```
Last login: Thu Jul 30 02:00:08 on console
(base) ALJJOHARAs-MBP:~ aljohara$ cd Dropbox/FinTech/blockchain-tools/
(base) ALJJOHARAs-MBP:blockchain-tools aljohara$ ./geth account new --datadir node1
INFO [07-30|02:02:01.050] Maximum peer count                       ETH=50 LES=0 total=50
Your new account is locked with a password. Please give a password. Do not forget this password.
Password:
Repeat password:

Your new key was generated

Public address of the key:   0x7e3a150aE32E95B361aF4EF27a3c96E5a7DB2A62
Path of the secret key file: node1/keystore/UTC--2020-07-30T06-02-19.342678000Z--7e3a150ae32e95b361af4ef27a3c9
6e5a7db2a62

- You can share your public address with anyone. Others need it to interact with you.
- You must NEVER share the secret key with anyone! The key controls access to your funds!
- You must BACKUP your key file! Without the key, it's impossible to access account funds!
- You must REMEMBER your password! Without the password, it's impossible to decrypt the key!

(base) ALJJOHARAs-MBP:blockchain-tools aljohara$ ./geth account new --datadir node2
INFO [07-30|02:02:39.336] Maximum peer count                       ETH=50 LES=0 total=50
Your new account is locked with a password. Please give a password. Do not forget this password.
Password:
Repeat password:

Your new key was generated

Public address of the key:   0xBd48177E230fA4f18e1Aa860d56424AA15dF5cd1
Path of the secret key file: node2/keystore/UTC--2020-07-30T06-02-45.151686000Z--bd48177e230fa4f18e1aa860d5642
4aa15df5cd1

- You can share your public address with anyone. Others need it to interact with you.
- You must NEVER share the secret key with anyone! The key controls access to your funds!
- You must BACKUP your key file! Without the key, it's impossible to access account funds!
- You must REMEMBER your password! Without the password, it's impossible to decrypt the key!

(base) ALJJOHARAs-MBP:blockchain-tools aljohara$ ./puppeth
+-----------------------------------------------------------+
| Welcome to puppeth, your Ethereum private network manager |
|                                                           |
| This tool lets you create a new Ethereum network down to  |
| the genesis block, bootnodes, miners and ethstats servers |
| without the hassle that it would normally entail.         |
|                                                           |
| Puppeth uses SSH to dial in to remote servers, and builds |
| its network components out of Docker containers using the |
| docker-compose toolset.                                   |
+-----------------------------------------------------------+

Please specify a network name to administer (no spaces, hyphens or capital letters please)
> crypto_project

Sweet, you can set this via --network=crypto_project next time!

INFO [07-30|02:03:41.943] Administering Ethereum network            name=crypto_project
WARN [07-30|02:03:41.944] No previous configurations found          path=/Users/aljohara/.puppeth/crypto_projec
t

What would you like to do? (default = stats)
 1. Show network stats
 2. Configure new genesis
 3. Track new remote server
 4. Deploy network components
> 2

What would you like to do? (default = create)
 1. Create new genesis from scratch
 2. Import already existing genesis
> 1

Which consensus engine to use? (default = clique)
 1. Ethash - proof-of-work
```

```
  2. Clique - proof-of-authority
> 2

How many seconds should blocks take? (default = 15)
>

Which accounts are allowed to seal? (mandatory at least one)
> 0x7e3a150aE32E95B361aF4EF27a3c96E5a7DB2A62
> 0xBd48177E230fA4f18e1Aa860d56424AA15dF5cd1
> 0x

Which accounts should be pre-funded? (advisable at least one)
> 0x7e3a150aE32E95B361aF4EF27a3c96E5a7DB2A62
> 0xBd48177E230fA4f18e1Aa860d56424AA15dF5cd1
> 0x

Should the precompile-addresses (0x1 .. 0xff) be pre-funded with 1 wei? (advisable yes)
> no

Specify your chain/network ID if you want an explicit one (default = random)
> 555
INFO [07-30|02:06:55.044] Configured new genesis block

What would you like to do? (default = stats)
 1. Show network stats
 2. Manage existing genesis
 3. Track new remote server
 4. Deploy network components
> 2

 1. Modify existing configurations
 2. Export genesis configurations
 3. Remove genesis configuration
> 2

Which folder to save the genesis specs into? (default = current)
  Will create crypto_project.json, crypto_project-aleth.json, crypto_project-harmony.json, crypto_project-pari
ty.json
>
INFO [07-30|02:07:52.889] Saved native genesis chain spec          path=crypto_project.json
ERROR[07-30|02:07:52.889] Failed to create Aleth chain spec        err="unsupported consensus engine"
ERROR[07-30|02:07:52.890] Failed to create Parity chain spec       err="unsupported consensus engine"
INFO [07-30|02:07:52.890] Saved genesis chain spec                 client=harmony path=crypto_project-harmony.
json

What would you like to do? (default = stats)
 1. Show network stats
 2. Manage existing genesis
 3. Track new remote server
 4. Deploy network components
> ^C
(base) ALJJOHARAs-MBP:blockchain-tools aljohara$ ./geth init crypto_project.json --datadir node1
INFO [07-30|02:08:44.852] Maximum peer count                       ETH=50 LES=0 total=50
INFO [07-30|02:08:44.873] Allocated cache and file handles         database=/Users/aljohara/Dropbox/FinTech/bl
ockchain-tools/node1/geth/chaindata cache=16.00MiB handles=16
INFO [07-30|02:08:44.912] Writing custom genesis block
INFO [07-30|02:08:44.914] Persisted trie from memory database      nodes=3 size=457.00B time=148.635µs gcnodes
=0 gcsize=0.00B gctime=0s livenodes=1 livesize=0.00B
INFO [07-30|02:08:44.916] Successfully wrote genesis state         database=chaindata hash=989671…011b08
INFO [07-30|02:08:44.916] Allocated cache and file handles         database=/Users/aljohara/Dropbox/FinTech/bl
ockchain-tools/node1/geth/lightchaindata cache=16.00MiB handles=16
INFO [07-30|02:08:44.939] Writing custom genesis block
INFO [07-30|02:08:44.944] Persisted trie from memory database      nodes=3 size=457.00B time=4.856481ms gcnode
s=0 gcsize=0.00B gctime=0s livenodes=1 livesize=0.00B
INFO [07-30|02:08:44.945] Successfully wrote genesis state         database=lightchaindata hash=989671…011b08
(base) ALJJOHARAs-MBP:blockchain-tools aljohara$ ./geth init crypto_project.json --datadir node2
INFO [07-30|02:08:56.760] Maximum peer count                       ETH=50 LES=0 total=50
INFO [07-30|02:08:56.775] Allocated cache and file handles         database=/Users/aljohara/Dropbox/FinTech/bl
ockchain-tools/node2/geth/chaindata cache=16.00MiB handles=16
INFO [07-30|02:08:56.815] Writing custom genesis block
INFO [07-30|02:08:56.815] Persisted trie from memory database      nodes=3 size=457.00B time=286.619µs gcnodes
=0 gcsize=0.00B gctime=0s livenodes=1 livesize=0.00B
```

```
INFO [07-30|02:08:56.817] Successfully wrote genesis state          database=chaindata hash=989671…011b08
INFO [07-30|02:08:56.817] Allocated cache and file handles          database=/Users/aljohara/Dropbox/FinTech/bl
ockchain-tools/node2/geth/lightchaindata cache=16.00MiB handles=16
INFO [07-30|02:08:56.844] Writing custom genesis block
INFO [07-30|02:08:56.844] Persisted trie from memory database       nodes=3 size=457.00B time=145.695µs gcnodes
=0 gcsize=0.00B gctime=0s livenodes=1 livesize=0.00B
INFO [07-30|02:08:56.852] Successfully wrote genesis state          database=lightchaindata hash=989671…011b08
(base) ALJJOHARAs-MBP:blockchain-tools aljohara$
```