:57 file
sok ~ > 14:58 vim
vim vim.basic vimdiff vim.tiny vimtutor
sok ~ > 14:58 vim fil
file file.txt
sok ~ > 14:58 vim file
sok ~ > 14:58
```

19- x for files make it executable
x for dirs allow to cd into it also cp mv rm

