

BÀI TẬP THỰC HÀNH 1

Câu 1:

- Tạo cây thư mục sau (lệnh mkdir):

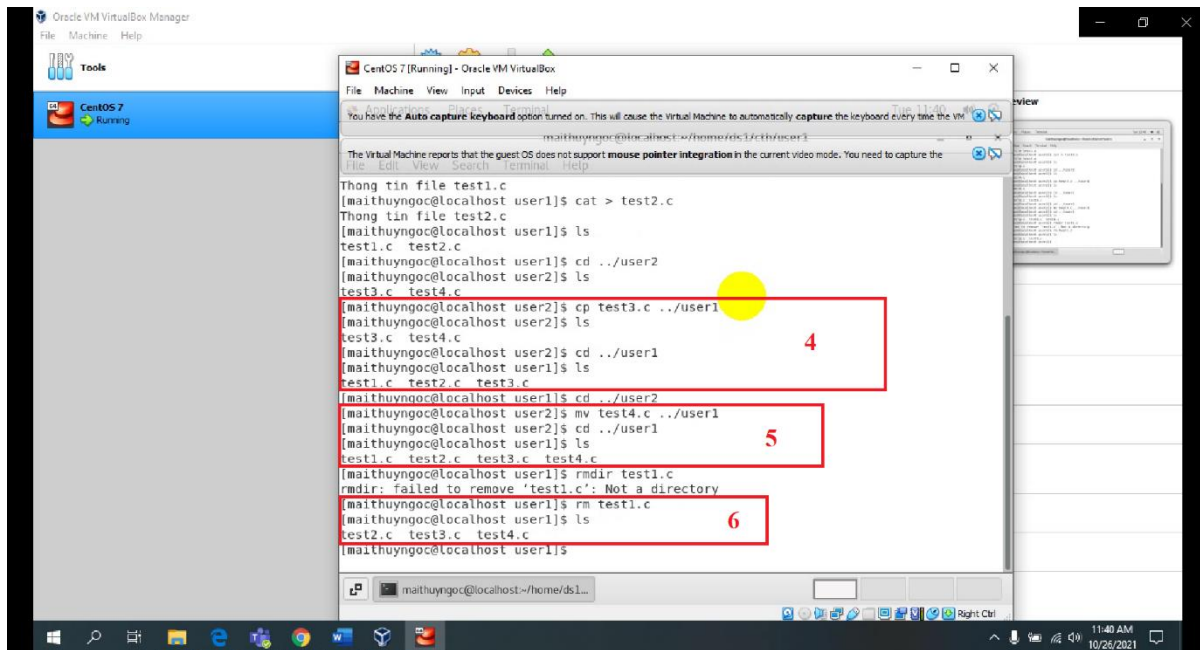


- Tạo file test1.c, test2.c trong /user1; file test3.c, test4.c trong /user2 (lệnh touch, cat,...)
- Xem thông tin chi tiết về file vừa tạo (lệnh ls)

```
maithuyngoc@localhost ~]$ mkdir -p ~/home/ds1/cth/{user1,user2} 1
maithuyngoc@localhost ~]$ cd ~/home/ds1/cth/user1
maithuyngoc@localhost user1]$ touch test1.c
maithuyngoc@localhost user1]$ touch test2.c
maithuyngoc@localhost user1]$ cd ~/home/ds1/cth/user2
maithuyngoc@localhost user2]$ touch test3.c
maithuyngoc@localhost user2]$ touch test4.c
maithuyngoc@localhost user2]$ cat > test3.c
Thong tin file test3.c
maithuyngoc@localhost user2]$ cat > test4.c
Thong tin file test4.c[maithuyngoc@localhost user2]$ 2,3
maithuyngoc@localhost user2]$ cd ~/home/ds1/cth/user1
maithuyngoc@localhost user1]$ cat > test1.c
Thong tin file test1.c
maithuyngoc@localhost user1]$ cat > test2.c
Thong tin file test2.c
maithuyngoc@localhost user1]$ ls
test1.c test2.c
maithuyngoc@localhost user1]$ cd ../user2
maithuyngoc@localhost user2]$ ls
test3.c test4.c
maithuyngoc@localhost user2]$ cp test3.c ../user1
maithuyngoc@localhost user2]$ ls
test3.c test4.c
```

Hình 1. 1. Lệnh ý 1, 2, 3 của câu 1

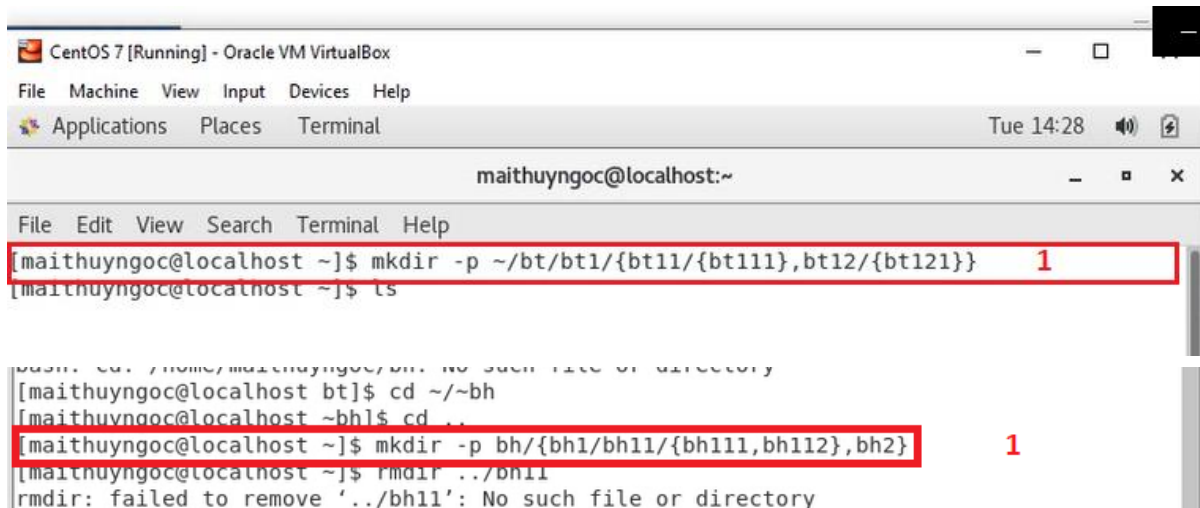
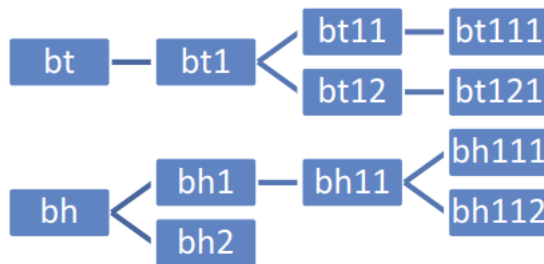
- Sao chép file test3.c từ /user2 sang /user1 (lệnh cp)
- Di chuyển file test4.c từ /user2 sang /user1 (lệnh mv)
- Xóa file test1.c trong /user1 (lệnh rmdir)



Hình 1. 2. Lệnh ý 4, 5, 6 của câu 1

Câu 2:

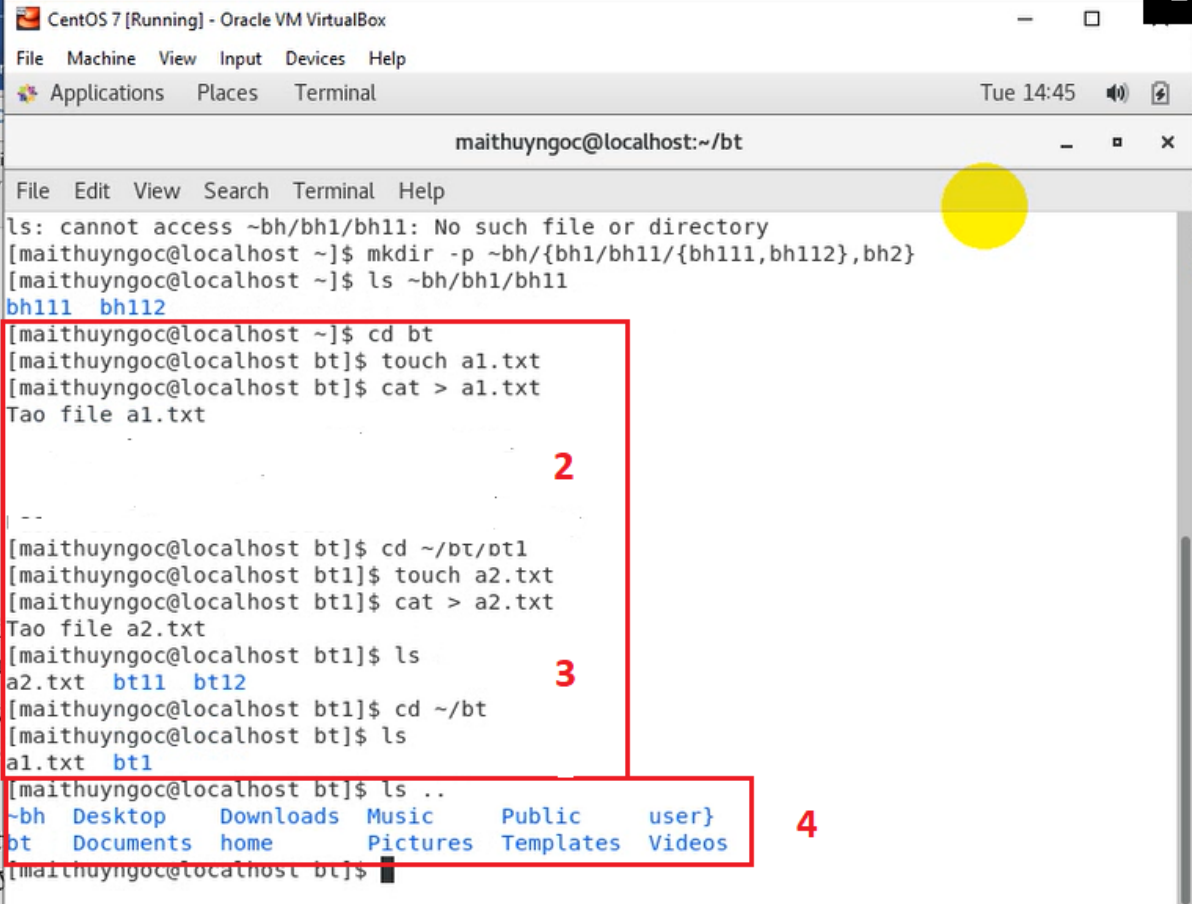
- Tạo cây thư mục sau (lệnh mkdir)



Hình 2. 1. Lệnh của ý 1

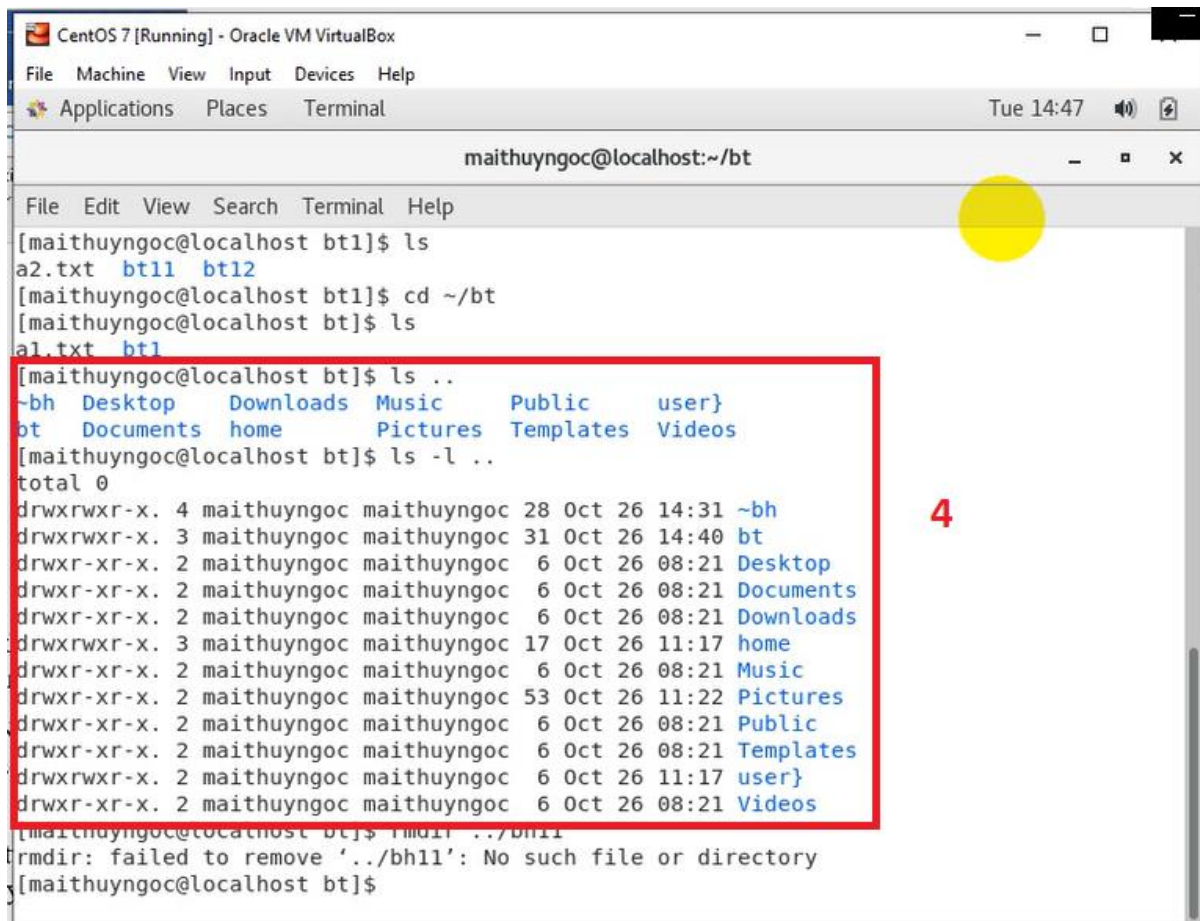
- Tạo file a1.txt trong /bt, file a2.txt trong /bt1 (lệnh touch, cat,...)
- Xem thông tin chi tiết về file vừa tạo (lệnh ls)

- Thực hiện xem nội dung /etc (/etc là thư mục mặc định, lệnh ls)



```
CentOS 7 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places Terminal Tue 14:45
maithuyngoc@localhost:~/bt

File Edit View Search Terminal Help
ls: cannot access ~bh/bh1/bh11: No such file or directory
[maithuyngoc@localhost ~]$ mkdir -p ~bh/{bh1/bh11/{bh111,bh112},bh2}
[maithuyngoc@localhost ~]$ ls ~bh/bh1/bh11
bh111 bh112
[maithuyngoc@localhost ~]$ cd bt
[maithuyngoc@localhost bt]$ touch a1.txt
[maithuyngoc@localhost bt]$ cat > a1.txt
Tao file a1.txt
2
[maithuyngoc@localhost bt]$ cd ~/bt/bt1
[maithuyngoc@localhost bt1]$ touch a2.txt
[maithuyngoc@localhost bt1]$ cat > a2.txt
Tao file a2.txt
[maithuyngoc@localhost bt1]$ ls
a2.txt bt11 bt12
3
[maithuyngoc@localhost bt1]$ cd ~/bt
[maithuyngoc@localhost bt]$ ls
a1.txt bt1
4
[maithuyngoc@localhost bt]$ ls ..
~bh Desktop Downloads Music Public user}
bt Documents home Pictures Templates Videos
[maithuyngoc@localhost bt]$
```



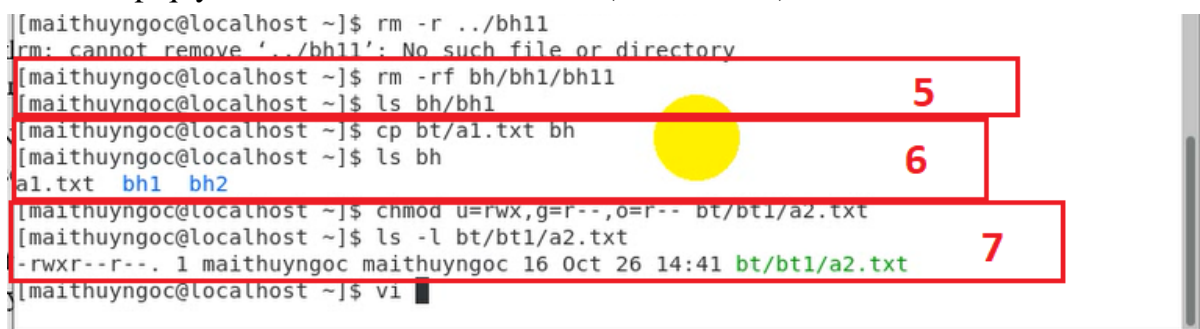
```
CentOS 7 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Applications Places Terminal
Tue 14:47

maithuyngoc@localhost:~/bt

File Edit View Search Terminal Help
[maithuyngoc@localhost bt1]$ ls
a2.txt  bt11  bt12
[maithuyngoc@localhost bt1]$ cd ~/bt
[maithuyngoc@localhost bt]$ ls
a1.txt  bt1
[maithuyngoc@localhost bt]$ ls ..
~bh Desktop Downloads Music Public user}
bt Documents home Pictures Templates Videos
[maithuyngoc@localhost bt]$ ls -l ..
total 0
drwxrwxr-x. 4 maithuyngoc maithuyngoc 28 Oct 26 14:31 ~bh
drwxrwxr-x. 3 maithuyngoc maithuyngoc 31 Oct 26 14:40 bt
drwxr-xr-x. 2 maithuyngoc maithuyngoc 6 Oct 26 08:21 Desktop
drwxr-xr-x. 2 maithuyngoc maithuyngoc 6 Oct 26 08:21 Documents
drwxr-xr-x. 2 maithuyngoc maithuyngoc 6 Oct 26 08:21 Downloads
drwxrwxr-x. 3 maithuyngoc maithuyngoc 17 Oct 26 11:17 home
drwxr-xr-x. 2 maithuyngoc maithuyngoc 6 Oct 26 08:21 Music
drwxr-xr-x. 2 maithuyngoc maithuyngoc 53 Oct 26 11:22 Pictures
drwxr-xr-x. 2 maithuyngoc maithuyngoc 6 Oct 26 08:21 Public
drwxr-xr-x. 2 maithuyngoc maithuyngoc 6 Oct 26 08:21 Templates
drwxrwxr-x. 2 maithuyngoc maithuyngoc 6 Oct 26 11:17 user}
drwxr-xr-x. 2 maithuyngoc maithuyngoc 6 Oct 26 08:21 Videos
[maithuyngoc@localhost bt]$ rmdir ../bh11
rmdir: failed to remove '../bh11': No such file or directory
[maithuyngoc@localhost bt]$
```

Hình 2. 2. Lệnh của ý 2, 3, 4

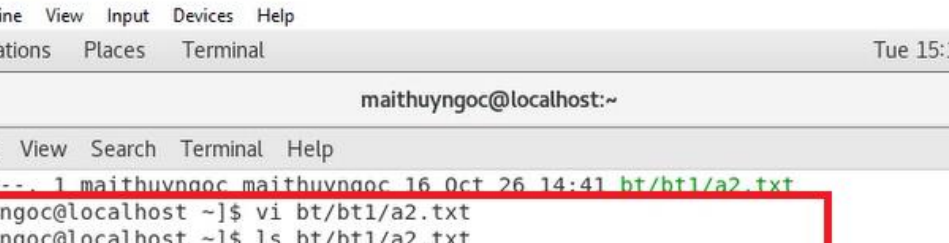
- Xóa /bh11 (lệnh rmdir)
- Copy file /bt/a1.txt sang /bh (lệnh cp)
- Thiết lập quyền rwx r-- r-- cho file a2.txt (lệnh chmod)



```
[maithuyngoc@localhost ~]$ rm -r ../bh11
rm: cannot remove '../bh11': No such file or directory
[maithuyngoc@localhost ~]$ rm -rf bh/bh1/bh11
[maithuyngoc@localhost ~]$ ls bh/bh1
[maithuyngoc@localhost ~]$ cp bt/a1.txt bh
[maithuyngoc@localhost ~]$ ls bh
a1.txt  bh1  bh2
[maithuyngoc@localhost ~]$ chmod u=rwx,g=r--,o=r-- bt/bt1/a2.txt
[maithuyngoc@localhost ~]$ ls -l bt/bt1/a2.txt
-rwxr--r--. 1 maithuyngoc maithuyngoc 16 Oct 26 14:41 bt/bt1/a2.txt
[maithuyngoc@localhost ~]$ vi
```

Hình 2. 3. Lệnh của ý 5, 6, 7

- Thêm nội dung bất kỳ vào file a2.txt và ghi lại sau đó thoát file (lệnh vi, vim, nano,...)
- Xem lại nội dung file đã thêm nội dung (cat, more, less,...)



CentOS 7 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Applications Places Terminal Tue 15:14

maithuyngoc@localhost:~

File Edit View Search Terminal Help

-rwxr--r-- 1 maithuyngoc maithuyngoc 16 Oct 26 14:41 bt/bt1/a2.txt

[maithuyngoc@localhost ~]\$ vi bt/bt1/a2.txt

[maithuyngoc@localhost ~]\$ ls bt/bt1/a2.txt

bt/bt1/a2.txt

[maithuyngoc@localhost ~]\$ vim bt/bt1/a2.txt

[maithuyngoc@localhost ~]\$ cd bt/bt1

[maithuyngoc@localhost bt1]\$ cat a2.txt

Sua file a2.txt thanh cong - Sua file lan 2

[maithuyngoc@localhost bt1]\$ cat a2.txt | more

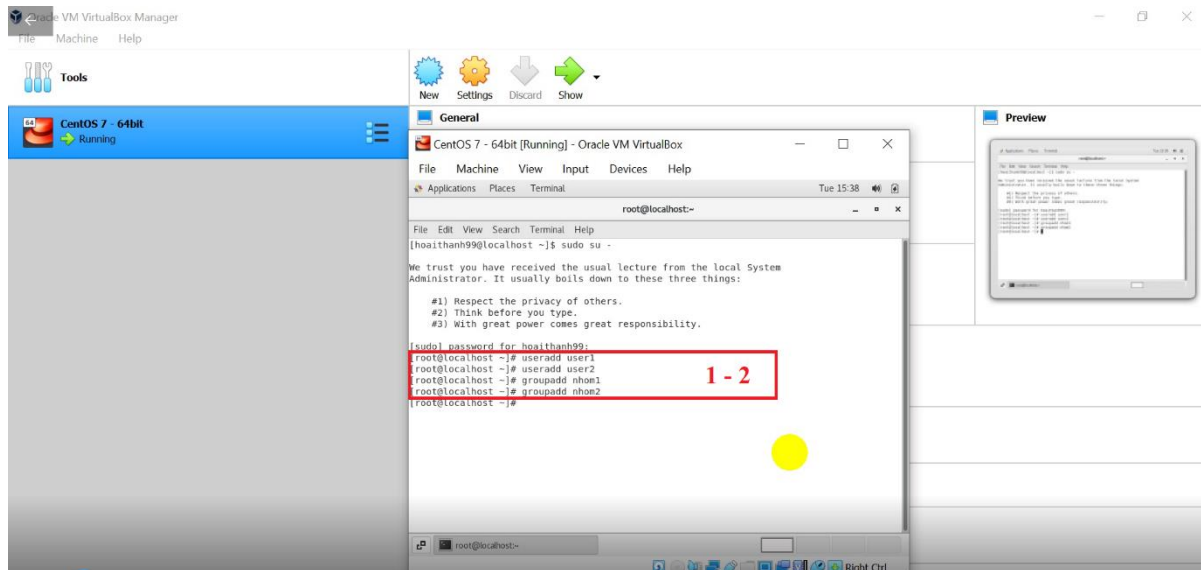
Sua file a2.txt thanh cong - Sua file lan 2

[maithuyngoc@localhost bt1]\$ cat a2.txt | less

[maithuyngoc@localhost bt1]\$

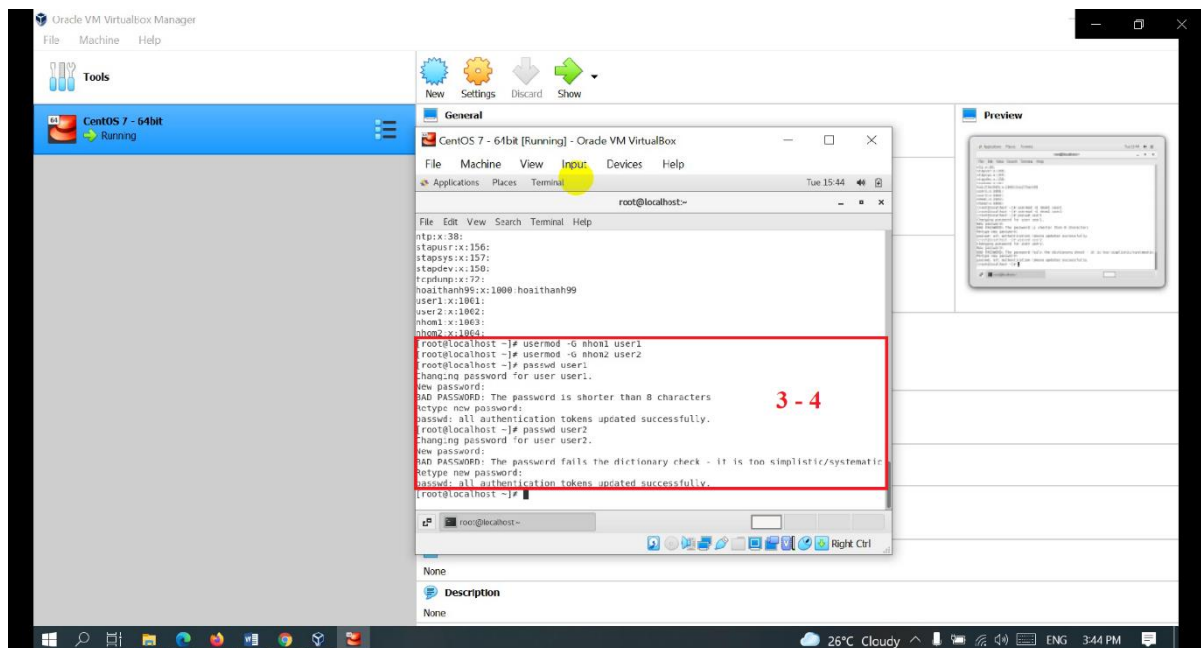
Câu 3:

- Tạo 2 user: user1, user2 (lệnh useradd)
- Tạo 2 group: nhóm1, nhóm2 (lệnh groupadd)



Hình 3. 1. Lệnh ý 1, 2 của câu 3

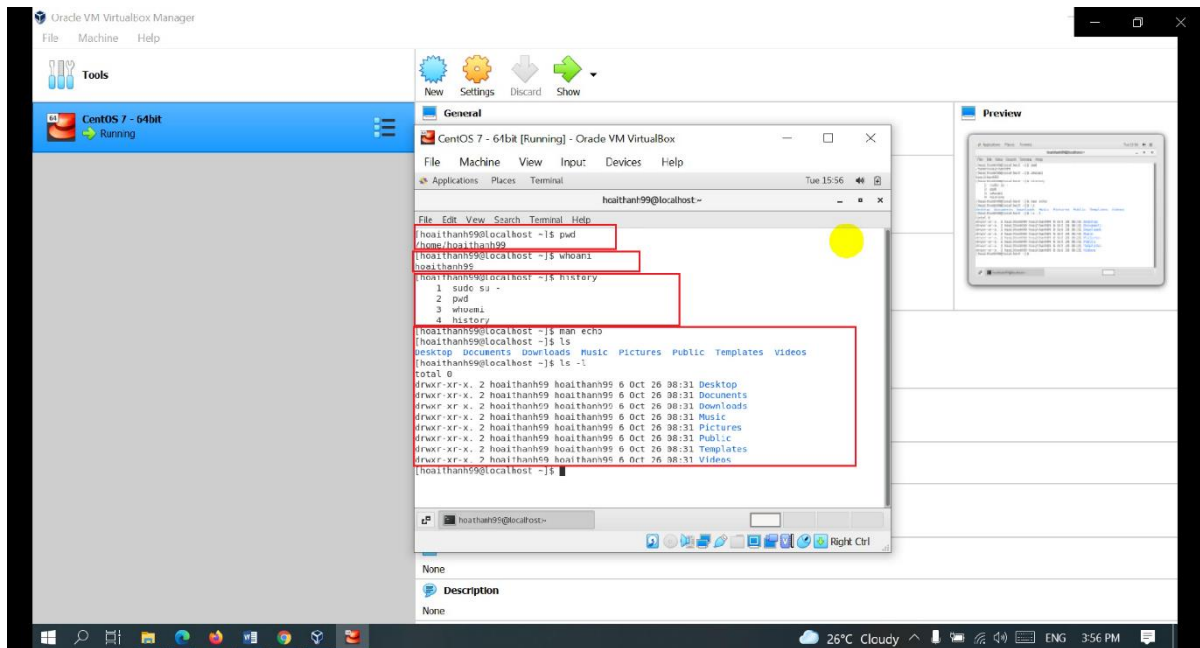
- Thêm user1 vào nhóm1, user2 vào nhóm2 (lệnh usermod)
- Gán mật khẩu cho user1, user2 (lệnh passwd)



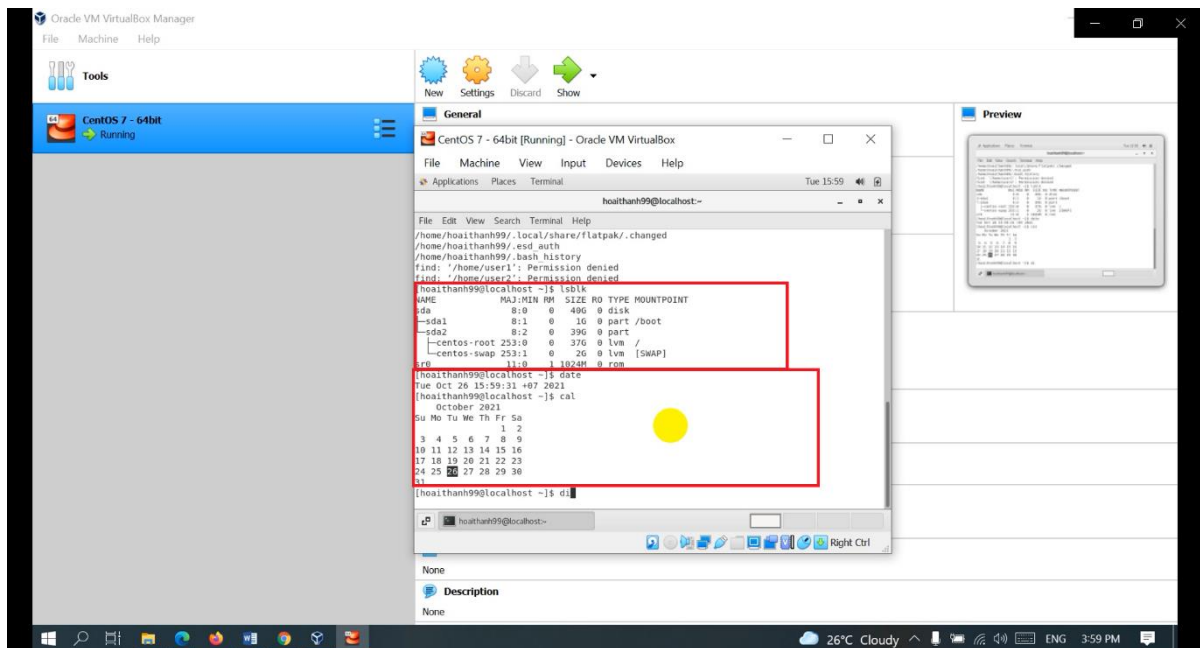
Hình 3. 2. Lệnh ý 4, 5 của câu 3

Câu 4:

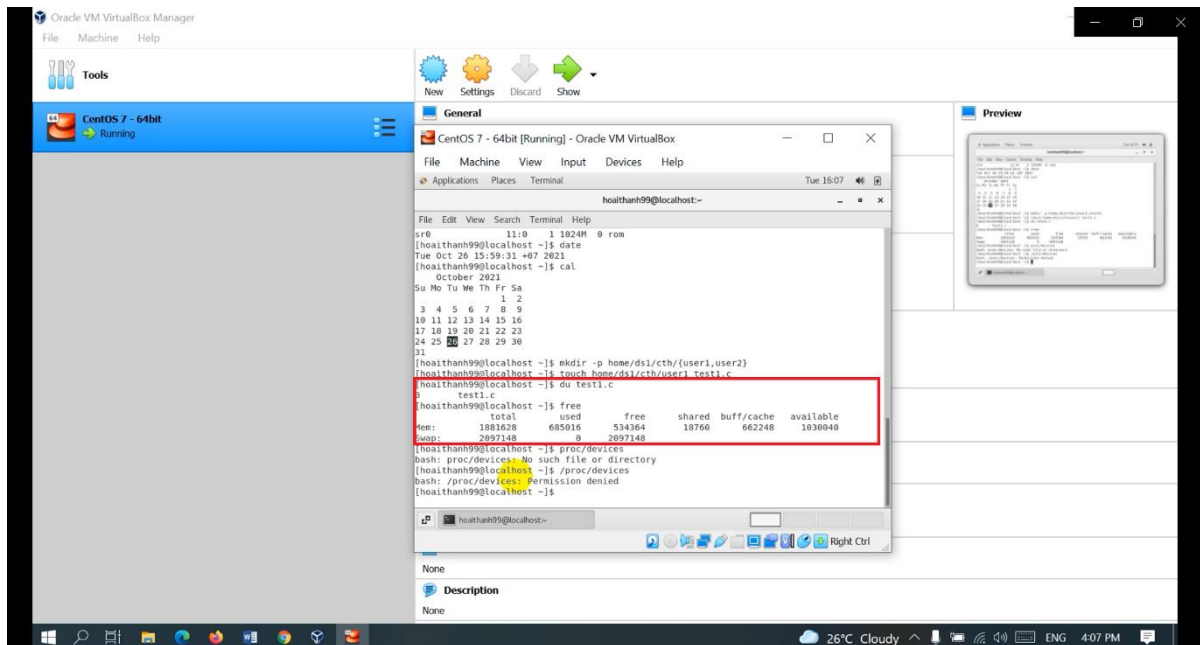
Thực hiện các lệnh khác trong Terminal: sudo, pwd, whoami, env, history, man, ls, find, lsblk, date/cal, di, du, free, cat/proc/cupinfo, uname, top, ifconfig, ping, uptime, service, clear, exit, kill,... (các lệnh có trong slide)



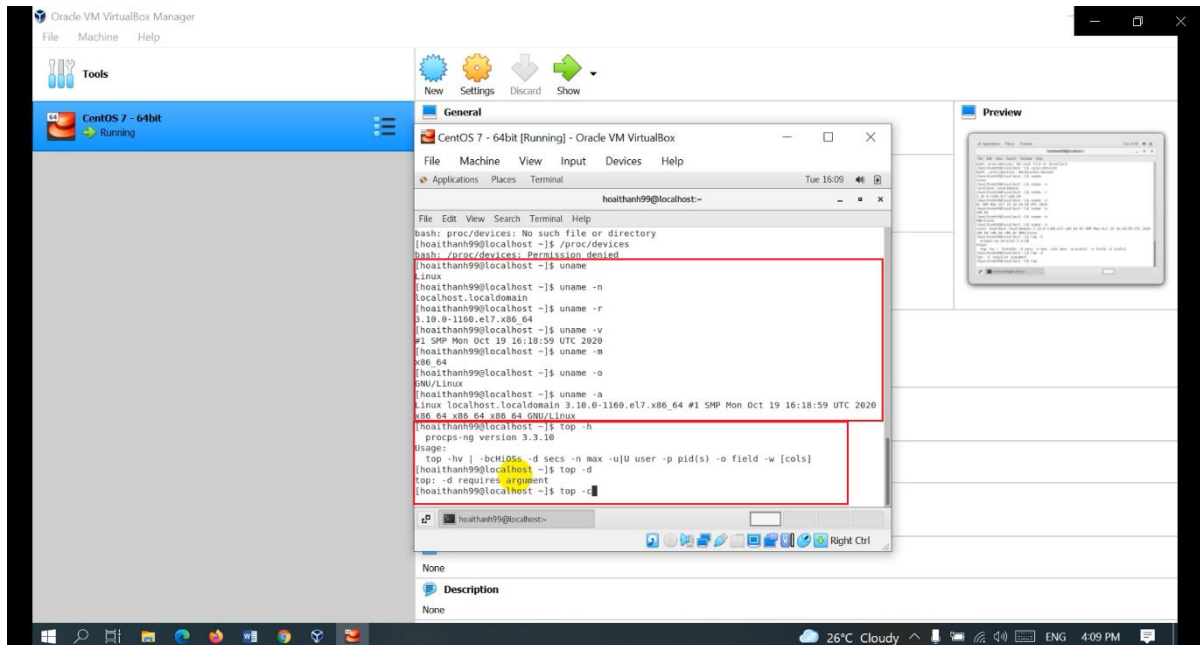
Hình 4. 1. *Lệnh pwd, whoami, history, man, ls*



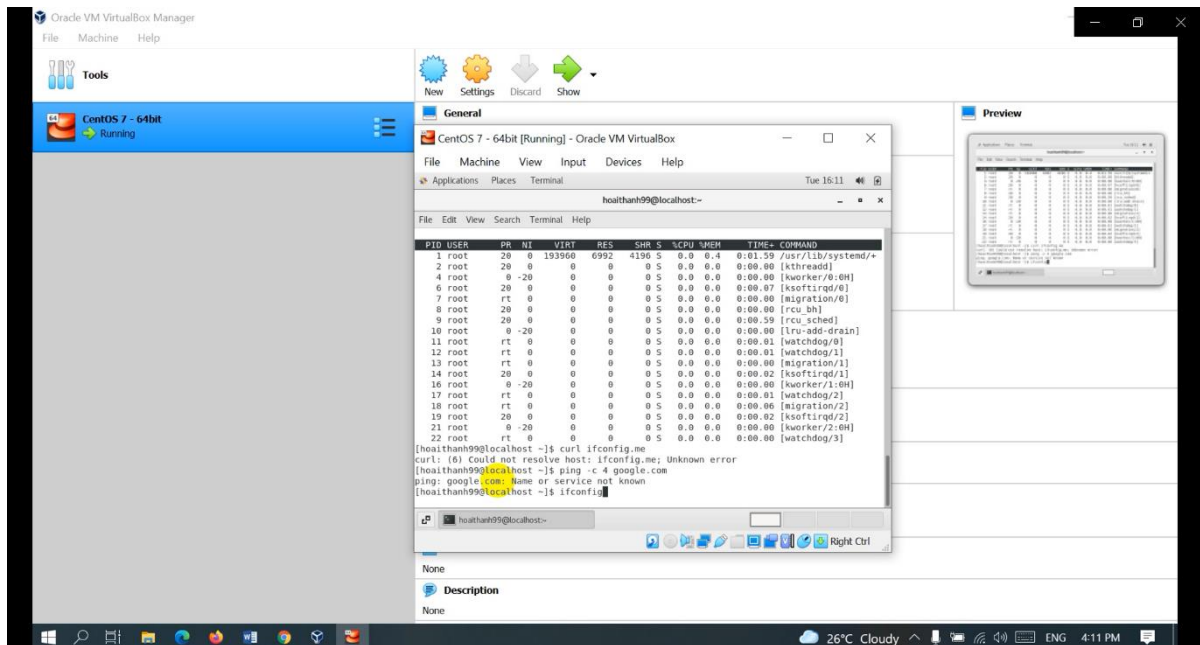
Hình 4. 2. *Lệnh lsblk, date/cal*



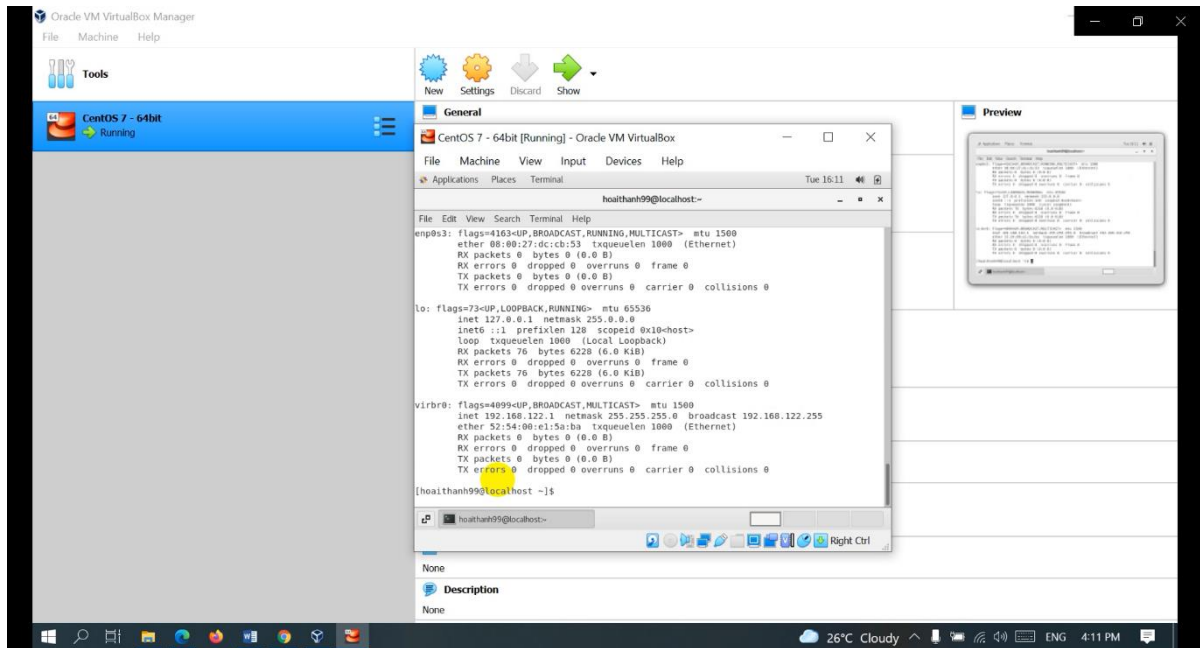
Hình 4. 3. Lệnh du



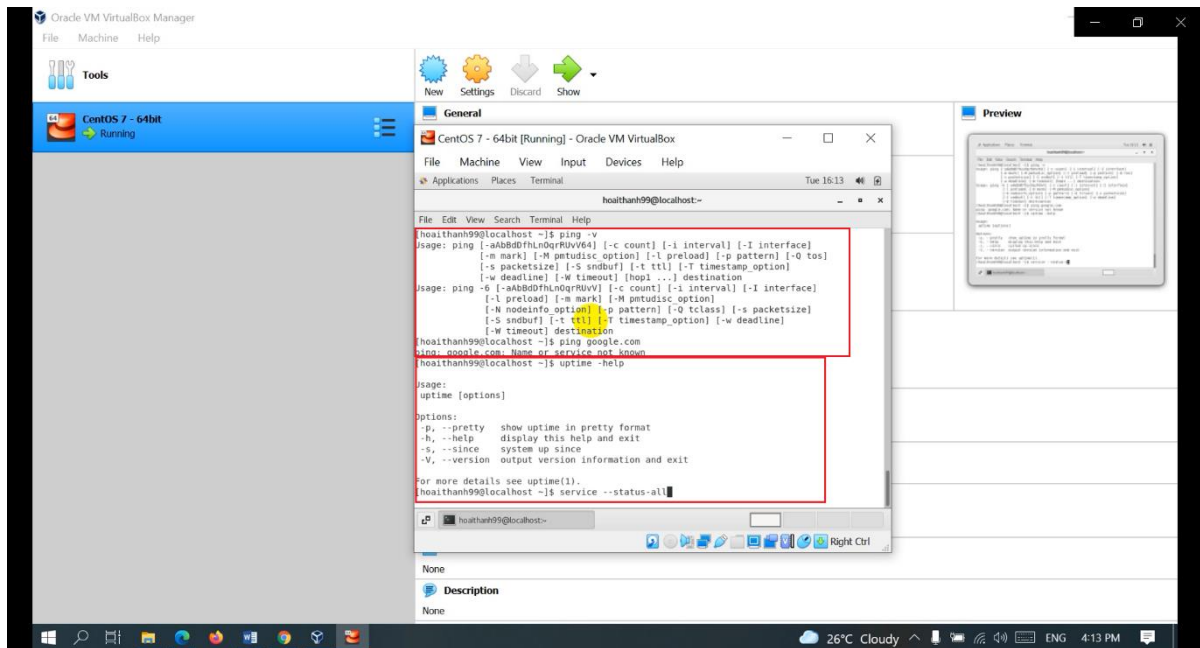
Hình 4. 4. Lệnh uname, top



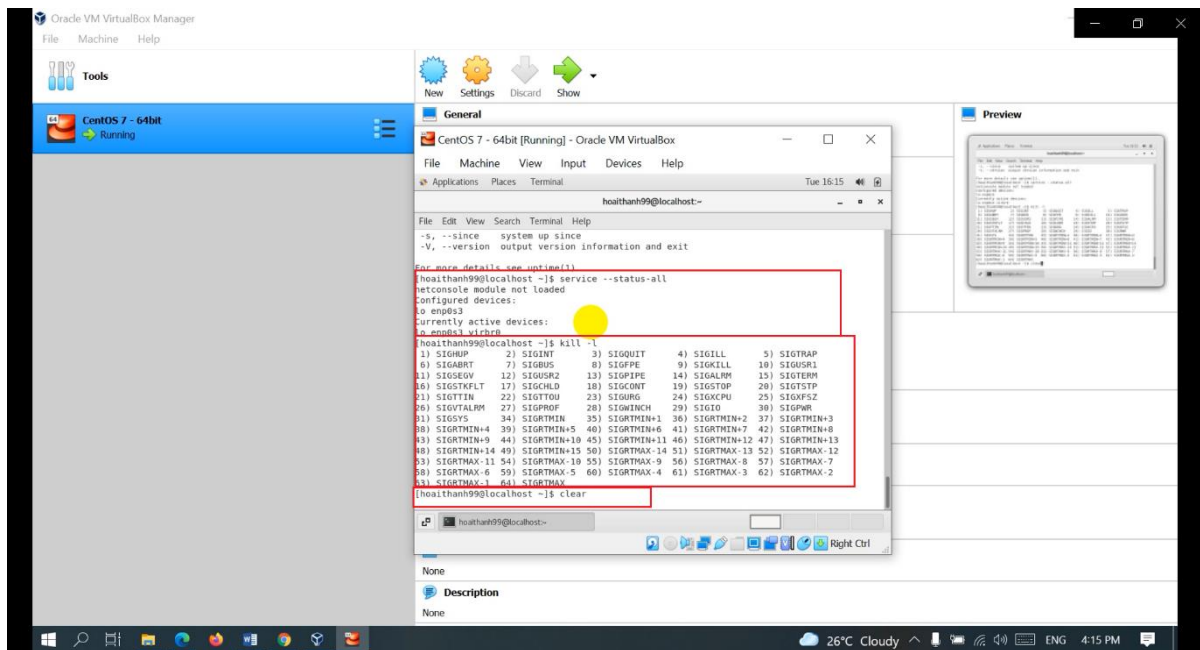
Hình 4. 5. Lệnh ifconfig



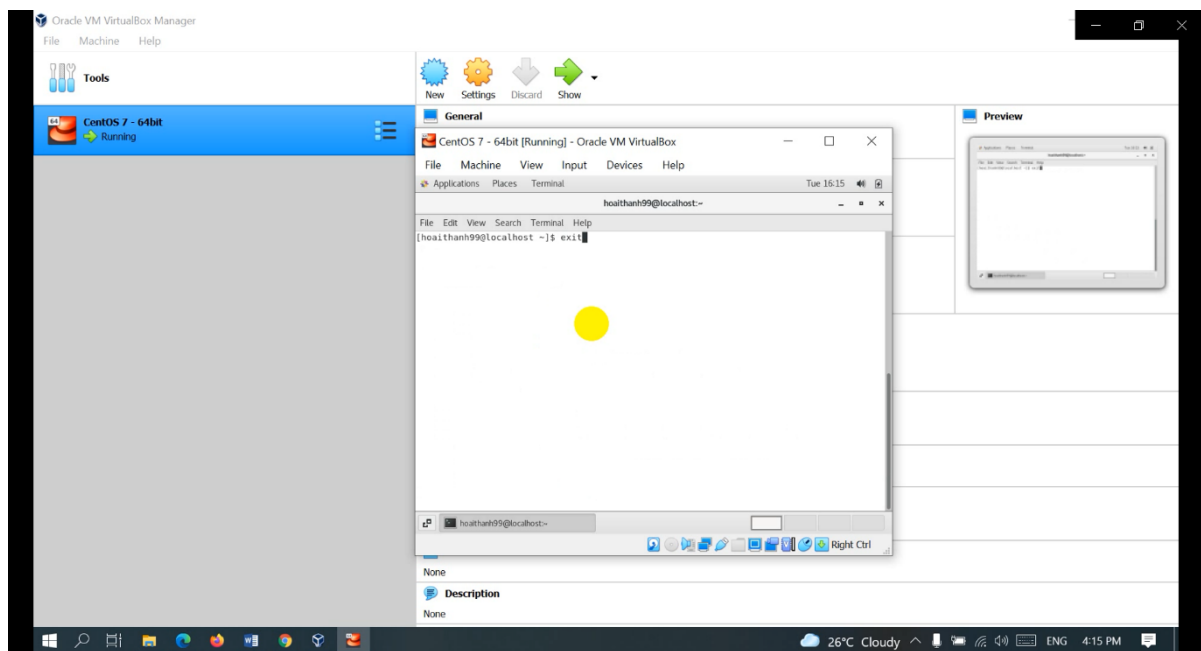
Hình 4. 6. Kết quả lệnh ifconfig



Hình 4. 7. Lệnh ping, uptime, service



Hình 4. 8. Lệnh clear, kill



Hình 4. 9. Lệnh exit