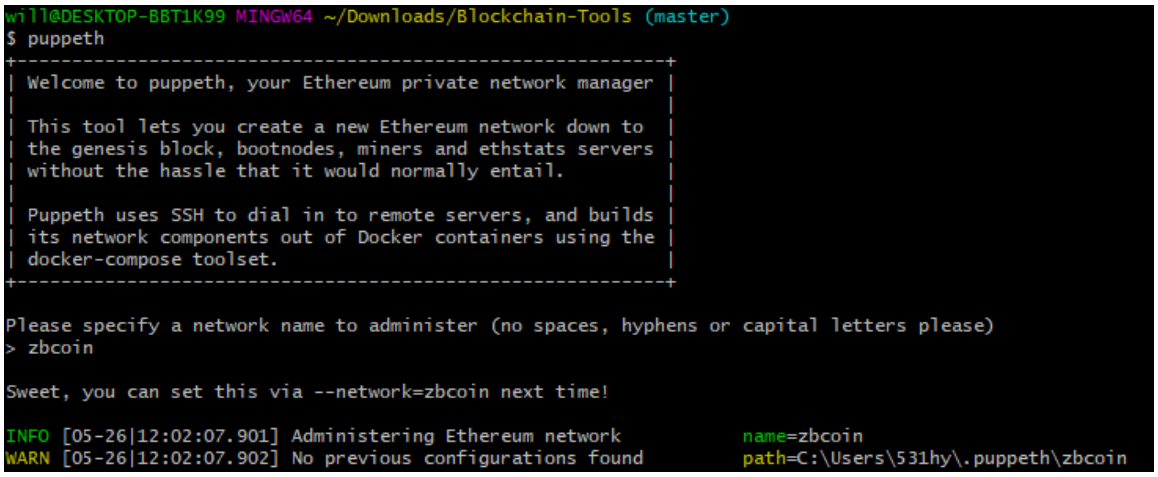
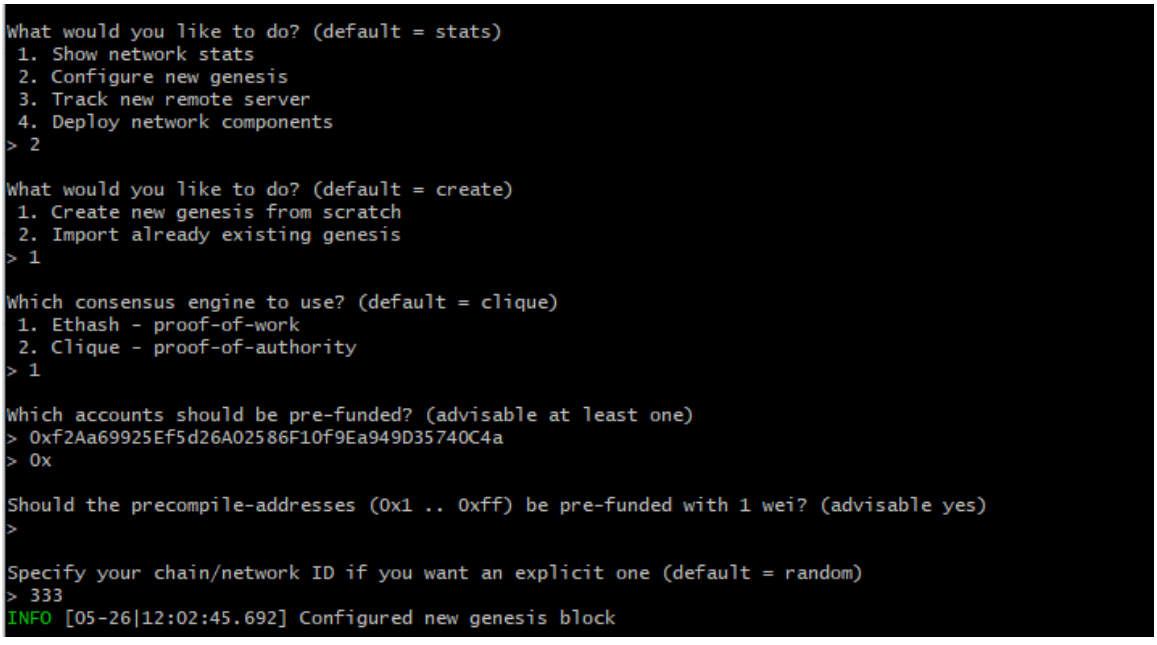
1. In gitbash navigate to the project folder, run puppet commend.
2. Name your network.



3. Select the options as shown below.
4. Prefund your account by providing your account address.
5. Specify your chain/network ID, use same ID as your MyCrypto Network ID.



6. Select options as shown below.
7. Create zbcoin.json
8. Exit.

```
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 zbcoin.json, zbcoin-aleth.json, zbcoin-harmony.json, zbcoin-parity.json
> zbcoin
INFO [05-26|12:03:56.777] Saved native genesis chain spec          path=zbcoin\zbcoin.json
INFO [05-26|12:03:56.780] Saved genesis chain spec                 client=aleth path=zbcoin\zbcoin-aleth.json
INFO [05-26|12:03:56.782] Saved genesis chain spec                 client=parity path=zbcoin\zbcoin-parity.json
INFO [05-26|12:03:56.786] Saved genesis chain spec                 client=harmony path=zbcoin\zbcoin-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
>
```

9. Create node1 and 2.

```
will@DESKTOP-BBT1K99 MINGW64 ~/Downloads/Blockchain-Tools (master)
$ geth account new --datadir node1
INFO [05-26|12:04:27.760] 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.
!! Unsupported terminal, password will be echoed.
Password: [redacted]

Repeat password: [redacted]


Your new key was generated

Public address of the key:   0x708d9b10837735Fc3F503208848D201c7b0d517e
Path of the secret key file: node1\keystore\UTC--2021-05-26T17-04-31.501326900Z--708d9b10837735fc3f503208848d201c7b0d517e

- 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!


will@DESKTOP-BBT1K99 MINGW64 ~/Downloads/Blockchain-Tools (master)
$ geth account new --datadir node2
INFO [05-26|12:04:37.714] 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.
!! Unsupported terminal, password will be echoed.
Password: [redacted]

Repeat password: [redacted]


Your new key was generated

Public address of the key:   0xdD4f19101234d84fAB18B3a7e0E5b15C4AE91577
Path of the secret key file: node2\keystore\UTC--2021-05-26T17-04-41.120192700Z--dd4f19101234d84fab18b3a7e0e5b15c4ae91577

- 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!
```

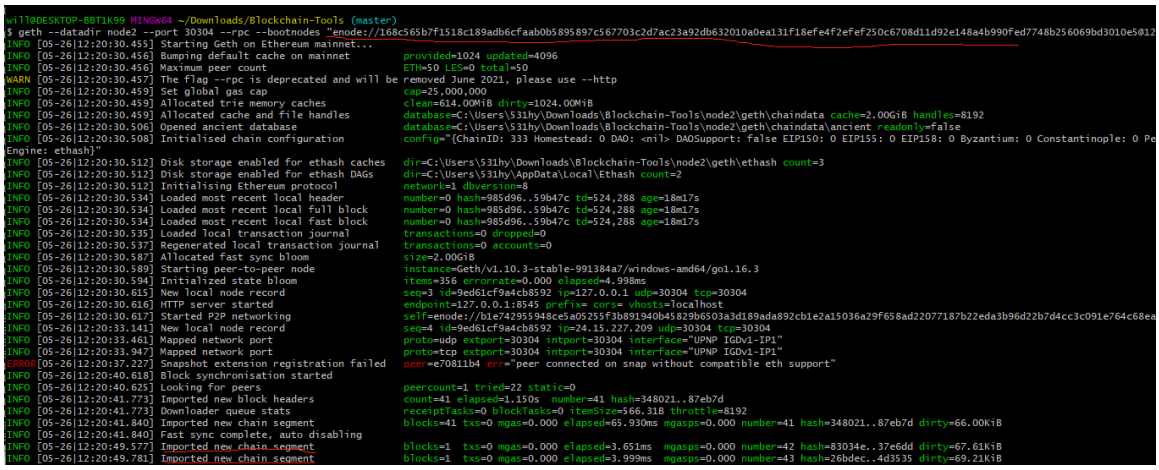
10. Initialize both nodes.

```
will@DESKTOP-BBT1K99 MINGW64 ~/Downloads/Blockchain-Tools (master)
[redacted]

$ geth init zbcoin/zbcoin.json --datadir node1
INFO [05-26|12:07:14.969] Maximum peer count                       ETH=50 LES=0 total=50
INFO [05-26|12:07:14.973] Set global gas cap                       cap=25,000,000
INFO [05-26|12:07:14.973] Allocated cache and file handles         database=C:\Users\531hy\Downloads\Blockchain-Tools\node1\geth\chaindata cache=16.00MiB handles=
16
INFO [05-26|12:07:14.986] Writing custom genesis block
INFO [05-26|12:07:14.995] Persisted trie from memory database      nodes=356 size=50.51KiB time=2.223ms gcnodes=0 gcsize=0.00B gctime=0s livenodes=1 livesize=0.00
B
INFO [05-26|12:07:14.996] Successfully wrote genesis state         database=chaindata hash=985d96..59b47c
INFO [05-26|12:07:14.996] Allocated cache and file handles         database=C:\Users\531hy\Downloads\Blockchain-Tools\node1\geth\lightchaindata cache=16.00MiB han
dles=16
INFO [05-26|12:07:15.008] Writing custom genesis block
INFO [05-26|12:07:15.016] Persisted trie from memory database      nodes=356 size=50.51KiB time=2.3601ms gcnodes=0 gcsize=0.00B gctime=0s livenodes=1 livesize=0.0
0B
INFO [05-26|12:07:15.017] Successfully wrote genesis state         database=lightchaindata hash=985d96..59b47c

will@DESKTOP-BBT1K99 MINGW64 ~/Downloads/Blockchain-Tools (master)
$ geth init zbcoin/zbcoin.json --datadir node2
INFO [05-26|12:07:30.052] Maximum peer count                       ETH=50 LES=0 total=50
INFO [05-26|12:07:30.056] Set global gas cap                       cap=25,000,000
INFO [05-26|12:07:30.056] Allocated cache and file handles         database=C:\Users\531hy\Downloads\Blockchain-Tools\node2\geth\chaindata cache=16.00MiB handles=
16
INFO [05-26|12:07:30.066] Writing custom genesis block
INFO [05-26|12:07:30.075] Persisted trie from memory database      nodes=356 size=50.51KiB time=1.9998ms gcnodes=0 gcsize=0.00B gctime=0s livenodes=1 livesize=0.0
0B
INFO [05-26|12:07:30.076] Successfully wrote genesis state         database=chaindata hash=985d96..59b47c
INFO [05-26|12:07:30.076] Allocated cache and file handles         database=C:\Users\531hy\Downloads\Blockchain-Tools\node2\geth\lightchaindata cache=16.00MiB han
dles=16
INFO [05-26|12:07:30.087] Writing custom genesis block
INFO [05-26|12:07:30.095] Persisted trie from memory database      nodes=356 size=50.51KiB time=2.0005ms gcnodes=0 gcsize=0.00B gctime=0s livenodes=1 livesize=0.0
0B
INFO [05-26|12:07:30.096] Successfully wrote genesis state         database=lightchaindata hash=985d96..59b47c
```

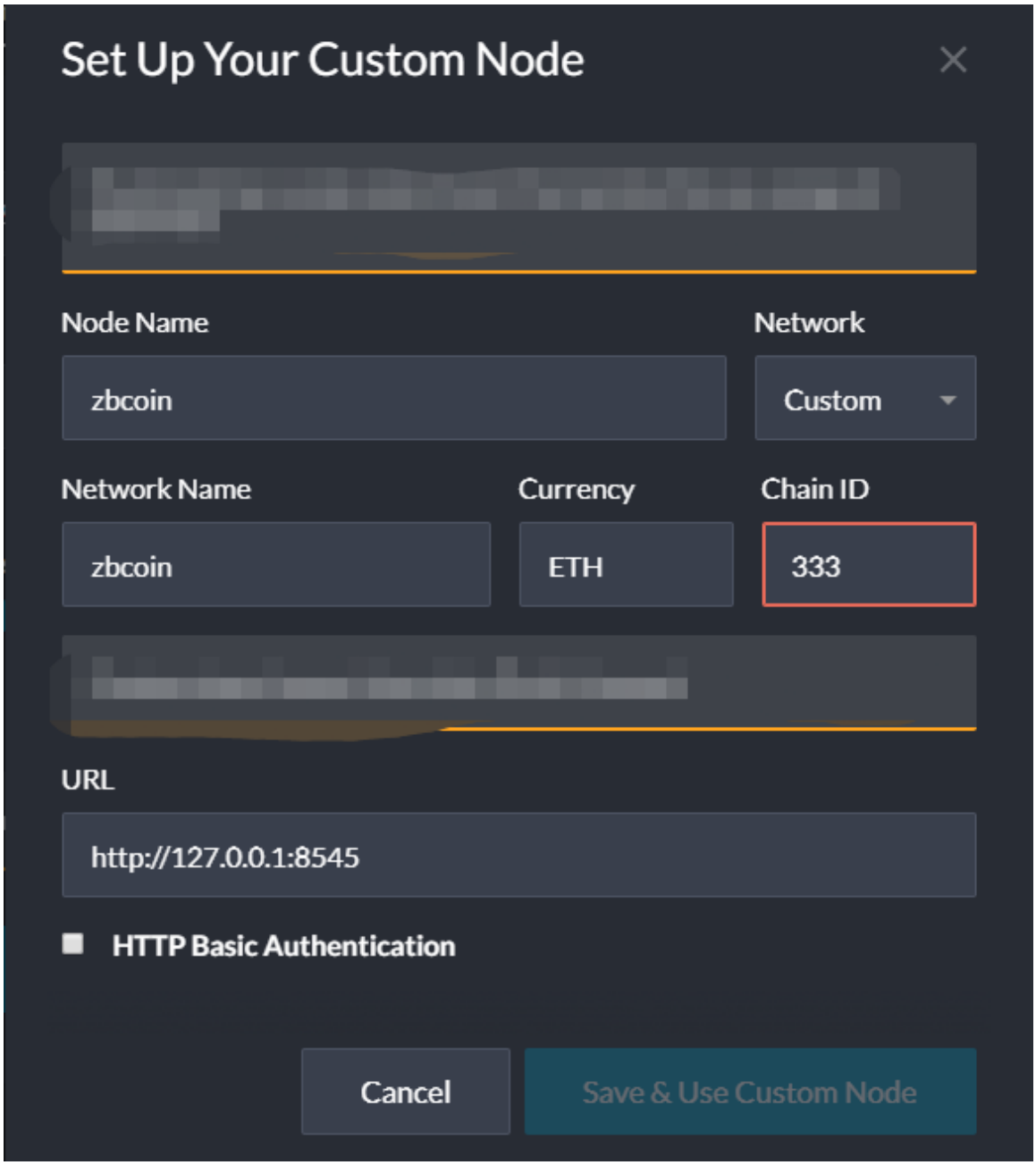
11. Start mining using node1.
12. Successfully started mining when we see the circled messages.
13. Save enode address.

```
will@DESKTOP-BBT1K99 MINGW64 ~/Downloads/Blockchain-Tools (master)
$ geth --datadir node1 --mine --miner.threads 1 --allow-insecure-unlock
INFO [05-26|12:16:11.603] Starting Geth on Ethereum mainnet...
INFO [05-26|12:16:11.604] Bumping default cache on mainnet         provided=1024 updated=4096
INFO [05-26|12:16:11.607] Maximum peer count                       ETH=50 LES=0 total=50
INFO [05-26|12:16:11.610] Set global gas cap                       cap=25,000,000
INFO [05-26|12:16:11.610] Allocated trie memory caches             clean=614.00MiB dirty=1024.00MiB
INFO [05-26|12:16:11.612] Allocated cache and file handles         database=C:\Users\531hy\Downloads\Blockchain-Tools\node1\geth\chaindata cache=2.00GiB handles=8
INFO [05-26|12:16:11.663] Opened ancient database                  database=C:\Users\531hy\Downloads\Blockchain-Tools\node1\geth\chaindata\ancient readonly=false
INFO [05-26|12:16:11.664] Initialised chain configuration          config="{ChainID: 333 Homestead: 0 DAO: <nil> DAOSupport: false EIP150: 0 EIP155: 0 EIP158: 0 B
Engine: ethash}"
INFO [05-26|12:16:11.667] Disk storage enabled for ethash caches   dir=C:\Users\531hy\Downloads\Blockchain-Tools\node1\geth\ethash count=3
INFO [05-26|12:16:11.667] Disk storage enabled for ethash DAGs     dir=C:\Users\531hy\AppData\Local\Ethash count=2
INFO [05-26|12:16:11.667] Initialising Ethereum protocol           network=1 dbversion=<nil>
INFO [05-26|12:16:11.669] Loaded most recent local header          number=0 hash=985d96..59b47c td=524,288 age=13m58s
INFO [05-26|12:16:11.669] Loaded most recent local full block      number=0 hash=985d96..59b47c td=524,288 age=13m58s
INFO [05-26|12:16:11.669] Loaded most recent local fast block      number=0 hash=985d96..59b47c td=524,288 age=13m58s
WARN [05-26|12:16:11.669] Failed to load snapshot, regenerating    err="missing or corrupted snapshot"
INFO [05-26|12:16:11.669] Rebuilding state snapshot
INFO [05-26|12:16:11.670] Resuming state snapshot generation       root=7bc41c..39a216 accounts=0 slots=0 storage=0.00B elapsed="525.8µs"
INFO [05-26|12:16:11.671] Regenerated local transaction journal   transactions=0 accounts=0
INFO [05-26|12:16:11.724] Allocated fast sync bloom                size=2.00GiB
WARN [05-26|12:16:11.726] Error reading unclean shutdown markers   error="leveldb: not found"
INFO [05-26|12:16:11.726] Starting peer-to-peer node               instance=Geth/v1.10.3-stable-991384a7/windows-amd64/go1.16.3
INFO [05-26|12:16:11.731] Initialized state bloom                  items=356 errorrate=0.000 elapsed=5.980ms
INFO [05-26|12:16:11.743] New local node record                    seq=1 id=eee1265fe6d99b21 ip=127.0.0.1 udp=30303 tcp=30303
INFO [05-26|12:16:11.746] IPC endpoint opened                      url=\\.\pipe\geth.ipc
INFO [05-26|12:16:11.746] Transaction pool price threshold updated price=1,000,000,000
INFO [05-26|12:16:11.746] Updated mining threads                   threads=1
INFO [05-26|12:16:11.746] Transaction pool price threshold updated price=1,000,000,000
INFO [05-26|12:16:11.746] Etherbase automatically configured       address=0x708d9b10837735Fc3F503208848D201c7b0d517e
INFO [05-26|12:16:11.746] Commit new mining work                   number=1 sealhash=2de4e8..4ec990 uncles=0 txs=0 gas=0 fees=0 elapsed=0s
INFO [05-26|12:16:11.746] Started P2P networking                   self=enode://168c565b7f1518c189adb6cfaab0b5895897c567703c2d7ac23a92db632010a0ea131f18efe4f2efef
INFO [05-26|12:16:11.749] Generated state snapshot                 accounts=257 slots=0 storage=9.57KiB elapsed=80.201ms
INFO [05-26|12:16:14.179] New local node record                    seq=2 id=eee1265fe6d99b21 ip=24.15.227.209 udp=30303 tcp=30303
INFO [05-26|12:16:18.046] Successfully sealed new block            number=1 sealhash=2de4e8..4ec990 hash=fb7151..789a99 elapsed=6.299s
INFO [05-26|12:16:18.047] 🔨 mined potential block                  number=1 hash=fb7151..789a99
INFO [05-26|12:16:18.047] Commit new mining work                   number=2 sealhash=518593..b9229d uncles=0 txs=0 gas=0 fees=0 elapsed=0s
INFO [05-26|12:16:18.083] Mapped network port                      proto=udp extport=30303 intport=30303 interface="UPNP IGDv2-IP1"
INFO [05-26|12:16:21.576] Successfully sealed new block            number=2 sealhash=518593..b9229d hash=92d192..ec3f9d elapsed=3.528s
INFO [05-26|12:16:21.576] 🔨 mined potential block                  number=2 hash=92d192..ec3f9d
```

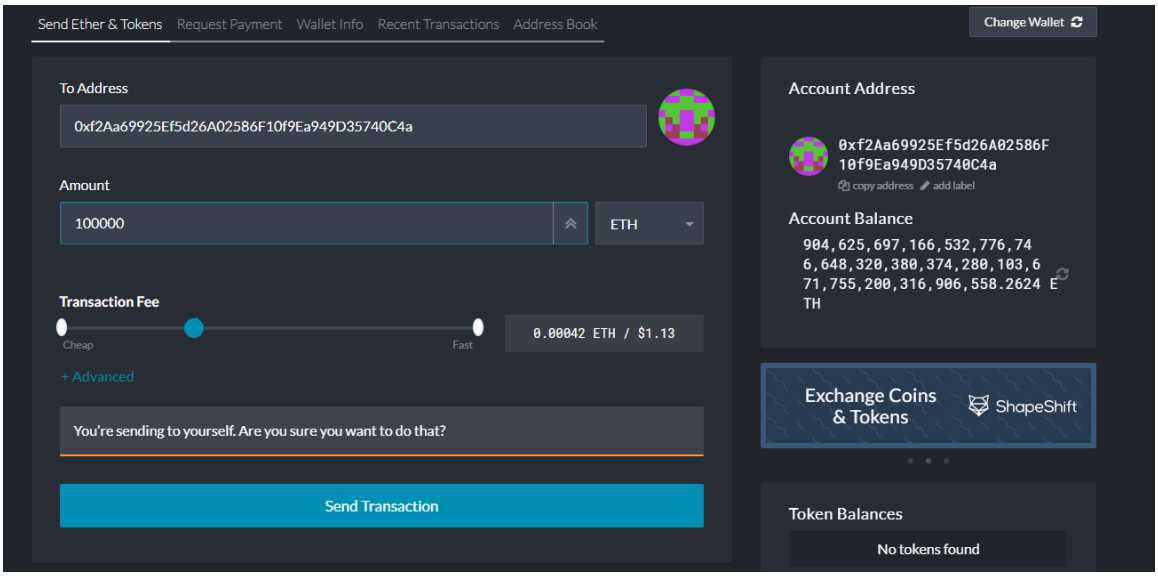
14. Open a new gitbash window.
15. Connect node2 to node1 by using node1's enode address.
16. Connect was successful if we see "Imported new chain segment"



17. Go to MyCrypto and set up your custom node as shown below.
18. Close MyCrypto and reopen it up to get connected to your custom node.


Set Up Your Custom Node
Node Name
zbcoin
Network
Custom
Network Name
zbcoin
Currency
ETH
Chain ID
333
URL
http://127.0.0.1:8545
HTTP Basic Authentication
Cancel
Save & Use Custom Node

19. Send test ETH transfer to ourself.



20. Transfer was done.