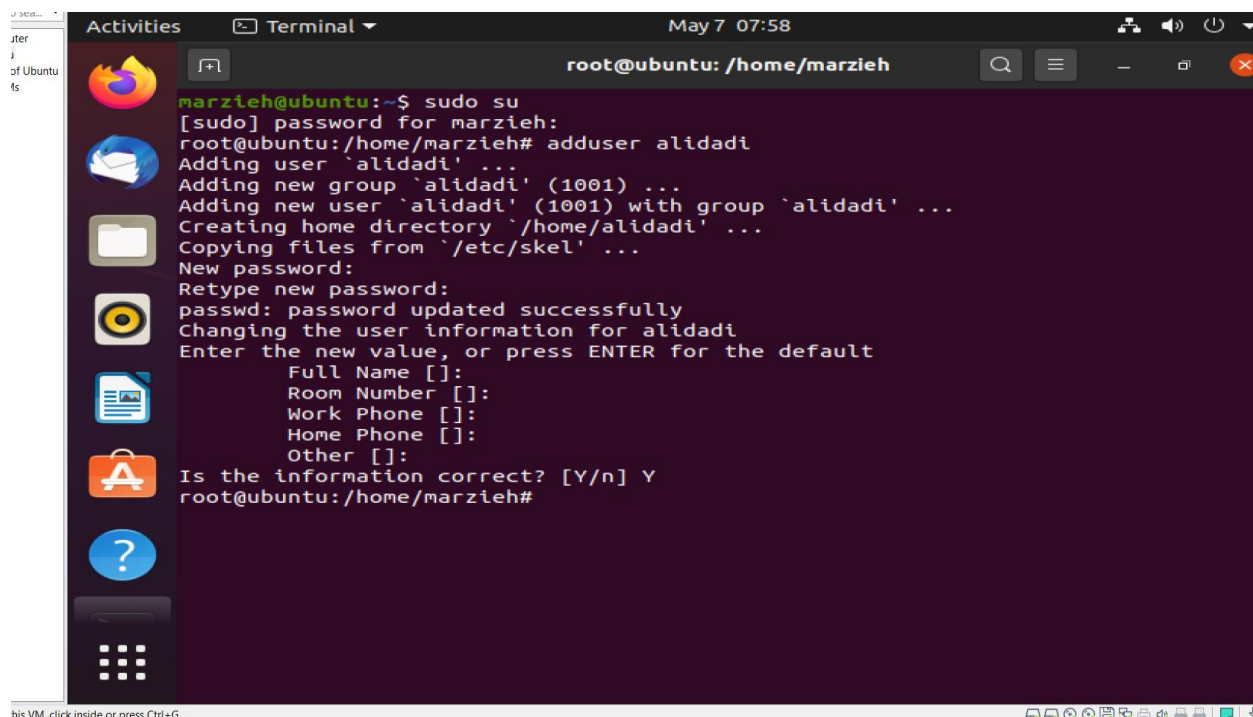


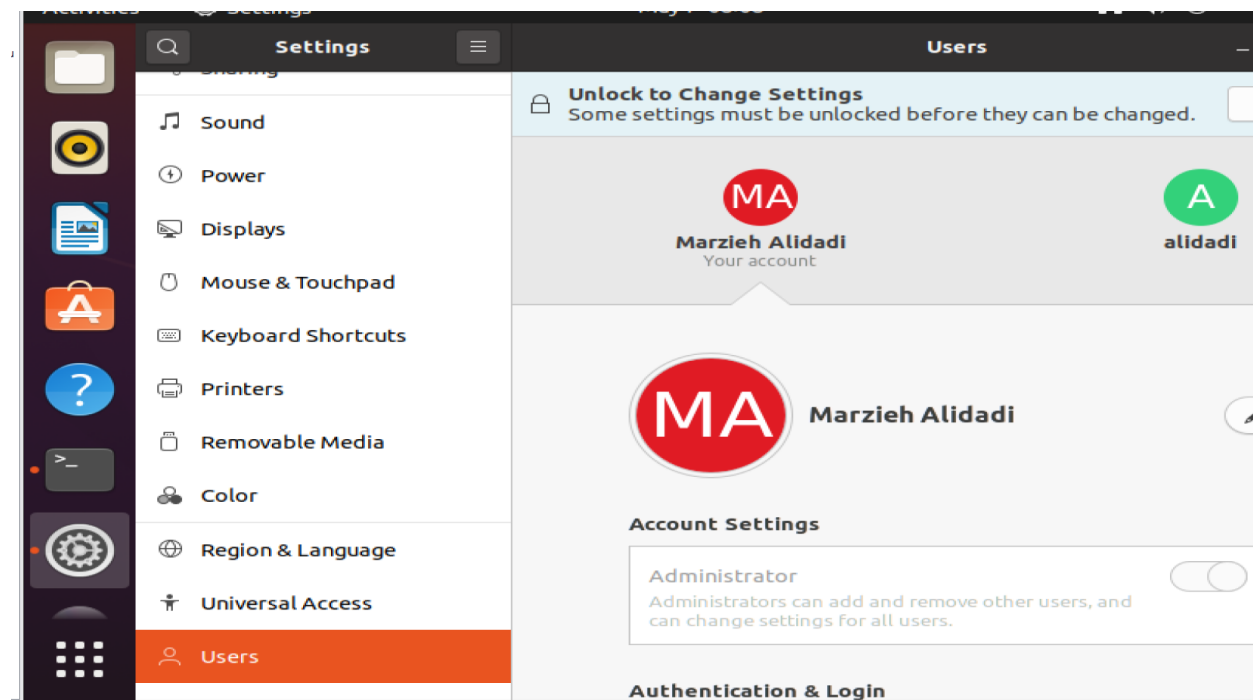
به نام خدا

ساخت حساب کاربری:



```
Activities Terminal May 7 07:58
root@ubuntu: /home/marzieh

marzieh@ubuntu:~$ sudo su
[sudo] password for marzieh:
root@ubuntu:/home/marzieh# adduser alidadi
Adding user `alidadi' ...
Adding new group `alidadi' (1001) ...
Adding new user `alidadi' (1001) with group `alidadi' ...
Creating home directory `/home/alidadi' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for alidadi
Enter the new value, or press ENTER for the default
  Full Name []:
  Room Number []:
  Work Phone []:
  Home Phone []:
  Other []:
Is the information correct? [Y/n] Y
root@ubuntu:/home/marzieh#
```



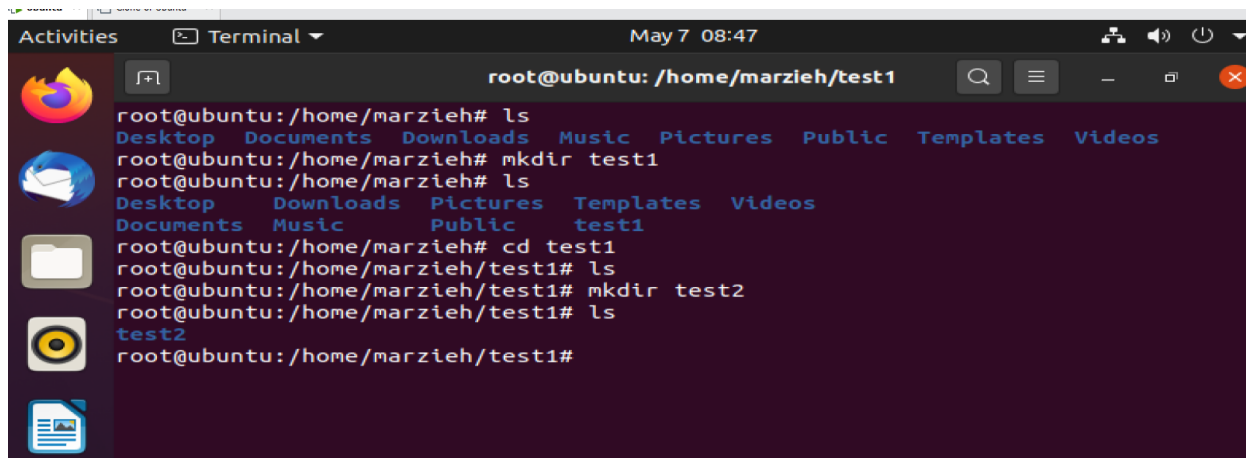
```
Home Phone []:  
Other []:  
Is the information correct? [Y/n] Y  
root@ubuntu:/home/marzieh# cd ..  
root@ubuntu:/home# ls  
alidadi marzieh  
root@ubuntu:/home#
```

تاریخ و نام سیستم و نام سیستم عامل و نام کاربر فعلی و پروسه های در حال اجرا:

```
root@ubuntu:/home/marzieh  
root@ubuntu:/home/marzieh# date  
Thu 07 May 2020 08:21:50 AM PDT  
root@ubuntu:/home/marzieh# uname  
Linux  
root@ubuntu:/home/marzieh# hostname  
ubuntu  
root@ubuntu:/home/marzieh# whoami  
root  
root@ubuntu:/home/marzieh# ps  
  PID TTY          TIME CMD  
  5632 pts/0    00:00:00 sudo  
  5649 pts/0    00:00:00 su  
  5650 pts/0    00:00:00 bash  
  5730 pts/0    00:00:00 ps  
root@ubuntu:/home/marzieh#
```

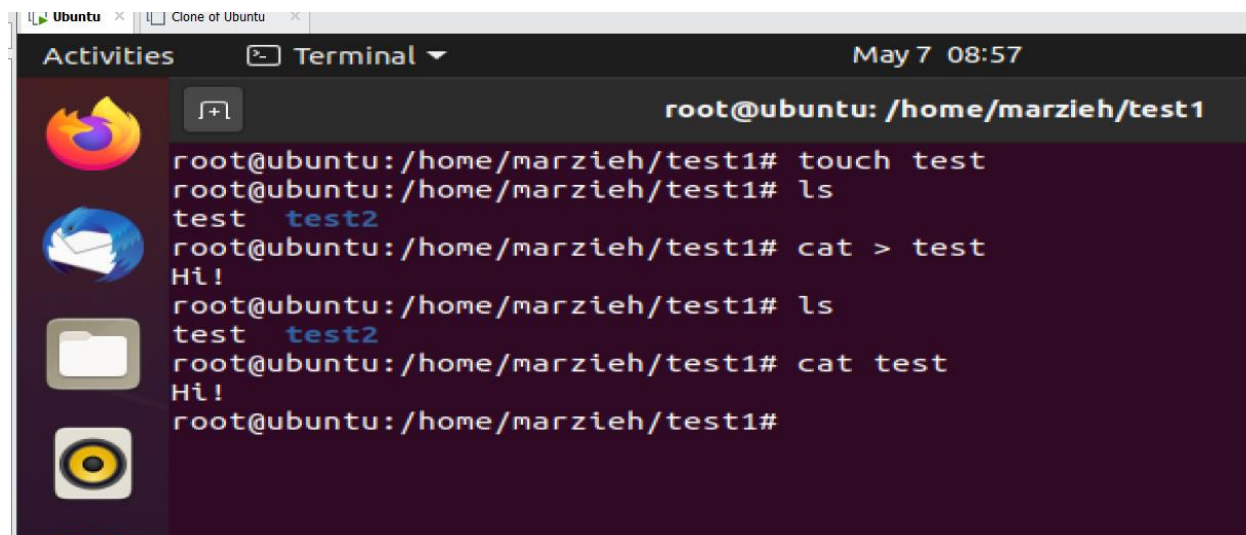
همانطور که مشخص است، پروسه های در حال اجرا:
sudo و su به خاطر تغییر کاربری که دادیم،
bash که داریم در آن command مینویسیم،
و ps که الان اجرا کردیم،
است. که منطقی این ها در حال اجرا و پردازش هستند.

دایرکتوری test1 را ساختم و دایرکتوری test2 را در آن ساختم:

A terminal window titled 'Terminal' with a timestamp of 'May 7 08:47'. The prompt is 'root@ubuntu: /home/marzieh/test1'. The user enters 'ls' and sees a list of directories: Desktop, Documents, Downloads, Music, Pictures, Public, Templates, Videos. Then they enter 'mkdir test1'. They enter 'ls' again and see the new 'test1' directory added to the list. They enter 'cd test1'. They enter 'ls' and see 'test2'. Finally, they enter 'mkdir test2' and 'ls' again, showing 'test2' as a subdirectory.

```
root@ubuntu: /home/marzieh/test1
root@ubuntu:/home/marzieh# ls
Desktop  Documents  Downloads  Music  Pictures  Public  Templates  Videos
root@ubuntu:/home/marzieh# mkdir test1
root@ubuntu:/home/marzieh# ls
Desktop  Downloads  Pictures  Templates  Videos
Documents Music      Public    test1
root@ubuntu:/home/marzieh# cd test1
root@ubuntu:/home/marzieh/test1# ls
test2
root@ubuntu:/home/marzieh/test1# mkdir test2
root@ubuntu:/home/marzieh/test1# ls
test2
root@ubuntu:/home/marzieh/test1#
```

یک فایل با نام test در دایرکتوری test1 ساختم:

A terminal window titled 'Terminal' with a timestamp of 'May 7 08:57'. The prompt is 'root@ubuntu: /home/marzieh/test1'. The user enters 'touch test'. They enter 'ls' and see 'test' and 'test2'. They enter 'cat > test' and type 'Hi!'. They enter 'ls' and see 'test' and 'test2'. Finally, they enter 'cat test' and see 'Hi!'.

```
root@ubuntu:/home/marzieh/test1# touch test
root@ubuntu:/home/marzieh/test1# ls
test  test2
root@ubuntu:/home/marzieh/test1# cat > test
Hi!
root@ubuntu:/home/marzieh/test1# ls
test  test2
root@ubuntu:/home/marzieh/test1# cat test
Hi!
root@ubuntu:/home/marzieh/test1#
```

فایل test را با نام cp-test در دایرکتوری test2 کپی کردم:

```
Activities Terminal May 7 09:06
root@ubuntu: /home/marzieh/test1/test2

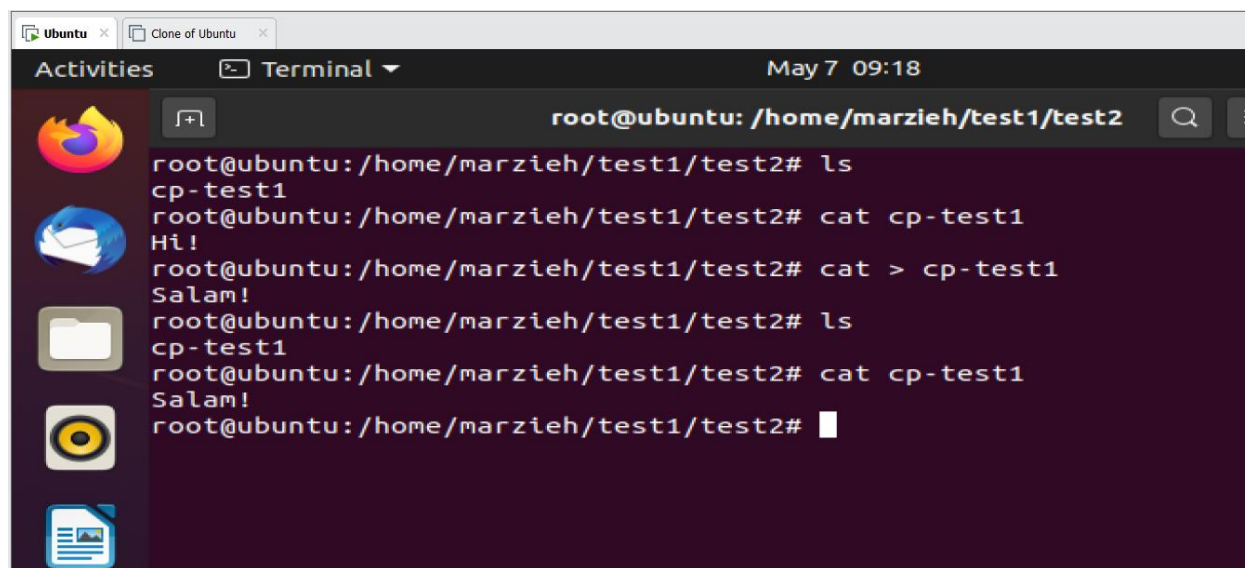
root@ubuntu:/home/marzieh/test1# ls
test test2
root@ubuntu:/home/marzieh/test1# cat test
Hi!
root@ubuntu:/home/marzieh/test1# cp test test2/cp-test
root@ubuntu:/home/marzieh/test1# ls
test test2
root@ubuntu:/home/marzieh/test1# cd test2
root@ubuntu:/home/marzieh/test1/test2# ls
cp-test
root@ubuntu:/home/marzieh/test1/test2# cat cp-test
Hi!
root@ubuntu:/home/marzieh/test1/test2#
```

نام فایل cp-test را به cp-test1 تغییر دادم:

```
Activities Terminal May 7 09:13
root@ubuntu: /home/marzieh/test1/test2

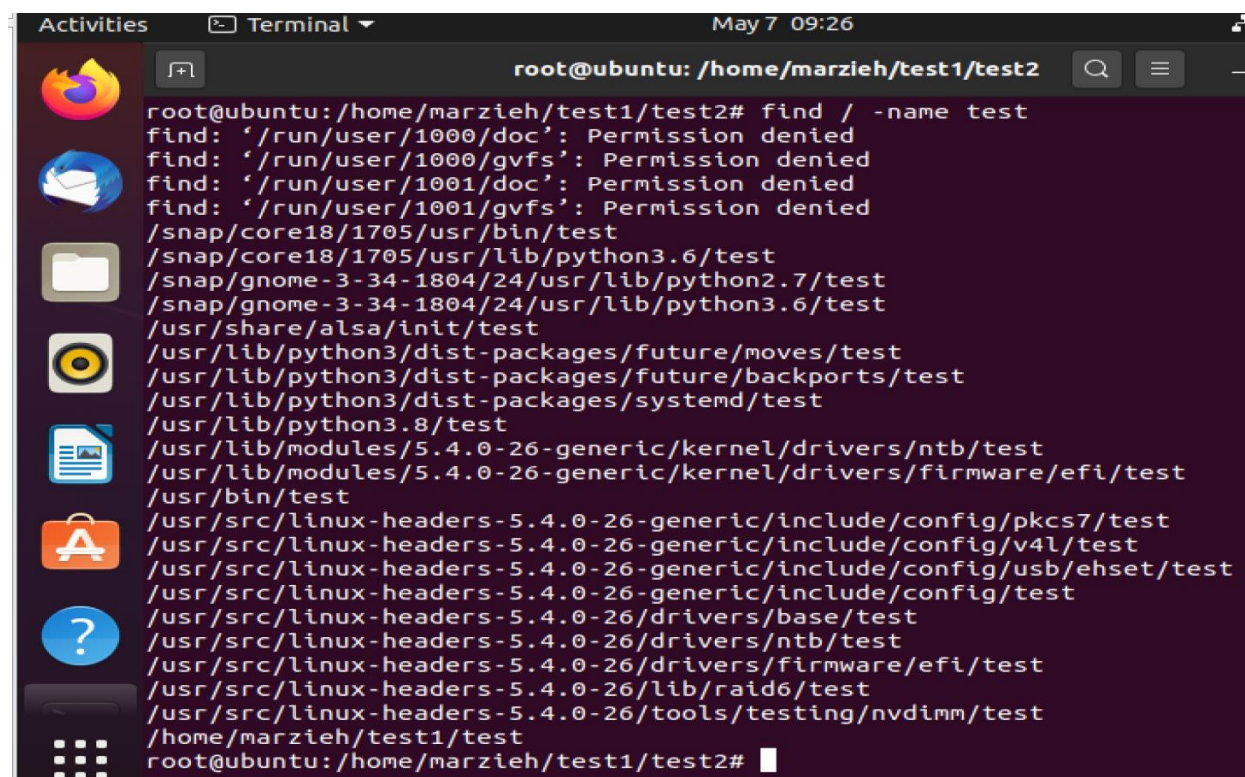
root@ubuntu:/home/marzieh/test1/test2# ls
cp-test
root@ubuntu:/home/marzieh/test1/test2# mv cp-test cp-test1
root@ubuntu:/home/marzieh/test1/test2# ls
cp-test1
root@ubuntu:/home/marzieh/test1/test2# cat cp-test1
Hi!
root@ubuntu:/home/marzieh/test1/test2#
```


محتویات فایل cp-test1 را با دستور cat تغییر دادم و ذخیره و نشان دادم:

A terminal window titled 'Terminal' with a search icon and a menu icon. The prompt is 'root@ubuntu: /home/marzieh/test1/test2'. The user enters 'ls' and sees 'cp-test1'. Then they enter 'cat cp-test1' and see 'Hi!'. Next, they enter 'cat > cp-test1' and see 'Salam!'. Finally, they enter 'ls' and see 'cp-test1', then 'cat cp-test1' and see 'Salam!'.

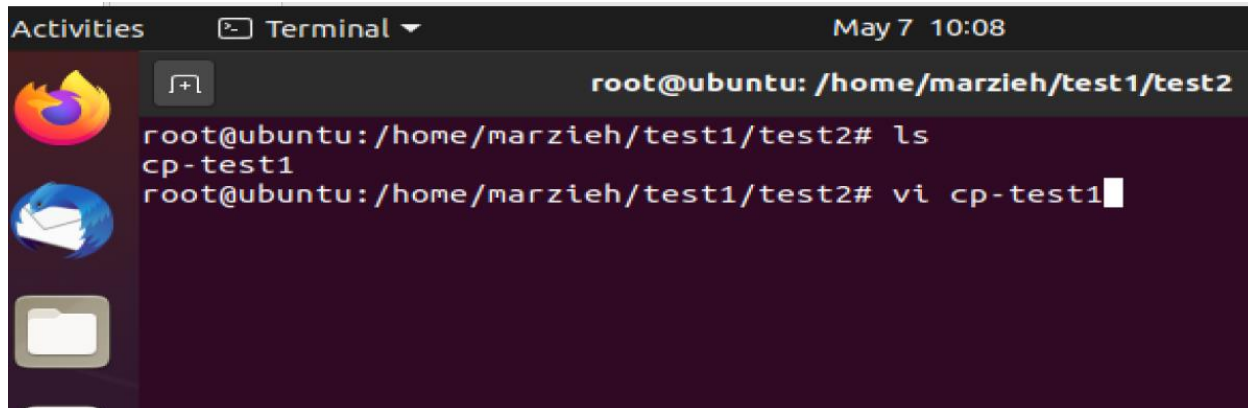
```
root@ubuntu: /home/marzieh/test1/test2# ls
cp-test1
root@ubuntu: /home/marzieh/test1/test2# cat cp-test1
Hi!
root@ubuntu: /home/marzieh/test1/test2# cat > cp-test1
Salam!
root@ubuntu: /home/marzieh/test1/test2# ls
cp-test1
root@ubuntu: /home/marzieh/test1/test2# cat cp-test1
Salam!
root@ubuntu: /home/marzieh/test1/test2#
```

فایل های با اسم test را مسیرشان را پیدا کردم:

A terminal window titled 'Terminal' with a search icon and a menu icon. The prompt is 'root@ubuntu: /home/marzieh/test1/test2'. The user enters 'find / -name test'. The output lists various system paths containing 'test', including '/usr/bin/test', '/usr/lib/python3/dist-packages/future/moves/test', and '/home/marzieh/test1/test'.

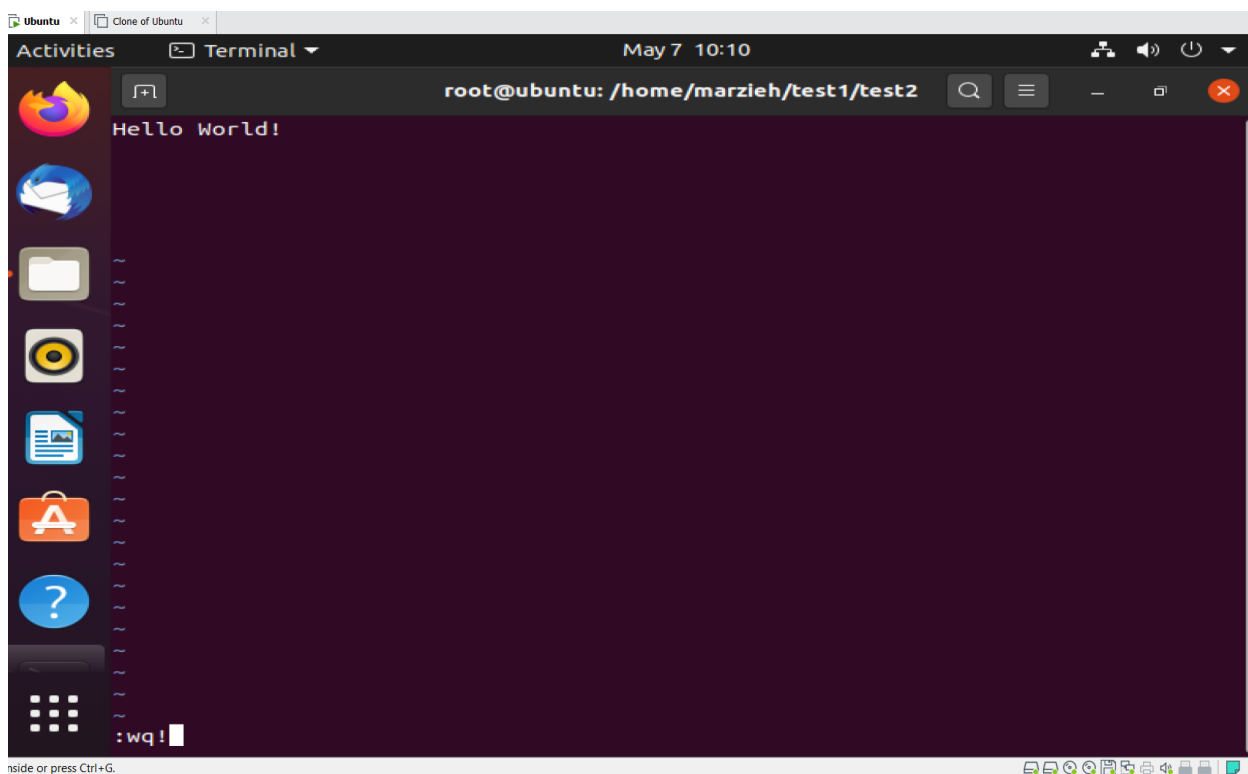
```
root@ubuntu: /home/marzieh/test1/test2# find / -name test
find: '/run/user/1000/doc': Permission denied
find: '/run/user/1000/gvfs': Permission denied
find: '/run/user/1001/doc': Permission denied
find: '/run/user/1001/gvfs': Permission denied
/snap/core18/1705/usr/bin/test
/snap/core18/1705/usr/lib/python3.6/test
/snap/gnome-3-34-1804/24/usr/lib/python2.7/test
/snap/gnome-3-34-1804/24/usr/lib/python3.6/test
/usr/share/alsa/init/test
/usr/lib/python3/dist-packages/future/moves/test
/usr/lib/python3/dist-packages/future/backports/test
/usr/lib/python3/dist-packages/systemd/test
/usr/lib/python3.8/test
/usr/lib/modules/5.4.0-26-generic/kernel/drivers/ntb/test
/usr/lib/modules/5.4.0-26-generic/kernel/drivers/firmware/efi/test
/usr/bin/test
/usr/src/linux-headers-5.4.0-26-generic/include/config/pkcs7/test
/usr/src/linux-headers-5.4.0-26-generic/include/config/v4l/test
/usr/src/linux-headers-5.4.0-26-generic/include/config/usb/ehset/test
/usr/src/linux-headers-5.4.0-26-generic/include/config/test
/usr/src/linux-headers-5.4.0-26/drivers/base/test
/usr/src/linux-headers-5.4.0-26/drivers/ntb/test
/usr/src/linux-headers-5.4.0-26/drivers/firmware/efi/test
/usr/src/linux-headers-5.4.0-26/lib/raid6/test
/usr/src/linux-headers-5.4.0-26/tools/testing/nvdim/test
/home/marzieh/test1/test
root@ubuntu: /home/marzieh/test1/test2#
```

تغییر محتویات فایل cp-test1 با vim :



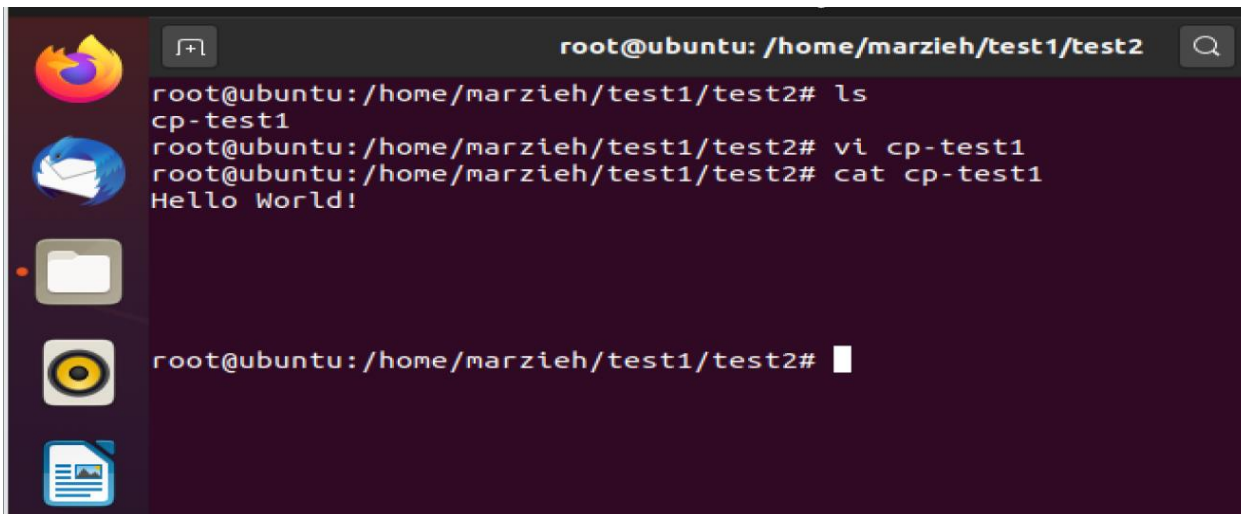
A terminal window titled 'Terminal' with a timestamp of 'May 7 10:08'. The prompt is 'root@ubuntu: /home/marzieh/test1/test2'. The user enters 'ls', and the output is 'cp-test1'. Then, the user enters 'vi cp-test1', and the prompt changes to 'root@ubuntu: /home/marzieh/test1/test2# vi cp-test1'.

```
root@ubuntu: /home/marzieh/test1/test2# ls
cp-test1
root@ubuntu: /home/marzieh/test1/test2# vi cp-test1
```



A terminal window titled 'Terminal' with a timestamp of 'May 7 10:10'. The prompt is 'root@ubuntu: /home/marzieh/test1/test2'. The user enters 'Hello World!', and the output is 'Hello World!'. Then, the user enters ':wq!', and the prompt changes to 'root@ubuntu: /home/marzieh/test1/test2# :wq!'.

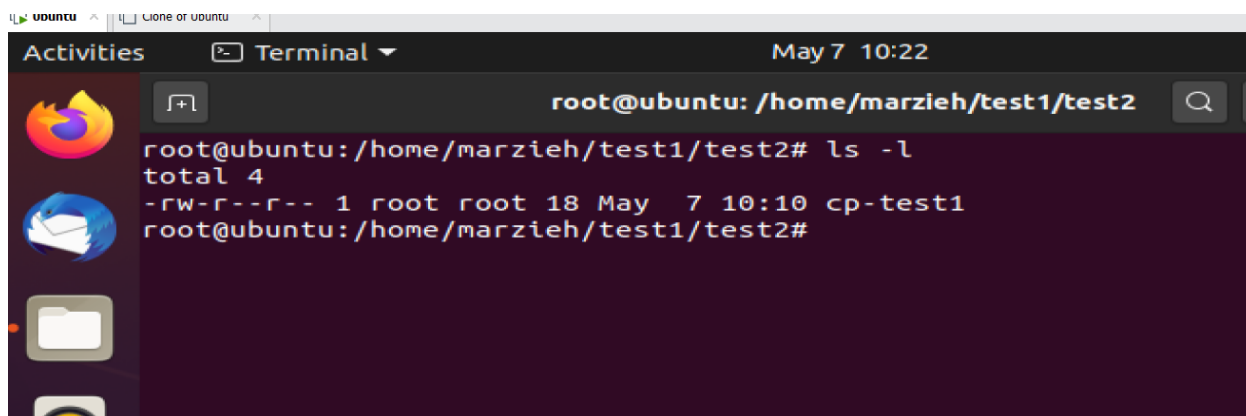
```
root@ubuntu: /home/marzieh/test1/test2# Hello World!
root@ubuntu: /home/marzieh/test1/test2# :wq!
```



A terminal window titled 'root@ubuntu: /home/marzieh/test1/test2'. The user enters the following commands: `ls`, `cp-test1`, `vi cp-test1`, and `cat cp-test1`. The output shows the file `cp-test1` exists and contains the text 'Hello World!'. The terminal has a dark purple background and a sidebar on the left with icons for Firefox, Mail, Files, and a music player.

```
root@ubuntu: /home/marzieh/test1/test2# ls
cp-test1
root@ubuntu: /home/marzieh/test1/test2# vi cp-test1
root@ubuntu: /home/marzieh/test1/test2# cat cp-test1
Hello World!
root@ubuntu: /home/marzieh/test1/test2#
```

سطح دسترسی به فایل `cp-test1` را چک کردم:



A terminal window titled 'root@ubuntu: /home/marzieh/test1/test2' with a timestamp of 'May 7 10:22'. The user enters the command `ls -l`. The output shows the permissions for `cp-test1` as `-rw-r--r--`. The terminal has a dark purple background and a sidebar on the left with icons for Firefox, Mail, Files, and a music player.

```
root@ubuntu: /home/marzieh/test1/test2# ls -l
total 4
-rw-r--r-- 1 root root 18 May  7 10:10 cp-test1
root@ubuntu: /home/marzieh/test1/test2#
```

کاری کردم که تنها مالک اجازه ی دسترسی به کل دایرکتوری `test1` را داشته باشد:

و سطح دسترسی `test2` و `cp-test1` را قبل و بعد از این کار چک کردم:

```
Activities Terminal May 7 10:35 marzieh@ubuntu: ~
marzieh@ubuntu:~/test1$ cd ..
marzieh@ubuntu:~$ ls -l
total 36
drwxr-xr-x 2 marzieh marzieh 4096 Apr 28 12:32 Desktop
drwxr-xr-x 2 marzieh marzieh 4096 Apr 28 12:32 Documents
drwxr-xr-x 2 marzieh marzieh 4096 Apr 28 12:32 Downloads
drwxr-xr-x 2 marzieh marzieh 4096 Apr 28 12:32 Music
drwxr-xr-x 2 marzieh marzieh 4096 Apr 28 12:32 Pictures
drwxr-xr-x 2 marzieh marzieh 4096 Apr 28 12:32 Public
drwxr-xr-x 2 marzieh marzieh 4096 Apr 28 12:32 Templates
drwxr-xr-x 3 root root 4096 May 7 08:52 test1
drwxr-xr-x 2 marzieh marzieh 4096 Apr 28 12:32 Videos
marzieh@ubuntu:~$ cd test1
marzieh@ubuntu:~/test1$ ls -l
total 8
-rw-r--r-- 1 root root 4 May 7 08:56 test
drwxr-xr-x 2 root root 4096 May 7 10:10 test2
marzieh@ubuntu:~/test1$ cd test2
marzieh@ubuntu:~/test1/test2$ ls -l
total 4
-rw-r--r-- 1 root root 18 May 7 10:10 cp-test1
marzieh@ubuntu:~/test1/test2$ cd ..
marzieh@ubuntu:~/test1$ cd ..
marzieh@ubuntu:~$
```

```
marzieh@ubuntu:~$ chmod -R 700 test1
chmod: changing permissions of 'test1': Operation not permitted
chmod: changing permissions of 'test1/test2': Operation not permitted
chmod: changing permissions of 'test1/test2/cp-test1': Operation not permitted
chmod: changing permissions of 'test1/test': Operation not permitted
marzieh@ubuntu:~$ sudo su
[sudo] password for marzieh:
root@ubuntu:/home/marzieh# chmod -R 700 test1
root@ubuntu:/home/marzieh# ls -l
total 36
drwxr-xr-x 2 marzieh marzieh 4096 Apr 28 12:32 Desktop
drwxr-xr-x 2 marzieh marzieh 4096 Apr 28 12:32 Documents
drwxr-xr-x 2 marzieh marzieh 4096 Apr 28 12:32 Downloads
drwxr-xr-x 2 marzieh marzieh 4096 Apr 28 12:32 Music
drwxr-xr-x 2 marzieh marzieh 4096 Apr 28 12:32 Pictures
drwxr-xr-x 2 marzieh marzieh 4096 Apr 28 12:32 Public
drwxr-xr-x 2 marzieh marzieh 4096 Apr 28 12:32 Templates
drwx----- 3 root root 4096 May 7 08:52 test1
drwxr-xr-x 2 marzieh marzieh 4096 Apr 28 12:32 Videos
root@ubuntu:/home/marzieh# cd test1
root@ubuntu:/home/marzieh/test1# ls -l
total 8
-rwx----- 1 root root 4 May 7 08:56 test
drwx----- 2 root root 4096 May 7 10:10 test2
root@ubuntu:/home/marzieh/test1# cd test2
root@ubuntu:/home/marzieh/test1/test2# ls -l
total 4
-rwx----- 1 root root 18 May 7 10:10 cp-test1
root@ubuntu:/home/marzieh/test1/test2#
```

IP را به صورت گرافیکی عوض کردم:

IP قبل از عوض شدن:

Cancel **Wired** Apply

Details Identity IPv4 IPv6 Security

Link speed 1000 Mb/s

IPv4 Address **192.168.50.128**

IPv6 Address fe80::3c4e:24ee:d7b2:c38f

Hardware Address 00:0C:29:62:E2:3B

DNS 192.168.50.1

☒ Connect automatically

☒ Make available to other users

☐ Metered connection: has data limits or can incur charges
Software updates and other large downloads will not be started automatically.

Remove Connection Profile

IP جدید:

Cancel **Wired** Apply

Details Identity IPv4 IPv6 Security

Link speed 1000 Mb/s

IPv4 Address **192.168.58.2**

IPv6 Address fe80::3c4e:24ee:d7b2:c38f

Hardware Address 00:0C:29:62:E2:3B

Default Route 192.168.1.1

DNS

☒ Connect automatically

☒ Make available to other users

☐ Metered connection: has data limits or can incur charges
Software updates and other large downloads will not be started automatically.

Remove Connection Profile

برای استفاده از دستور `ifconfig` و `route` نیاز به نصب `net-tools` داشتم
ولی برای نصب آن با ارور مواجه می شدم و نتوانستم آن را رفع کنم. ☹️
ان شاءالله بیشتر سرچ میکنم تا مشکلمش حل بشه.