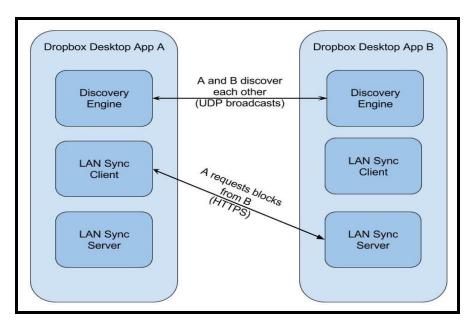
# <u>REPORT</u>

Pravin Mali (20161099) Arhant Jain (20161237)

# **Application Level File Sharing Protocol**

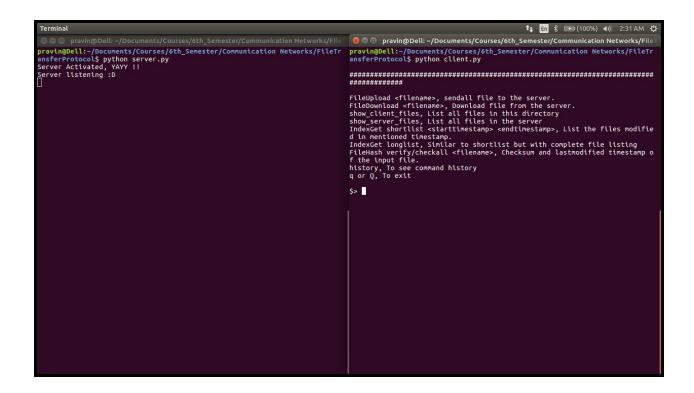


We have created a secure file sharing service to avoid risks and safely hold and transfer files. Above is the diagram of the basic architecture that run on the desktop app: the discovery engine, the server, and the client. The discovery engine is responsible for finding machines on the network.

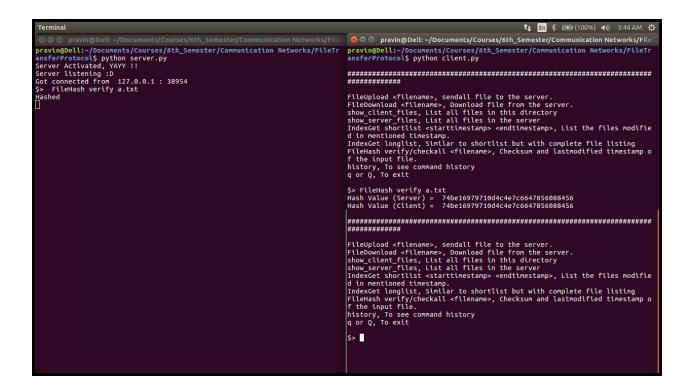
The server handles requests from other machines on the network and client is responsible for requesting blocks from the network.

File sharing is public or private sharing of data in a network with separate levels of accessibility. Depending on the accessibility permissions, file sharing allows a

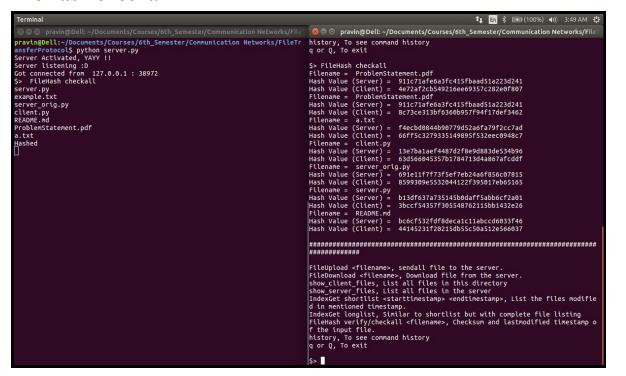
selected number of people to read, view or edit the files, based on the permissions given to the user.

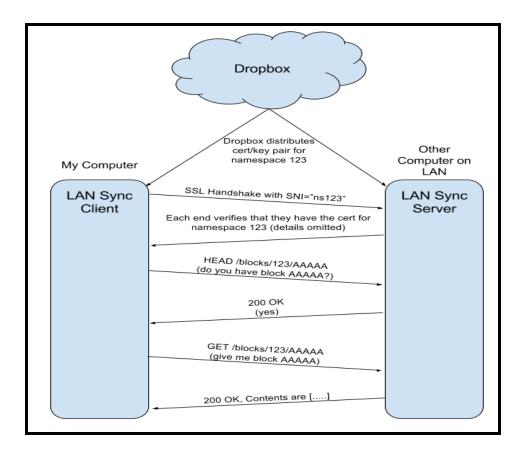


FileHash verify <filename>



#### FileHash checkall

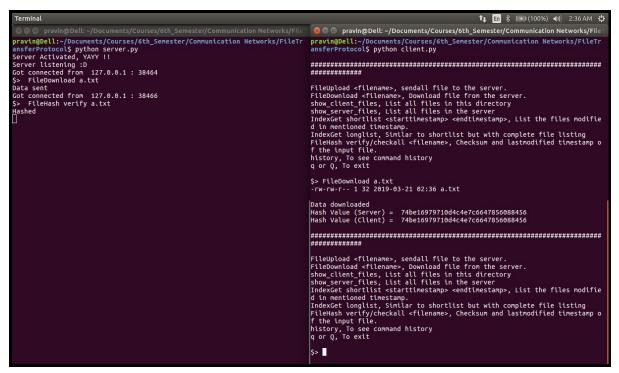




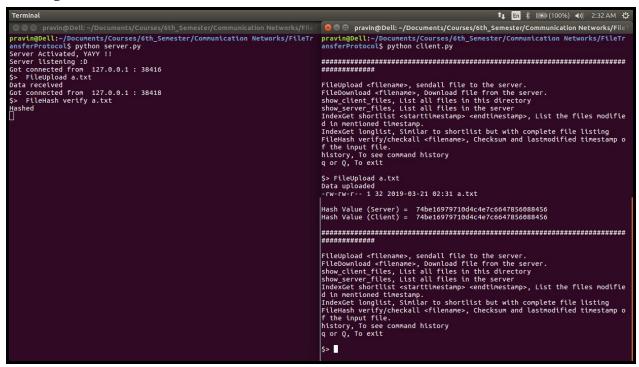
Some of the file sharing systems include:

**Peer-to-peer** networking involves computer hardware and software to communicate without the need for a central server which is the major difference between client-server and peer-to-peer file sharing system. It includes sharing of digital files over a p2p network where the files are located on one's computer and shared with other members rather than on the main server.

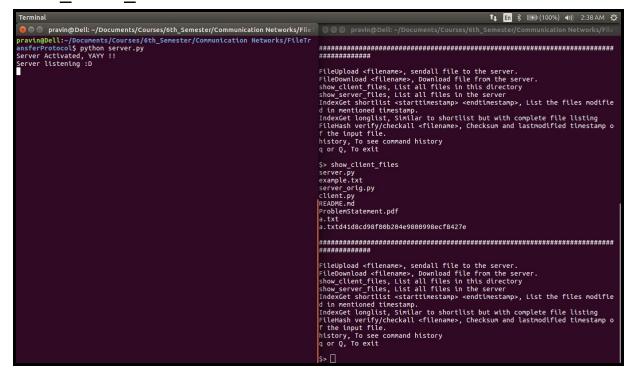
#### FileDownload <filename>

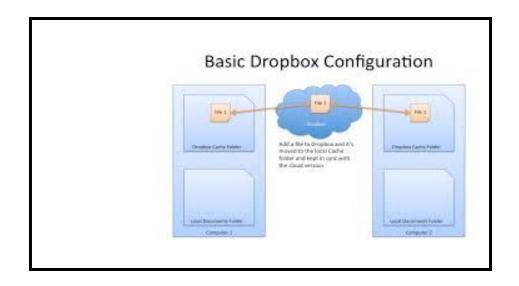


#### FileUpload <filename>

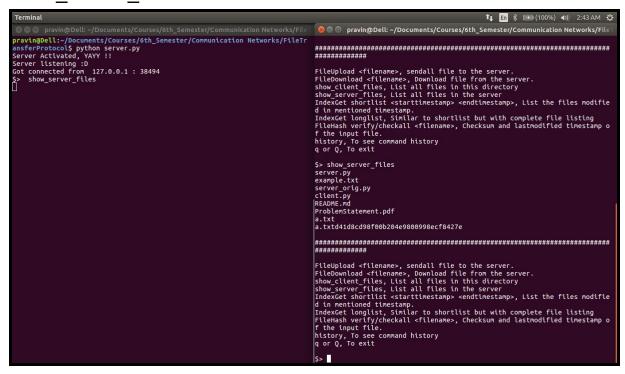


## show\_client\_files





#### show server files

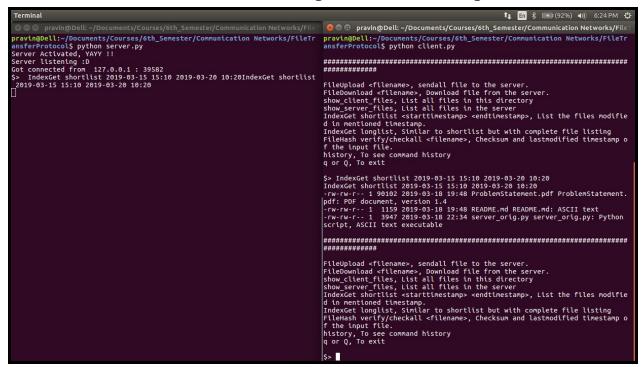


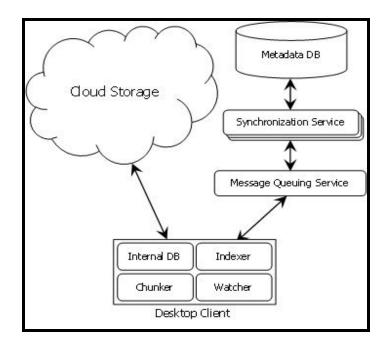
## IndexGet longlist

```
Terminal

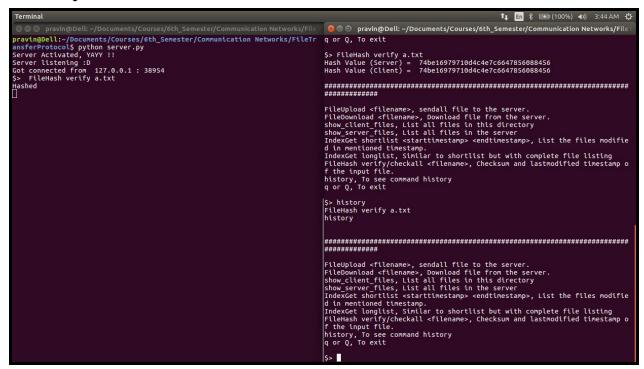
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#### IndexGet shortlist <starttimestamp> <endtimestamp>

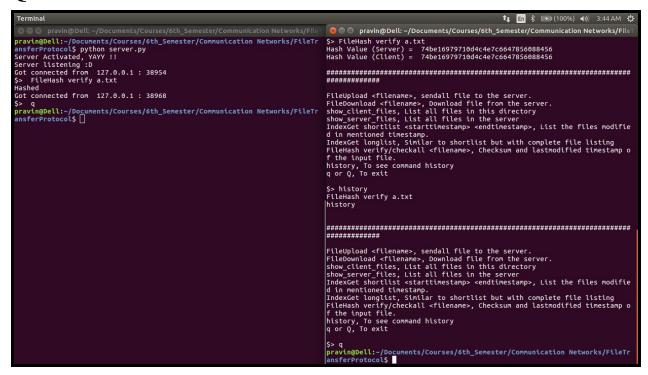




### **History**

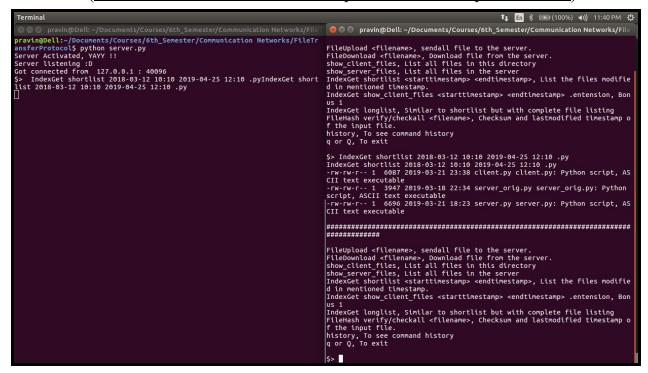


#### Quit



Although,File transfer system (FTP) is the most common file transfer protocol. FTP is used to access or edit files among a set number of users with a password. The users can then gain access to the files shared from an FTP server site. Many FTP sites offer public file sharing or allow users to view or download files using a public password.

**Bonus 1** (IndexGet shortlist <starttimestamp> <endtimestamp> extension)



#### Bonus 2 (IndexGet longlist extension)

