

IT465: Cryptocurrencies and Blockchain Technologies

Lab Assignment 3

Name: Jaidev Chittoria

Roll No. 181IT119

- Implement the IPFS by following the instructions in the Zip file

1) ipfs init

```
jaidev@jaidev-HP-Pavilion-x360-Convertible-14-ba1xx:~/college/sem7/blockchain$ ipfs init
generating ED25519 keypair...done
peer identity: 12D3KooWEp8raGBKigPdKfkP81qcNebmZTXNKwxhb8oqzqdxqrPB
initializing IPFS node at /home/jaidev/snap/ipfs/common
to get started, enter:

    ipfs cat /ipfs/QmQPeNsJPYVWPFDVHb77w8G42Fvo15z4bG2X8D2GhfbSXc/readme
```

2) ipfs cat /ipfs/hash_value/readme

```
jaidev@jaidev-HP-Pavilion-x360-Convertible-14-ba1xx:~/college/sem7/blockchain$ ipfs cat /ipfs/QmQPeNsJPYVWPFDVHb77w8G42Fvo15z4bG2X8D2GhfbSXc/readme
Hello and Welcome to IPFS!

IPFS

If you're seeing this, you have successfully installed
IPFS and are now interfacing with the ipfs merkledag!

-----
| Warning:                                     |
| This is alpha software. Use at your own discretion! |
| Much is missing or lacking polish. There are bugs. |
| Not yet secure. Read the security notes for more. |
-----

Check out some of the other files in this directory:

./about
./help
```

3) ipfs daemon

```
Swarm listening on /ip4/127.0.0.1/tcp/4001
Swarm listening on /ip4/127.0.0.1/udp/4001/quic
Swarm listening on /ip4/192.168.29.37/tcp/4001
Swarm listening on /ip4/192.168.29.37/udp/4001/quic
Swarm listening on /ip6/2405:201:3007:80ea:1b2:4fa2:8b5c:7b4f/tcp/4001
Swarm listening on /ip6/2405:201:3007:80ea:1b2:4fa2:8b5c:7b4f/udp/4001/quic
Swarm listening on /ip6/2405:201:3007:80ea:3edb:da2:2a54:e7b1/tcp/4001
Swarm listening on /ip6/2405:201:3007:80ea:3edb:da2:2a54:e7b1/udp/4001/quic
Swarm listening on /ip6:::1/tcp/4001
Swarm listening on /ip6:::1/udp/4001/quic
Swarm listening on /p2p-circuit
Swarm announcing /ip4/127.0.0.1/tcp/4001
Swarm announcing /ip4/127.0.0.1/udp/4001/quic
Swarm announcing /ip4/192.168.29.37/tcp/4001
Swarm announcing /ip4/192.168.29.37/udp/4001/quic
Swarm announcing /ip6/2405:201:3007:80ea:1b2:4fa2:8b5c:7b4f/tcp/4001
Swarm announcing /ip6/2405:201:3007:80ea:1b2:4fa2:8b5c:7b4f/udp/4001/quic
Swarm announcing /ip6:::1/tcp/4001
Swarm announcing /ip6:::1/udp/4001/quic
API server listening on /ip4/127.0.0.1/tcp/5001
WebUI: http://127.0.0.1:5001/webui
Gateway (readonly) server listening on /ip4/127.0.0.1/tcp/8080
Daemon is ready
```

4) ipfs add filename.extension

5) ipfs pin rm \$YOUR_HASH

```
jaidev@jaidev-HP-Pavillon-x360-Convertible-14-ba1xx:~/college/sem7/blockchain$ ipfs add bleh.pdf
added QmVgRNVjfZLMahENibHd1BCRce8JcFj5Ns21rSnzJ7VKmg bleh.pdf
856.60 KiB / 856.60 KiB [=====] 100.00%
jaidev@jaidev-HP-Pavillon-x360-Convertible-14-ba1xx:~/college/sem7/blockchain$ ipfs pin rm QmQPENs
JPYVWPFdVHb77w8G42Fvo15z4bG2X8D2GhfbSXc
unpinned QmQPENsJPYVWPFdVHb77w8G42Fvo15z4bG2X8D2GhfbSXc
```