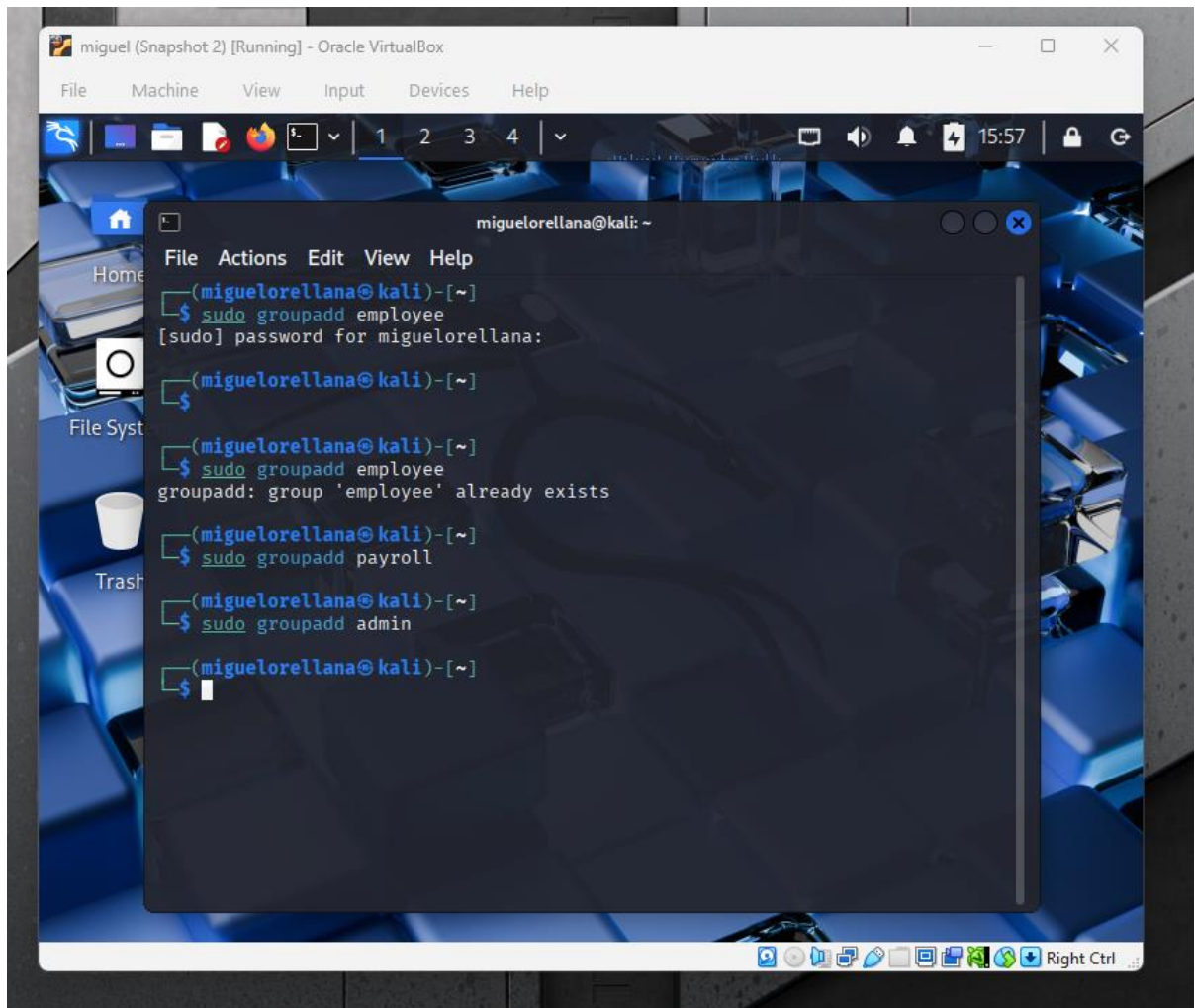
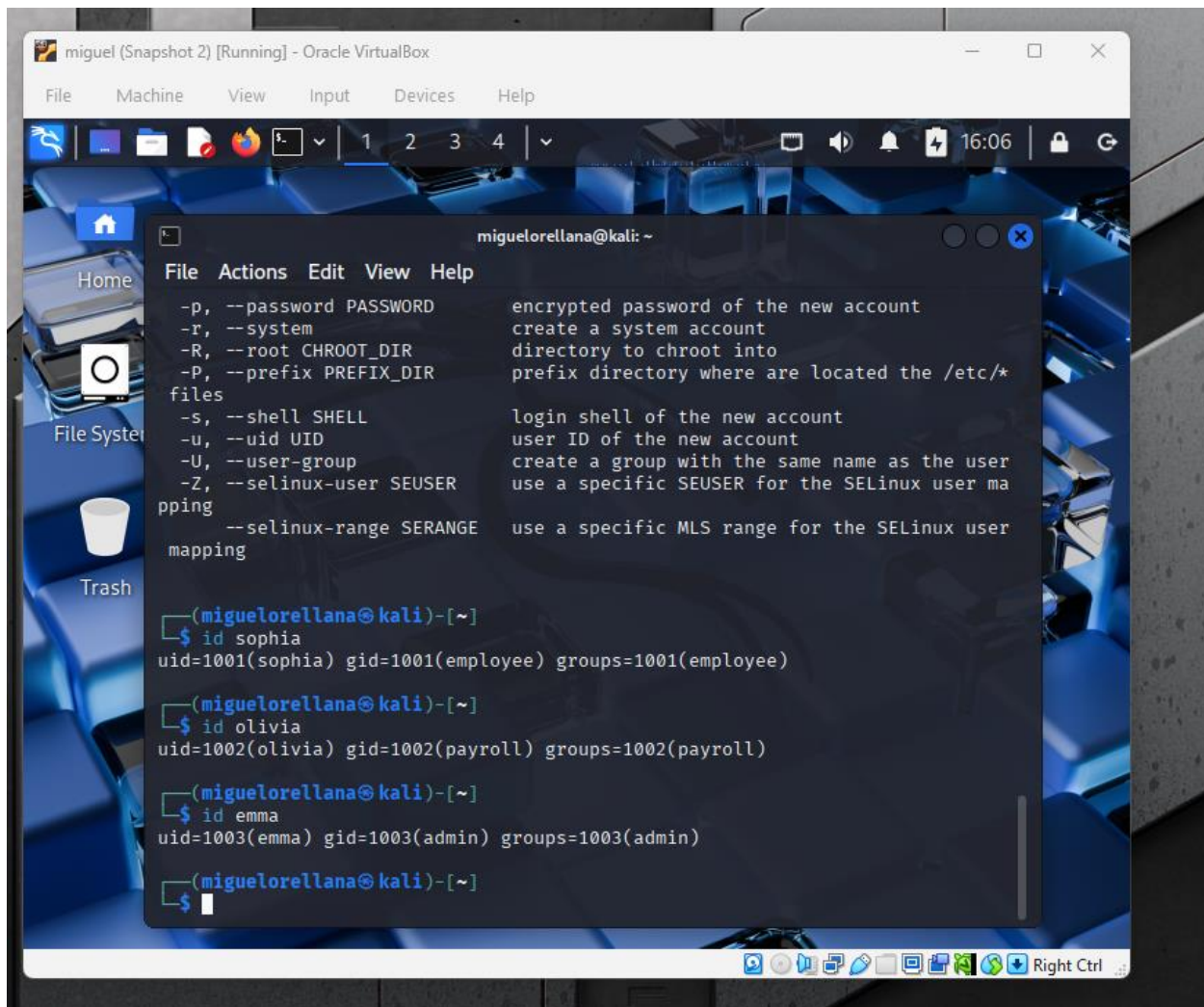




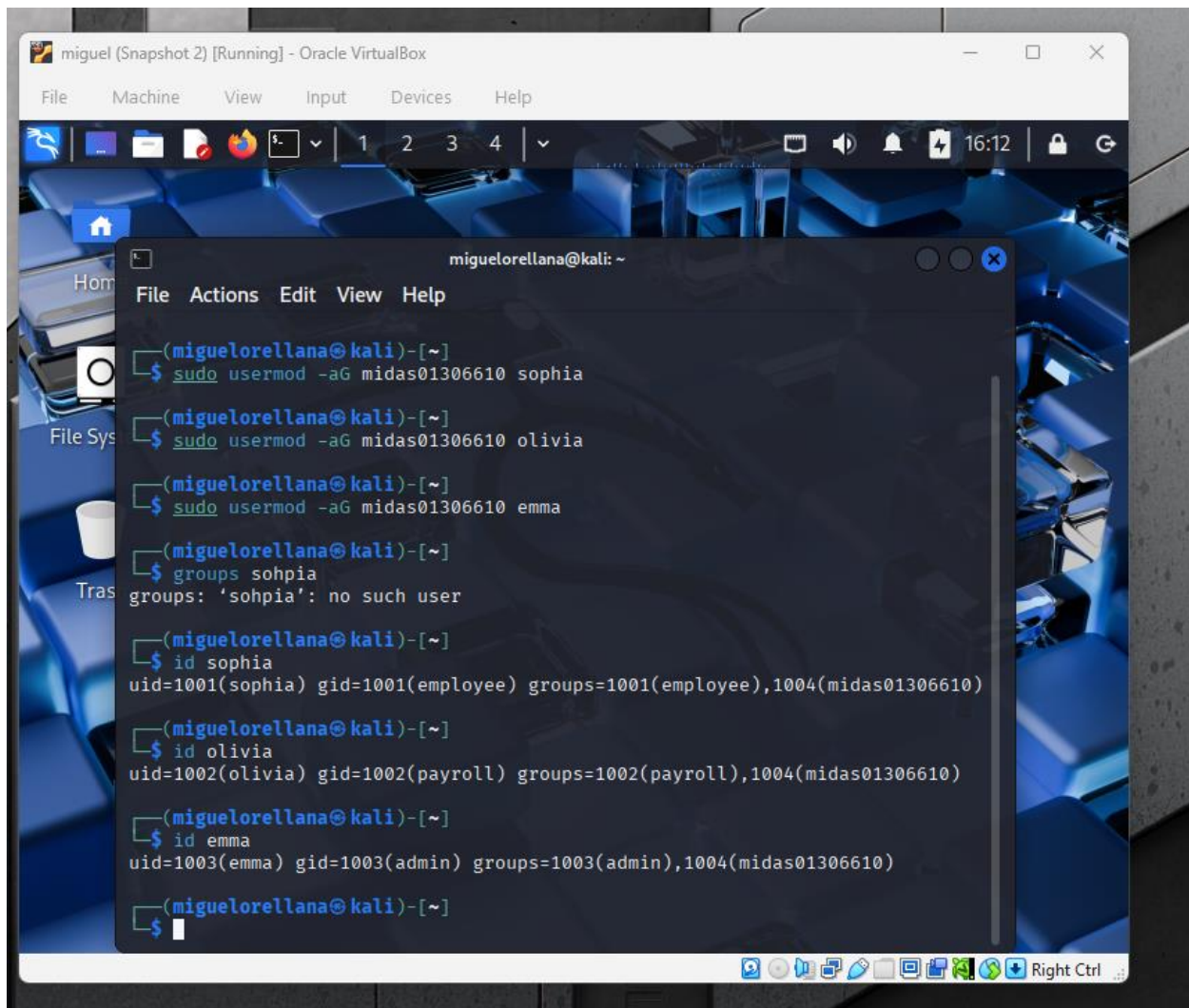
1. Create Three Groups

2.



Create Users and Set Groups

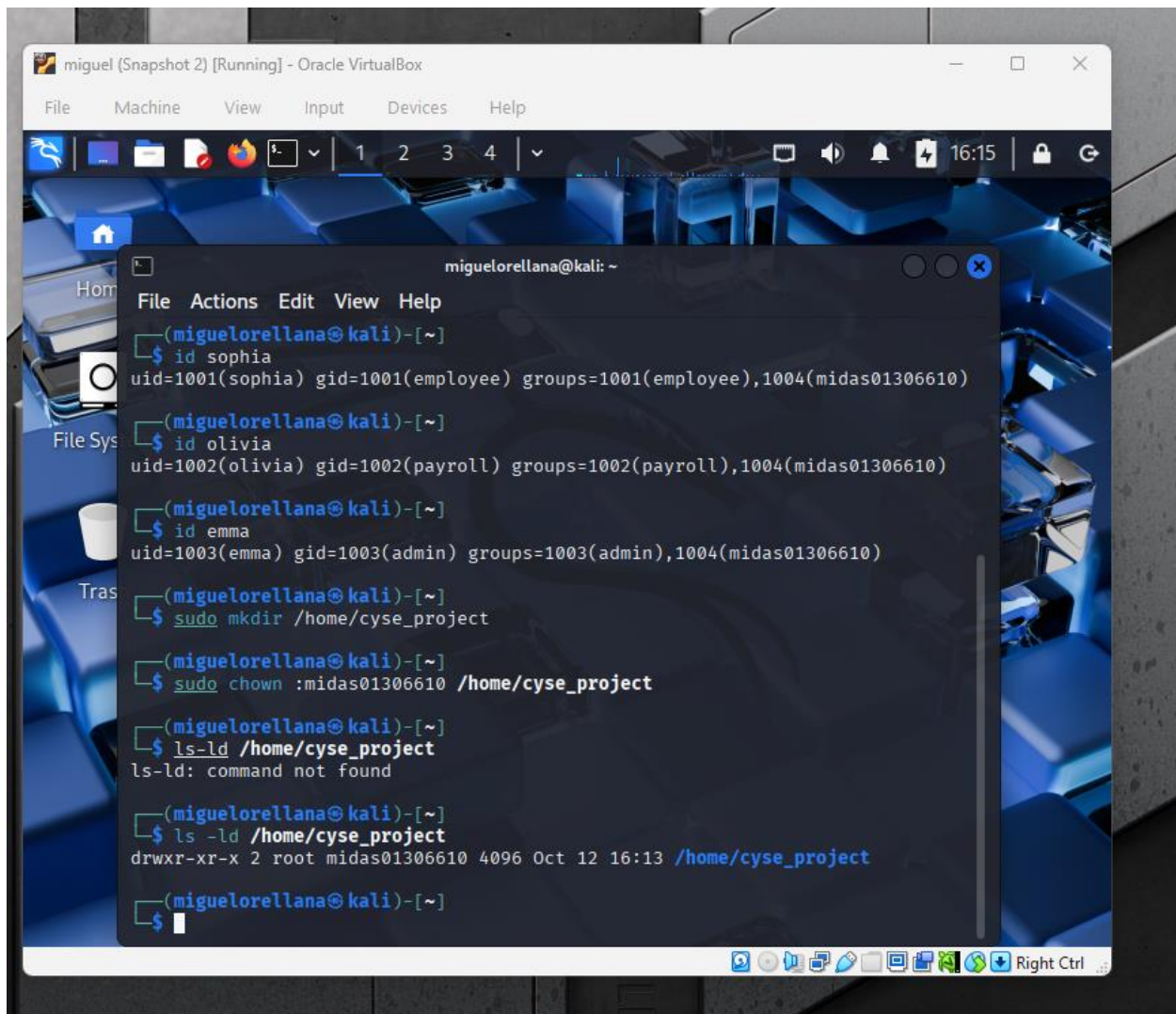
3.



```
miguelorellana@kali: ~  
File Actions Edit View Help  
(miguelorellana@kali)-[~]  
$ sudo usermod -aG midas01306610 sophia  
(miguelorellana@kali)-[~]  
$ sudo usermod -aG midas01306610 olivia  
(miguelorellana@kali)-[~]  
$ groups sohpie  
groups: 'sohpia': no such user  
(miguelorellana@kali)-[~]  
$ id sophia  
uid=1001(sophia) gid=1001(employee) groups=1001(employee),1004(midas01306610)  
(miguelorellana@kali)-[~]  
$ id olivia  
uid=1002(olivia) gid=1002(payload) groups=1002(payload),1004(midas01306610)  
(miguelorellana@kali)-[~]  
$ id emma  
uid=1003(emma) gid=1003(admin) groups=1003(admin),1004(midas01306610)  
(miguelorellana@kali)-[~]  
$
```

Create Shared Group and Add

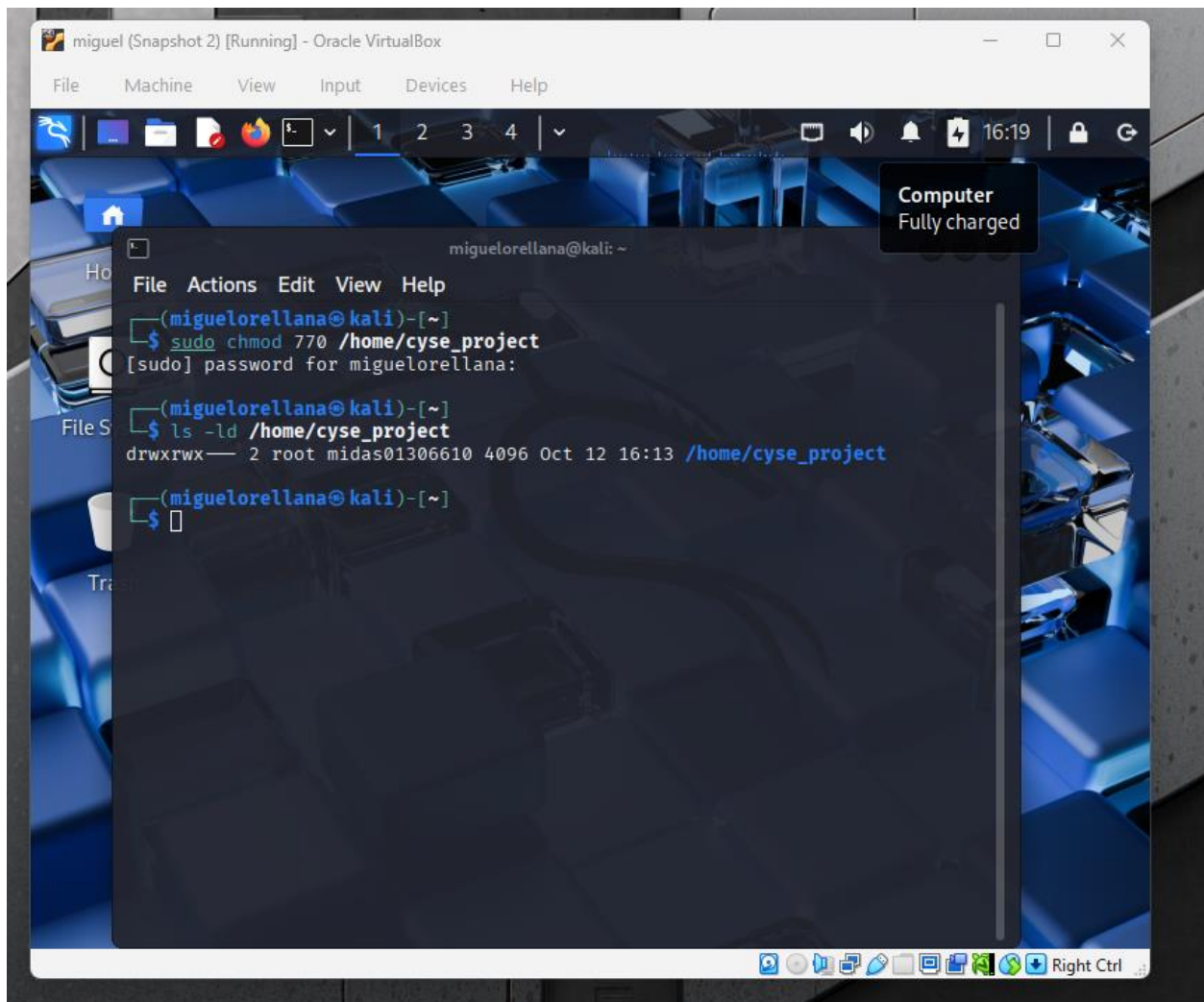
4.



```
miguel (Snapshot 2) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
1 2 3 4
miguelorellana@kali: ~
File Actions Edit View Help
(miguelorellana@kali)-[~]
$ id sophia
uid=1001(sophia) gid=1001(employee) groups=1001(employee),1004(midas01306610)
(miguelorellana@kali)-[~]
$ id olivia
uid=1002(olivia) gid=1002(payload) groups=1002(payload),1004(midas01306610)
(miguelorellana@kali)-[~]
$ id emma
uid=1003(emma) gid=1003(admin) groups=1003(admin),1004(midas01306610)
(miguelorellana@kali)-[~]
$ sudo mkdir /home/cyse_project
(miguelorellana@kali)-[~]
$ sudo chown :midas01306610 /home/cyse_project
(miguelorellana@kali)-[~]
$ ls -ld /home/cyse_project
ls-ld: command not found
(miguelorellana@kali)-[~]
$ ls -ld /home/cyse_project
drwxr-xr-x 2 root midas01306610 4096 Oct 12 16:13 /home/cyse_project
(miguelorellana@kali)-[~]
$
```

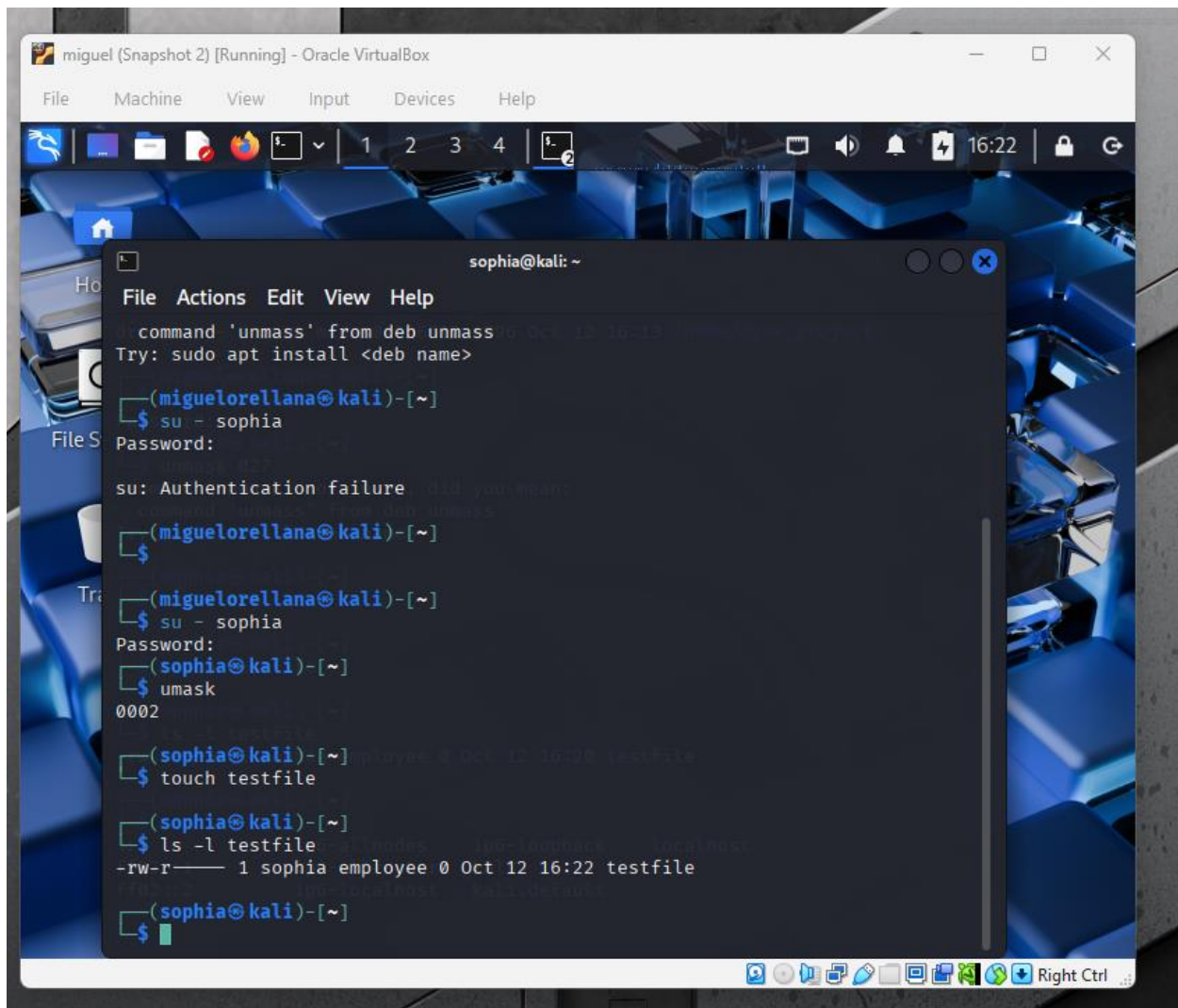
Create Shared Directory

5.



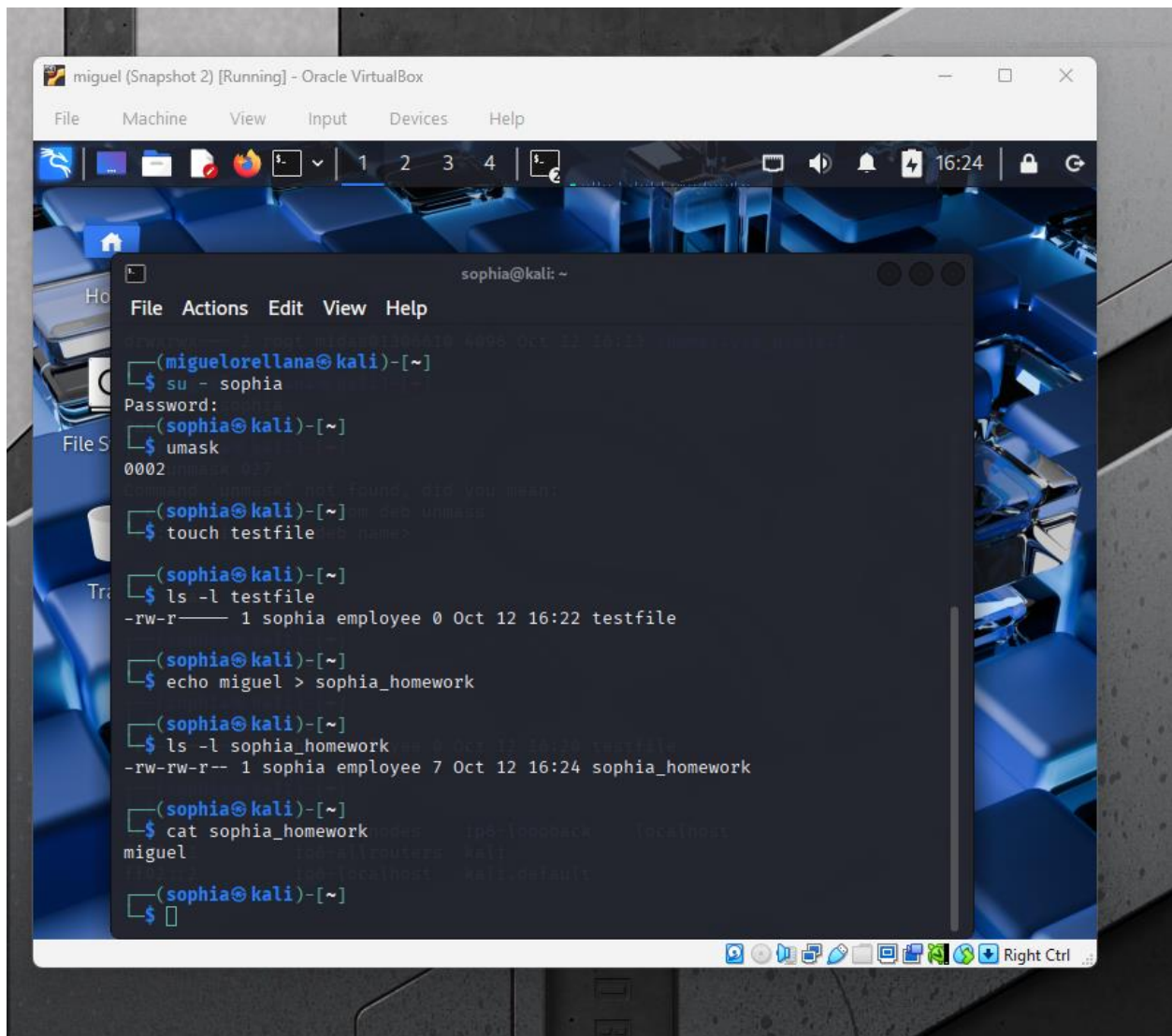
Set Permissions

6.



Set umask for Sophia

7.



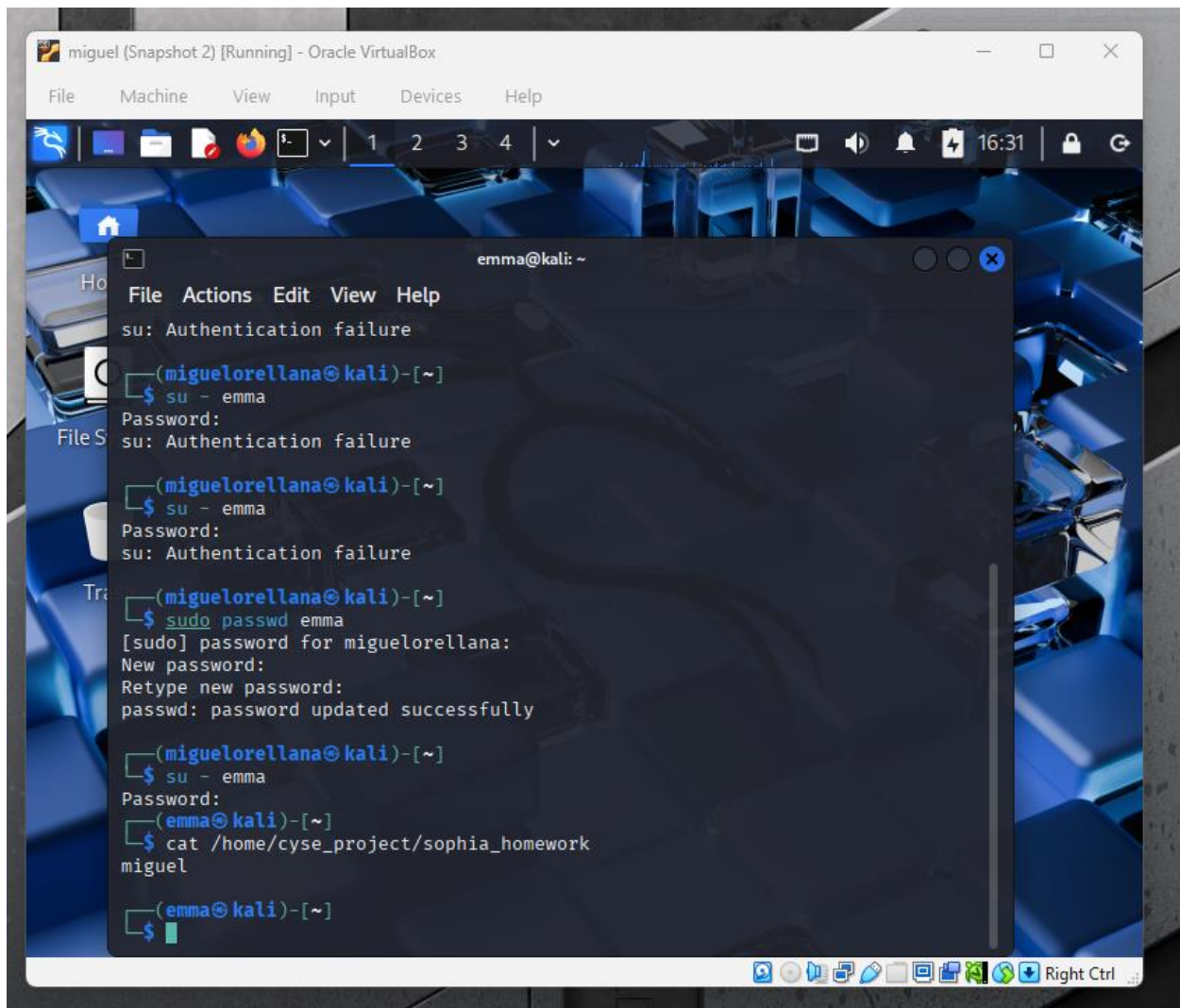
Create File

8.

```
miguel (Snapshot 2) [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
sophia@kali: ~
File Actions Edit View Help
(sophia@kali)-[~]
$ touch testfile
(sophia@kali)-[~]
$ ls -l testfile
-rw-r-- 1 sophia employee 0 Oct 12 16:22 testfile
(sophia@kali)-[~]
$ echo miguel > sophia_homework
(sophia@kali)-[~]
$ ls -l sophia_homework
-rw-rw-r-- 1 sophia employee 7 Oct 12 16:24 sophia_homework
(sophia@kali)-[~]
$ cat sophia_homework
miguel
(sophia@kali)-[~]
$ cp sophia_homework /home/cyse_project/
(sophia@kali)-[~]
$ ls -l /home/cyse_project/sophia_homework
-rw-rw-r-- 1 sophia employee 7 Oct 12 16:25 /home/cyse_project/sophia_homework
(sophia@kali)-[~]
$
```

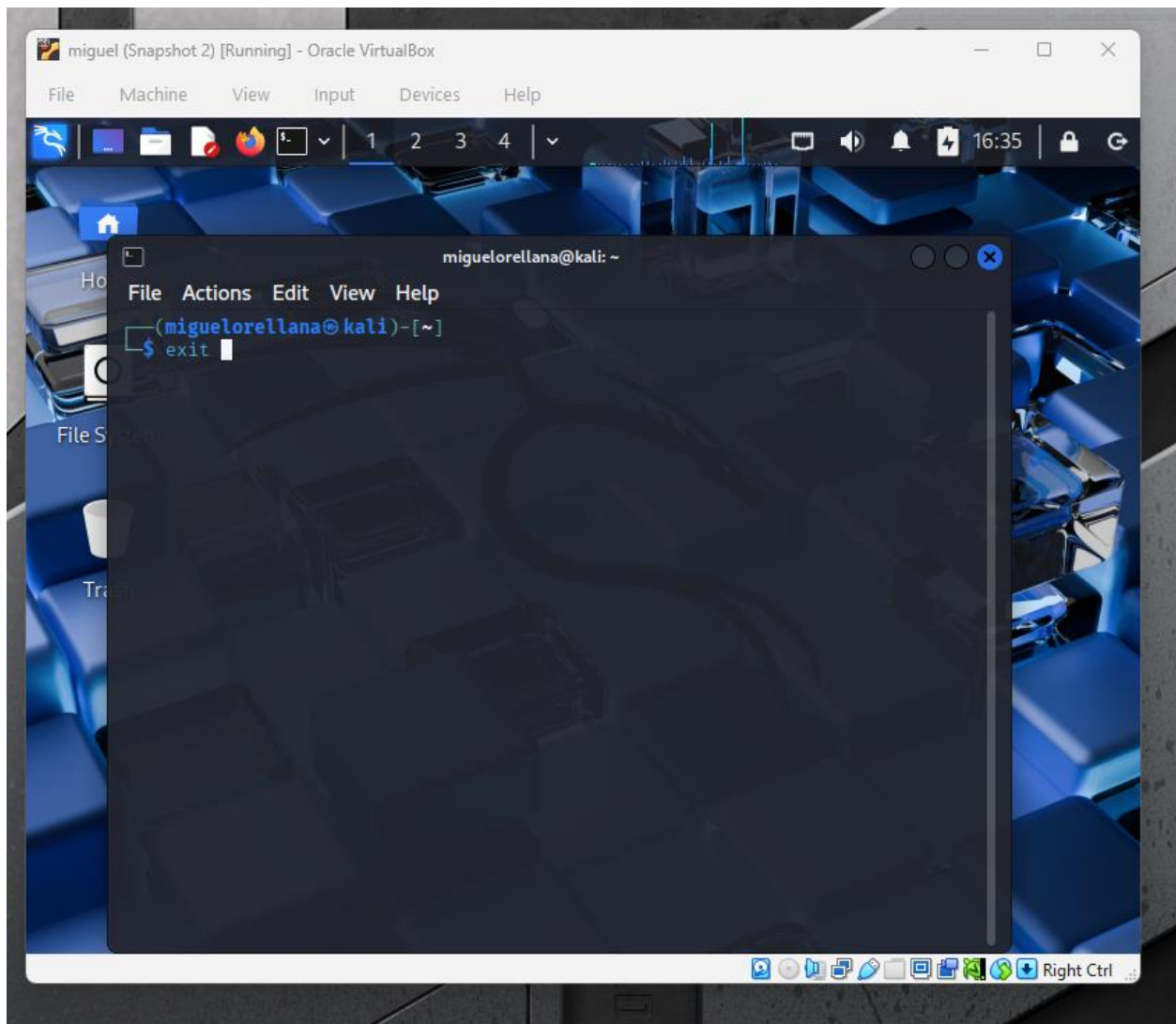
Copy to Shared Directory

9.



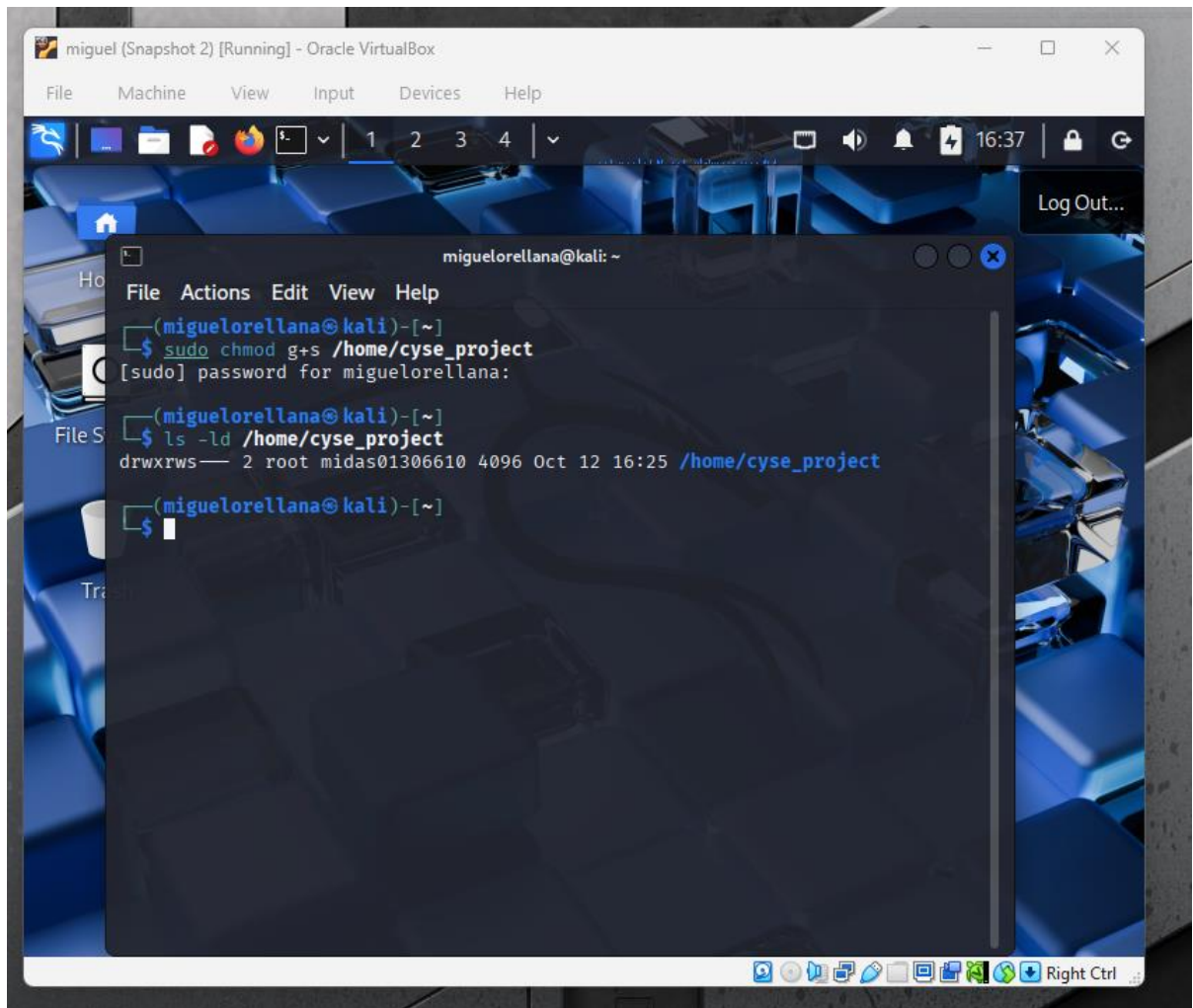
Switch to Emma

10.



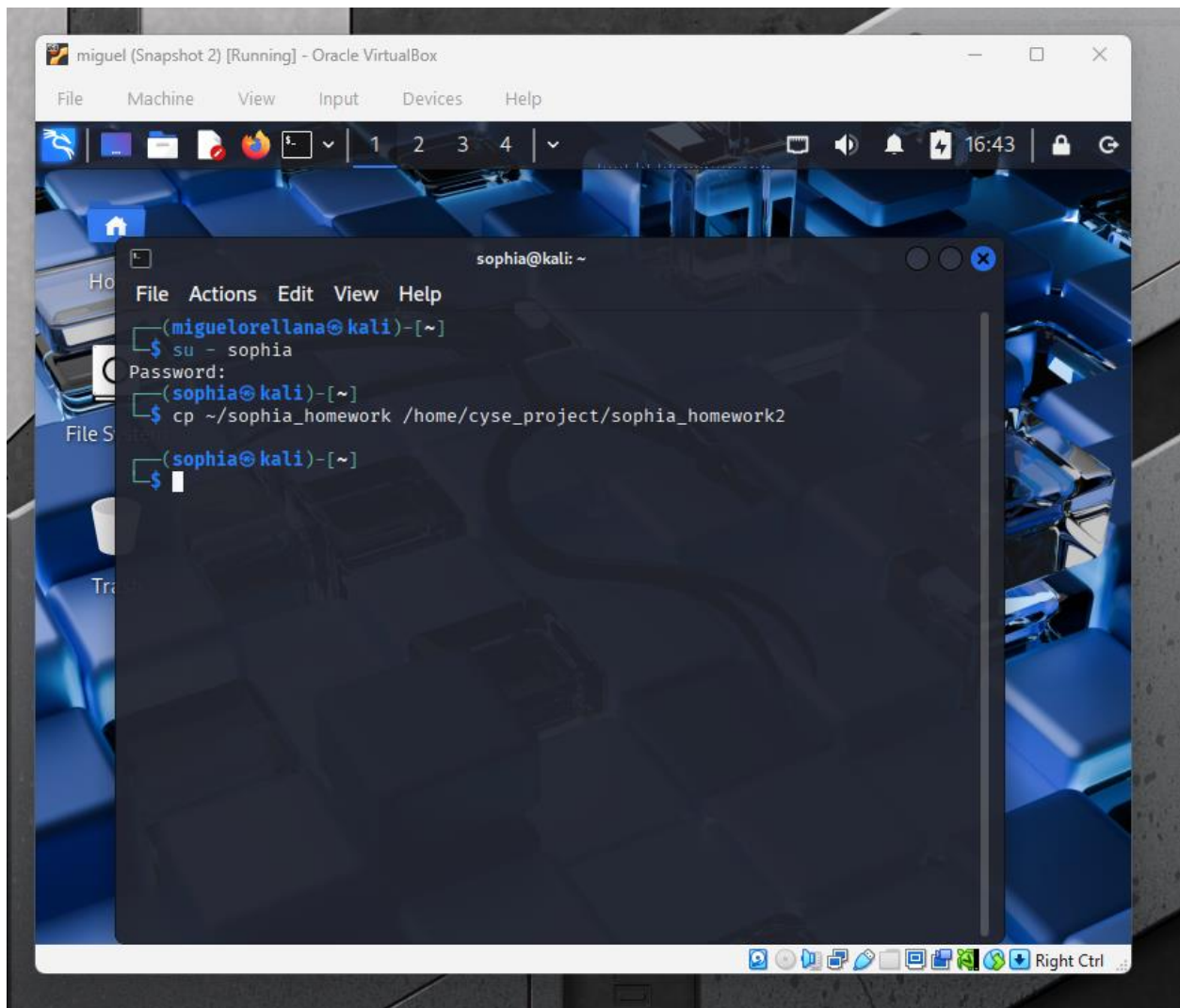
Exit

TASK B



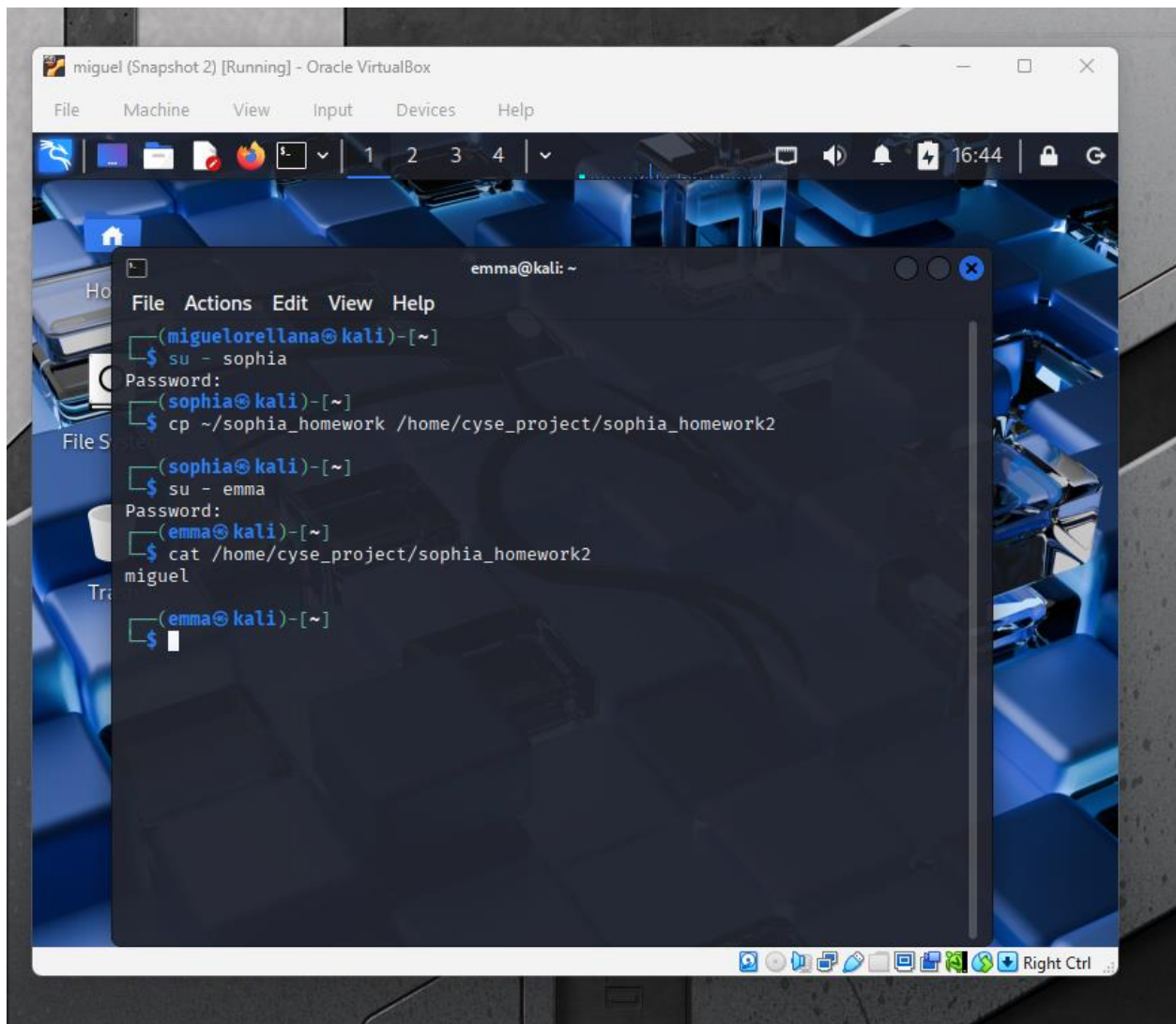
1. Set SGID

2.



Sophia Copies

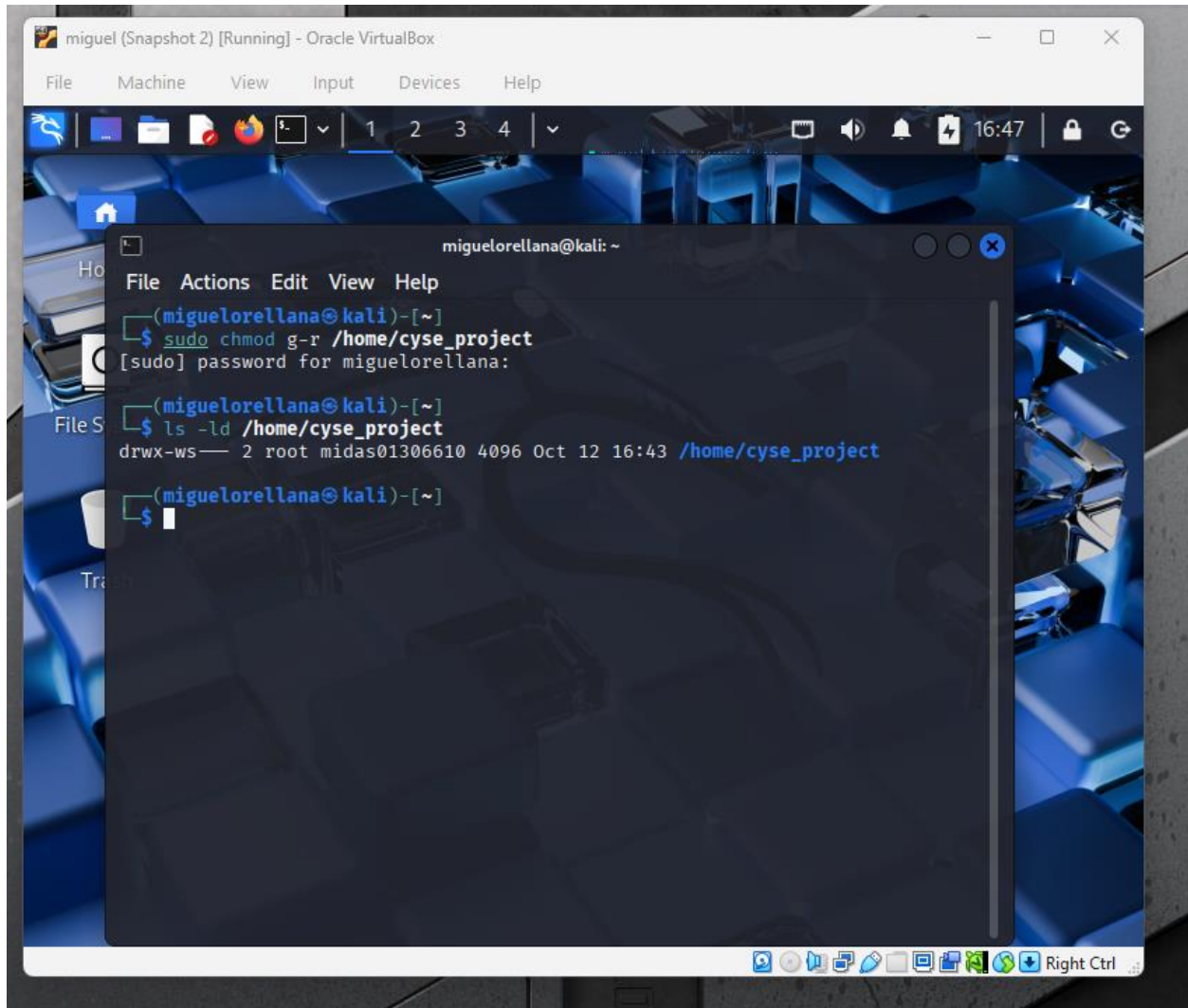
3.



Emma

TASK C

1.



Remove group read permission

2.