### Setting up Nodes

#### Displaying Public Key Address and path of the secret key

```
ash@DESKTOP-4V2GKV3 MINGW64 ~/Documents/Fintech Folder/Activities/Homework/BlockChain 02
  geth --datadir node1 account new
NFO [02-01|13:51:56.701] Maximum peer count
                                                                                                             ETH=50 LES=0 total=50
 our new account is locked with a password. Please give a password. Do not forget this password.
Repeat password:
Your new key was generated
Public address of the key: 0xf98EA25E569c4bF4F7Df8d42cC3a15F418BD3906
Path of the secret key file: node1\keystore\UTC--2021-02-01T18-52-11.376914100Z--f98ea25e569c4bf4f7df8d42cc3a15f418bd3906
  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!
  geth --datadir node2 account new
NFO [02-01|13:52:33.590] 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:  0x233899c7f3491A09275f28cc91F5Ae500984b00E
Path of the secret key file: node2\keystore\UTC--2021-02-01T18-52-38.929022900Z--233899c7f3491a09275f28cc91f5ae500984b00e
  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!
```

# Running puppeth Setting up huntbank network Creating genesis for proof-of-authority

```
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)
Sweet, you can set this via --network=huntbank next time!
©[32mINFO ©[0m[02-01|13:53:47.275] Administering Ethereum network
©[33mWARN ©[0m[02-01|13:53:47.280] No previous configurations found
                                                                                                                  @[32mname@[0m=huntbank
@[33mpath@[0m=C:\Users\Cash\.puppeth\huntbank
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
What would you like to do? (default = create)
1. Create new genesis from scratch
2. Import already existing genesis
Which consensus engine to use? (default = clique)
 1. Ethash - proof-of-work
2. Clique - proof-of-authority
 How many seconds should blocks take? (default = 15)
> 15
```

#### Listing accounts to seal and pre-fund

#### Using Geth to initialize huntbank.json

```
### would you like to do? (default = stats)

1. Show network stats

2. Manage existing genesis

3. Track new remote server

4. Deploy network components

5 @[35mcRIT [[6m](0.-01]|3:55:23,754] Failed to read user input

### Signt --datadir nodes init huntbank.json

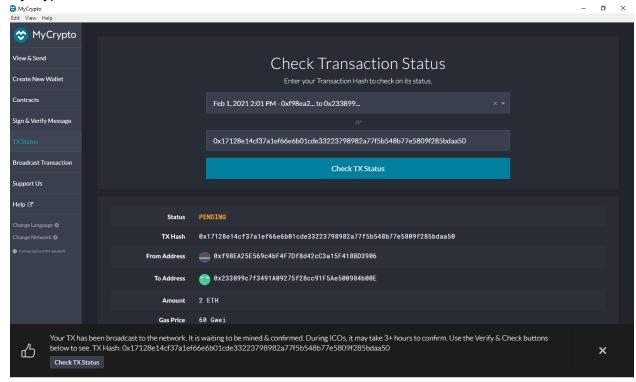
### DIFF (0.-01]|3:55:43,753]

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```

## Sending transaction from Node 1 to Node 2

# Node 2 setup to receive funds from Node 1 Peer to Peer Blockchain Transaction

# MyCrypto Node 1 to Node 2 Transaction Status



#### Chain ID