

IT465: Cryptocurrencies and Blockchain Technologies

Lab Assignment 3

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\$ipfs init

```
E:\>ipfs init
generating ED25519 keypair...done
peer identity: 12D3KooWBQWnm4yYbtYTPtsRF3q9q76Tfd7voerhvsJ2tj41hmE
initializing IPFS node at C:\Users\hp\.ipfs
to get started, enter:

    ipfs cat /ipfs/QmQPeNsJPYVwPFDVHb77w8G42Fvo15z4bG2X8D2GhfbSXc/readme

E:\>
```

ipfs cat /ipfs/hash_value/readme

```
E:\>ipfs cat /ipfs/QmQPeNsJPYVwPFDVHb77w8G42Fvo15z4bG2X8D2GhfbSXc/readme
Hello and Welcome to IPFS!
```

The IPFS logo is displayed in a stylized, blocky font. The letters 'I', 'P', 'F', and 'S' are interconnected, with the 'P' and 'F' having a unique, angular design. The logo is rendered in a light gray color against a dark background.

```
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.  |
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```

```
Check out some of the other files in this directory:
```

```
./about
./help
./quick-start  <-- usage examples
./readme      <-- this file
./security-notes
```

\$ipfs daemon

```
C:\Windows\system32\cmd.exe - ipfs daemon
E:\>ipfs daemon
Initializing daemon...
go-ipfs version: 0.10.0
Repo version: 11
System version: amd64/windows
Golang version: go1.16.8
Swarm listening on /ip4/127.0.0.1/tcp/4001
Swarm listening on /ip4/127.0.0.1/udp/4001/quic
Swarm listening on /ip4/169.254.139.225/tcp/4001
Swarm listening on /ip4/169.254.139.225/udp/4001/quic
Swarm listening on /ip4/169.254.27.99/tcp/4001
Swarm listening on /ip4/169.254.27.99/udp/4001/quic
Swarm listening on /ip4/169.254.5.138/tcp/4001
Swarm listening on /ip4/169.254.5.138/udp/4001/quic
Swarm listening on /ip4/169.254.62.116/tcp/4001
Swarm listening on /ip4/169.254.62.116/udp/4001/quic
Swarm listening on /ip4/192.168.29.47/tcp/4001
Swarm listening on /ip4/192.168.29.47/udp/4001/quic
Swarm listening on /ip6/2405:201:5c0b:5057:c849:a76b:405:5525/tcp/4001
Swarm listening on /ip6/2405:201:5c0b:5057:c849:a76b:405:5525/udp/4001/quic
Swarm listening on /ip6/2405:201:5c0b:5057:e565:ee4b:9a62:49ce/tcp/4001
Swarm listening on /ip6/2405:201:5c0b:5057:e565:ee4b:9a62:49ce/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 /ip4/192.168.29.47/tcp/4001
Swarm announcing /ip4/192.168.29.47/udp/4001/quic
Swarm announcing /ip6/2405:201:5c0b:5057:e565:ee4b:9a62:49ce/tcp/4001
Swarm announcing /ip6/2405:201:5c0b:5057:e565:ee4b:9a62:49ce/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
```

\$ipfs add filename.extension

\$ipfs pin rm \$YOUR_HASH

```
08-10-2020 23:27 6,512 Cat_pic.jpeg
08-10-2021 00:16 <DIR> go-ipfs_v0.4.22_linux-amd64
09-10-2020 12:04 20,900,056 go-ipfs_v0.4.22_linux-amd64.tar.gz
06-10-2021 13:19 162,407 installation.docx
06-10-2021 13:19 8,978 IPFS.docx
08-10-2021 00:15 <DIR> required files.rar (Unzipped Files)-20201009T035816Z-001
09-10-2020 12:06 21,100,111 required files.rar (Unzipped Files)-20201009T035816Z-001.zip
5 File(s) 42,178,064 bytes
4 Dir(s) 488,899,350,528 bytes free
```

```
D:\lab3_required files for installtion\lab3_required files for installtion>ipfs add Cat_pic.jpeg
```

```
6.36 KiB / 6.36 KiB [=====]
added QmUBnuPo3z8Krs0NBfjHboJjUFwUJGdFpR9uMe3aa1ixED Cat_pic.jpeg
```

```
6.36 KiB / 6.36 KiB [=====]
D:\lab3_required files for installtion\lab3_required files for installtion>ipfs pin rm QmUBnuPo3z8Krs0NBfjHboJjUFwUJGdFpR9uMe3aa1ixED
unpinned QmUBnuPo3z8Krs0NBfjHboJjUFwUJGdFpR9uMe3aa1ixED
```