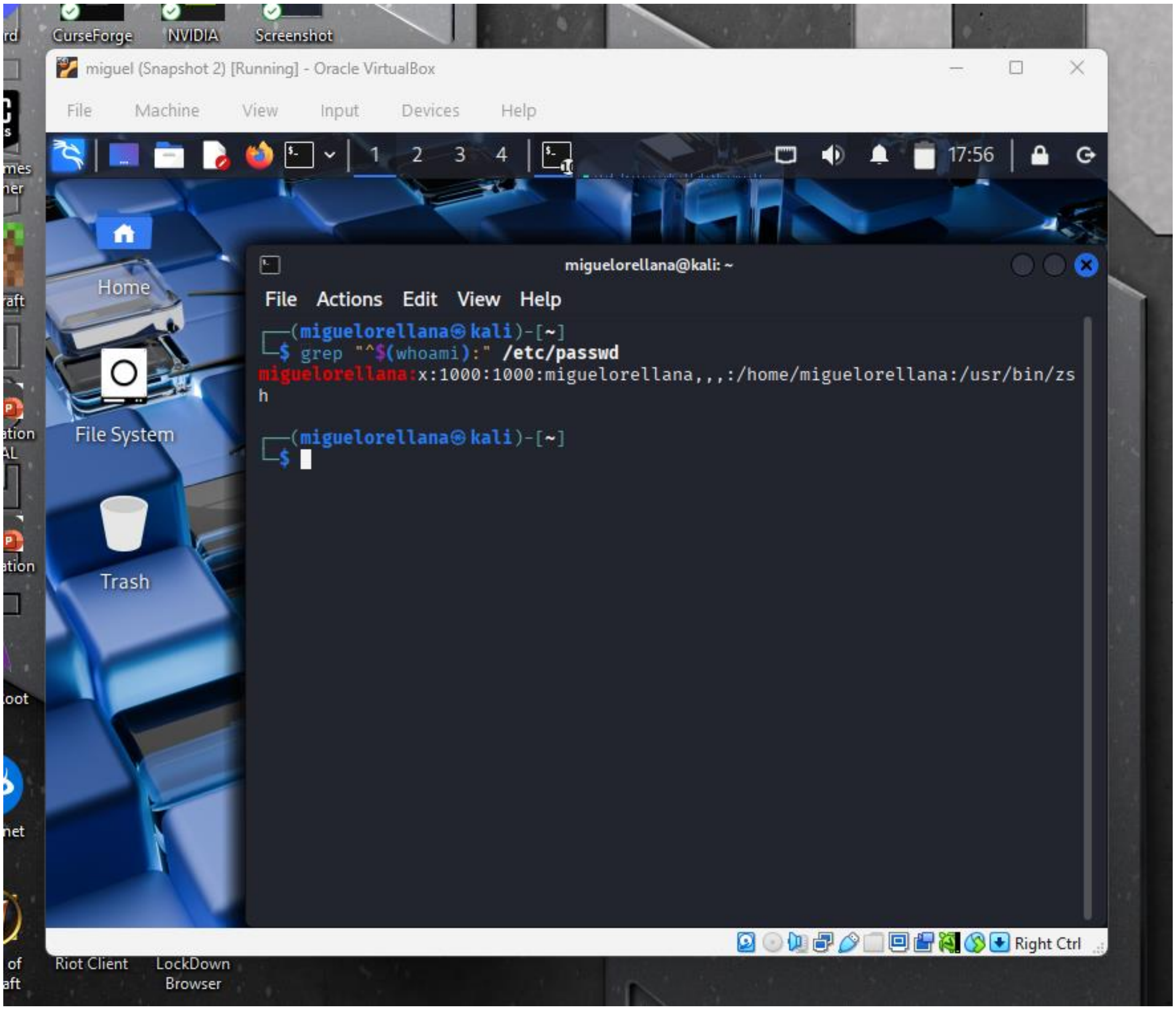
Miguel orellana

TASK A

1.



miguel (Snapshot 2) [Running] - Oracle VirtualBox
File Machine View Input Devices Help
17:56
miguelorellana@kali: ~
File Actions Edit View Help
Home
File System
Trash
Right Ctrl

```
┌──(miguelorellana㉿kali)-[~]
└─$ grep "^$(whoami):" /etc/passwd
miguelorellana:x:1000:1000:miguelorellana,,,:/home/miguelorellana:/usr/bin/zs
h

┌──(miguelorellana㉿kali)-[~]
└─$ 
```

This searches /etc/passwd for the current username.

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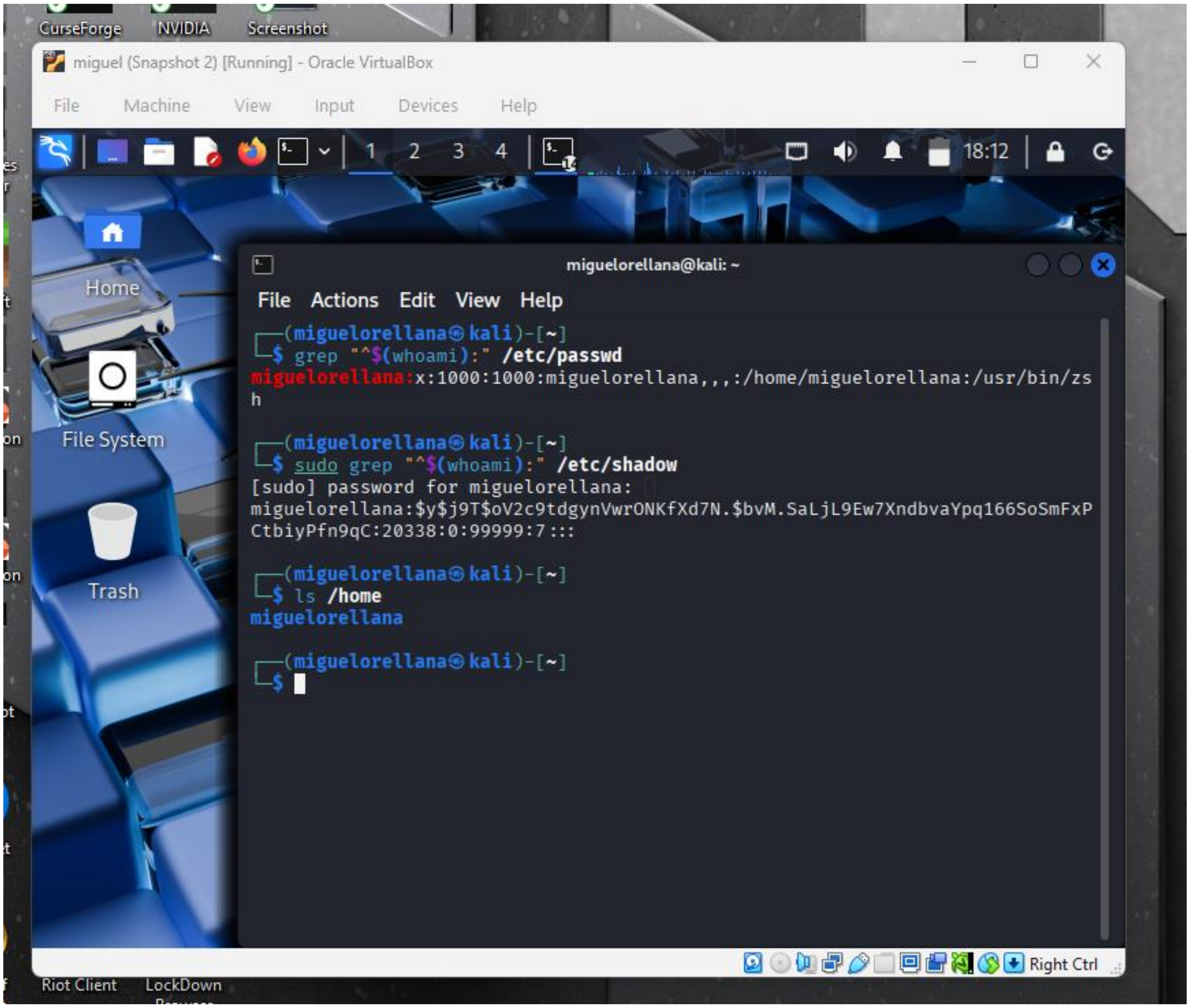
2.

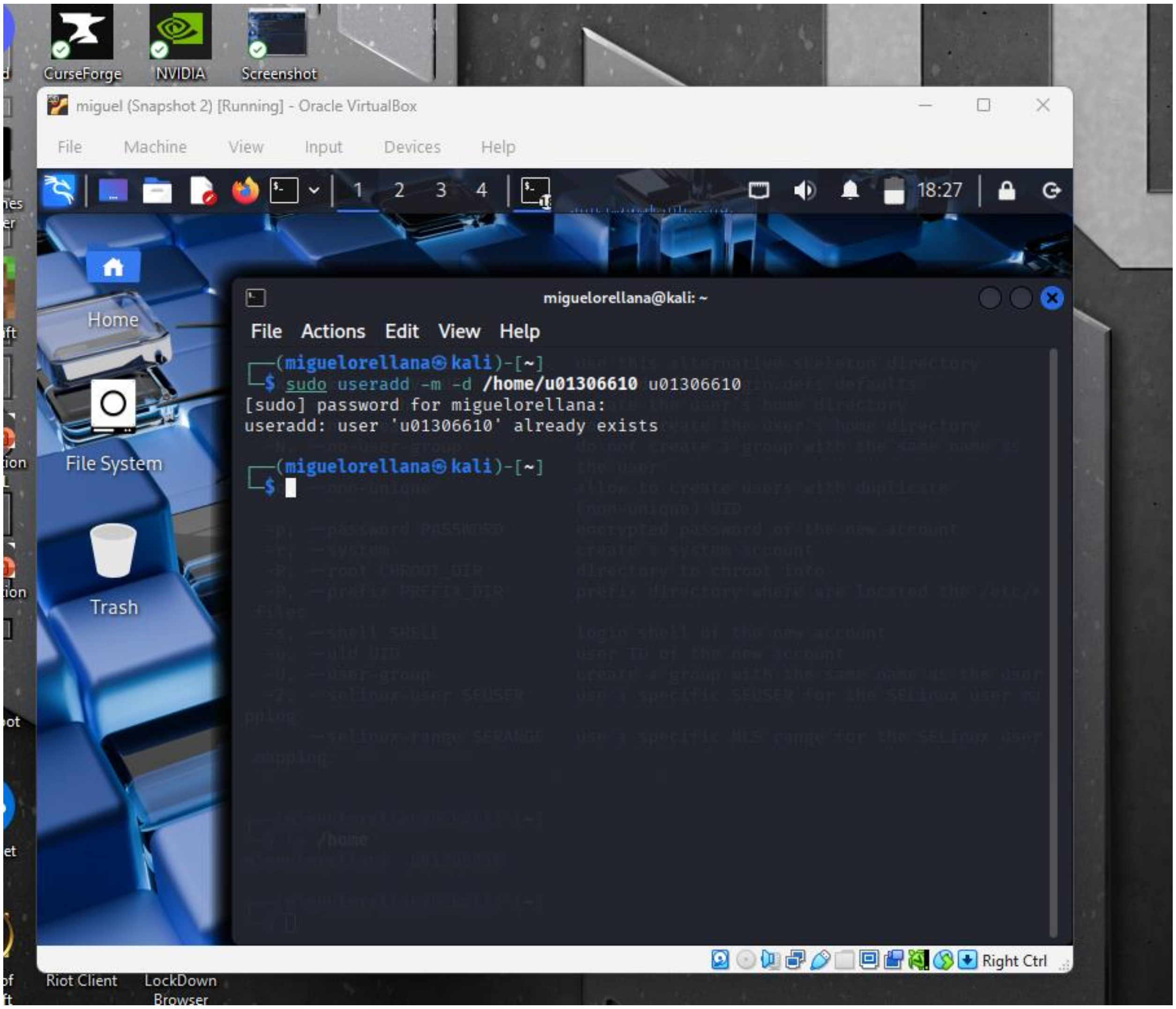


```
┌──(miguelorellana㉿kali)-[~]
└─$ grep "^$(whoami):" /etc/passwd
miguelorellana:x:1000:1000:miguelorellana,,,:/home/miguelorellana:/usr/bin/zs
h

┌──(miguelorellana㉿kali)-[~]
└─$ sudo grep "^$(whoami):" /etc/shadow
[sudo] password for miguelorellana:
miguelorellana:$y$j9T$oV2c9tdgynVwrONKfXd7N.$bvM.SaLjL9Ew7XndbvaYpq166SoSmFxP
CtbiyPfn9qC:20338:0:99999:7:::

┌──(miguelorellana㉿kali)-[~]
└─$ ls /home
miguelorellana

┌──(miguelorellana㉿kali)-[~]
└─$ 
```

/etc/shadow contains encrypted passwords and aging info

Miguel orellana

3.

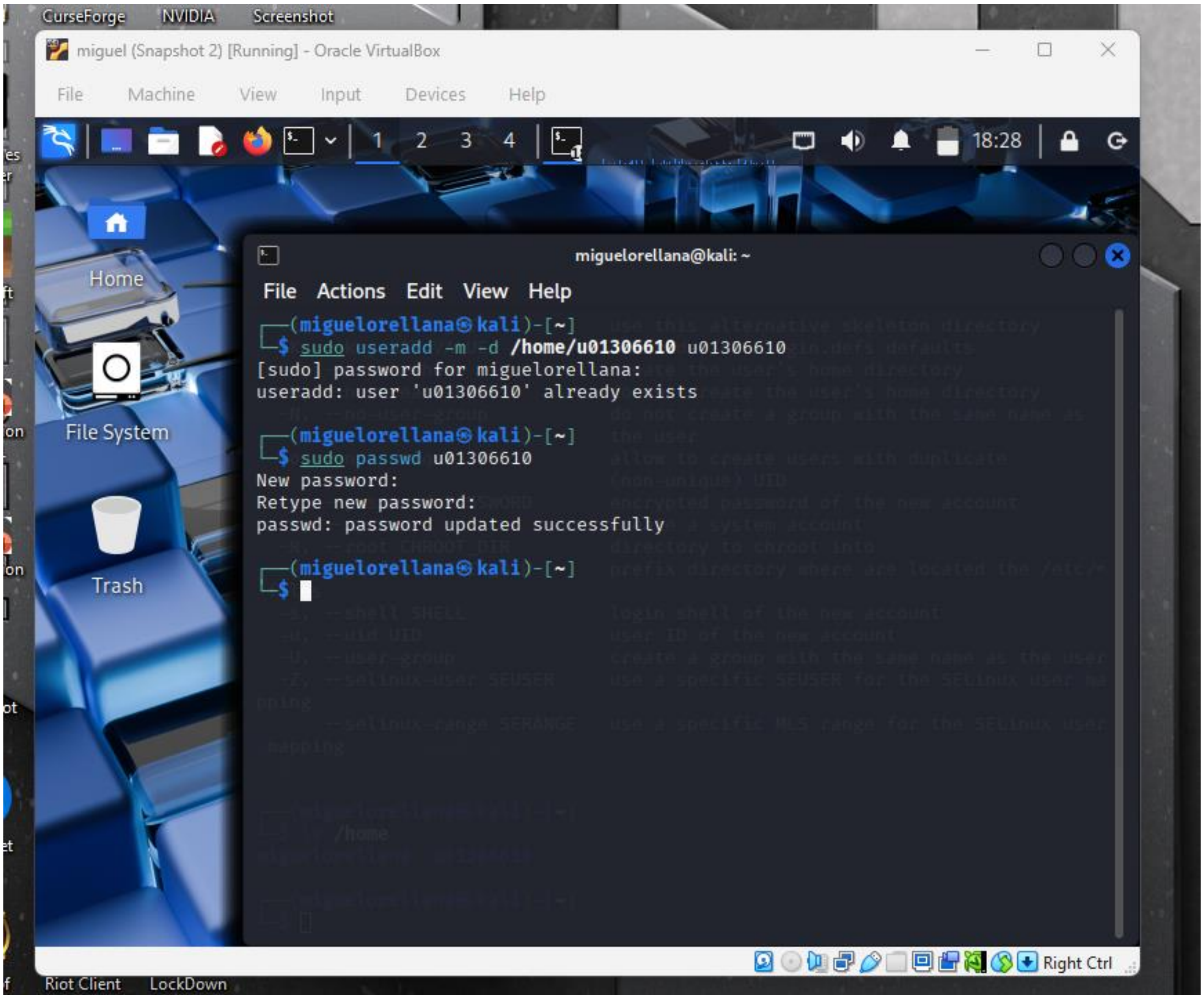


```
┌──(miguelorellana㉿kali)-[~]
└─$ sudo useradd -m -d /home/u01306610 u01306610
[sudo] password for miguelorellana:
useradd: user 'u01306610' already exists

┌──(miguelorellana㉿kali)-[~]
└─$ 
```

-m created the home directory, -d specifies its path

Miguel orellana

4.

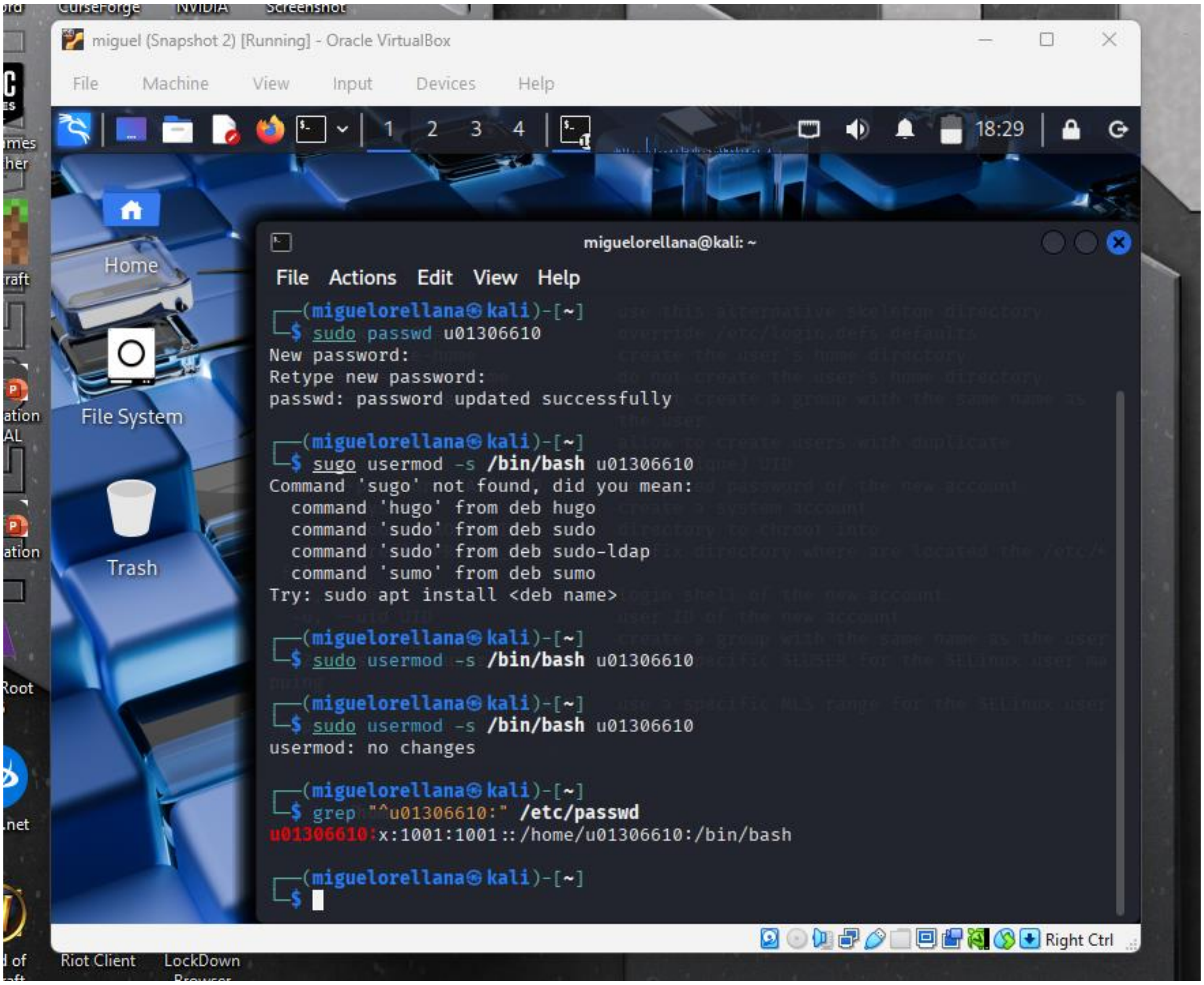


```
┌──(miguelorellana㉿kali)-[~]
└─$ sudo useradd -m -d /home/u01306610 u01306610
[sudo] password for miguelorellana:
useradd: user 'u01306610' already exists

┌──(miguelorellana㉿kali)-[~]
└─$ sudo passwd u01306610
New password:
Retype new password:
passwd: password updated successfully

┌──(miguelorellana㉿kali)-[~]
└─$ 
```

The new user needs a password to log in

Miguel orellana

5.

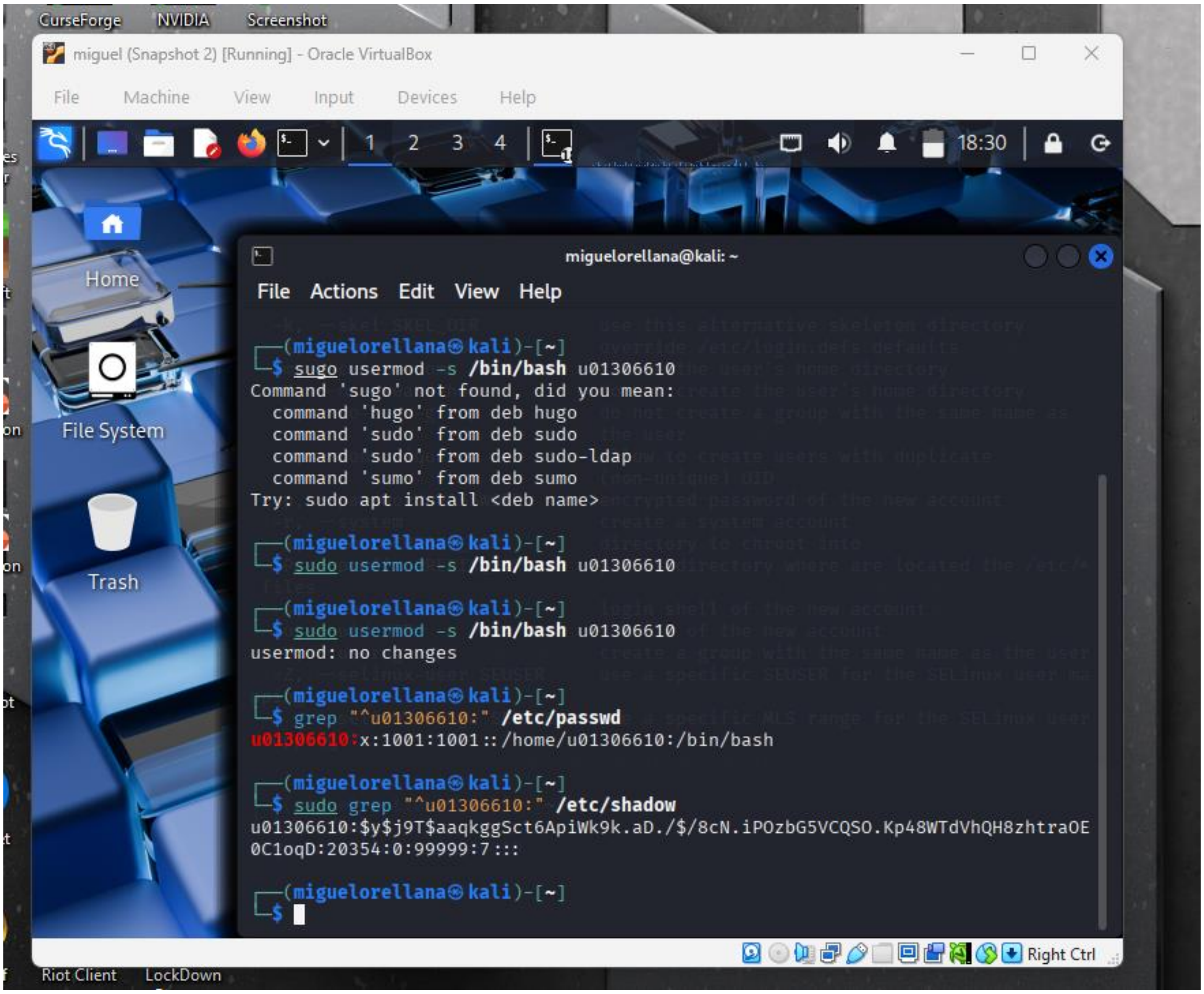


```
┌──(miguelorellana㉿kali)-[~]
└─$ sudo passwd u01306610
New password:
Retype new password:
passwd: password updated successfully

┌──(miguelorellana㉿kali)-[~]
└─$ sugo usermod -s /bin/bash u01306610
Command 'sugo' not found, did you mean:
  command 'hugo' from deb hugo
  command 'sudo' from deb sudo
  command 'sudo' from deb sudo-ldap
  command 'sumo' from deb sumo
Try: sudo apt install <deb name>

┌──(miguelorellana㉿kali)-[~]
└─$ sudo usermod -s /bin/bash u01306610

┌──(miguelorellana㉿kali)-[~]
└─$ sudo usermod -s /bin/bash u01306610
usermod: no changes

┌──(miguelorellana㉿kali)-[~]
└─$ grep "^u01306610:" /etc/passwd
u01306610:x:1001:1001::/home/u01306610:/bin/bash

┌──(miguelorellana㉿kali)-[~]
└─$ 
```

Usermod –s sets the shell

Miguel orellana

6.

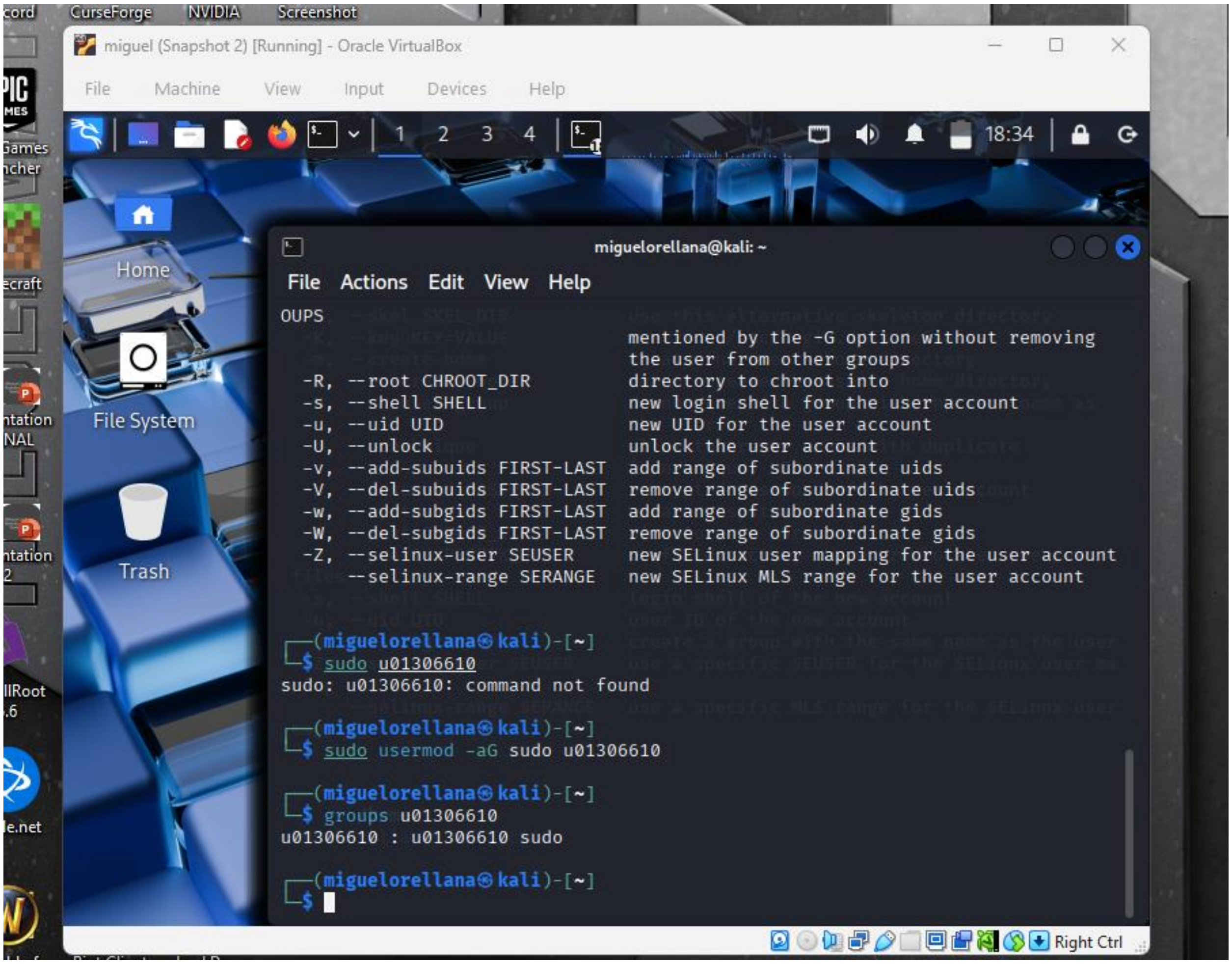

CurseForge
NVIDIA
Screenshot
miguel (Snapshot 2) [Running] - Oracle VirtualBox
File Machine View Input Devices Help
18:30
Home
File System
Trash
miguelorellana@kali: ~
File Actions Edit View Help
Right Ctrl
Riot Client
LockDown

```
┌──(miguelorellana㉿kali)-[~]
└─$ sugo usermod -s /bin/bash u01306610
Command 'sugo' not found, did you mean:
  command 'hugo' from deb hugo
  command 'sudo' from deb sudo
  command 'sudo' from deb sudo-ldap
  command 'sumo' from deb sumo
Try: sudo apt install <deb name>

┌──(miguelorellana㉿kali)-[~]
└─$ sudo usermod -s /bin/bash u01306610

┌──(miguelorellana㉿kali)-[~]
└─$ sudo usermod -s /bin/bash u01306610
usermod: no changes

┌──(miguelorellana㉿kali)-[~]
└─$ grep "^u01306610:" /etc/passwd
u01306610:x:1001:1001::/home/u01306610:/bin/bash

┌──(miguelorellana㉿kali)-[~]
└─$ sudo grep "^u01306610:" /etc/shadow
u01306610:$y$j9T$aaqkggSct6ApiWk9k.aD./$/8cN.iPOzbG5VCQSO.Kp48WTdVhQH8zhtraOE
0C1oqD:20354:0:99999:7:::

┌──(miguelorellana㉿kali)-[~]
└─$ 
```

Displays password info for new user

Miguel orellana

7.



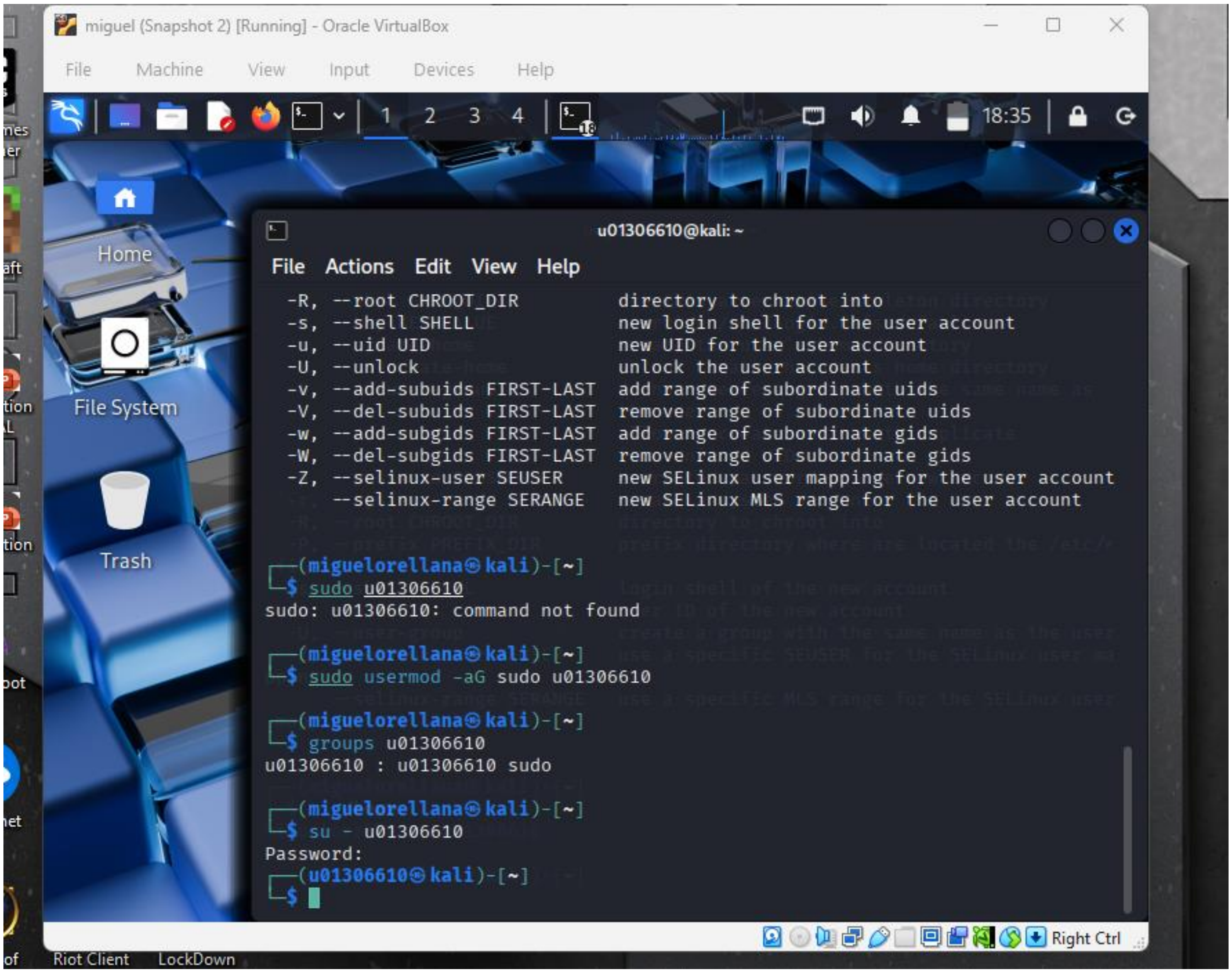
```
OUPS
                                 mentioned by the -G option without removing
                                 the user from other groups
  -R, --root CHROOT_DIR          directory to chroot into
  -s, --shell SHELL              new login shell for the user account
  -u, --uid UID                  new UID for the user account
  -U, --unlock                   unlock the user account
  -v, --add-subuids FIRST-LAST   add range of subordinate uids
  -V, --del-subuids FIRST-LAST   remove range of subordinate uids
  -w, --add-subgids FIRST-LAST   add range of subordinate gids
  -W, --del-subgids FIRST-LAST   remove range of subordinate gids
  -Z, --selinux-user SEUSER      new SELinux user mapping for the user account
      --selinux-range SERANGE    new SELinux MLS range for the user account


┌──(miguelorellana㉿kali)-[~]
└─$ sudo u01306610
sudo: u01306610: command not found

┌──(miguelorellana㉿kali)-[~]
└─$ sudo usermod -aG sudo u01306610

┌──(miguelorellana㉿kali)-[~]
└─$ groups u01306610
u01306610 : u01306610 sudo

┌──(miguelorellana㉿kali)-[~]
└─$ 
```

-aG appends to groups

8.

Miguel orellana

8.



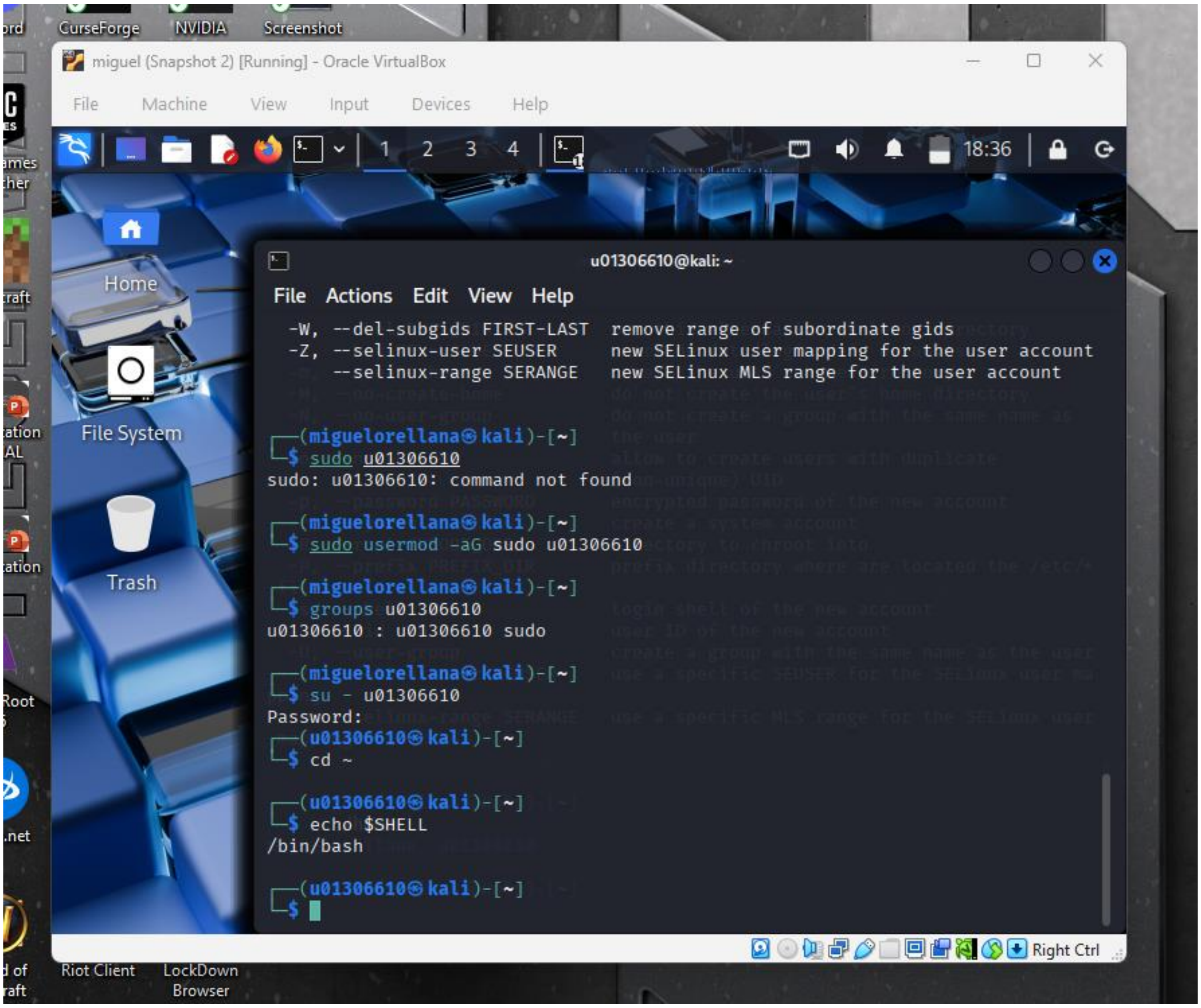
```
  -R, --root CHROOT_DIR         directory to chroot into
  -s, --shell SHELL             new login shell for the user account
  -u, --uid UID                 new UID for the user account
  -U, --unlock                  unlock the user account
  -v, --add-subuids FIRST-LAST  add range of subordinate uids
  -V, --del-subuids FIRST-LAST  remove range of subordinate uids
  -w, --add-subgids FIRST-LAST  add range of subordinate gids
  -W, --del-subgids FIRST-LAST  remove range of subordinate gids
  -Z, --selinux-user SEUSER     new SELinux user mapping for the user account
      --selinux-range SERANGE   new SELinux MLS range for the user account

┌──(miguelorellana㉿kali)-[~]
└─$ sudo u01306610
sudo: u01306610: command not found

┌──(miguelorellana㉿kali)-[~]
└─$ sudo usermod -aG sudo u01306610

┌──(miguelorellana㉿kali)-[~]
└─$ groups u01306610
u01306610 : u01306610 sudo

┌──(miguelorellana㉿kali)-[~]
└─$ su - u01306610
Password:
┌──(u01306610㉿kali)-[~]
└─$ 
```

Tests that the account works and logs in properly

TASK B

Miguel orellana

1.

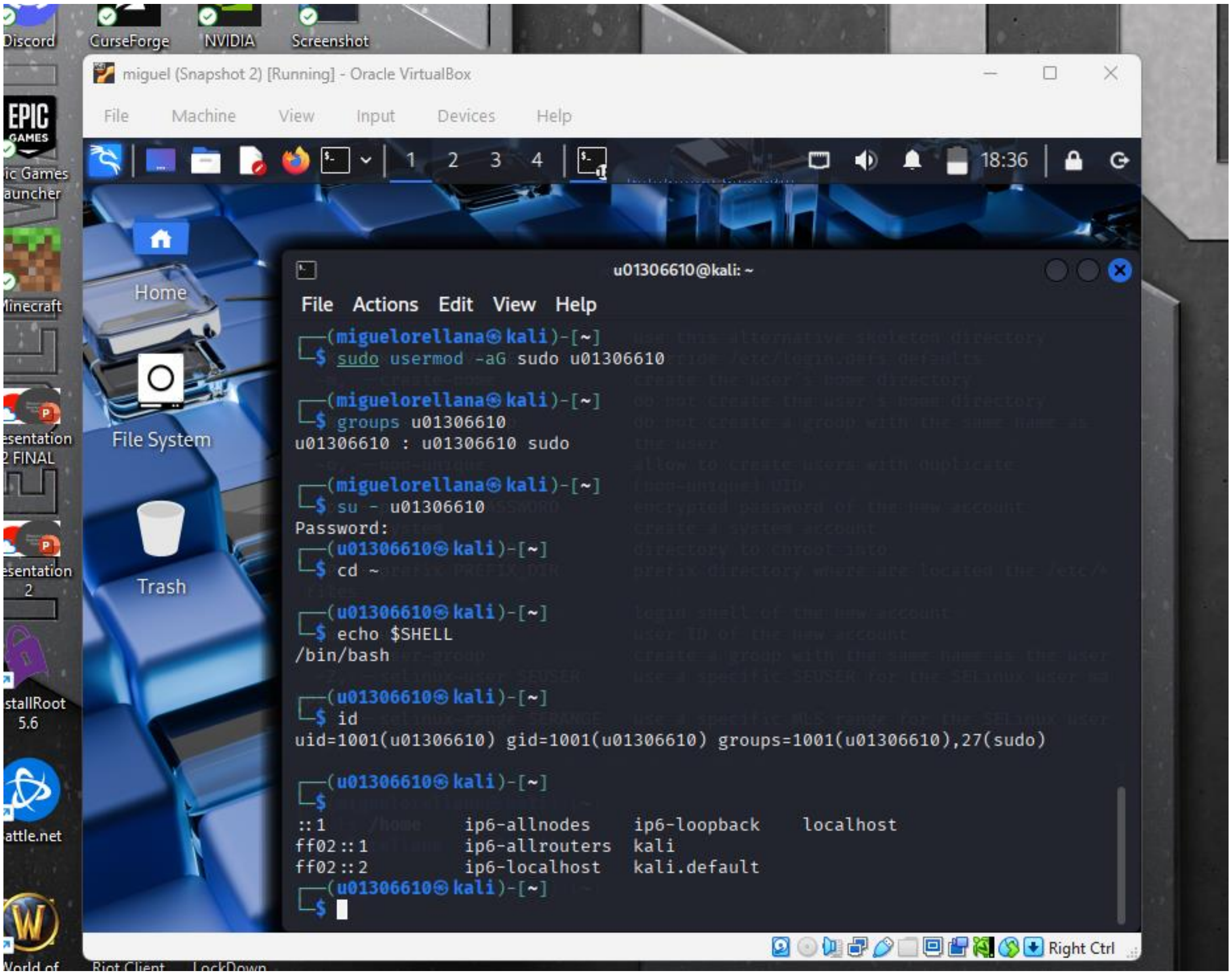


```
  -W, --del-subgids FIRST-LAST  remove range of subordinate gids
  -Z, --selinux-user SEUSER     new SELinux user mapping for the user account
      --selinux-range SERANGE   new SELinux MLS range for the user account

┌──(miguelorellana㉿kali)-[~]
└─$ sudo u01306610
sudo: u01306610: command not found

┌──(miguelorellana㉿kali)-[~]
└─$ sudo usermod -aG sudo u01306610

┌──(miguelorellana㉿kali)-[~]
└─$ groups u01306610
u01306610 : u01306610 sudo

┌──(miguelorellana㉿kali)-[~]
└─$ su - u01306610
Password:
┌──(u01306610㉿kali)-[~]
└─$ cd ~

┌──(u01306610㉿kali)-[~]
└─$ echo $SHELL
/bin/bash

┌──(u01306610㉿kali)-[~]
└─$ 
```

Confirms current shell environment

Miguel orellana

2.

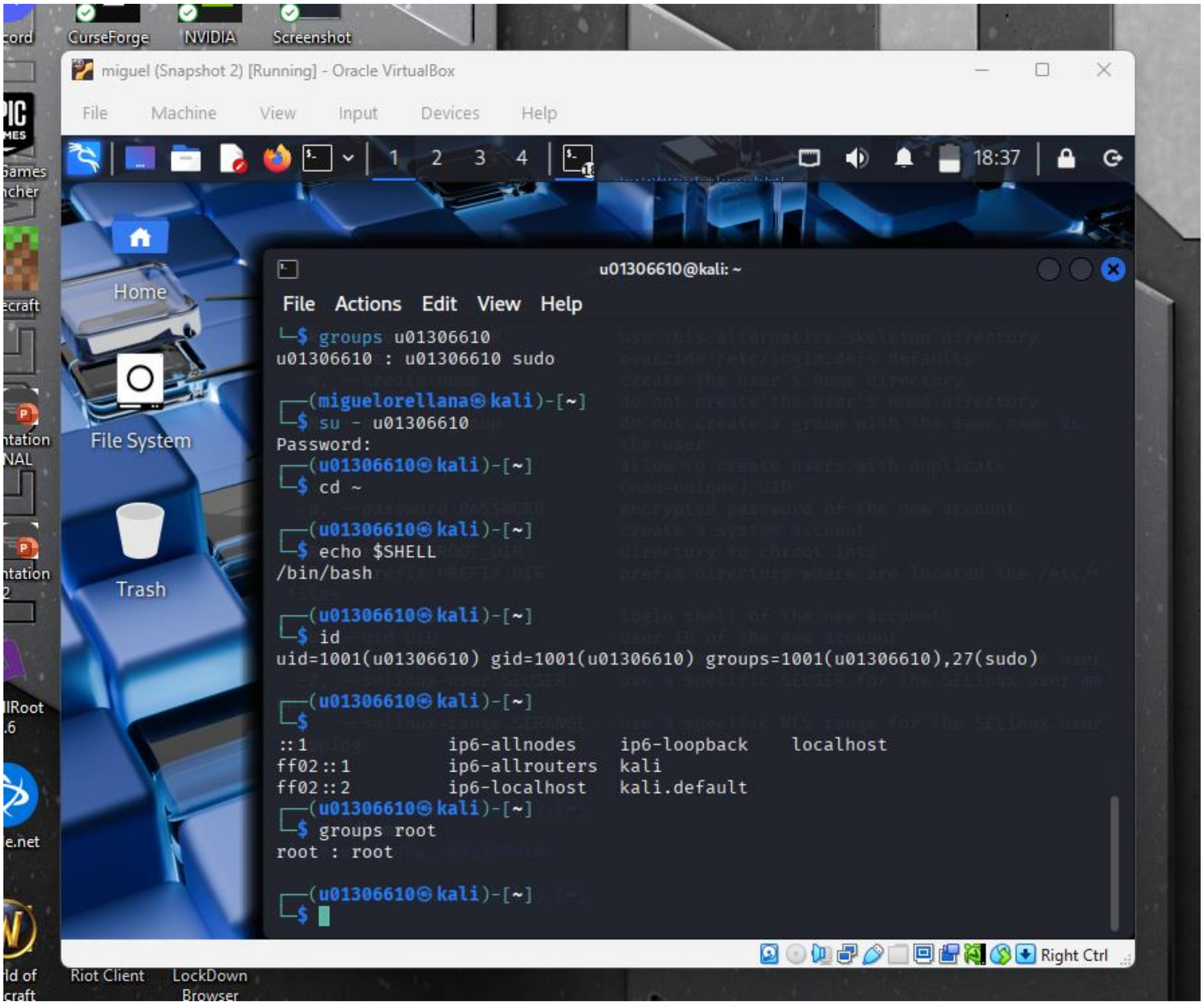


```
┌──(miguelorellana㉿kali)-[~]
└─$ sudo usermod -aG sudo u01306610

┌──(miguelorellana㉿kali)-[~]
└─$ groups u01306610
u01306610 : u01306610 sudo

┌──(miguelorellana㉿kali)-[~]
└─$ su - u01306610
Password:
┌──(u01306610㉿kali)-[~]
└─$ cd ~

┌──(u01306610㉿kali)-[~]
└─$ echo $SHELL
/bin/bash

┌──(u01306610㉿kali)-[~]
└─$ id
uid=1001(u01306610) gid=1001(u01306610) groups=1001(u01306610),27(sudo)

┌──(u01306610㉿kali)-[~]
└─$
::1         ip6-allnodes     ip6-loopback    localhost
ff02::1     ip6-allrouters   kali
ff02::2     ip6-localhost    kali.default
┌──(u01306610㉿kali)-[~]
└─$
```

Shows UID,GID, and group memberships

Miguel orellana

3.



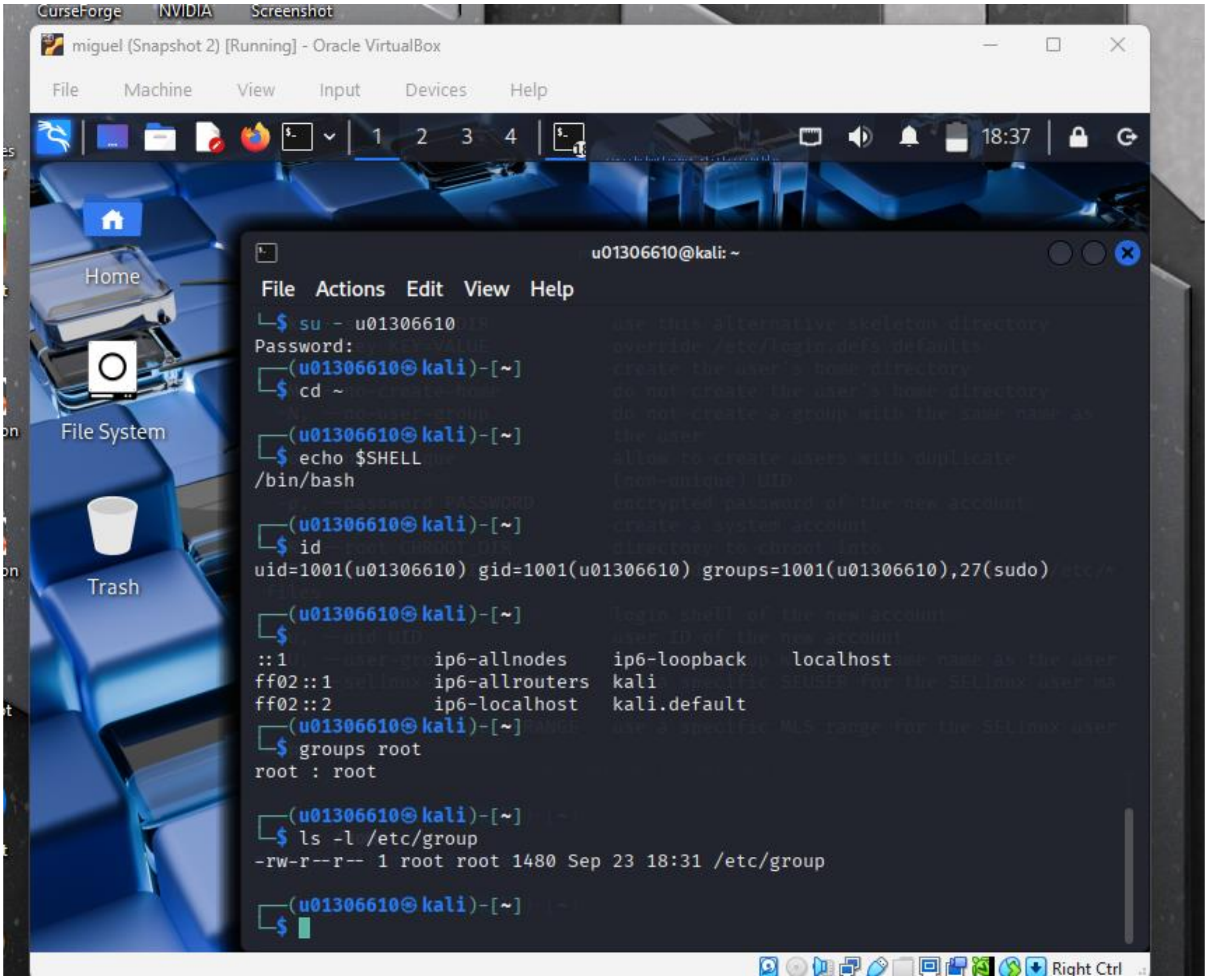
miguel (Snapshot 2) [Running] - Oracle VirtualBox
File Machine View Input Devices Help
18:37
u01306610@kali: ~
File Actions Edit View Help
Home
File System
Trash
Right Ctrl

```
└─$ groups u01306610
u01306610 : u01306610 sudo

┌──(miguelorellana㉿kali)-[~]
└─$ su - u01306610
Password:
┌──(u01306610㉿kali)-[~]
└─$ cd ~

┌──(u01306610㉿kali)-[~]
└─$ echo $SHELL
/bin/bash

┌──(u01306610㉿kali)-[~]
└─$ id
uid=1001(u01306610) gid=1001(u01306610) groups=1001(u01306610),27(sudo)

┌──(u01306610㉿kali)-[~]
└─$
::1             ip6-allnodes    ip6-loopback    localhost
ff02::1         ip6-allrouters  kali
ff02::2         ip6-localhost   kali.default
┌──(u01306610㉿kali)-[~]
└─$ groups root
root : root

┌──(u01306610㉿kali)-[~]
└─$
```

Verifies root’s group associations

Miguel orellana

4.

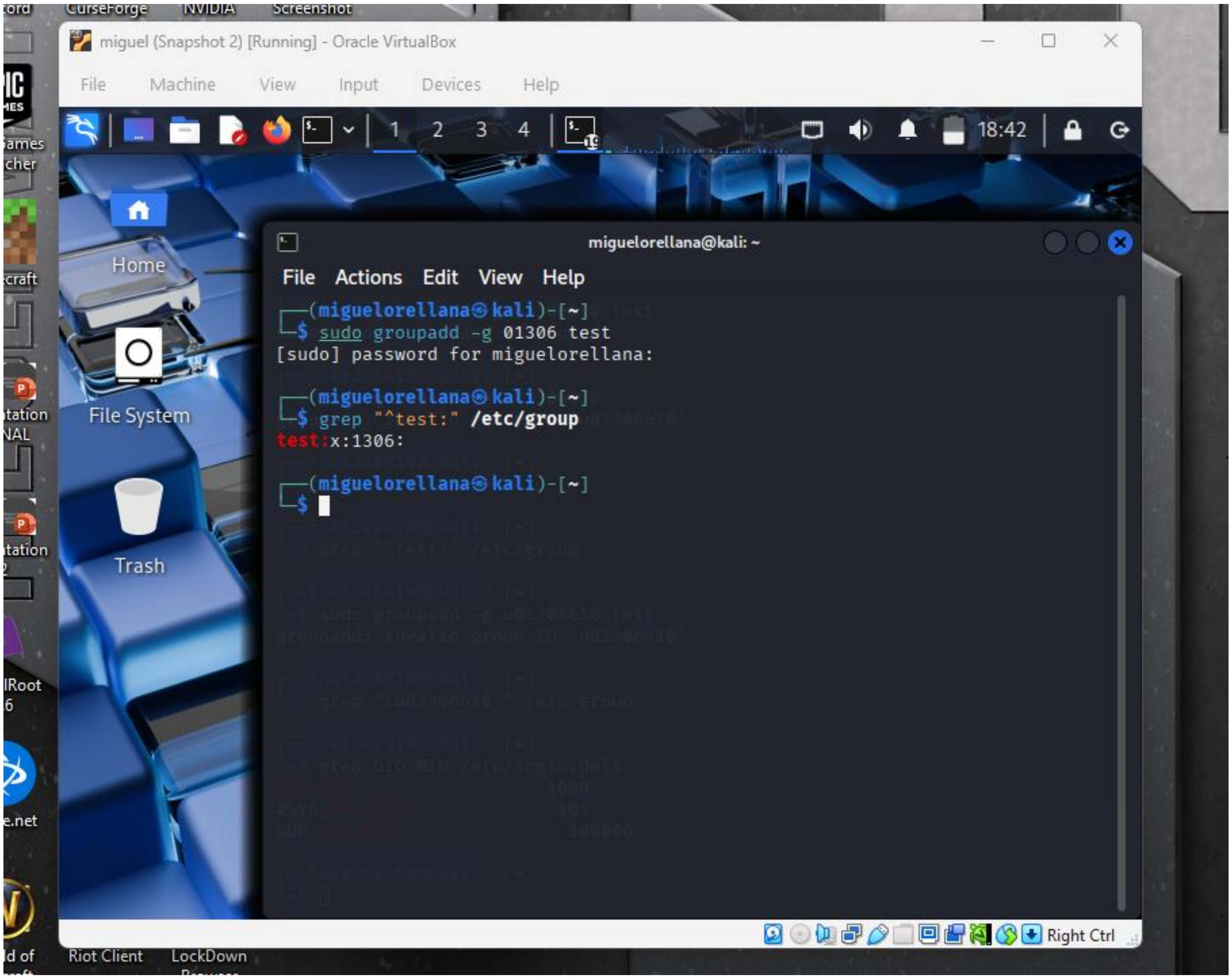

CurseForge
NVIDIA
Screenshot
miguel (Snapshot 2) [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
18:37
Home
File System
Trash
u01306610@kali: ~
File Actions Edit View Help
Right Ctrl

```
└─$ su - u01306610
Password:
┌──(u01306610㉿kali)-[~]
└─$ cd ~

┌──(u01306610㉿kali)-[~]
└─$ echo $SHELL
/bin/bash

┌──(u01306610㉿kali)-[~]
└─$ id
uid=1001(u01306610) gid=1001(u01306610) groups=1001(u01306610),27(sudo)

┌──(u01306610㉿kali)-[~]
└─$
::1             ip6-allnodes    ip6-loopback    localhost
ff02::1         ip6-allrouters  kali
ff02::2         ip6-localhost   kali.default
┌──(u01306610㉿kali)-[~]
└─$ groups root
root : root

┌──(u01306610㉿kali)-[~]
└─$ ls -l /etc/group
-rw-r--r-- 1 root root 1480 Sep 23 18:31 /etc/group

┌──(u01306610㉿kali)-[~]
└─$ 
```

Shows who owns the group configuration file.

Miguel orellana

5.

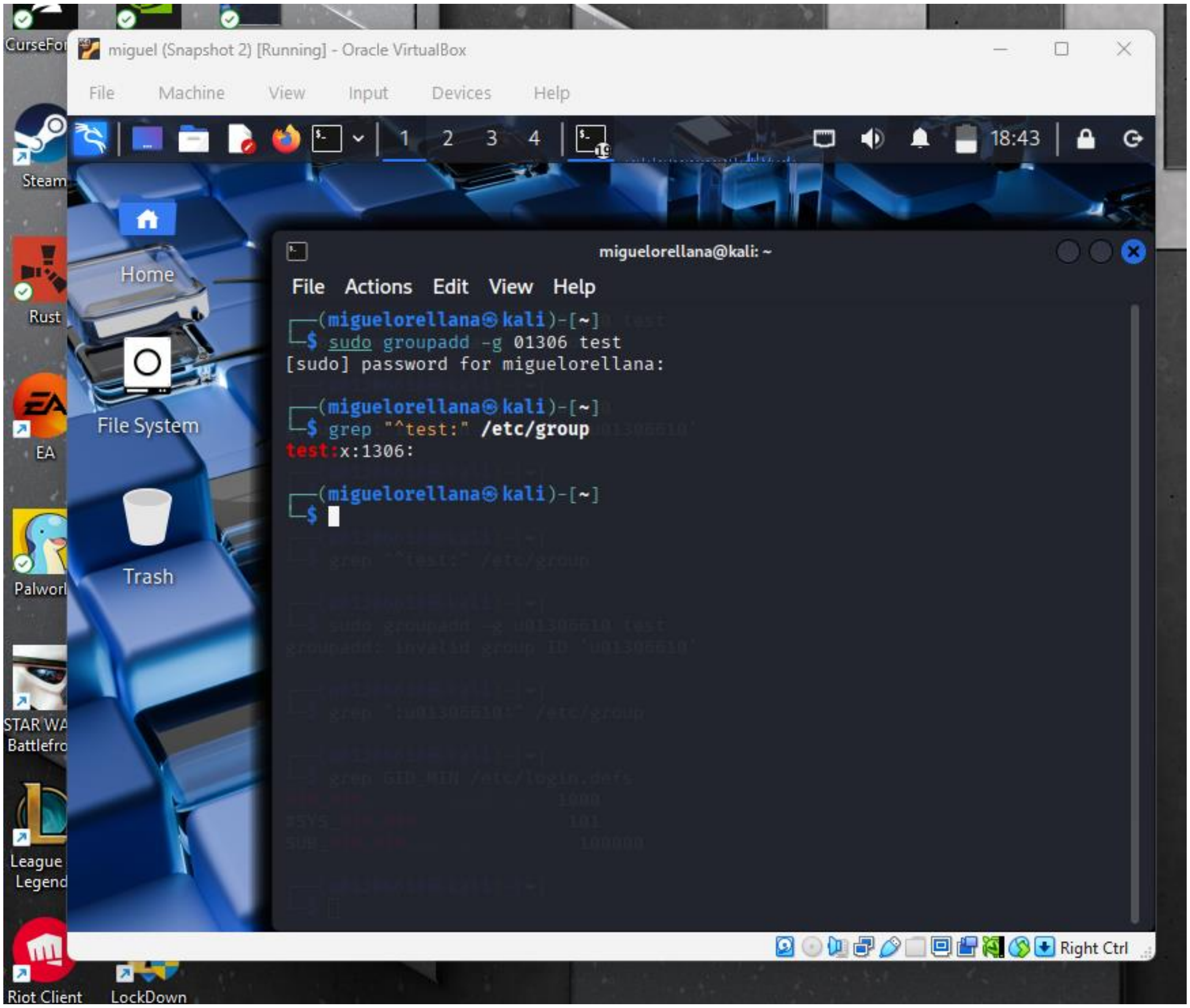


```
┌──(miguelorellana㉿kali)-[~]
└─$ sudo groupadd -g 01306 test
[sudo] password for miguelorellana:

┌──(miguelorellana㉿kali)-[~]
└─$ grep "^test:" /etc/group
test:x:1306:

┌──(miguelorellana㉿kali)-[~]
└─$ 
```

Creates a group with a specific group ID

Miguel orellana

6.

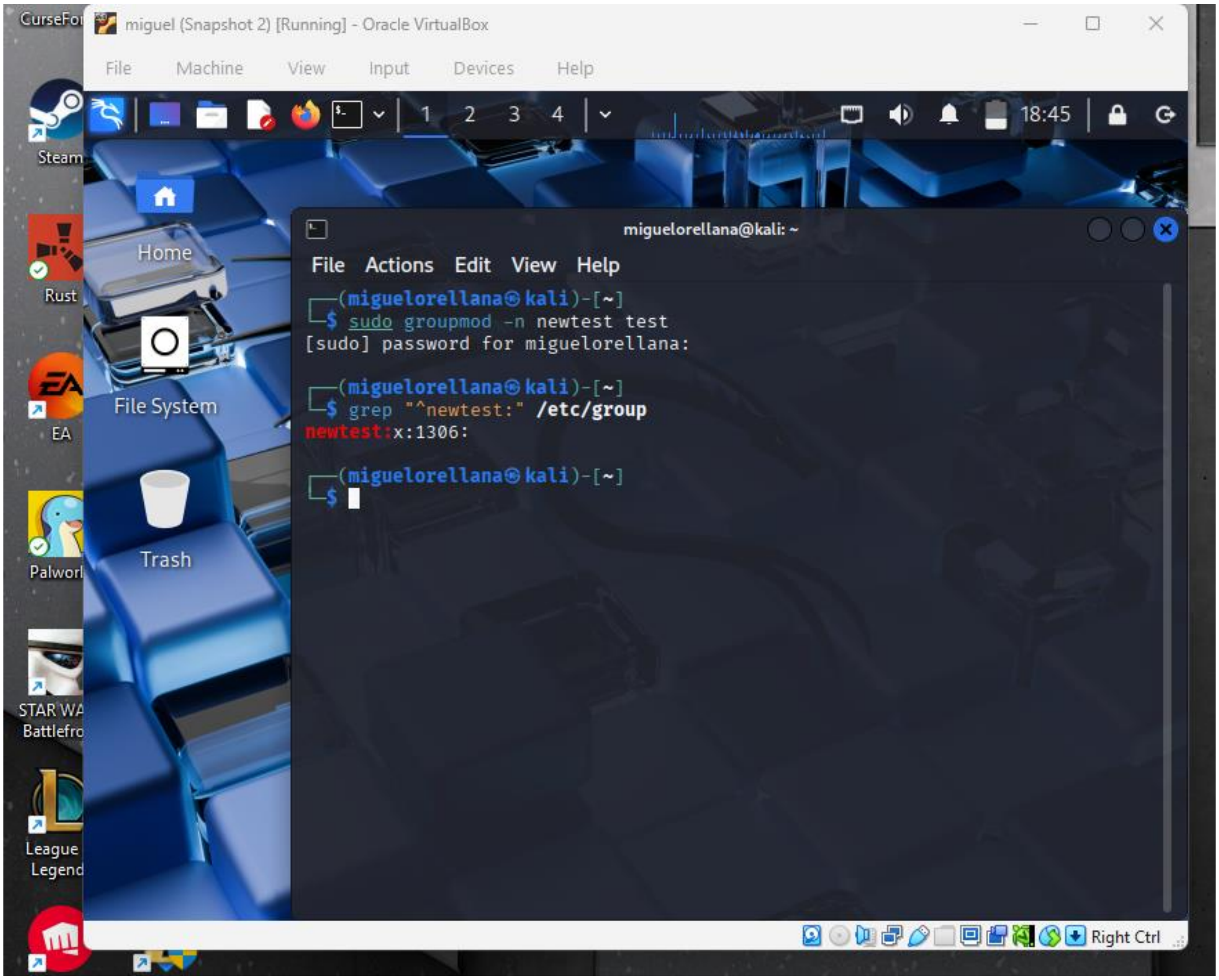

miguel (Snapshot 2) [Running] - Oracle VirtualBox
File Machine View Input Devices Help
18:43
miguelorellana@kali: ~
File Actions Edit View Help
Home
File System
Trash
Right Ctrl

```
┌──(miguelorellana㉿kali)-[~]
└─$ sudo groupadd -g 01306 test
[sudo] password for miguelorellana:

┌──(miguelorellana㉿kali)-[~]
└─$ grep "^test:" /etc/group
test:x:1306:

┌──(miguelorellana㉿kali)-[~]
└─$ 
```

Confirms the group was created correctly

Miguel orellana

7.

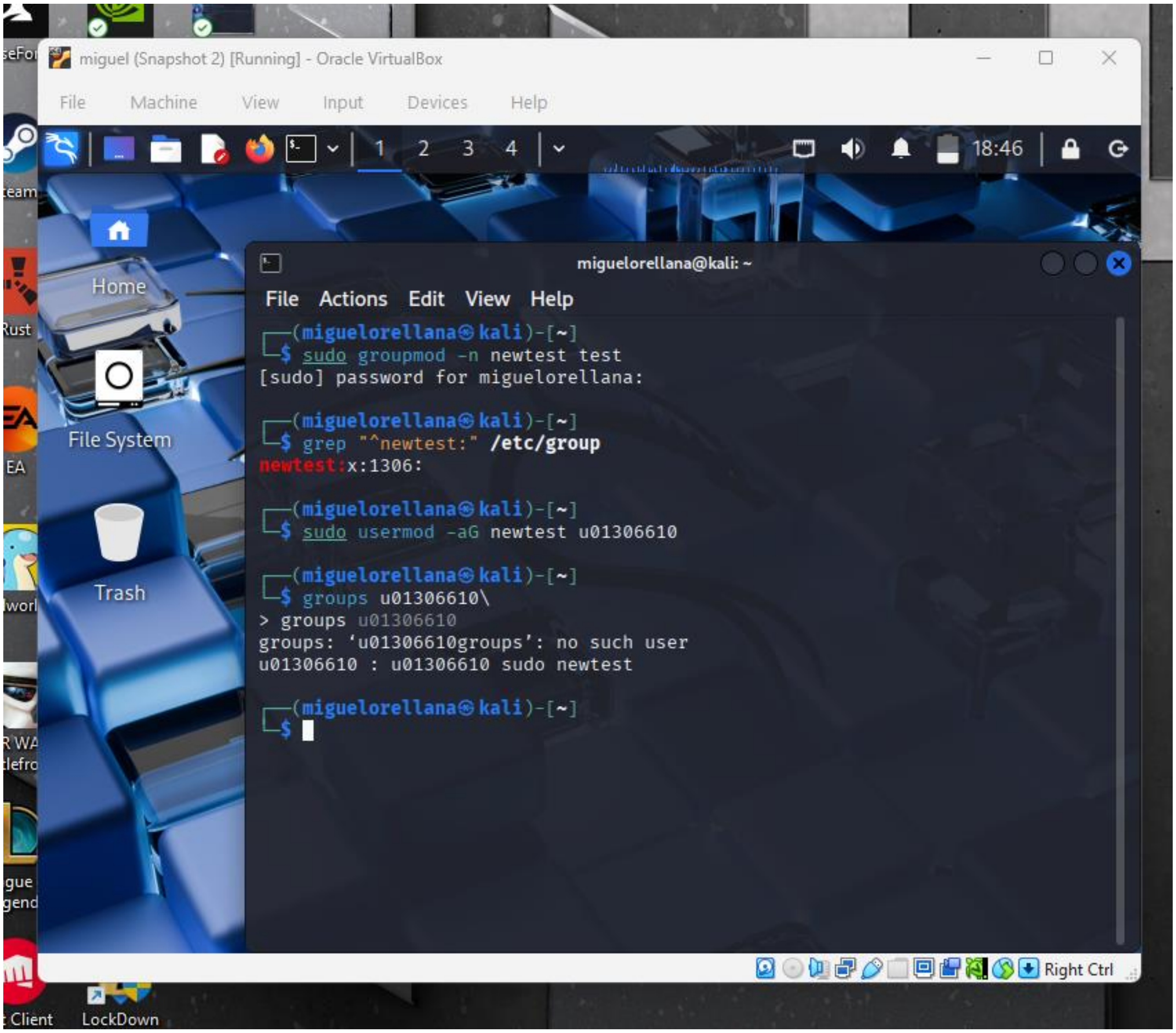


```
┌──(miguelorellana㉿kali)-[~]
└─$ sudo groupmod -n newtest test
[sudo] password for miguelorellana:

┌──(miguelorellana㉿kali)-[~]
└─$ grep "^newtest:" /etc/group
newtest:x:1306:

┌──(miguelorellana㉿kali)-[~]
└─$ 
```

Renames the group

Miguel orellana

8.

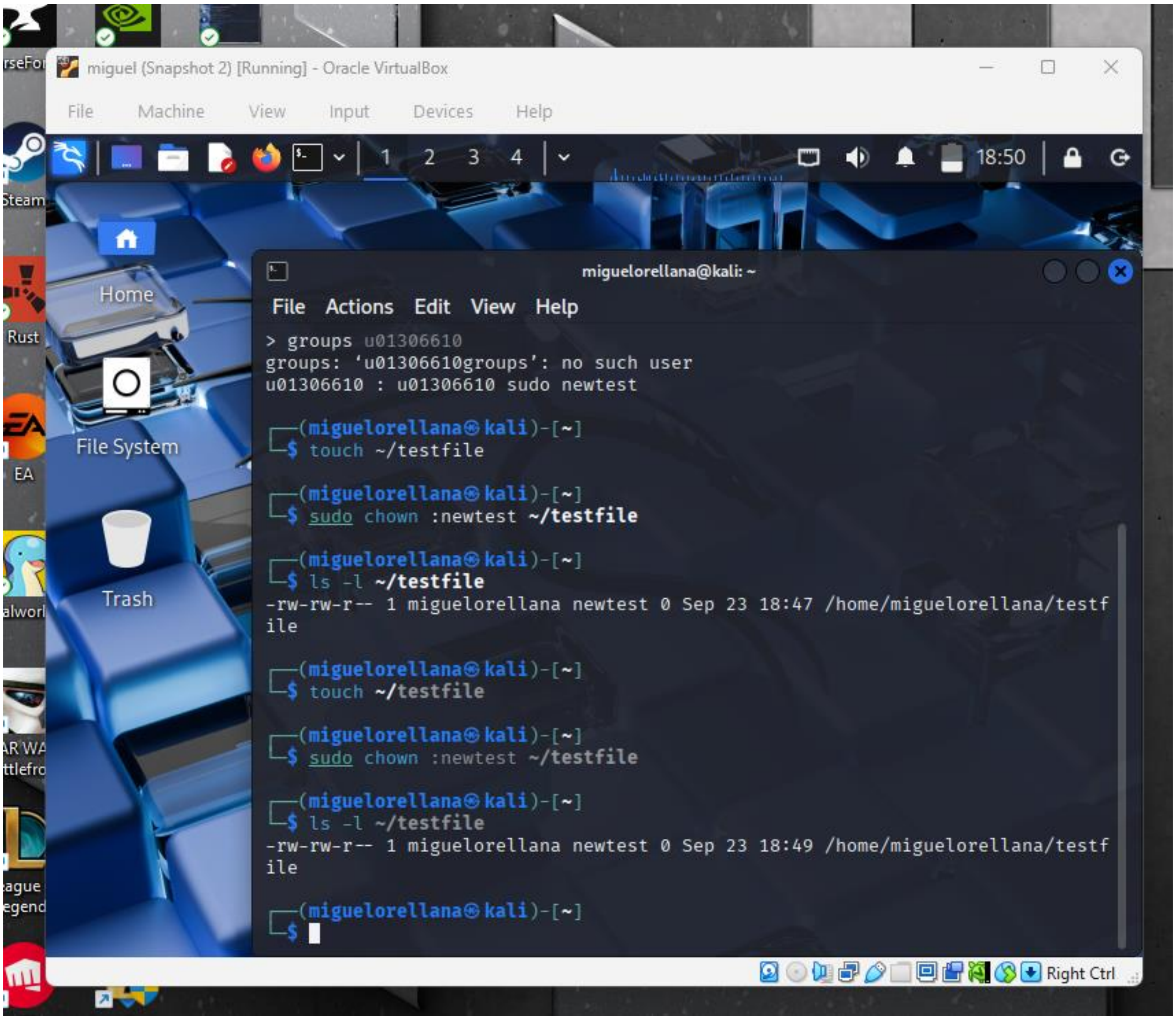


```
┌──(miguelorellana㉿kali)-[~]
└─$ sudo groupmod -n newtest test
[sudo] password for miguelorellana:

┌──(miguelorellana㉿kali)-[~]
└─$ grep "^newtest:" /etc/group
newtest:x:1306:

┌──(miguelorellana㉿kali)-[~]
└─$ sudo usermod -aG newtest u01306610

┌──(miguelorellana㉿kali)-[~]
└─$ groups u01306610\
> groups u01306610
groups: 'u01306610groups': no such user
u01306610 : u01306610 sudo newtest

┌──(miguelorellana㉿kali)-[~]
└─$ 
```

Adds the user as a secondary member

Miguel orellana

9.

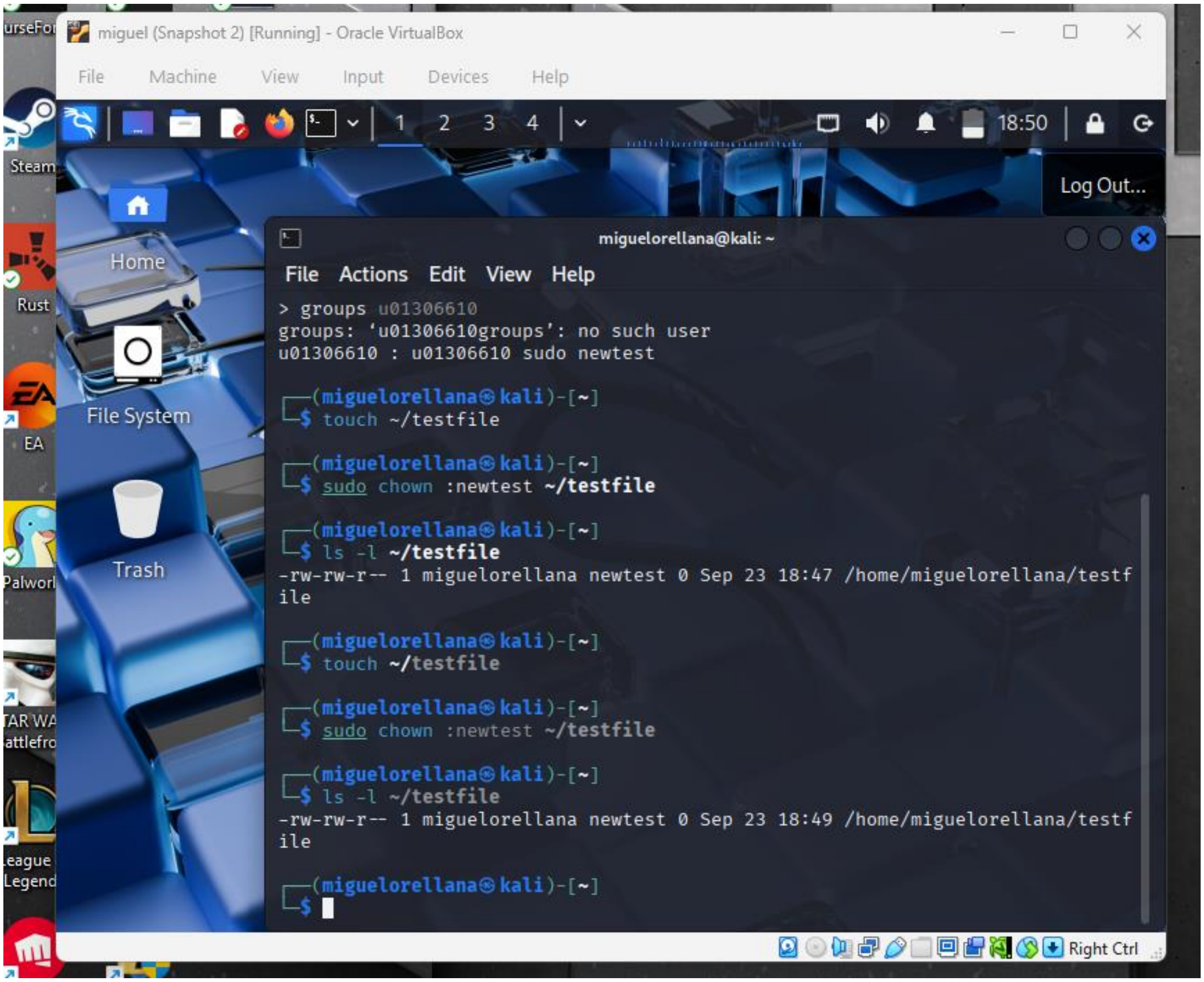


```
> groups u01306610
groups: ‘u01306610groups’: no such user
u01306610 : u01306610 sudo newtest

┌──(miguelorellana㉿kali)-[~]
└─$ touch ~/testfile

┌──(miguelorellana㉿kali)-[~]
└─$ sudo chown :newtest ~/testfile

┌──(miguelorellana㉿kali)-[~]
└─$ ls -l ~/testfile
-rw-rw-r-- 1 miguelorellana newtest 0 Sep 23 18:47 /home/miguelorellana/testf
ile

┌──(miguelorellana㉿kali)-[~]
└─$ touch ~/testfile

┌──(miguelorellana㉿kali)-[~]
└─$ sudo chown :newtest ~/testfile

┌──(miguelorellana㉿kali)-[~]
└─$ ls -l ~/testfile
-rw-rw-r-- 1 miguelorellana newtest 0 Sep 23 18:49 /home/miguelorellana/testf
ile

┌──(miguelorellana㉿kali)-[~]
└─$ 
```

Creates a file and assigns group ownership

Miguel orellana

10.

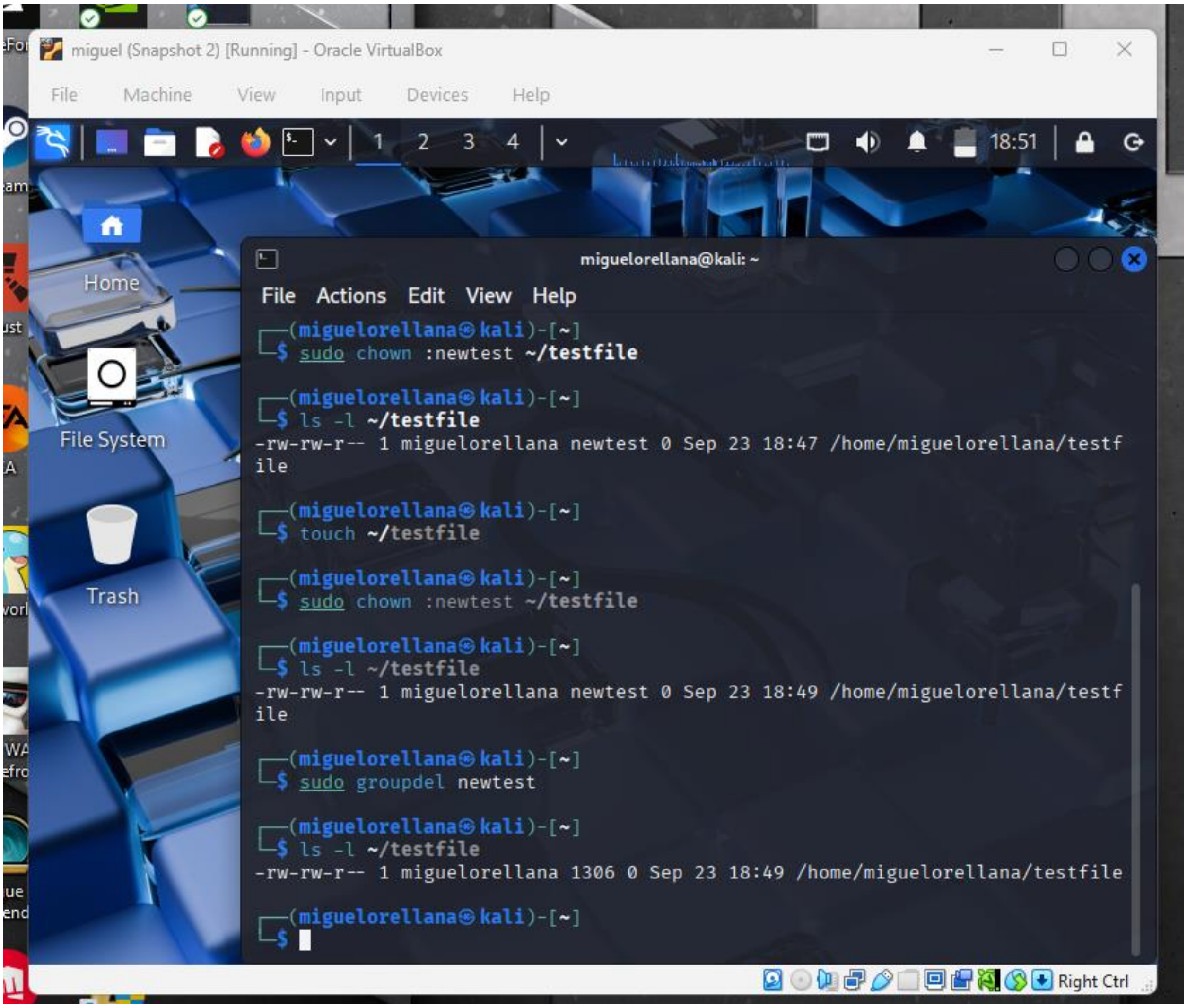


```
> groups u01306610
groups: ‘u01306610groups’: no such user
u01306610 : u01306610 sudo newtest

┌──(miguelorellana㉿kali)-[~]
└─$ touch ~/testfile

┌──(miguelorellana㉿kali)-[~]
└─$ sudo chown :newtest ~/testfile

┌──(miguelorellana㉿kali)-[~]
└─$ ls -l ~/testfile
-rw-rw-r-- 1 miguelorellana newtest 0 Sep 23 18:47 /home/miguelorellana/testf
ile

┌──(miguelorellana㉿kali)-[~]
└─$ touch ~/testfile

┌──(miguelorellana㉿kali)-[~]
└─$ sudo chown :newtest ~/testfile

┌──(miguelorellana㉿kali)-[~]
└─$ ls -l ~/testfile
-rw-rw-r-- 1 miguelorellana newtest 0 Sep 23 18:49 /home/miguelorellana/testf
ile

┌──(miguelorellana㉿kali)-[~]
└─$ 
```

confirms the files user and group ownership

Miguel orellana

11.



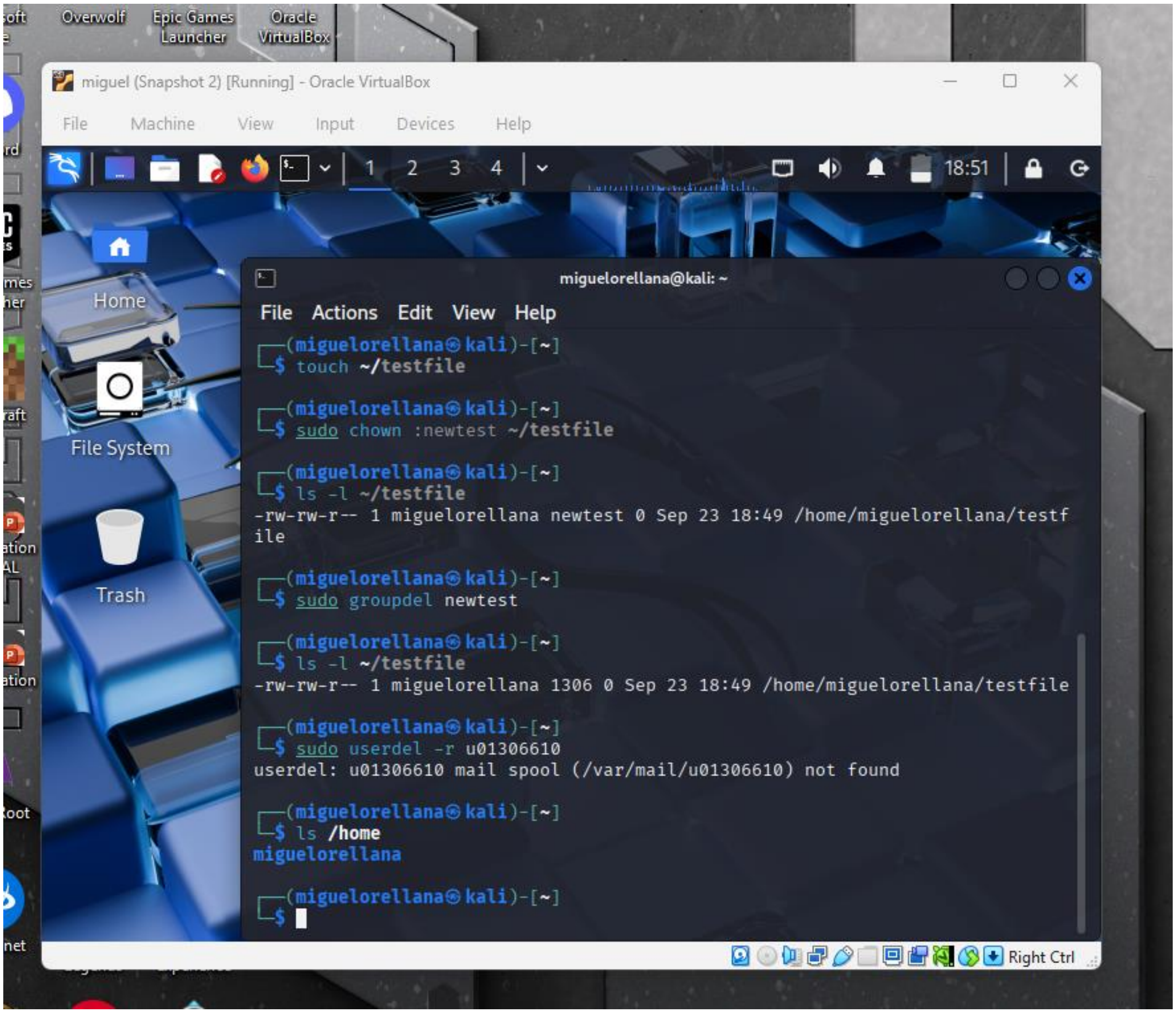
miguel (Snapshot 2) [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
18:51
Home
File System
Trash
miguelorellana@kali: ~
File Actions Edit View Help
Right Ctrl

```
┌──(miguelorellana㉿kali)-[~]
└─$ sudo chown :newtest ~/testfile

┌──(miguelorellana㉿kali)-[~]
└─$ ls -l ~/testfile
-rw-rw-r-- 1 miguelorellana newtest 0 Sep 23 18:47 /home/miguelorellana/testf
ile

┌──(miguelorellana㉿kali)-[~]
└─$ touch ~/testfile

┌──(miguelorellana㉿kali)-[~]
└─$ sudo chown :newtest ~/testfile

┌──(miguelorellana㉿kali)-[~]
└─$ ls -l ~/testfile
-rw-rw-r-- 1 miguelorellana newtest 0 Sep 23 18:49 /home/miguelorellana/testf
ile

┌──(miguelorellana㉿kali)-[~]
└─$ sudo groupdel newtest

┌──(miguelorellana㉿kali)-[~]
└─$ ls -l ~/testfile
-rw-rw-r-- 1 miguelorellana 1306 0 Sep 23 18:49 /home/miguelorellana/testfile

┌──(miguelorellana㉿kali)-[~]
└─$ 
```

Tests what happens when the group is deleted

Miguel orellana

12.



```
┌──(miguelorellana㉿kali)-[~]
└─$ touch ~/testfile

┌──(miguelorellana㉿kali)-[~]
└─$ sudo chown :newtest ~/testfile

┌──(miguelorellana㉿kali)-[~]
└─$ ls -l ~/testfile
-rw-rw-r-- 1 miguelorellana newtest 0 Sep 23 18:49 /home/miguelorellana/testf
ile

┌──(miguelorellana㉿kali)-[~]
└─$ sudo groupdel newtest

┌──(miguelorellana㉿kali)-[~]
└─$ ls -l ~/testfile
-rw-rw-r-- 1 miguelorellana 1306 0 Sep 23 18:49 /home/miguelorellana/testfile

┌──(miguelorellana㉿kali)-[~]
└─$ sudo userdel -r u01306610
userdel: u01306610 mail spool (/var/mail/u01306610) not found

┌──(miguelorellana㉿kali)-[~]
└─$ ls /home
miguelorellana

┌──(miguelorellana㉿kali)-[~]
└─$ 
```

Remove the user and their home folder