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Câu 1

- Tạo các thư mục và thêm file theo yêu cầu

```
osboxes@osboxes:~/home/ds1/cth/user1
File Edit View Search Terminal Help
[osboxes@osboxes ~]$ mkdir home
[osboxes@osboxes ~]$ cd home
[osboxes@osboxes home]$ mkdir ds1
[osboxes@osboxes home]$ cd ds1
[osboxes@osboxes ds1]$ mkdir cth
[osboxes@osboxes ds1]$ cd cth
[osboxes@osboxes cth]$ mkdir user1
[osboxes@osboxes cth]$ mkdir user2
[osboxes@osboxes cth]$ cd user1
[osboxes@osboxes user1]$ touch test1.c
[osboxes@osboxes user1]$ touch test2.c
[osboxes@osboxes user1]$ cd user2
bash: cd: user2: No such file or directory
[osboxes@osboxes user1]$ cd home
bash: cd: home: No such file or directory
[osboxes@osboxes user1]$ cd
[osboxes@osboxes ~]$ cd home
[osboxes@osboxes home]$ cd ds1
[osboxes@osboxes ds1]$ cd cth
[osboxes@osboxes cth]$ cd user2
[osboxes@osboxes user2]$ touch test3.c
[osboxes@osboxes user2]$ touch test4.c
```

- Xem chi tiết các thư mục con và file

```
[osboxes@osboxes ~]$ cd home
[osboxes@osboxes home]$ ls
ds1
[osboxes@osboxes home]$ cd ds1
[osboxes@osboxes ds1]$ ls
cth
[osboxes@osboxes ds1]$ cd cth
[osboxes@osboxes cth]$ ls
user1 user2
[osboxes@osboxes cth]$ cd user1
[osboxes@osboxes user1]$ ls
test1.c test2.c
[osboxes@osboxes user1]$ cd ..
[osboxes@osboxes cth]$ cd user2
[osboxes@osboxes user2]$ ls
test3.c test4.c
[osboxes@osboxes user2]$ cd ..
[osboxes@osboxes cth]$ cd user2
[osboxes@osboxes user2]$ cp test3.c user1
[osboxes@osboxes user2]$ cd ..
[osboxes@osboxes cth]$ cd user1
[osboxes@osboxes user1]$ ls
test1.c test2.c
```

- Thực hiện các thao tác: copy file test3.c từ thư mục user2 sang thư mục user1, di chuyển file test4.c từ thư mục user2 sang thư mục user1, xóa file test1.c từ trong thư mục user1

```
[osboxes@osboxes user2]$ cp test3.c user1
[osboxes@osboxes user2]$ cd ..
[osboxes@osboxes cth]$ cd user1
[osboxes@osboxes user1]$ ls
test1.c test2.c test3.c
[osboxes@osboxes user1]$ cd ..
[osboxes@osboxes cth]$ cd user2
[osboxes@osboxes user2]$ mv test4.c user1
[osboxes@osboxes user2]$ cd ..
[osboxes@osboxes cth]$ cd user1
[osboxes@osboxes user1]$ ls
test1.c test2.c test3.c test4.c
```

```
[osboxes@osboxes user1]$ rm test1.c
[osboxes@osboxes user1]$ ls
test2.c test3.c test4.c
[osboxes@osboxes user1]$
```

Câu 2

- Tạo thư mục và các file như yêu cầu

```
osboxes@osboxes:~/bt/bt1
File Edit View Search Terminal Help
[osboxes@osboxes ~]$ mkdir bt
[osboxes@osboxes ~]$ cd bt
[osboxes@osboxes bt]$ mkdir bt1
[osboxes@osboxes bt]$ cd bt1
[osboxes@osboxes bt1]$ mkdir bt11
[osboxes@osboxes bt1]$ mkdir bt12
[osboxes@osboxes bt1]$ cd bt11
[osboxes@osboxes bt11]$ mkdir bt111
[osboxes@osboxes bt11]$ cd ..
[osboxes@osboxes bt1]$ cd bt12
[osboxes@osboxes bt12]$ mkdir bt121
[osboxes@osboxes bt12]$ ls
bt121
[osboxes@osboxes bt12]$ cd
[osboxes@osboxes ~]$ mkdir bh
[osboxes@osboxes ~]$ cd bh
[osboxes@osboxes bh]$ mkdir bh1
[osboxes@osboxes bh]$ mkdir bh2
[osboxes@osboxes bh]$ cd bh1
[osboxes@osboxes bh1]$ mkdir bh11
[osboxes@osboxes bh1]$ cd bh11
[osboxes@osboxes bh11]$ mkdir bh111
[osboxes@osboxes bh11]$ mkdir bh112
[osboxes@osboxes bh11]$ ls
bh111 bh112
[osboxes@osboxes bh11]$ cd
[osboxes@osboxes ~]$ cd bt
[osboxes@osboxes bt]$ touch a1.txt
[osboxes@osboxes bt]$ ls
a1.txt bt1
[osboxes@osboxes bt]$ cd bt1
[osboxes@osboxes bt1]$ touch a2.txt
[osboxes@osboxes bt1]$ ls
a2.txt bt11 bt12
```

- Xem nội dung thư mục mặc định etc

```
[osboxes@osboxes bt1]$ ls /etc
adjtime             hostname            printcap
aliases             hosts              profile
alsa               hp                 profile.d
alternatives        idmapd.conf        protocols
anaconda            init.d            pulse
anacrontab          initial-setup      qemu-ga
asound.conf         inittab            qemu-kvm
at.deny             inputrc            radvd.conf
audit              iproute2           rc0.d
authselect          iscsi              rc1.d
avahi               issue              rc2.d
bash_completion.d  issue.d            rc3.d
bashrc              issue.net          rc4.d
bindresvport.blacklist kdump              rc5.d
binfmt.d            kdump.conf         rc6.d
bluetooth           kernel             rc.d
brlapi.key          krb5.conf          rc.local
```

- Xóa thư mục bh11

```
[osboxes@osboxes bh1]$ rm -r bh11
[osboxes@osboxes bh1]$ ls
[osboxes@osboxes bh1]$ cd
```

- Copy file /b1/a1.txt sang /bh

```
[osboxes@osboxes bt]$ cp a1.txt bh
[osboxes@osboxes bt]$ cd ..
[osboxes@osboxes ~]$ cd bh
[osboxes@osboxes bh]$ ls
a1.txt  bh1  bh2
```

- Mở thư mục bt1 có chứa file a2.txt, thiết lập quyền rwx r-- r-- cho file a2.txt

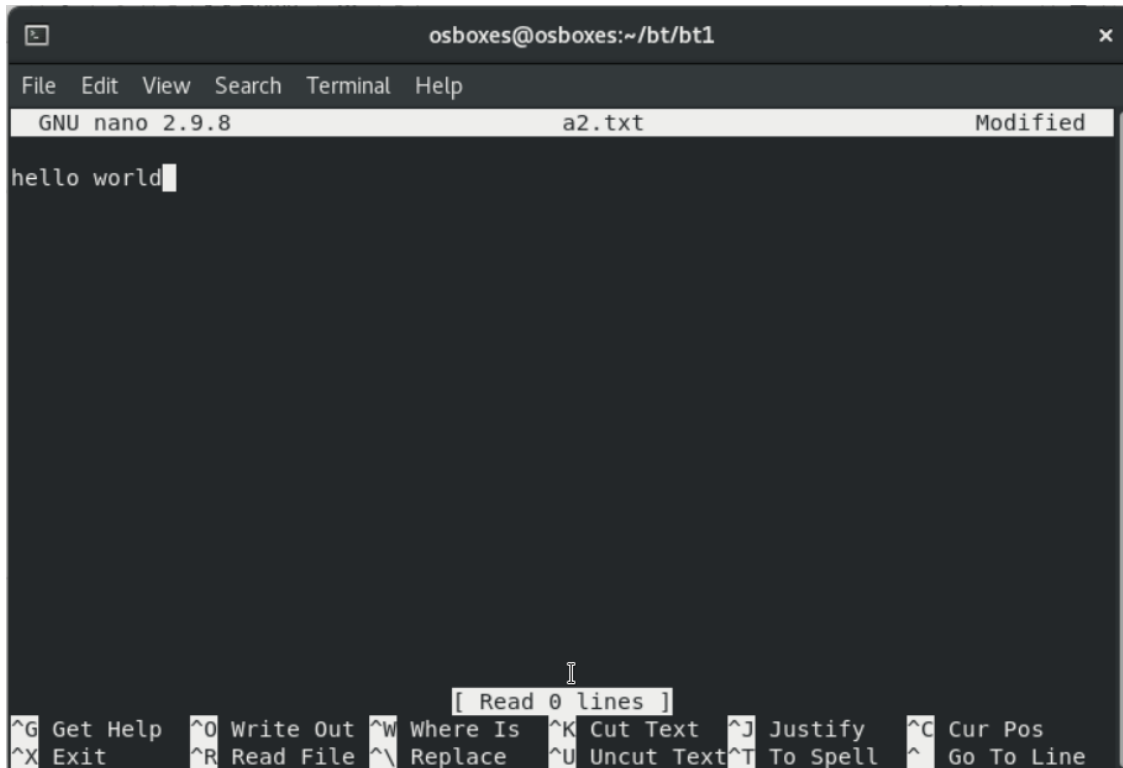
```
[osboxes@osboxes bh]$ cd
[osboxes@osboxes ~]$ cd bt
[osboxes@osboxes bt]$ cd bt1
[osboxes@osboxes bt1]$ ls
a2.txt  bt11  bt12
[osboxes@osboxes bt1]$ chmod 744 a2.txt
```

- Sử dụng lệnh nano để ghi vào file a2.txt, lệnh more để đọc nội dung file

```
[osboxes@osboxes bt1]$ nano a2.txt
[osboxes@osboxes bt1]$ more a2.txt
hello world

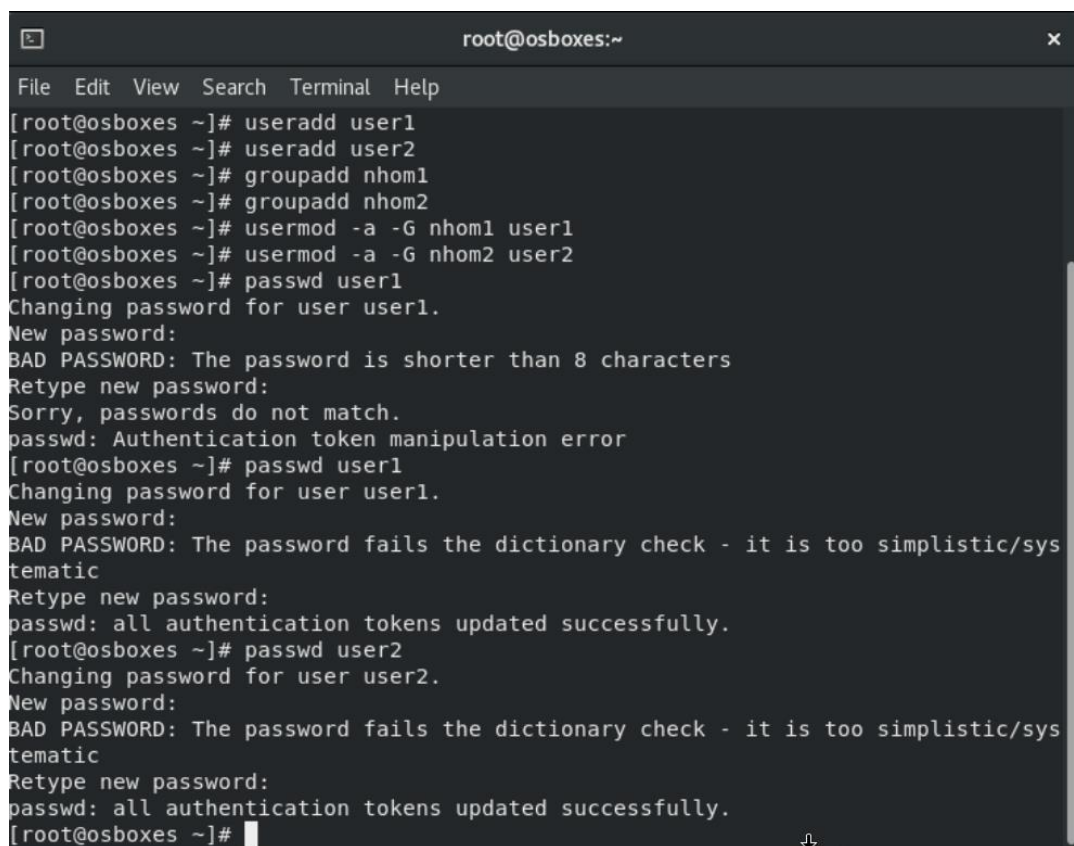
[osboxes@osboxes bt1]$
```

- Giao diện khi sử dụng nano để ghi và lưu file, nhấn Ctrl + O để lưu file, Ctrl + X để thoát



```
osboxes@osboxes:~/bt/bt1
File Edit View Search Terminal Help
GNU nano 2.9.8 a2.txt Modified
hello world
[ Read 0 lines ]
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos
^X Exit ^R Read File ^\ Replace ^U Uncut Text ^T To Spell ^_ Go To Line
```

Câu 3: thêm user1, user2; thêm group: nhom1, nhom2; thêm user1 vào nhom1, user2 vào nhom2; thiết lập mật khẩu cho user1 và user2



```
root@osboxes:~
File Edit View Search Terminal Help
[root@osboxes ~]# useradd user1
[root@osboxes ~]# useradd user2
[root@osboxes ~]# groupadd nhom1
[root@osboxes ~]# groupadd nhom2
[root@osboxes ~]# usermod -a -G nhom1 user1
[root@osboxes ~]# usermod -a -G nhom2 user2
[root@osboxes ~]# passwd user1
Changing password for user user1.
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
Sorry, passwords do not match.
passwd: Authentication token manipulation error
[root@osboxes ~]# passwd user1
Changing password for user user1.
New password:
BAD PASSWORD: The password fails the dictionary check - it is too simplistic/systematic
Retype new password:
passwd: all authentication tokens updated successfully.
[root@osboxes ~]# passwd user2
Changing password for user user2.
New password:
BAD PASSWORD: The password fails the dictionary check - it is too simplistic/systematic
Retype new password:
passwd: all authentication tokens updated successfully.
[root@osboxes ~]#
```

