

# User Manual

## Index Server Running:

Follow the following steps to run the index server:

1. make sure you have copied the provided 'index\_server.jar', 'start\_rmiregistry.sh' and 'run\_index\_server.sh' in a single directory.
2. You should have java 1.8 installed on your machine to run this.
3. Open the location of these files in a terminal and run `“./start_rmiregistry.sh”` command. If there is no error message shown, and the execution is not complete, the RMI registry is started successfully on your machine.
4. Open another terminal in same location and run `“run_index_server.sh”` in it. You should get a message saying *“Indexing server is ready to take the requests..”*. (Green colored text is entered by user)

Example:

RMI registry-

```
admincss-MacBook-Pro-110:PA1 vivekbajpai$ ./start_rmiregistry.sh
```

Index Server-

```
admincss-MacBook-Pro-110:PA1 vivekbajpai$ ./run_index_server.sh
```

```
Indexing server is ready to take the requests..
```

## Peer Running:

Follow the following steps to run the index server:

1. make sure you have copied the provided 'peer.jar', 'start\_rmiregistry.sh', 'config.properties' and 'run\_peer.sh' in a single directory.
2. You should have java 1.8 installed on your machine to run this.
3. Open the location of these files in a terminal and run `“./start_rmiregistry.sh”` command. If there is no error message shown, and the execution is not complete, the RMI registry is started successfully on your machine.
4. Edit the config.properties file to contain the correct IP address of the machine where index server is running, provide a peer ID (should be unique for each peer), and mention a correct absolute path of a shared directory u want to use.
5. Open another terminal in same location and run `“run_peer.sh”` in it. You should get following messages on startup. Follow the instruction on the screen to continue. (Green colored text is entered by user)
6. Repeat the same steps above on different machines to create more peers. Don't forget to modify the config.properties to contain a unique peer ID for each peer.

Example:

```
admincss-MacBook-Pro-110:PA1 vivekbajpai$ ./run_peer.sh
```

File manager on the peer has started and ready for requests!!!

The directory scanner has started. Lets wait for it to register all file in the shared directory.

PeerId and Filenames registered with Indexing Server

Please enter the name of the file to download or enter Q/q to exit:

testing.txt

The Index server returned following peers for this file. Please select one:

1) 10.0.0.59

2) 10.0.0.112

Enter the number of the peer you want to use for downloading:

1

File Downloading started from 10.0.0.59.....

File named testing.txt downloaded successfully in the shared directory in 416.579065 msec!!!

Time taken for lookup = 180.584729 msec.

Time taken for download = 416.579065 msec.

Total time taken = 597.163794 msec.

Please enter the name of the file to download or enter Q/q to exit: