# Manual

:Sever Side
Execute the following from the unzipped directory:

./make all # try to compile and build the execution files

./server # run the server process

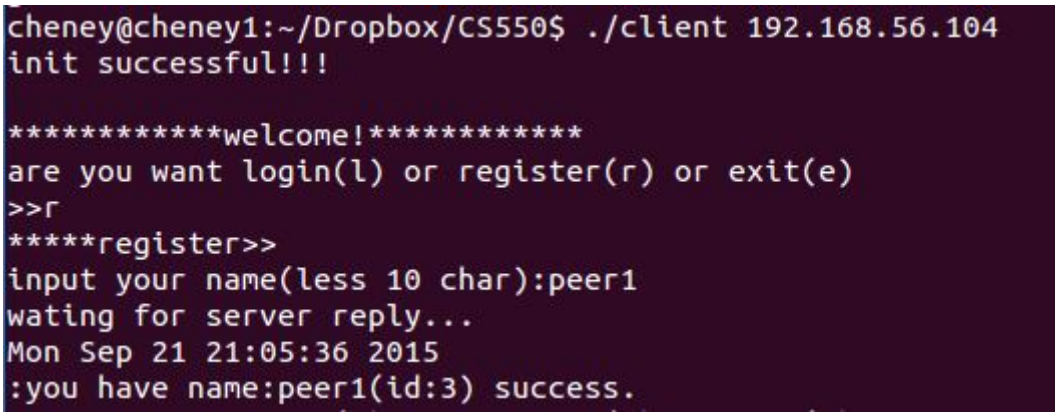
use linux command
ifconfig # find out the server LAN IP address

:Client Side
Execute the following from the unzipped directory:

./make all # try to compile and build the execution files

./client [Sever IP]# launch the client with server IP

**For peer1**, firstly choose 'r' for registration




After registered success, you need to type 'l' to log in. After that, the help menu would be shown auto.

```
are you want login(l) or register(r) or exit(e)
>>l
*****logon>>
id:3
login success
begin listen...

--------------help--menu---------------
         h--help munu
         c--copy file
         f--share file
         q--query files
         s--send message
         e--exit the system
---------------help--menu---------------
>>
```

At this time, you can type ‘s’, send a message to other peers.

```
>>s
input receiver id:4

input content:hello id4!
Mon Sep 21 21:10:02 2015
:send message to id:4 success.
>>
```

```
>>Mon Sep 21 21:10:02 2015
:Message:from  (id:3) to U:
hello id4!
```

the above snapshot shows the other peer received the message successfully.

Now, you can type ‘f’ to share a local file (including binary file such as *.jpg).

```
>>f
input file absolute path:/home/cheney/Dropbox/CS550/XCV3R.jpg
>>Mon Sep 21 21:12:26 2015
:Peer 3 shared file: /home/cheney/Dropbox/CS550/XCV3R.jpg success.
```

The server feedbacks the file registration information as following:

```
message received...
Mon Sep 21 21:12:26 2015
:Id 4 File /home/cheney/Dropbox/CS550/XCV3R.jpg register success!
```

**Take peer2 as example for get a shared file:**

For register and login, please follow peer 1’s step.

Now, peer 2 can type ‘q’ to query *.jpg file, the server provides all matched files info.

```
q
input your query string(less than 10 chars):jpg
jpg
wating for server reply...
>>Mon Sep 21 21:13:36 2015
:file from SERVER (id:0) to U:
FileID= 3 PeerID= 2 Name= /home/fei/Dropbox/CS550/XCopy.jpg
FileID= 4 PeerID= 3 Name= /home/cheney/Dropbox/CS550/XCV3R.jpg
```

Then type ‘c’ for getting and copying the specific file with file ID 5.
At last, the screen will show Download finish, which means the transaction is down!

```
c
input the file id:5
wating for server reply...
>>from_addr:192.168.56.101:8091
File Size = 255054
File Full Path = ./peer1/XCV3R.jpg
Downloading /home/cheney/Dropbox/CS550/XCV3R.jpg from peer 2
255054 bytes transferred
Download finish!
```

That’s all! Thank you for testing.