

tor-file-transfer-project

File transfer project using sockets, python and threads.

The project consists of an application where it has a central server and several clients that will connect to this server by setting up a network.

Users can do file searches on the server and do upload and download these files.

Server: Tor-Server. Users: Client-Server (Peer-to-Peer / P2P).

Application Installation and Execution:

- Must be with Python installed, preferably on latest version Updated (Version used: Python 3.6.8)

[Install Python for Linux/MacOS/Windows](#)

- Must be with pip3 installed

[How to install pip3 on Linux](#)

[How to install pip3 on MacOS](#)

[How to install pip3 on Windows](#)

- You need to use the library (tqdm) to use the progressive bar:

[How to install tqdm](#)

Select one of the commands below:

Linux:

```
pip3 install tqdm
```

```
conda install -c conda-forge tqdm
```

```
snap install tqdm
```

MacOS:

```
pip3 packageName
```

Windows:

```
pip install packageName
```

To execute the project locally:

Tor-Server:

Open your terminal and run the followings commands to run the tor-server:

```
git clone https://github.com/pjavier98/tor-file-transfer-project
cd tor-file-transfer-project/tor-project
python3 main_server.py
```

Tor-Client:

Open your terminal and run the followings commands to run a tor-client:

```
git clone https://github.com/pjavier98/tor-file-transfer-project
cd tor-file-transfer-project/tor-project
python3 main_client.py
```

To execute the project using a hosted server:

Tor-Server:

Tor-Server was hosted at DigitalOcean.

To execute the server run the followings commands:

```
ssh root@(IP_FROM_SERVER)
```

Then enter your password and run:

```
git clone https://github.com/pjavier98/tor-file-transfer-project
cd tor-file-transfer-project/tor-project
python3 main_server.py
```

Tor-Client:

Open your terminal and run the followings commands to run a tor-client:

```
git clone https://github.com/pjavier98/tor-file-transfer-project  
cd tor-file-transfer-project/tor-project  
python3 main_client.py
```

Now you are ready to download and upload files, share knowledge and other things with other people around the world!!!