

IT465: Cryptocurrencies and Blockchain Technologies

Lab Assignment 3

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```
$ipfs init
```

```
chinmayi@chinmayi-virtual-machine:~/Downloads/lab3/go-ipfs$ ipfs init
initializing IPFS node at /home/chinmayi/.ipfs
generating 2048-bit RSA keypair...done
peer identity: QmSymEixw272qM8q2a7QXvSDLbHaY8Qp1oPqE3Nvnwjuv
to get started, enter:

ipfs cat /ipfs/QmS4ustL54uo8FzR9455qaxZwuMiUhyvMcX9Ba8nUH4uVv/readme
```

```
$ipfs cat /ipfs/hash_value/readme
```

```
chinmayi@chinmayi-virtual-machine:~/Downloads/lab3/go-ipfs$ ipfs cat /ipfs/QmS4ustL54uo8FzR9455qaxZwuMiUhyvMcX9Ba8nUH4uVv/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!

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| 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
./quick-start    <-- usage examples
./readme         <-- this file
./security-notes

chinmayi@chinmayi-virtual-machine:~/Downloads/lab3/go-ipfs$
```

```
$ipfs daemon
```

```
chinmayi@chinmayi-virtual-machine:~/Downloads/lab3/go-ipfs$ ipfs daemon
Initializing daemon...
go-ipfs version: 0.4.22-
Repo version: 7
System version: amd64/linux
Golang version: go1.12.7
Swarm listening on /ip4/127.0.0.1/tcp/4001
Swarm listening on /ip4/172.17.0.1/tcp/4001
Swarm listening on /ip4/192.168.20.128/tcp/4001
Swarm listening on /ip4/192.168.49.1/tcp/4001
Swarm listening on /ip6:::1/tcp/4001
Swarm listening on /p2p-circuit
Swarm announcing /ip4/127.0.0.1/tcp/4001
Swarm announcing /ip4/172.17.0.1/tcp/4001
Swarm announcing /ip4/192.168.20.128/tcp/4001
Swarm announcing /ip4/192.168.49.1/tcp/4001
Swarm announcing /ip6:::1/tcp/4001
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
```

```
$ipfs add filename.extension
```

```
$ipfs pin rm $YOUR_HASH
```

```
chinmayi@chinmayi-virtual-machine:~/Downloads/lab3$ ls
Cat_pic.jpeg
go-ipfs
go-ipfs_v0.4.22_linux-amd64.tar.gz
installation.docx
IPFS.docx
IPFS.odt
'required files.rar (Unzipped Files)'
'required files.rar (Unzipped Files)-20201009T035816Z-001.zip'
chinmayi@chinmayi-virtual-machine:~/Downloads/lab3$ ipfs add Cat_pic.jpeg
added QmUBnuPo3z8Krs0NBfjHboJjUFwUJGdFpR9uMe3aa1ixED Cat_pic.jpeg
6.36 KiB / 6.36 KiB [=====] 100.00%
chinmayi@chinmayi-virtual-machine:~/Downloads/lab3$ ipfs pin rm QmUBnuPo3z8Krs0NBfjHboJjUFwUJGdFpR9uMe3aa1ixED
unpinned QmUBnuPo3z8Krs0NBfjHboJjUFwUJGdFpR9uMe3aa1ixED
chinmayi@chinmayi-virtual-machine:~/Downloads/lab3$
```