Steps to access EC2 instance and start the tracker

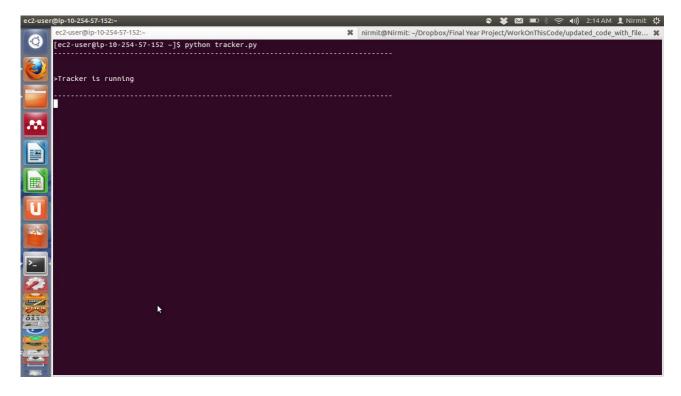
1) On linux, the syntax to login to EC2 instance is : ssh -i /path/to/private/key ec2\_instance\_name

```
nimit@Nirmit:-$
nirmit@Nirmit:-$
ni
```

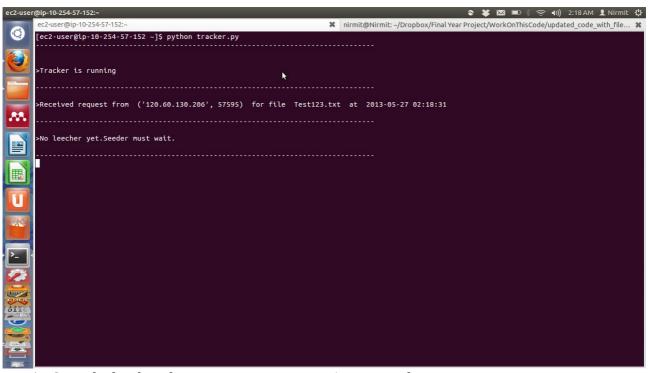
2) Run the httpd service and verify that it's running

```
[ec2-user@ip-10-254-57-152 -]5
```

3) Run the tracker by using the command python tracker.py



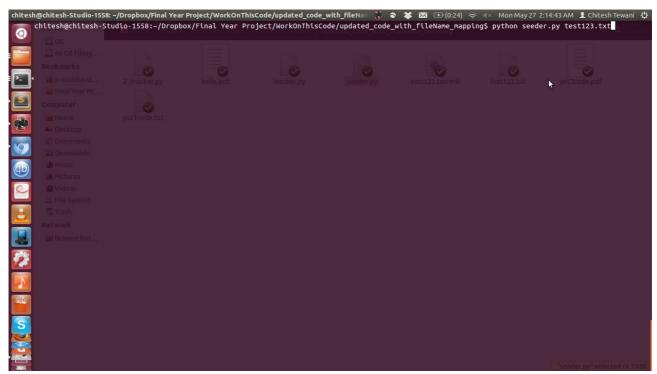
4) If seeder, connects first, the tracker shows the following message:



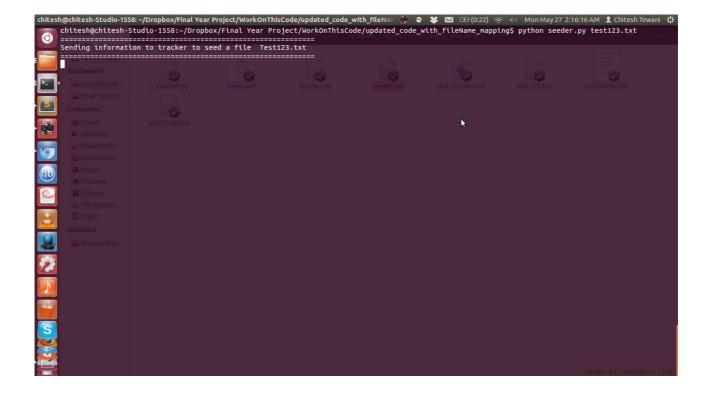
5) Once the leecher also connects, a requestID is generated



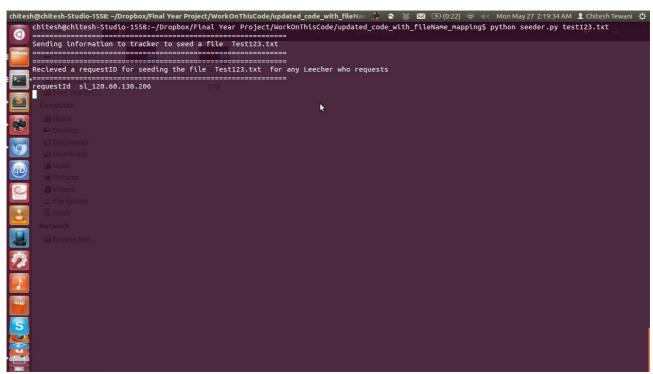
6) The seeder is run using following command : python seeder.py fileToSeed



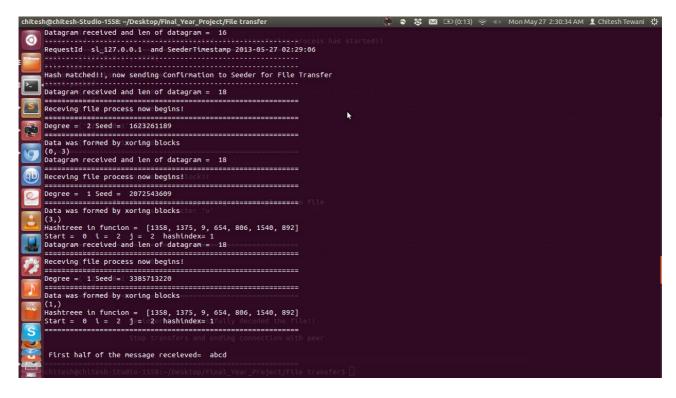
7) The seeder sends relevant information to tracker



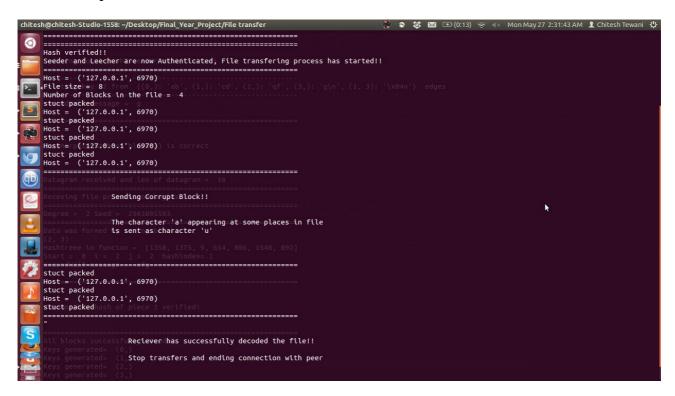
8) The tracker then sends a requestID to the seeder and leeder



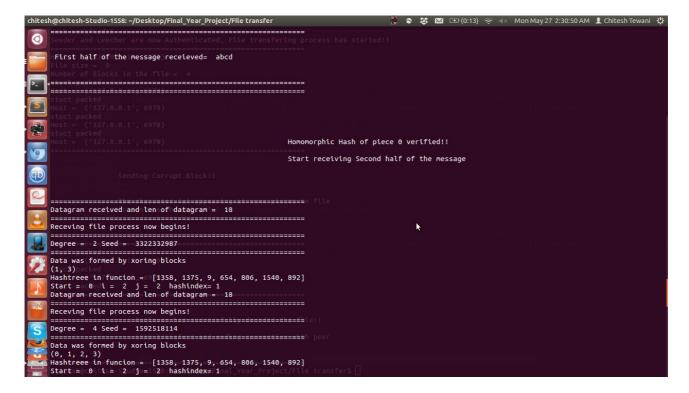
9)The leecher asks seeder for the hash of requestID and then checks if matches it's own requestID. If they match, it sends a confirmation message to seeder and starts receiving the file



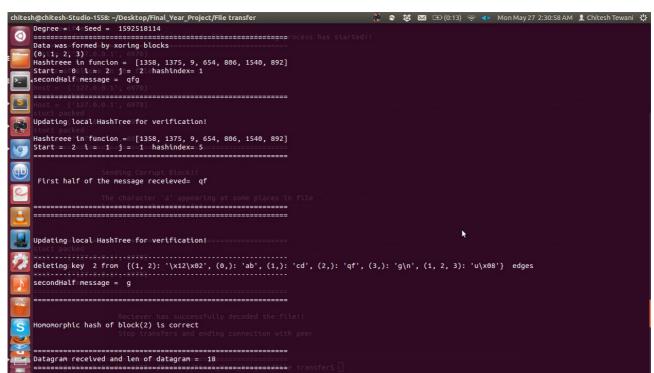
10) The seeder starts seeding file on receiving confirmation message from leecher. It randomly corrupts a block to send



11) The leecher verifies the blocks on the fly by using homomorphic hashing



## 12) If a block is corrupted, it is deleted



13) If homomorphic hash of each piece is verified , the decoding process ends and leecher gets the entire file

