

Manual

Please make sure your machine has JDK 1.7 environment.

This project contains three peers and one server, so first you need to open all of them.

1. Open four terminals, which are terminal 1, terminal 2, terminal 3, terminal 4

Terminal 4 denotes the server, access the server directory, and type the following command to start the server:

```
java -jar server.jar
```

```
losys@losys-VirtualBox:~$ cd workspace
losys@losys-VirtualBox:~/workspace$ ls
peer1 peer2 peer3 server
losys@losys-VirtualBox:~/workspace$ cd server
losys@losys-VirtualBox:~/workspace/server$ ls
server.jar serverLog.txt
losys@losys-VirtualBox:~/workspace/server$ java -jar server.jar
Start Server
█
```

2. Terminal 1 denotes peer1, terminal 2 denotes peer2, terminal 3 denotes peer3.

Also you need to open peers, type the following command in terminal 1 to start peer1.

```
losys@losys-VirtualBox:~/workspace/peer1$ java -jar peer1.jar

Client server 1 started!

1 Register a file
2 Search a file
3 Exit
█
```

Start the other peers just like this.

3. Registry:

After start the peer, you can type '1' and press enter button to register a file to server.

```
3 Exit
1
Enter the file name:
2.txt
File 2.txt is registered!

1 Register a file
2 Search a file
3 Exit
█
```

4. Search file:

Type '2' and press type button to search a file. For example, use terminal 2 (peer 2) to search for the file 2.txt, choose '2', and the program will let you to enter the file name, input "2.txt", then if found, the screen will display the location information.

```

1 Register a file
2 Search a file
3 Exit
2
Enter the file name:
2.txt
2.txt is found on 127.0.1.1:9010:share

1 Download the file
2 Cancel and back

```

If not found, the screen will display as the below picture:

```

2
Enter the file name:
sldkjf
File sldkjf is not found!

```

5. Download file

When a file is found, you can download it.

Type '1' and press enter button to start download:

```

1 Download the file
2 Cancel and back
1

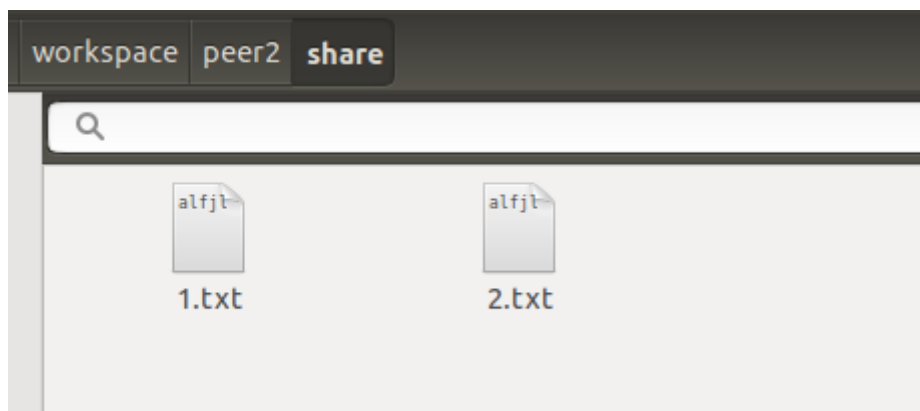
1 Register a file
2 Search a file
3 Exit

Start receiving...
display file 2.txt
Finish receive:./share/2.txt

```

The above picture shows the process of downloading.

Open the share directory of peer2, you will find the file 2.txt has been downloaded.



6. Logs

You can see the logs which have been recorded in peerLog.txt for peers and serverLog.txt for server.

```
peerLog.txt x
2014-09-28 12:01:10      File 2.txt is found on 127.0.1.1 !
```

```
serverLog.txt x
2014-09-26 20:40:59      File 3.txt is registered on the index server!
2014-09-26 20:40:59      File yy.txt is registered on the index server!
2014-09-26 20:45:16      File 3.txt is registered on the index server!
2014-09-26 20:45:16      File yy.txt is registered on the index server!
2014-09-26 20:46:13      File 1.txt is registered on the index server!
2014-09-26 20:48:08      File 2.txt is registered on the index server!
2014-09-26 21:04:28      File 2.txt is registered on the index server!
2014-09-26 21:04:51      File 3.txt is registered on the index server!
```