

User Manual

System requirements

Operating system: Linux Ubuntu 15.04

Python 2.7

Server

Set up server

```
$ python Server.py
```

Input port number

When terminal display “Waiting for connection”, it means server have been set up.

Resilience

After set up first server, administrator could use same command to set up multiple servers listening different port. If one process is down, user could input another ip and port to access index which is saved in “ResourceIndex”. The information in index would not lose.

Client

Please ensure 12121 port is available before setting up client.

Please set up server before set up client

Set up server

```
$ python Client.py
```

Input server ip and port

When terminal display “Connecting with server. Your IP is XXX”, it means server have been set up

Register files

```
>p2p -r [FILEPATH]
```

eg.

```
>p2p -r ~/testfile
```

Search file

```
>p2p -f [FILENAME]
```

eg. >p2p -f ~/filename

Download filename

>p2p -o [IP:PORT] [FILEPATH]>[SAVEPATH]

eg. >p2p -o 192.168.1.1:8080 /usr/testfile>~/

Help document

>p2p -h

Exit client

>p2p -q

1000 registrations test

>p2p -Rtest

1000 download test

>p2p -Rdownload

Please ensure there are enough files path in index before testing download