UNIVERSIDAD AUTONOMA DEL ESTADO DE MEXICO



TRABAJO EN CLASE (EXAMEN)

SISTEMAS OPERATIVOS

7MO SEMESTRE

02/10/2025

Evidencias:

```
input:x:995:
sgx:x:994:
kvm:x:993:
render:x:992:
messagebus:x:101:
syslog:x:102:
systemd-resolve:x:991:
uuidd:x:103:
_ssh:x:104:
landscape:x:105:
polkitd:x:999:
admin:x:106:
netdev:x:107:
karli:x:1000:
rdma:x:108:
plocate:x:109:
Alvarez:x:1011:
Lilia:x:1001:
karli@KARLA:-$ sudo adduser alfredo
info: Adding user 'alfredo' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group 'alfredo' (1002) with group 'alfredo (1002)' ...
info: Creating home directory '/home/alfredo' ...
info: Copying files from '/etc/skel' ...
New password:
Retype new password updated successfully
Changing the user information for alfredo
Enter the new value, or press ENTER for the default
Full Name []: Alfredo Herrera Rodriguez
Room Number []: 55784217322
Work Phone []: 13653286
Other []: aherrerare012@alumno.uaemex.mx
Is the information correct? [V/n] y
info: Adding new user 'alfredo' to supplemental / extra groups 'users' ...
info: Adding user 'alfredo' to group 'users' ...
karli@KARLA:-$
```

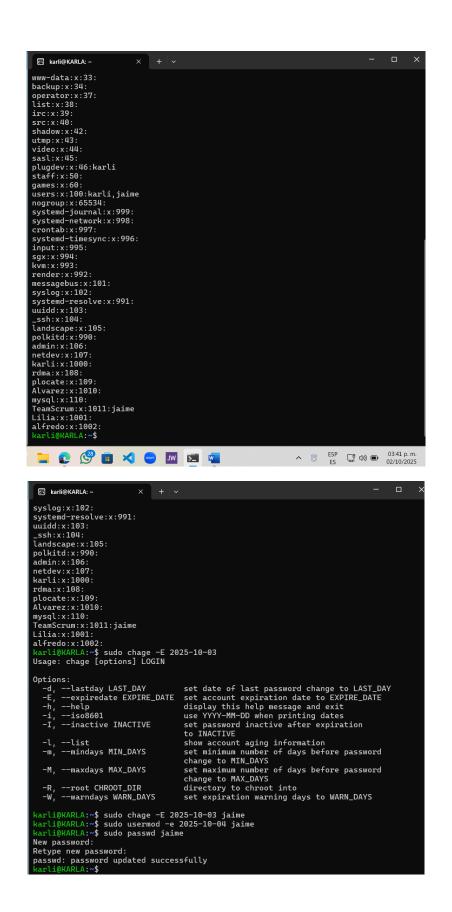
```
karli@KARLA: ~
 dip:x:30:karli
www-data:x:33:
backup:x:34:
operator:x:37:
list:x:38:
src:x:40:
 shadow:x:42:
utmp:x:43:
video:x:44:
 sasl:x:45:
plugdev:x:46:karli
staff:x:50:
games:x:60:
users:x:100:karli
nogroup:x:65534:
systemd-journal:x:999:
systemd-network:x:998:
crontab:x:997:
systemd-timesync:x:996:
input:x:995:
sgx:x:994:
kvm:x:993:
render:x:992:
messagebus:x:101:
syslog:x:102:
systemd-resolve:x:991:
uuidd:x:103:
_ssh:x:104:
landscape:x:105:
polkitd:x:990:
admin:x:106:
netdev:x:107:
karli:x:1000:
rdma:x:108:
plocate:x:109:
Alvarez:x:1010:
 mysql:x:110:
TeamScrum:x:1011:
Lilia:x:1001:
    arli@KARLA:~$
```

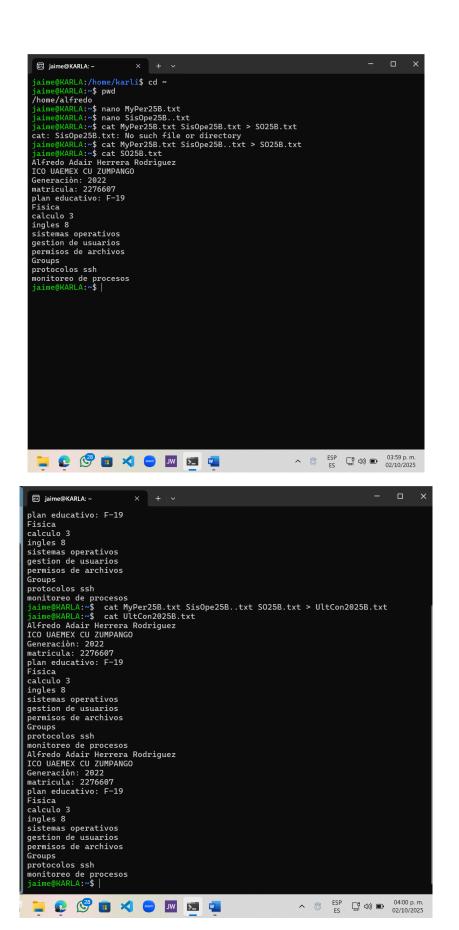
```
karl@MARLA:-$ sudo cat /etc/passwd
root:x6:0:Karla Zaret Varquez Ledo,Arboloda los Sauces 2 #92,5617687168,591 690 3
878:/root:/bin/bash
daemon:x1:1:daemon:/usr/sbin/nologin
bin:x2:2:bin:/bin:/usr/sbin/nologin
sync:x1:65531:sys:/dev:/usr/sbin/nologin
sync:x1:65531:sys:/dev:/usr/sbin/nologin
man:x6:12:man:/var/cache/man:/usr/sbin/nologin
man:x6:12:man:/var/cache/man:/usr/sbin/nologin
man:x6:12:man:/var/spool/lpd:/usr/sbin/nologin
man:x6:10:man:/var/spool/news:/usr/sbin/nologin
mail:x8:8:mail:/var/mail:/usr/sbin/nologin
mucp:x10:10:uucp:/var/spool/news:/usr/sbin/nologin
proxy:x13:13:proxy:/bin:/usr/sbin/nologin
proxy:x13:13:proxy:/bin:/usr/sbin/nologin
mali:x8:33:33:waw-data:/var/war/spool/itsr/sbin/nologin
backup:x33:33:waw-data:/var/war/spool/itsr/sys/sbin/nologin
nbackup:x33:33:waw-data:/var/backups:/usr/sbin/nologin
nbackup:x33:33:waw-data:/var/backups:/usr/sbin/nologin
nbackup:x33:33:waw-data:/var/backups:/usr/sbin/nologin
nbackup:x33:33:waw-data:/var/backups:/usr/sbin/nologin
nbackup:x33:33:waw-data:/var/backups:/usr/sbin/nologin
nbackup:x33:33:waw-data:/var/backups:/usr/sbin/nologin
nbackup:x33:33:waw-data:/var/backups:/usr/sbin/nologin
systend-tenesync:x996:996:systend Tine Synchronization:/:/usr/sbin/nologin
systend-tinesync:x996:996:systend Hetwork Management:/:/usr/sbin/nologin
dbcpcd:x:180:16534::/bin/baeh
messagebus:x:101:101::/nonexistent:/usr/sbin/nologin
systend-tenesync:x996:996:systend Tine Synchronization:/:/usr/sbin/nologin
systend-tenesync:x996:996:systend Hetwork Management:/:/usr/sbin/nologin
systend-tenesync:x996:996:systend Hetwork Management:/:/usr/sbin/nologin
systend-tenesync:x996:996:systend Tine Synchronization:/:/usr/sbin/nologin
systend-tenesync:x996:996:systend Hetwork Management:/:/usr/sbin/nologin
systend-tenesync:x996:996:systend Tine Synchronization:/:/usr/sbin/nologin
systend-tenesync:x996:996:systend Hetwork Management:/:/usr/sbin/nologin
systend-tenesync:x996:996:systend Tine Synchronization:/:/usr/sbin/nologin
systend-tenesync:x996:996:systend Tine Synchronization:/:/usr/s
```

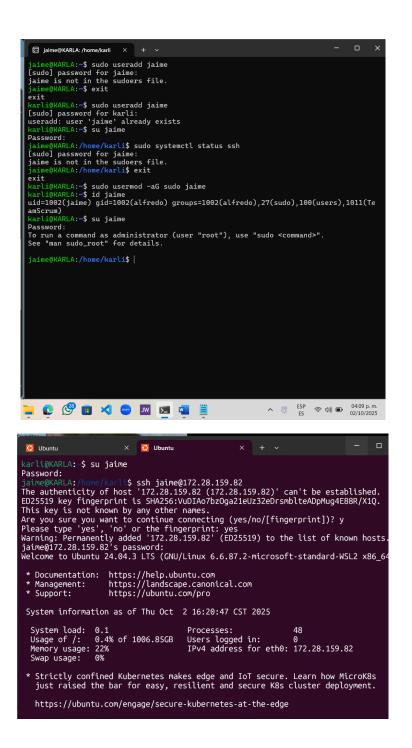
```
Emigraria-
Emigra
```

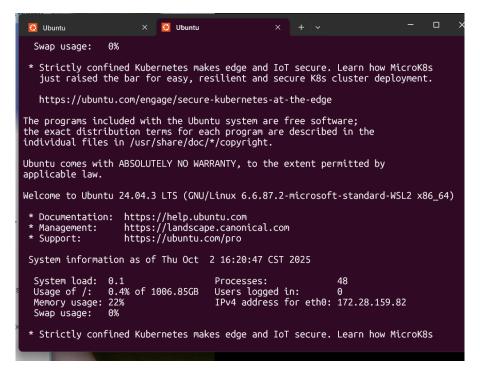
```
dip:x:30:karli
www-data:x:33:
backup:x:34:
operator:x:37:
list:x:38:
irc:x:39:
src:x:40:
shadow:x:42:
utmp:x:43:
video:x:44:
sasl:x:45:
plugdev:x:46:karli
staff:x:56:
games:x:66:
users:x:100:karli
nogroup:x:65534:
systemd-journal:x:999:
systemd-network:x:998:
crontab:x:997:
systemd-timesync:x:996:
input:x:995:
sgx:x:994:
kvm:x:993:
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landscape:x:105:
polkitd:x:990:
admin:x:106:
netdev:x:107:
karli:x:1000:
rdma:x:108:
plocate:x:109:
Alvarez:x:1101:
mysql:x:110
TeamScrum:x:1011:
Lilia:x:1001:
karligNARLA1:~$
```

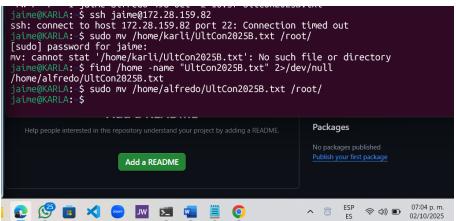
```
input:x:995:
sgx:x:994:
kvm:x:993:
render:x:992:
messagebus:x:101:
syslog:x:102:
systemd-resolve:x:991:
uuidd:x:103:
_ssh:x:104:
landscape:x:106:
polkitd:x:990:
admin:x:106:
netdev:x:107:
karli:x:1000:
rdma:x:108:
plocate:x:109:
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Lilia:x:1001:
reamScrum:x:1011:
Lilia:x:1001:
karli@KARLA:-$ sudo adduser alfredo
info: Addding user 'alfredo' (1002) with
group 'alfredo (1002) with
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group 'alfredo (1002) with
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fro: Creating home directory '/home/alfredo' ...
info: Copying files from '/etc/skel' ...
New password:
Retype new password:
passwof: password updated successfully
Changing the user information for alfredo
Enter the new value, or press ENTER for the default
Full Name []: Alfredo Herrera Rodriguez
Room Number []: 5578421732
Work Phone []: 130653286
Other []: aherrerare012@alumno.uaemex.mx
Is the information correct? [Y/n] y
info: Adding new user 'alfredo' to supplemental / extra groups 'users' ...
info: Adding user 'alfredo' to group 'users' ...
karli@KARLA:-$
```







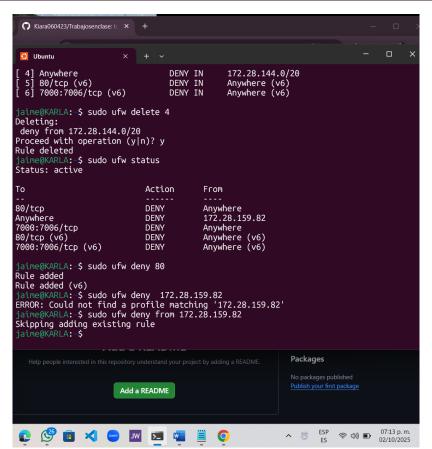


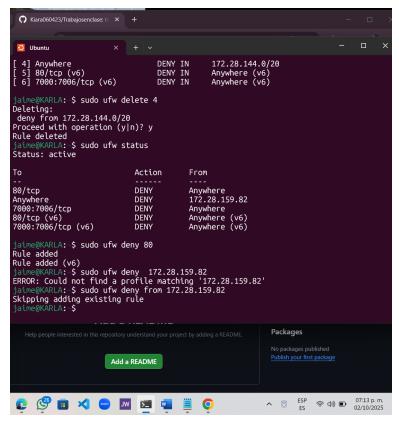


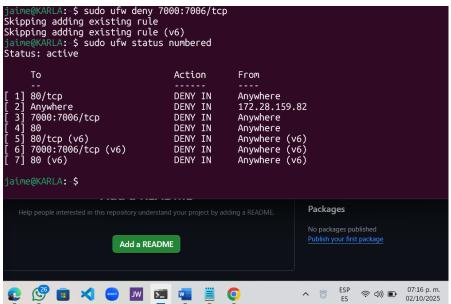
```
jaime@KARLA:~$ pwd
/home/alfredo
jaime@KARLA:~$ ls -l
total 12
-rw-r--r-- 1 jaime alfredo 164 Oct  2 15:54 MyPer25B.txt
-rw-r--r-- 1 jaime alfredo 249 Oct  2 15:58 SO25B.txt
-rw-r--r-- 1 jaime alfredo 85 Oct  2 15:57 SisOpe25B..txt
jaime@KARLA:~$ ls -la
total 48
drwxr-x--- 5 jaime alfredo 4096 Oct  2 19:04
drwxr-xr-x 9 root root  4096 Oct  2 18:53 ...
-rw------ 1 jaime alfredo 914 Oct  2 18:53 ...
-rw-r---- 1 jaime alfredo 220 Oct  2 15:31 .bash_logout
-rw-r---- 1 jaime alfredo 3771 Oct  2 15:31 .bashrc
drwx----- 2 jaime alfredo 4096 Oct  2 16:20 .cache
drwxr-xr-x 3 jaime alfredo 4096 Oct  2 15:51 .local
-rw-r---- 1 jaime alfredo 4096 Oct  2 15:31 .profile
drwx----- 2 jaime alfredo 4096 Oct  2 15:31 .profile
drwx----- 1 jaime alfredo 4096 Oct  2 16:20 .ssh
-rw-r---- 1 jaime alfredo 4096 Oct  2 16:20 .ssh
-rw-r---- 1 jaime alfredo 164 Oct  2 15:54 MyPer25B.txt
-rw-r---- 1 jaime alfredo 249 Oct  2 15:58 SO25B.txt
-rw-r---- 1 jaime alfredo 249 Oct  2 15:57 SisOpe25B..txt
-rw-r---- 1 jaime alfredo 85 Oct  2 15:57 SisOpe25B..txt
-rw-r---- 1 jaime alfredo 85 Oct  2 15:57 SisOpe25B..txt
-rw-r---- 1 jaime alfredo 85 Oct  2 15:57 SisOpe25B..txt
-rw-r---- 1 jaime alfredo 85 Oct  2 15:57 SisOpe25B..txt
-rw-r---- 1 jaime alfredo 85 Oct  2 15:57 SisOpe25B..txt
-rw-r---- 1 jaime alfredo 85 Oct  2 15:57 SisOpe25B..txt
```

```
jaime@KARLA:~$ sudo ufw status numbered
Status: active
       То
                                              Action
                                                               From
[ 1] 80/tcp
                                              DENY IN
                                                               Anywhere
  2] Anywhere
3] 7000:7006/tcp
4] Anywhere
5] 80/tcp (v6)
6] 7000:7006/tcp (v6)
                                              DENY IN
                                                               172.28.159.82
                                             DENY IN
                                                               Anywhere
                                             DENY IN
DENY IN
DENY IN
                                                               172.28.144.0/20
                                                               Anywhere (v6)
Anywhere (v6)
iaime@KARLA:~$
```

```
jaime@KARLA:~$ sudo ufw delete 4
Deleting:
 deny from 172.28.144.0/20
Proceed with operation (y|n)? y
Rule deleted
jaime@KARLA:~$ sudo ufw status
Status: active
То
                           Action
                                        From
80/tcp
                           DENY
                                        Anywhere
Anywhere
                           DENY
                                        172.28.159.82
7000:7006/tcp
                           DENY
                                        Anywhere
80/tcp (v6)
                           DENY
                                        Anywhere (v6)
7000:7006/tcp (v6)
                           DENY
                                        Anywhere (v6)
```







```
A:~$ sudo ufw deny from 172.28.159.0/24 to any port 22
Rule added
 aime@KARLA:~$ sudo ufw status numbered
Status: active
       То
                                                Action
                                                                   From
 1] 80/tcp
2] Anywhere
3] 7000:700
4] 80
5] 22
6] 80/tcp (
7] 7000:700
8] 80 (v6)
                                                DENY IN
                                                                   Anywhere
172.28.159.82
                                                DENY IN
DENY IN
DENY IN
DENY IN
       Anywhere
       7000:7006/tcp
                                                                   Anywhere
                                                                   Anywhere
172.28.159.0/24
      80/tcp (v6)
7000:7006/tcp (v6)
                                                                   Anywhere (v6)
Anywhere (v6)
Anywhere (v6)
                                                 DENY IN
                                                 DENY IN
                                                 DENY IN
jaime@KARLA:~$
```

```
jaime@KARLA:~$ sudo ufw status numbered
Status: active
     То
                                 Action
                                              From
                                 -----
 1] 80/tcp
                                 DENY IN
                                              Anywhere
 2]
3]
                                 DENY IN
                                              172.28.159.82
    Anywhere
    7000:7006/tcp
                                 DENY IN
                                              Anywhere
 4]
    80
                                 DENY IN
                                              Anywhere
 5]
                                 DENY IN
                                              172.28.159.0/24
    22
 6]
    80/tcp (v6)
                                 DENY IN
                                              Anywhere (v6)
    7000:7006/tcp (v6)
                                 DENY IN
                                              Anywhere (v6)
 8] 80 (v6)
                                 DENY IN
                                              Anywhere (v6)
iaime@KARLA:~$
```

```
jaime@KARLA: $ systemctl list-units --type=service --state=running
UNIT LOAD ACTIVE SUB DESCRIPTION

console-getty.service loaded active running Console Getty
cron.service loaded active running Regular background program productive running D-Bus System Message Bus
                                                                               loaded active running Getty on tty1
loaded active running MySQL Community Server
     getty@tty1.service
mysql.service
                                                                               loaded active running A high performance web server-
loaded active running System Logging Service
loaded active running OpenBSD Secure Shell server
loaded active running Journal Service
loaded active running User Login Management
     nginx.service
     rsyslog.service
     ssh.service
     systemd-journald.service
systemd-logind.service
                                                                              loaded active running User Login Management loaded active running Network Name Resolution loaded active running Network Time Synchronization loaded active running Rule-based Manager for Device-loaded active running Unattended Upgrades Shutdown loaded active running User Manager for UID 1002 loaded active running Bridge to Ubuntu Pro agent on-
     systemd-resolved.service
     systemd-timesyncd.service
     systemd-udevd.service
     unattended-upgrades.service user@1002.service
     wsl-pro.service
                    LOAD \rightarrow Reflects whether the unit definition was properly loaded. ACTIVE \rightarrow The high-level unit activation state, i.e. generalization of SUB. SUB \rightarrow The low-level unit activation state, values depend on unit type.
16 loaded units listed.
lines 1-23/23 (END)
```

```
laime@KARLA:-$ sudo nano /etc/ssh/sshd_config
laime@KARLA:-$ sudo sshd -t
laime@KARLA:-$ sudo systemctl restart ssh
laime@KARLA:-$ systemctl status ssh.service
laime@KARLA:-$ systemctl status ssh.service
laime@KARLA:-$ systemctl status ssh.service
laime@KARLA:-$ systemctl status ssh.service
laime@KARLA:-$ sudo systemctl restart ssh
laime@KARLA:-$ sudo systemctl restart ssh
laime@KARLA:-$ sudo sshd systemctl
laime@KARLA:-$ sudo sshd -t
laime@KARLA:-$ sudo sshd
laime@KARLA:-$
```

```
jaime@KARLA:~$ sudo userdel jaime
userdel: user jaime is currently used by process 1000
jaime@KARLA:~$ sudo groupdel TamScrum
groupdel: group 'TamScrum' does not exist
jaime@KARLA:~$ sudo groupdel TeamScrum
jaime@KARLA:~$ exit
exit
karli@KARLA:~$ sudo userdel jaime
[sudo] password for karli:
karli@KARLA:~$
```

karli@KARLA:~\$ sudo userdel jaime
[sudo] password for karli:
karli@KARLA:~\$ id nombre_usuario
id: 'nombre_usuario': no such user
karli@KARLA:~\$ getent passwd jime
karli@KARLA:~\$ getent passwd jaime
karli@KARLA:~\$ getent group TeamScrum
karli@KARLA:~\$