Chapter 16

NFT Contract 작성

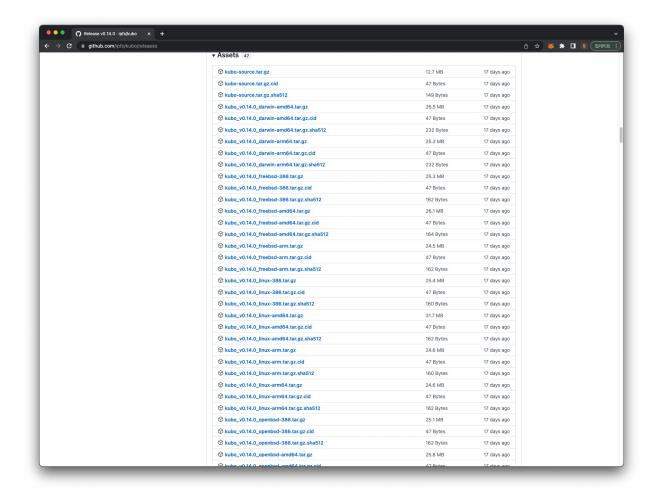
# 메타데이터 생성하기 (1) IPFS 로 메타데이터 업로드

Github 에서 최신 Release 설치하기

https://github.com/ipfs/kubo/releases

자신의 운영체제에 맞는 압축파일 다운로드

(source 단어가 들어간 것은 소스코드 파일이고 실행파일을 다운로드 받아야함)



압축 해제 후

\$./ipfs init

\$./ipfs daemon

으로 실행 가능

```
. .
                kubo — ipfs daemon — ipfs — ipfs daemon — 80×35
   kubo ipfs init
generating ED25519 keypair...done
peer identity: 12D3KooWQBzTV8dnSXQdYrSAcU1T61DvmdKjoidyykPVdJ5odvwZ
initializing IPFS node at /Users/kang/.ipfs
to get started, enter:
        ipfs cat /ipfs/QmQPeNsJPyVWPFDVHb77w8G42Fvo15z4bG2X8D2GhfbSXc/readme

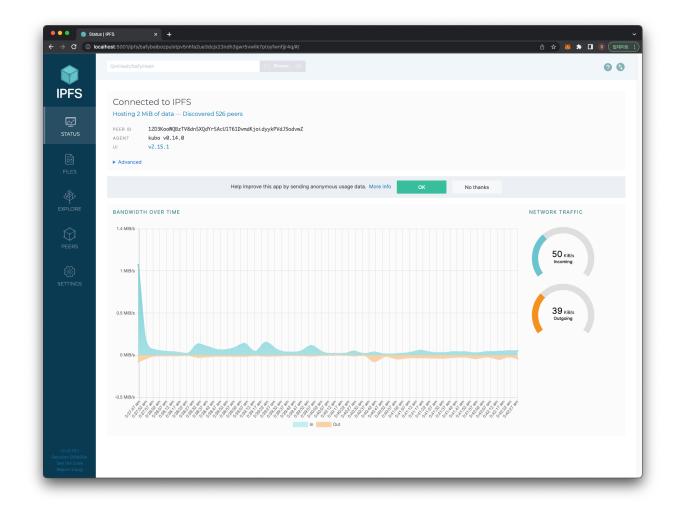
    kubo ipfs daemon

Initializing daemon...
Kubo version: 0.14.0
Repo version: 12
System version: amd64/darwin
Golang version: go1.18.3
Swarm listening on /ip4/127.0.0.1/tcp/4001
Swarm listening on /ip4/127.0.0.1/udp/4001/quic
Swarm listening on /ip4/169.254.226.65/tcp/4001
Swarm listening on /ip4/169.254.226.65/udp/4001/quic
Swarm listening on /ip4/172.30.1.35/tcp/4001
Swarm listening on /ip4/172.30.1.35/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 /ip4/172.30.1.35/tcp/4001
Swarm announcing /ip4/172.30.1.35/udp/4001/quic
Swarm announcing /ip4/218.153.201.98/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
```

브라우저에서

http://127.0.0.1:5001/webui

로 관리자 페이지 접속 가능



파일 탭에서 파일 업로드 가능

