

```
Last login: Thu Jul 22 19:57:46 on ttys003
(base) ➜ ~ ➜ cd Blockchain-Homework
(base) ➜ ~/Blockchain-Homework ➜ ls
COPYING      Screenshots abigen      bootnode     clef          evm           geth          puppeth      rlpdump
(base) ➜ ~/Blockchain-Homework ➜ ./geth --datadir node1 account new
INFO [07-23|18:38:54.841] 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: 0x559dD9C383160FFdC598EE1649FeE08d958A7483
Path of the secret key file: node1/keystore/UTC--2021-07-23T22-39-03.139812000Z--559dd9c383160ffdc598ee1649fee08d958a7483
```

- 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) ➜ ~/Blockchain-Homework ➜ ./geth --datadir node2 account new
INFO [07-23|18:39:54.817] 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: 0xE1326e439D1D885f5B3F08a1F1A007bf5cDD8BD6
Path of the secret key file: node2/keystore/UTC--2021-07-23T22-40-01.482176000Z--e1326e439d1d885f5b3f08a1f1a007bf5cdd8bd6
```

- 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) ➜ ~/Blockchain-Homework ➜ ls
COPYING      abigen      clef      geth      node2      rlpdump
Screenshots  bootnode    evm       node1     puppeth
(base) ➜ ~/Blockchain-Homework ➜ ./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)

> technonet

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

```
INFO [07-23|18:43:01.978] Administering Ethereum network      name=technonet
WARN [07-23|18:43:01.980] No previous configurations found     path=/Users/yhacoupian/.puppeth/technonet
```

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)

```
> 0x559dD9C383160FfDc598EE1649FeE08d958A7483
> 0xE1326e439D1D885f5B3F08a1F1A007bf5cDD8BD6
> 0x
```

Which accounts should be pre-funded? (advisable at least one)

```
> 0x559dD9C383160FfDc598EE1649FeE08d958A7483
> 0xE1326e439D1D885f5B3F08a1F1A007bf5cDD8BD6
> 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)

```
> 888
```

INFO [07-23|18:46:05.381] 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 technonet.json, technonet-aleth.json, technonet-harmony.json, technonet-parity.json

```
> technonet
```

```
INFO [07-23|18:47:40.421] Saved native genesis chain spec
ERROR[07-23|18:47:40.421] Failed to create Aleth chain spec
ERROR[07-23|18:47:40.422] Failed to create Parity chain spec
INFO [07-23|18:47:40.422] Saved genesis chain spec
```

path=technonet/technonet.json

err="unsupported consensus engine"

err="unsupported consensus engine"

client=harmony path=technonet/technonet-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
>
```