

Prerequisites – Private Chain Mining

You need to have Geth installed. The easiest way to do this is through homebrew.
Open Terminal and install homebrew

ruby -e "\$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"

2. Now install geth

brew tap ethereum/ethereum

brew install ethereum

2. Create your genesis file

touch myGenesis.json

3. Open your genesis file and paste the following

```
{
  "config": {
    "chainId": 1994,
    "homesteadBlock": 0,
    "eip155Block": 0,
    "eip158Block": 0,
    "byzantiumBlock": 0
  },
  "difficulty": "400",
  "gasLimit": "2000000",
  "alloc": {
    "7b684d27167d208c66584ece7f09d8bc8f86ffff": {
      "balance": "1000000000000000000000000"
    },
    "ae13d41d66af28380c7af6d825ab557eb271ffff": {
      "balance": "1200000000000000000000000"
    }
  }
}
```

1. Instantiate your data directory

geth --datadir ./myDataDir init ./myGenesis.json

2. Start your Ethereum peer node.

geth --datadir ./myDataDir --networkid 1114 console 2>> myEth.log

3. Display your Ethereum logs

Open another terminal window

cd to my-eth-chain

Type **tail -f myEth.log**

4. Import/Create an Account

In the geth JavaScript console, create an account:

> **personal.newAccount("<YOUR_PASSPHRASE>")**

Do not forget this passphrase! You will be typing this a lot, so for this test network you can keep it simple.

IPFS

1. Install go
2. go get github.com/jbenet/go-ipfs/cmd/ipfs
3. ipfs init