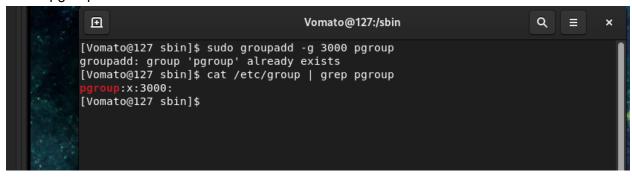## 1- create new user islam

```
exit
[Vomato@127 sbin]$ sudo useradd islam -c "Islam Askar"
[sudo] password for Vomato:
[Vomato@127 sbin]$ sudo passwd islam
Changing password for user islam.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[Vomato@127 sbin]$ cat /etc/passwd | grep islam
islam:x:2003:2003:Islam Askar:/home/islam:/bin/bash
[Vomato@127 sbin]$
```

2- add bad user

```
islam:x:2003:2003:Islam Askar:/home/islam:/bin/bash
[Vomato@127 sbin]$ sudo useradd baduser -c "Bad User"
[Vomato@127 sbin]$ sudo passwd baduser
Changing password for user baduser.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[Vomato@127 sbin]$ cat /etc/passwd | grep baduser
baduser:x:2004:2004:Bad User:/home/baduser:/bin/bash
[Vomato@127 sbin]$
```

3- add pgroup

```
Vomato@127:/sbin                                    Q  ≡  ✕

[Vomato@127 sbin]$ sudo groupadd -g 3000 pgroup
groupadd: group 'pgroup' already exists
[Vomato@127 sbin]$ cat /etc/group | grep pgroup
pgroup:x:3000:
[Vomato@127 sbin]$
```

4- add badgroup

```
[Vomato@127 sbin]$ cat /etc/group | grep pgroup
pgroup:x:3000:
[Vomato@127 sbin]$ man groupadd
[Vomato@127 sbin]$ sudo groupadd badgroup
[sudo] password for Vomato:
[Vomato@127 sbin]$ cat /etc/group | grep badgroup
badgroup:x:3001:
[Vomato@127 sbin]$
```

5- add islam to the pgroup as his supplementary group

```
[Vomato@127 ~]$ sudo usermod -aG 3000 islam
```

```
[Vomato@127 ~]$ cat /etc/group | grep pgroup
pgroup:x:3000:islam
[Vomato@127 ~]$
```

```
[Vomato@127 ~]$ su - islam
Password:
[islam@127 ~]$ id
uid=2003(islam) gid=2003(islam) groups=2003(islam),3000(pgroup)
[islam@127 ~]$
```

6- change islam's passwd

```
pgroup:x:3000:islam
[Vomato@127 ~]$ sudo passwd islam
[sudo] password for Vomato:
Changing password for user islam.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: all authentication tokens updated successfully.
[Vomato@127 ~]$ s
```

7- set islam's passwd to expire after 30 days

```
Number of days of warning before password expires     : 7
[Vomato@127 ~]$ sudo chage -M 30 islam
[Vomato@127 ~]$ sudo chage -l islam
Last password change                                  : Dec 13, 2024
Password expires                                      : Jan 12, 2025
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
[Vomato@127 ~]$
```

8- lock bad user out and expire his account after 1 day (was specified in the man)

```
[Vomato@127 ~]$ sudo usermod -L baduser
[Vomato@127 ~]$ sudo chage -l baduser
Last password change                                   : Dec 13, 2024
Password expires                                       : never
Password inactive                                      : never
Account expires                                        : never
Minimum number of days between password change         : 0
Maximum number of days between password change         : 99999
Number of days of warning before password expires      : 7
[Vomato@127 ~]$ su - baduser
Password:
su: Authentication failure
[Vomato@127 ~]$ su - baduser
Password:
su: Authentication failure
[Vomato@127 ~]$ sudo chage -E 1 baduser
[Vomato@127 ~]$ sudo chage -l baduser
Last password change                                   : Dec 13, 2024
Password expires                                       : never
Password inactive                                      : never
Account expires                                        : Jan 02, 1970
Minimum number of days between password change         : 0
Maximum number of days between password change         : 99999
Number of days of warning before password expires      : 7
[Vomato@127 ~]$
```

Using only -L would lock him to not using his passwd but to disable the account set his expiry date to 1

9- delete baduser

```
[Vomato@127 ~]$ cat /etc/passwd | grep baduser
baduser:x:2004:2004:Bad User:/home/baduser:/bin/bash
[Vomato@127 ~]$ sudo userdel -r baduser
[Vomato@127 ~]$ cat /etc/passwd | grep baduser
[Vomato@127 ~]$
```

Baduser isnt showing in the /etc/passwd afte deleting him

10-delete badgroup

```
[Vomato@127 ~]$ cat /etc/group | grep badgroup
badgroup:x:3001:
[Vomato@127 ~]$ sudo groupdel badgroup
[Vomato@127 ~]$ cat /etc/group | grep badgroup
[Vomato@127 ~]$
```

Same as badgroup isnt showing in /etc/group after deleting it