

# Initialize genesis file for both the nodes

The screenshot displays the initialization of the genesis file for two Ethereum nodes, node3 and node4. The terminal windows show the execution of the 'geth --datadir' command, which initializes the node's database and creates the genesis file. The output indicates that the genesis file has been successfully written to the specified datadir. Below the terminal windows, two file explorer windows show the 'firstBC' and 'secondBC' folders, each containing a 'genesis' file.

# Connect 1st node to network id 1234 port 11111

The screenshot displays the connection of the first node to the network id 1234 port 11111. The terminal output shows the node's status, including the chain ID, consensus engine, and the network ID. The node is successfully connected to the network.

# Create account[0] on 1st node with 0 initial balance

```

C:\Windows\System32\cmd.exe - geth --datadir "firstBC" --networkid 1234 --port 11111 --allow-insecure-unlock --nodiscover --ipcdisable console
INFO [11-15]15:38:46.129] Served eth_coinbase reqid=3 duration=0s err= etherbase must be explicitly specified
Welcome to the Geth Javascript console!

instance: Geth/v1.10.25-stable-69568c55/windows-amd64/go1.18.5
at block: 0 (Thu Jan 01 1970 05:30:00 GMT+0530 (IST))
datadir: C:\node3\firstBC
modules: admin:1.0 debug:1.0 engine:1.0 eth:1.0 ethash:1.0 miner:1.0 net:1.0 personal:1.0 rpc:1.0 txpool:1.0 web3:1.0

To exit, press ctrl-d or type exit
> personal.newAccount("baburjun")
INFO [11-15]15:39:10.388] Your new key was generated address=0xc70de8df47be7f0a0c2290bd4d93404f3e84e8a2
WARN [11-15]15:39:19.388] Please backup your key file! path=C:\node3\firstBC\keystore\UTC--2022-11-15T10-09-17.145971700Z--c7d0e8df47be7f0a0c2290bd4d93404f3e84e8a2
WARN [11-15]15:39:19.350] Please remember your password!
> eth.accounts
["0xc7d0e8df47be7f0a0c2290bd4d93404f3e84e8a2"]
> eth.blockNumber
0
> eth.getBalance(eth.accounts[0])eth.getBalance(eth.accounts[0])
SyntaxError: SyntaxError: (anonymous): Line 1:32 Unexpected Identifier (and 1 more errors)
> eth.getBalance(eth.accounts[0])
-

```

# Start mining

```

C:\Windows\System32\cmd.exe - geth --datadir "firstBC" --networkid 1234 --port 11111 --allow-insecure-unlock --nodiscover --ipcdisable console
> miner.start()
INFO [11-15]15:41:54.773] Updated mining threads threads=8
INFO [11-15]15:41:54.776] Transaction pool price threshold updated price=1,000,000,000
INFO [11-15]15:41:54.778] Etherbase automatically configured address=0xc70de8df47be7f0a0c2290bd4d93404f3e84e8a2
null
> INFO [11-15]15:41:54.780] Commit new sealing work number=1 sealhash=521f55..e3147d uncles=0 txs=0 gas=0 fees=0 elapsed=0s
INFO [11-15]15:41:54.785] Commit new sealing work number=1 sealhash=521f55..e3147d uncles=0 txs=0 gas=0 fees=0 elapsed=4.117ms
> miner.stop(INFO [11-15]15:42:07.675] Commit new sealing work number=2 sealhash=896987..e0278f uncles=0 txs=0 gas=0 fees=0 elapsed=0s
> miner.st0 txs=0 gas=0 fees=0 elapsed=65.427ms
> miner.stop()
INFO [11-15]15:42:07.845] @ mined potential block number=1 hash=8a6bf2..487665
INFO [11-15]15:42:07.974] Successfully sealed new block number=2 sealhash=896987..e0278f hash=7a3dea..75caae elapsed=299.162ms
INFO [11-15]15:42:07.986] @ mined potential block number=2 hash=7a3dea..75caae
> min0 fees=0 elapsed=0s
INFO [11-15]15:42:08.021] Commit new sealing work number=3 sealhash=0822ec..42ec45 uncles=0 txs=0 gas=0 fees=0 elapsed=46.663ms
INFO [11-15]15:42:09.423] Successfully sealed new block number=3 sealhash=0822ec..42ec45 hash=3c1047..c622fa elapsed=1.448s
INFO [11-15]15:42:09.703] @ mined potential block number=3 hash=3c1047..c622fa
INFO [11-15]15:42:09.927] Commit new sealing work number=4 sealhash=67c941..cbfbfb uncles=0 txs=0 gas=0 fees=0 elapsed=0s
INFO [11-15]15:42:09.938] Commit new sealing work number=4 sealhash=67c941..cbfbfb uncles=0 txs=0 gas=0 fees=0 elapsed=503.797ms
INFO [11-15]15:42:09.933] @ mined potential block number=4 hash=f510ac..f3479a
INFO [11-15]15:42:09.981] Commit new sealing work number=5 sealhash=6f0fb1..9ae587 uncles=0 txs=0 gas=0 fees=0 elapsed=43.182ms
INFO [11-15]15:42:09.981] Successfully sealed new block number=5 sealhash=6f0fb1..9ae587 hash=c8b4ca..6db372 elapsed=43.183ms
INFO [11-15]15:42:09.986] Commit new sealing work number=5 sealhash=6f0fb1..9ae587 uncles=0 txs=0 gas=0 fees=0 elapsed=48.326ms
INFO [11-15]15:42:10.150] @ mined potential block number=5 hash=c8b4ca..6db372
INFO [11-15]15:42:10.150] Commit new sealing work number=6 sealhash=e40922..1b7460 uncles=0 txs=0 gas=0 fees=0 elapsed=157.610ms
INFO [11-15]15:42:10.166] Commit new sealing work number=6 sealhash=e40922..1b7460 uncles=0 txs=0 gas=0 fees=0 elapsed=173.237ms
INFO [11-15]15:42:11.225] Successfully sealed new block number=6 sealhash=e40922..1b7460 hash=401b2d..bc7b93 elapsed=1.232s
INFO [11-15]15:42:11.225] @ mined potential block number=6 hash=401b2d..bc7b93
INFO [11-15]15:42:11.379] Commit new sealing work number=7 sealhash=10decb..b39b9e uncles=0 txs=0 gas=0 fees=0 elapsed=161.447ms
INFO [11-15]15:42:11.381] Successfully sealed new block number=7 sealhash=10decb..b39b9e hash=b8b74b..1d4909 elapsed=161.964ms
INFO [11-15]15:42:11.743] @ mined potential block number=7 hash=b8b74b..1d4909
INFO [11-15]15:42:11.393] Commit new sealing work number=8 sealhash=42539e..a83aa0 uncles=0 txs=0 gas=0 fees=0 elapsed=0s
INFO [11-15]15:42:11.393] Successfully sealed new block number=8 sealhash=42539e..a83aa0 hash=90cdec..0859ce elapsed=701.186ms
INFO [11-15]15:42:12.094] Commit new sealing work number=8 sealhash=42539e..a83aa0 uncles=0 txs=0 gas=0 fees=0 elapsed=703.245ms
INFO [11-15]15:42:12.096] Successfully sealed new block number=1 hash=8a6bf2..487665
INFO [11-15]15:42:12.100] @ block reached canonical chain number=8 hash=90cdec..0859ce
INFO [11-15]15:42:12.160] @ mined potential block number=9 sealhash=2532fc..58c148 uncles=0 txs=0 gas=0 fees=0 elapsed=92.668ms
INFO [11-15]15:42:12.197] Commit new sealing work number=9 sealhash=2532fc..58c148 hash=ac122f..0d51cd elapsed=92.679ms
INFO [11-15]15:42:12.206] Successfully sealed new block number=9 sealhash=2532fc..58c148 uncles=0 txs=0 gas=0 fees=0 elapsed=101.716ms
INFO [11-15]15:42:12.211] @ block reached canonical chain number=2 hash=7a3dea..75caae
INFO [11-15]15:42:12.395] @ mined potential block number=9 hash=ac122f..0d51cd
INFO [11-15]15:42:12.545] Commit new sealing work number=10 sealhash=cbec97..339244 uncles=0 txs=0 gas=0 fees=0 elapsed=321.560ms
INFO [11-15]15:42:12.595] Commit new sealing work number=10 sealhash=cbec97..339244 uncles=0 txs=0 gas=0 fees=0 elapsed=370.974ms
> miner.INFO [11-15]15:42:13.585] Successfully sealed new block number=10 sealhash=cbec97..339244 hash=3c5bfe..2e4bb4 elapsed=1.360s
INFO [11-15]15:42:13.585] @ block reached canonical chain number=3 hash=3c1047..c622fa
INFO [11-15]15:42:13.611] Commit new sealing work number=11 sealhash=18b04b..7cbe37 uncles=0 txs=0 gas=0 fees=0 elapsed=26.403ms
INFO [11-15]15:42:13.625] @ mined potential block number=10 hash=3c5bfe..2e4bb4
INFO [11-15]15:42:13.665] Commit new sealing work number=11 sealhash=18b04b..7cbe37 uncles=0 txs=0 gas=0 fees=0 elapsed=80.492ms

```

## Check balance on account[0] after mining

```
C:\Windows\System32\cmd.exe - geth --datadir "firstBC" --networkid 1234 --port 11111 --allow-insecure-unlock --nodiscover --ipcdisable console
INFO [11-15:42:36.726] Successfully sealed new block
INFO [11-15:42:36.727]   block reached canonical chain
INFO [11-15:42:36.743]   Commit new sealing work
INFO [11-15:42:36.745]   mined potential block
INFO [11-15:42:36.793]   Commit new sealing work
INFO [11-15:42:37.142]   Successfully sealed new block
INFO [11-15:42:37.143]   block reached canonical chain
INFO [11-15:42:37.157]   Commit new sealing work
INFO [11-15:42:37.166]   mined potential block
INFO [11-15:42:37.217]   Commit new sealing work
INFO [11-15:42:37.217]   block reached canonical chain
INFO [11-15:42:37.894]   Successfully sealed new block
INFO [11-15:42:37.894]   block reached canonical chain
INFO [11-15:42:37.909]   Commit new sealing work
INFO [11-15:42:37.909]   mined potential block
INFO [11-15:42:37.915]   Commit new sealing work
INFO [11-15:42:37.915]   Successfully sealed new block
INFO [11-15:42:37.920]   block reached canonical chain
INFO [11-15:42:37.940]   Commit new sealing work
INFO [11-15:42:37.940]   mined potential block
INFO [11-15:42:38.021]   Commit new sealing work
INFO [11-15:42:38.181]   Successfully sealed new block
INFO [11-15:42:38.181]   block reached canonical chain
INFO [11-15:42:38.199]   mined potential block
INFO [11-15:42:38.199]   Commit new sealing work
INFO [11-15:42:38.205]   Successfully sealed new block
INFO [11-15:42:38.212]   Commit new sealing work
INFO [11-15:42:38.224]   block reached canonical chain
INFO [11-15:42:38.226]   mined potential block
INFO [11-15:42:38.226]   Commit new sealing work
INFO [11-15:42:38.221]   Commit new sealing work
INFO [11-15:42:38.413]   Successfully sealed new block
INFO [11-15:42:38.413]   block reached canonical chain
INFO [11-15:42:38.449]   Commit new sealing work
INFO [11-15:42:38.464]   mined potential block
INFO [11-15:42:38.478]   Commit new sealing work
INFO [11-15:42:38.481]   Successfully sealed new block
INFO [11-15:42:38.488]   block reached canonical chain
INFO [11-15:42:38.570]   Commit new sealing work
INFO [11-15:42:38.580]   mined potential block
INFO [11-15:42:38.597]   Commit new sealing work
INFO [11-15:42:39.587]   Successfully sealed new block
INFO [11-15:42:39.587]   block reached canonical chain
INFO [11-15:42:39.606]   Commit new sealing work
INFO [11-15:42:39.608]   mined potential block
INFO [11-15:42:39.697]   Commit new sealing work
null
> eth.getBalance(eth.accounts[0])
0x0000000000000000000000000000000000000000000000000000000000000000
```

## Create account[1] on 1st node & transfer 10 ETH from account[0] to account[1]

```
C:\Windows\System32\cmd.exe - geth --datadir "firstBC" --networkid 1234 --port 11111 --allow-insecure-unlock --nodiscover --ipcdisable console
INFO [11-15:42:38.021]   Commit new sealing work
INFO [11-15:42:38.181]   Successfully sealed new block
INFO [11-15:42:38.181]   block reached canonical chain
INFO [11-15:42:38.199]   mined potential block
INFO [11-15:42:38.199]   Commit new sealing work
INFO [11-15:42:38.205]   Successfully sealed new block
INFO [11-15:42:38.212]   Commit new sealing work
INFO [11-15:42:38.224]   block reached canonical chain
INFO [11-15:42:38.226]   mined potential block
INFO [11-15:42:38.226]   Commit new sealing work
INFO [11-15:42:38.303]   Commit new sealing work
INFO [11-15:42:38.321]   Commit new sealing work
INFO [11-15:42:38.413]   Successfully sealed new block
INFO [11-15:42:38.413]   block reached canonical chain
INFO [11-15:42:38.449]   Commit new sealing work
INFO [11-15:42:38.464]   mined potential block
INFO [11-15:42:38.478]   Commit new sealing work
INFO [11-15:42:38.488]   Successfully sealed new block
INFO [11-15:42:38.488]   block reached canonical chain
INFO [11-15:42:38.570]   Commit new sealing work
INFO [11-15:42:38.580]   mined potential block
INFO [11-15:42:38.597]   Commit new sealing work
INFO [11-15:42:39.587]   Successfully sealed new block
INFO [11-15:42:39.587]   block reached canonical chain
INFO [11-15:42:39.606]   Commit new sealing work
INFO [11-15:42:39.608]   mined potential block
INFO [11-15:42:39.697]   Commit new sealing work
null
> eth.getBalance(eth.accounts[0])
0x0000000000000000000000000000000000000000000000000000000000000000
> web3.fromWei(eth.getBalance(eth.accounts[0]))
0
> personal.newAccount("babununu")
INFO [11-15:46:50.300] Your new key was generated
WARN [11-15:46:50.304] Please backup your key file
WARN [11-15:46:50.307] Please remember your password!
0xb9fd18ccc317ba31274573260ca7f6ac0cfaf8
> eth.accounts
["0xc7d8bd4f7e7f0bc2290bd4d93404f3e84e8a2", "0xb9fd18ccc317ba31274573260ca7f6ac0cfaf8"]
> eth.getBalance(eth.accounts[1])
0x0000000000000000000000000000000000000000000000000000000000000000
> personal.unlockAccount(eth.accounts[0],
Unlock account 0xc7d8bd4f7e7f0bc2290bd4d93404f3e84e8a2
Passphrase:
true
> eth.sendTransaction({from:eth.accounts[0], to:eth.accounts[1], value: web3.toWei(10, "ether")})
INFO [11-15:48:06.930] Setting new local account
INFO [11-15:48:06.935] Submitted transaction
0xb9fd18ccc317ba31274573260ca7f6ac0cfaf8 value=10,000,000,000,000,000
0xb9fd18ccc317ba31274573260ca7f6ac0cfaf8
address=0xb9FD18CCc317ba31274573260cA7f6Ac0cfa8
path=C:\node3\firstBC\keystore\UTC--2022-11-15T10-16-47.870223700Z--b9fd18ccc317ba31274573260ca7f6ac0cfaf8
```

## Mine to transfer 10 ETH to account[1]

```
C:\Windows\System32\cmd.exe - geth --datadir "firstBC" --networkid 1234 --port 11111 --allow-insecure-unlock --nodiscover --ipcdisable console
INFO [11-15-15:49:38.891] Commit new sealing work      number=87 sealhash=98576f..81e8f0 uncles=0 txs=0 gas=0 fees=0 elapsed=121.321ms
> miner.startINFO [11-15-15:49:31.600] Successfully sealed new block      number=87 sealhash=98576f..81e8f0 hash=a04344..cf4903 elapsed=830.270ms
INFO [11-15-15:49:31.680]   block reached canonical chain      number=88 hash=9f7877..e8b06     txs=0 gas=0 fees=0 elapsed=39.554ms
INFO [11-15-15:49:31.691] Commit new sealing work      number=88 sealhash=c231e8..9ebabe uncles=0 txs=0 gas=0 fees=0 elapsed=108.978ms
INFO [11-15-15:49:31.641]   mined potential block      number=87 hash=a04344..cf4903     txs=0 gas=0 fees=0 elapsed=1.002s
INFO [11-15-15:49:31.709] Commit new sealing work      number=88 sealhash=c231e8..9ebabe uncles=0 txs=0 gas=0 fees=0 elapsed=222.647ms
> miner.stopINFO [11-15-15:49:32.603] Successfully sealed new block      number=88 sealhash=c231e8..9ebabe hash=603076..a17d37 elapsed=45.880ms
INFO [11-15-15:49:32.603]   block reached canonical chain      number=89 sealhash=4738a6..352e9f uncles=0 txs=0 gas=0 fees=0 elapsed=607.036ms
INFO [11-15-15:49:32.625] Commit new sealing work      number=89 sealhash=4738a6..352e9f uncles=0 txs=0 gas=0 fees=0 elapsed=13.602ms
INFO [11-15-15:49:32.633]   mined potential block      number=88 hash=603076..a17d37     txs=0 gas=0 fees=0 elapsed=43.767ms
INFO [11-15-15:49:32.648] Commit new sealing work      number=89 sealhash=4738a6..352e9f uncles=0 txs=0 gas=0 fees=0 elapsed=580.358ms
> miner.startINFO [11-15-15:49:33.210] Successfully sealed new block      number=89 sealhash=4738a6..352e9f hash=7af53f..38cab06 elapsed=284.913ms
INFO [11-15-15:49:33.223]   block reached canonical chain      number=82 hash=af6f44..46ab9c     txs=0 gas=0 fees=0 elapsed=104.565ms
INFO [11-15-15:49:33.223] Commit new sealing work      number=90 sealhash=805568..a600bc uncles=0 txs=0 gas=0 fees=0 elapsed=136.363ms
INFO [11-15-15:49:33.253]   mined potential block      number=89 hash=7af53f..38cab06     txs=0 gas=0 fees=0 elapsed=36.194ms
INFO [11-15-15:49:33.253] Commit new sealing work      number=90 sealhash=805568..a600bc uncles=0 txs=0 gas=0 fees=0 elapsed=122.047ms
INFO [11-15-15:49:33.291]   block reached canonical chain      number=83 hash=399f99..481077     txs=0 gas=0 fees=0 elapsed=51.141ms
INFO [11-15-15:49:33.291] Commit new sealing work      number=91 sealhash=4178f4..7d7195 uncles=0 txs=0 gas=0 fees=0 elapsed=91.967ms
INFO [11-15-15:49:33.816]   mined potential block      number=90 hash=d68b87..9d14f9     txs=0 gas=0 fees=0 elapsed=367.204ms
INFO [11-15-15:49:33.804] Commit new sealing work      number=91 sealhash=4178f4..7d7195 uncles=0 txs=0 gas=0 fees=0 elapsed=12.534ms
INFO [11-15-15:49:33.927] Successfully sealed new block      number=91 sealhash=4178f4..7d7195 hash=7e3b6f..1ae77f elapsed=85.368ms
INFO [11-15-15:49:33.930]   block reached canonical chain      number=84 hash=2c2a77..479631     txs=0 gas=0 fees=0 elapsed=1.784s
INFO [11-15-15:49:33.966] Commit new sealing work      number=92 sealhash=734d09..eecebfc uncles=0 txs=0 gas=0 fees=0 elapsed=48.352ms
INFO [11-15-15:49:33.972]   mined potential block      number=91 hash=7e3b6f..1ae77f     txs=0 gas=0 fees=0 elapsed=149.831ms
INFO [11-15-15:49:33.972] Commit new sealing work      number=92 sealhash=734d09..eecebfc uncles=0 txs=0 gas=0 fees=0 elapsed=12.534ms
INFO [11-15-15:49:34.652] Successfully sealed new block      number=93 sealhash=734d09..eecebfc hash=849780..492670 elapsed=81.967ms
INFO [11-15-15:49:35.684]   block reached canonical chain      number=85 hash=edcfcc..152669     txs=0 gas=0 fees=0 elapsed=1.784s
INFO [11-15-15:49:35.727] Commit new sealing work      number=93 sealhash=7e10b7..25215b uncles=0 txs=0 gas=0 fees=0 elapsed=48.352ms
INFO [11-15-15:49:35.734]   mined potential block      number=92 hash=849780..492670     txs=0 gas=0 fees=0 elapsed=149.831ms
INFO [11-15-15:49:36.051] Successfully sealed new block      number=93 sealhash=7e10b7..25215b hash=bcb3a7..017fed elapsed=12.534ms
INFO [11-15-15:49:36.052]   block reached canonical chain      number=86 hash=a851a1..9cf489     txs=0 gas=0 fees=0 elapsed=85.368ms
INFO [11-15-15:49:36.064] Commit new sealing work      number=94 sealhash=aad0ef..edd1ce uncles=0 txs=0 gas=0 fees=0 elapsed=1.784s
INFO [11-15-15:49:36.072]   mined potential block      number=93 sealhash=aad0ef..edd1ce uncles=0 txs=0 gas=0 fees=0 elapsed=48.352ms
INFO [11-15-15:49:36.361] Commit new sealing work      number=94 sealhash=aad0ef..edd1ce hash=54475d..61cedc elapsed=1.784s
INFO [11-15-15:49:37.836] Successfully sealed new block      number=87 hash=a04344..cf4903     txs=0 gas=0 fees=0 elapsed=48.352ms
INFO [11-15-15:49:37.836]   block reached canonical chain      number=95 sealhash=9d828e..649517 uncles=0 txs=0 gas=0 fees=0 elapsed=149.831ms
INFO [11-15-15:49:37.885] Commit new sealing work      number=95 sealhash=9d828e..649517 uncles=0 txs=0 gas=0 fees=0 elapsed=149.831ms
INFO [11-15-15:49:37.885]   mined potential block      number=94 hash=54475d..61cedc     txs=0 gas=0 fees=0 elapsed=149.831ms
INFO [11-15-15:49:37.986] Commit new sealing work      number=95 sealhash=9d828e..649517 uncles=0 txs=0 gas=0 fees=0 elapsed=149.831ms

null
> eth.getBalance(eth.accounts[0])
0
> eth.getBalance(eth.accounts[1])
0
> web3.fromWei(eth.getBalance(eth.accounts[1]))
0
```

## Extracting nodeInfo & enode for 1st node

```

C:\Windows\System32\cmd.exe - geth --datadir "firstBC" --networkid 1234 --port 11111 --allow-insecure-unlock --nodiscover --ipcdisable console
INFO [11-15:15:49:36.136] Commit new sealing work number=94 sealhash=aa40ef..edd1c1 uncles=0 txs=0 gas=0 fees=0 elapsed=85.368ms
INFO [11-15:15:49:37.836] Successfully sealed new block number=94 sealhash=aa40ef..edd1c1 hash=54475d..61eced elapsed=1.784s
INFO [11-15:15:49:37.836] @ block reached canonical chain number=87 hash=aa0434a..cf4903
INFO [11-15:15:49:39.885] Commit new sealing work number=95 sealhash=9d820e..649517 uncles=0 txs=0 gas=0 fees=0 elapsed=48.352ms
INFO [11-15:15:49:39.887] @ mined potential block number=94 hash=54475d..61eced
INFO [11-15:15:49:39.986] Commit new sealing work number=95 sealhash=9d820e..649517 uncles=0 txs=0 gas=0 fees=0 elapsed=149.831ms

null
> eth.getBalance(eth.accounts[0])
0x000000000000000000000000
> eth.getBalance(eth.accounts[1])
0x000000000000000000000000
> web3.fromWei(eth.getBalance(eth.accounts[1]))
0

admin.nodeInfo
{
  enode: "enode://27abebcfe3bb026d2637d92f7c763067d71d0b2af2b308f2e188fb2985afed5715a281ba8cc8c8d3be4f50b8faddb26de2f6cf4f2e83d250661d09d775@127.0.0.1:11111?discport=0",
  name: "1dQdWd2_vz_gz/1113k7p_fabGCMGdGai_cba_cN3kA_UtjIag_hKdMA_UmR=Ra1c9XEQuh1dJULZt2pqsKsUc-GATR6mYtgZVbuHfGJGNG8Raz2gmlkgm7BgmlwH8AAAGJcZVj-cDI1HsxoxQwpr68_ju7waZCY32598dJ0n1wBLKvKcPLh1PspahorZbm1DHW3CK2K",
  id: "1c1eb5386ff3cf9f30d95c75822cb9d39de190437cb661d9885d75a7f34e2aa",
  ip: "127.0.0.1",
  listenAddr: "1:1111",
  name: "geth/v1.10.25-stable-69568c55/windows-amd64/go1.18.5",
  ports: {
    discovery: 0,
    listener: 11111
  },
  protocols: {
    eth: {
      config: {
        chainId: 1441,
        eip1581ock: 0,
        eip150Hash: "0x0000000000000000000000000000000000000000000000000000000000000000",
        eip1581ock: 0,
        eip1581ock: 0,
        eip1581ock: 0,
        homesteadBlock: 0
      },
      difficulty: 12551482,
      genesis: "0x567e85b915bef1ad32e3dc7c54d0312fd9d116d3056784078eb10b9ede683dd4",
      head: "0x54475d80be7acdee16dde0b336dd7b40d2950bf4954addff4dc2419461eced",
      network: 1234
    },
    snap: {}
  }
}

admin.nodeInfo.enode
"enode://27abebcfe3bb026d2637d92f7c763067d71d0b2af2b308f2e188fb2985afed5715a281ba8cc8c8d3be4f50b8faddb26de2f6cf4f2e83d250661d09d775@127.0.0.1:11111?discport=0"
admin.peers
[]

```

# Connect 2nd node to network id 1234 port 11112

```
C:\Windows\System32\cmd.exe - geth --bootnodes "enode://7a7abebcf2bb926d82637d927c7c3067d71d0b2af2c3082e188fb29856ed5715a281ba8cc8d3bea4f50b8f9dbd26ede2f6c6f42e83d250661d69d775@127.0.0.1:11111?discport=0" --datadir "s...
--networkid 1234 --port 11112 --allow-insecure-unlock --nodiscover --ipcdisable --authrpc.port 8547 console
INFO [11-15:53:57.050] Maximum peer count ETH=50 (E=0 total=50)
INFO [11-15:53:57.054] Set global gas cap cap=50,000,000
INFO [11-15:53:57.060] Allocated trie memory caches cleanup=154.00MiB (dirty=255.00MiB)
INFO [11-15:53:57.060] Allocated cache and file handles database=C:\node4\secondBC\geth\chaindata cache=512.00MiB handler=8192
INFO [11-15:53:57.130] Opened ancient database database=C:\node4\secondBC\geth\chaindata\ancient\chain readonly=false
INFO [11-15:53:57.130] -----
INFO [11-15:53:57.143] Chain ID: 1441 (unknown)
INFO [11-15:53:57.144] Consensus: unknown
INFO [11-15:53:57.147] -----
INFO [11-15:53:57.148] Pre-Merge hard forks:
INFO [11-15:53:57.151] Homestead: 0 (https://github.com/ethereum/execution-specs/blob/master/network-upgrades/mainnet-upgrades/homestead.md)
INFO [11-15:53:57.156] Tangerine Whistle (EIP 150): 0 (https://github.com/ethereum/execution-specs/blob/master/network-upgrades/mainnet-upgrades/tangerine-whistle.md)
INFO [11-15:53:57.159] Spurious Dragon/1 (EIP 155): 0 (https://github.com/ethereum/execution-specs/blob/master/network-upgrades/mainnet-upgrades/spurious-dragon.md)
INFO [11-15:53:57.165] Spurious Dragon/2 (EIP 158): 0 (https://github.com/ethereum/execution-specs/blob/master/network-upgrades/mainnet-upgrades/spurious-dragon.md)
INFO [11-15:53:57.170] Byzantium: <nil> (https://github.com/ethereum/execution-specs/blob/master/network-upgrades/mainnet-upgrades/byzantium.md)
INFO [11-15:53:57.174] Constantinople: <nil> (https://github.com/ethereum/execution-specs/blob/master/network-upgrades/mainnet-upgrades/constantinople.md)
INFO [11-15:53:57.179] Petersburg: <nil> (https://github.com/ethereum/execution-specs/blob/master/network-upgrades/mainnet-upgrades/petersburg.md)
INFO [11-15:53:57.184] Istanbul: <nil> (https://github.com/ethereum/execution-specs/blob/master/network-upgrades/mainnet-upgrades/istanbul.md)
INFO [11-15:53:57.189] Berlin: <nil> (https://github.com/ethereum/execution-specs/blob/master/network-upgrades/mainnet-upgrades/berlin.md)
INFO [11-15:53:57.194] London: <nil> (https://github.com/ethereum/execution-specs/blob/master/network-upgrades/mainnet-upgrades/london.md)
INFO [11-15:53:57.198] The Merge is not yet available for this network!
INFO [11-15:53:57.200] Hard-fork specification: https://github.com/ethereum/execution-specs/blob/master/network-upgrades/mainnet-upgrades/paris.md
INFO [11-15:53:57.204] -----
INFO [11-15:53:57.210]
INFO [11-15:53:57.225] Disk storage enabled for ethash caches dir=C:\node4\secondBC\geth\ethash count=3
INFO [11-15:53:57.228] Disk storage enabled for ethash DAGs dir=C:\Users\mebul\AppData\Local\ethash count=2
INFO [11-15:53:57.230] Initialising Ethereum protocol network=1234 dbversion=<nil>
INFO [11-15:53:57.234] Loaded most recent local header number=0 hash=567e85...683dd4 td=1 age=53y7mo3w
INFO [11-15:53:57.237] Loaded most recent local full block number=0 hash=567e85...683dd4 td=1 age=53y7mo3w
INFO [11-15:53:57.241] Loaded most recent local fast block number=0 hash=567e85...683dd4 td=1 age=53y7mo3w
WARN [11-15:53:57.244] Failed to load snapshot, regenerating err="missing or corrupted snapshot"
INFO [11-15:53:57.247] Rebuilding state snapshot
INFO [11-15:53:57.248] Resuming state snapshot generation root=56e81f...63b421 accounts=0 slots=0 storage=0.008 dangling=0 elapsed=0s
INFO [11-15:53:57.250] Regenerated local transaction journal transaction=0 accounts=0
INFO [11-15:53:57.253] Generated state snapshot accounts=0 slots=0 storage=0.008 dangling=0 elapsed=4.629ms
INFO [11-15:53:57.257] Gasprice oracle is ignoring threshold set threshold=2
WARN [11-15:53:57.262] Error reading unclean shutdown markers error="leveldb: not found"
INFO [11-15:53:57.265] Engine API enabled protocol=eth
INFO [11-15:53:57.265] Engine API started but chain not configured for merge yet
INFO [11-15:53:57.268] Starting peer-to-peer node instance=Geth/v1.10.25-stable-69568c55/windows-amd64/go1.18.5
INFO [11-15:53:57.273] Generated JWT secret path=C:\node4\secondBC\geth\jwtsecret
INFO [11-15:53:57.283] WebSocket enabled url=ws://127.0.0.1:8547
INFO [11-15:53:57.283] New local node record seq=1,668,507,837,274 id=634cc205b2bc6f17 ip=127.0.0.1 udp=0 tcp=11112
INFO [11-15:53:57.283] HTTP server started endpoint=127.0.0.1:8547 auth=true prefix=core=localhost vhost=localhost
INFO [11-15:53:57.283] Started P2P networking self="enode://d7c6fe8b07e19b79757a8b3bffc0e9d94b763d8098ceb98883186b5678e6bc5f3840ac1ceb662f5ac0b85bad5c5db40a1aa03125b86c46719f2637a310f5d0127.0.0.1:11112?discport=0"
WARN [11-15:53:57.340] Served eth coinbase reqid=3 duration=0s err="etherebase must be explicitly specified"
Welcome to the Geth JavaScript console!

instance: Geth/v1.10.25-stable-69568c55/windows-amd64/go1.18.5
at block: 0 (Thu Jan 01 1970 05:30:00 GMT+0530 (IST))
datadir: C:\node4\secondBC
modules: admin:1.0 engine:1.0 eth:1.0 ethash:1.0 miner:1.0 net:1.0 personal:1.0 rpc:1.0 txpool:1.0 web3:1.0

To exit, press ctrl-d or type exit
> personal.newAccount("babunjunu")
INFO [11-15:53:57.287] Your new key was generated address=0xbA6c76e7a0025969AFBebb846d814AC12699C4db
WARN [11-15:53:57.287] Please backup your key file path=C:\node4\secondBC\keystore\UTC--2022-11-15T10-25-16-1559716002--0a6c76e7a0025969AFBebb846d814ac12699C4db
WARN [11-15:53:57.287] Please remember your password!
> admin.peers
[ ]
>
```

# Confirm 2nd node has 0 peers

```
C:\Windows\System32\cmd.exe - geth --bootnodes "enode://7a7abebcf2bb926d82637d927c7c3067d71d0b2af2c3082e188fb29856ed5715a281ba8cc8d3bea4f50b8f9dbd26ede2f6c6f42e83d250661d69d775@127.0.0.1:11111?discport=0" --datadir "s...
WARN [11-15:53:57.262] Error reading unclean shutdown markers error="leveldb: not found"
WARN [11-15:53:57.265] Engine API enabled protocol=eth
WARN [11-15:53:57.265] Engine API started but chain not configured for merge yet
INFO [11-15:53:57.268] Starting peer-to-peer node instance=Geth/v1.10.25-stable-69568c55/windows-amd64/go1.18.5
INFO [11-15:53:57.273] Generated JWT secret path=C:\node4\secondBC\geth\jwtsecret
INFO [11-15:53:57.283] WebSocket enabled url=ws://127.0.0.1:8547
INFO [11-15:53:57.283] New local node record seq=1,668,507,837,274 id=634cc205b2bc6f17 ip=127.0.0.1 udp=0 tcp=11112
INFO [11-15:53:57.283] HTTP server started endpoint=127.0.0.1:8547 auth=true prefix=core=localhost vhost=localhost
INFO [11-15:53:57.283] Started P2P networking self="enode://d7c6fe8b07e19b79757a8b3bffc0e9d94b763d8098ceb98883186b5678e6bc5f3840ac1ceb662f5ac0b85bad5c5db40a1aa03125b86c46719f2637a310f5d0127.0.0.1:11112?discport=0"
WARN [11-15:53:57.340] Served eth coinbase reqid=3 duration=0s err="etherebase must be explicitly specified"
Welcome to the Geth JavaScript console!

instance: Geth/v1.10.25-stable-69568c55/windows-amd64/go1.18.5
at block: 0 (Thu Jan 01 1970 05:30:00 GMT+0530 (IST))
datadir: C:\node4\secondBC
modules: admin:1.0 engine:1.0 eth:1.0 ethash:1.0 miner:1.0 net:1.0 personal:1.0 rpc:1.0 txpool:1.0 web3:1.0

To exit, press ctrl-d or type exit
> personal.newAccount("babunjunu")
INFO [11-15:53:57.287] Your new key was generated address=0xbA6c76e7a0025969AFBebb846d814AC12699C4db
WARN [11-15:53:57.287] Please backup your key file path=C:\node4\secondBC\keystore\UTC--2022-11-15T10-25-16-1559716002--0a6c76e7a0025969AFBebb846d814ac12699C4db
WARN [11-15:53:57.287] Please remember your password!
> admin.peers
[ ]
>
```



## Peer 1st node and 2nd node - View on 2nd node

```
CaWindows\System32\cmd.exe - geth --bootnodes "enode://27a6ebcf3bb926d82637d92f7c763067d71d0b2af2b308f2e188fb2985a6ed5715a281ba8cc8d3bea4f50b8faddb26ede2f6c6f4f2e83d250661d69d775@127.0.0.1:11111?discport=0" --datadir "%userprofile%\AppData\Local\Ethereum\geth\%profile%\data"
> admin.peers
[11-15]15:56:36.682] Looking for peers
[11-15]15:56:36.696] Block synchronisation started
INFO [11-15]15:56:36.709] State sync in progress
INFO [11-15]15:56:36.715] State sync in progress
INFO [11-15]15:56:36.718] State heal in progress
INFO [11-15]15:56:38.055] Imported new block headers
INFO [11-15]15:56:38.062] Downloader queue stats
INFO [11-15]15:56:38.065] Imported new block receipts
INFO [11-15]15:56:38.065] Imported new block receipts
INFO [11-15]15:56:38.073] Rebuilding state snapshot
INFO [11-15]15:56:38.073] Resuming state snapshot generation
INFO [11-15]15:56:38.073] Committed new head block
INFO [11-15]15:56:38.073] Generated state snapshot
INFO [11-15]15:56:38.125] Imported new chain segment
INFO [11-15]15:56:38.136] Imported new chain segment
INFO [11-15]15:56:39.133] Imported new block headers
INFO [11-15]15:56:39.742] Imported new chain segment
INFO [11-15]15:56:39.745] Snap sync complete, auto disabling
> admin.peers
[[{"caps": ["eth/66", "eth/67", "snap/1"],
  enode: "enode://27a6ebcf3bb926d82637d92f7c763067d71d0b2af2b308f2e188fb2985a6ed5715a281ba8cc8d3bea4f50b8faddb26ede2f6c6f4f2e83d250661d69d775@127.0.0.1:11111?discport=0",
  id: "1a6f3386f1f1c7f3a09c73822c8b40d9e190437c8661d983d75a7f34c24a",
  name: "Geth/v1.10.25-stable-69568c55/windows-amd64/go1.18.5",
  network: {
    inbound: false,
    localAddress: "127.0.0.1:57821",
    remoteAddress: "127.0.0.1:11111",
    static: true,
    trusted: false
  },
  protocols: {
    eth: {
      difficulty: 12551489,
      head: "0x54475d8d3e7accdee16dde6b3376dd7b402950bf4954addffddc2419461eced",
      version: 67
    },
    snap: {
      version: 1
    }
  }
}]
> INFO [11-15]15:57:11.696] Looking for peers peercount=1 tried=1 static=1
```

## Peer 1st node and 2nd node - View on 1st node

```
CaWindows\System32\cmd.exe - geth --datadir "firstBC" --networkid 1234 --port 11111 --allow-insecure-unlock --nodiscover --ipcdisable console
Instance: Geth/v1.10.25-stable-69568c55/windows-amd64/go1.18.5
coinbase: 0xc7d8e84f47bc7f8a0c2290db4d93404f3e84e8a2
at block: 94 (Tue Nov 15 2022 15:49:45 GMT+0530 (IST))
datadir: C:\node3\firstBC
modules: admin:1.0 debug:1.0 engine:1.0 eth:1.0 ethash:1.0 miner:1.0 net:1.0 personal:1.0 rpc:1.0 txpool:1.0 web3:1.0
To exit, press ctrl-d or type exit
> INFO [11-15]16:01:51.587] Looking for peers peercount=1 tried=0 static=0
> admin.peers
[[{"caps": ["eth/66", "eth/67", "snap/1"],
  enode: "enode://d7c6f8e807e19b79757a0b3bffc0e9d94b763d8098c8b9888186b5678e6bc5f3840ac1ebf602f5ac0b85bad5c5db40a1aa03125b86c46719f2637a310f50@127.0.0.1:57143",
  id: "634cc205b2bc6f175121f354821ac1c092546a308a3207f5f4bdd439281d2cbe",
  name: "Geth/v1.10.25-stable-69568c55/windows-amd64/go1.18.5",
  network: {
    inbound: true,
    localAddress: "127.0.0.1:11111",
    remoteAddress: "127.0.0.1:57143",
    static: false,
    trusted: false
  },
  protocols: {
    eth: {
      difficulty: 12551489,
      head: "0x54475d8d3e7accdee16dde6b3376dd7b402950bf4954addffddc2419461eced",
      version: 67
    },
    snap: {
      version: 1
    }
  }
}]
```

# Transfer 5 ETH from account[1] (1st node) to account[0] (2nd node)

```
C:\Windows\System32\cmd.exe - geth --datadir "firstBC" --networkid 1234 --port 11111 --allow-insecure-unlock --nodiscover --ipcdisable console

> eth.getBalance(eth.accounts[0])
0x0000000000000000000000000000000000000000000000000000000000000000
> eth.getBalance(eth.accounts[1])
0x0000000000000000000000000000000000000000000000000000000000000000
> personal.unlockAccount(eth.accounts[1])
Unlocked account 0xb9fda0ccc317ba31274573260ca7f6ac0cfaf8
Passphrase:
true
> eth.sendTransaction({from:eth.accounts[1], to:"0xb9fda0ccc317ba31274573260ca7f6ac0cfaf8", value: web3.fromWei(5, "ether")})
address=0xb9fda0ccc317ba31274573260ca7f6ac0cfaf8 hash=0x90b0b68f014659f6bc72c100eaa071a8cc82baf875b48d85ce8cdfdab5e81a from=0xb9fda0ccc317ba31274573260ca7f6ac0cfaf8 nonce=0 recipient=0x0a6c76e7a0025969af6ebb846d814ac12699c4db value=5,000,000,000,000,000 "0x90b0b68f014659f6bc72c100eaa071a8cc82baf875b48d85ce8cdfdab5e81a"
> miner.start()
INFO [11-15]16:09:41.157] Updated mining threads threads=8
INFO [11-15]16:09:41.157] Transaction pool price threshold updated price=1,000,000,000
null
INFO [11-15]16:09:41.157] Commit new sealing work number=95 sealhash=385796..61f12b uncles=0 txs=0 gas=0 fees=0 elapsed=0s
INFO [11-15]16:09:41.169] Commit new sealing work number=95 sealhash=8e4f5b..93c49e uncles=0 txs=0 gas=0 fees=0 elapsed=2.1e-05 elapsed=11.603ms
INFO [11-15]16:09:41.193] Successfully sealed new block number=95 sealhash=8e4f5b..93c49e hash=a18ede..3370f7 elapsed=424.395ms
INFO [11-15]16:09:41.199] @ mined potential block number=95 hash=a18ede..3370f7
INFO [11-15]16:09:41.199] Commit new sealing work number=96 sealhash=684a3d..7b4420 uncles=0 txs=0 gas=0 fees=0 elapsed="41.3µs"
INFO [11-15]16:09:41.199] Commit new sealing work number=96 sealhash=684a3d..7b4420 uncles=0 txs=0 gas=0 fees=0 elapsed=82.446ms
INFO [11-15]16:09:41.199] Successfully sealed new block number=96 sealhash=684a3d..7b4420 hash=d15ea3..0d7119 elapsed=393.310ms
INFO [11-15]16:09:41.198] @ mined potential block number=96 hash=d15ea3..0d7119
INFO [11-15]16:09:41.199] Commit new sealing work number=97 sealhash=3db8e0..333eaa uncles=0 txs=0 gas=0 fees=0 elapsed="31.2µs"
INFO [11-15]16:09:41.199] Commit new sealing work number=97 sealhash=3db8e0..333eaa uncles=0 txs=0 gas=0 fees=0 elapsed=54.635ms
INFO [11-15]16:09:41.199] Successfully sealed new block number=97 sealhash=3db8e0..333eaa hash=dee130..e5f6b3 elapsed=432.274ms
INFO [11-15]16:09:41.199] @ mined potential block number=97 hash=dee130..e5f6b3
INFO [11-15]16:09:41.199] Commit new sealing work number=98 sealhash=cdd21f..14000d uncles=0 txs=0 gas=0 fees=0 elapsed=0s
INFO [11-15]16:09:41.199] Commit new sealing work number=98 sealhash=cdd21f..14000d uncles=0 txs=0 gas=0 fees=0 elapsed=100.532ms
INFO [11-15]16:09:41.199] Successfully sealed new block number=98 sealhash=cdd21f..14000d hash=402862..4fb0fa elapsed=352.277ms
INFO [11-15]16:09:41.199] @ mined potential block number=98 hash=402862..4fb0fa
INFO [11-15]16:09:41.199] Commit new sealing work number=99 sealhash=3d5f5e..915a2a uncles=0 txs=0 gas=0 fees=0 elapsed=0s
INFO [11-15]16:09:41.199] Commit new sealing work number=99 sealhash=3d5f5e..915a2a uncles=0 txs=0 gas=0 fees=0 elapsed=71.431ms
INFO [11-15]16:09:41.199] Successfully sealed new block number=99 sealhash=3d5f5e..915a2a hash=bd0d5f..08d97d elapsed=88.828ms
INFO [11-15]16:09:41.199] @ mined potential block number=99 hash=bd0d5f..08d97d
INFO [11-15]16:09:41.199] Commit new sealing work number=100 sealhash=0aba65..efb988 uncles=0 txs=0 gas=0 fees=0 elapsed=0s
INFO [11-15]16:09:41.199] Commit new sealing work number=100 sealhash=0aba65..efb988 uncles=0 txs=0 gas=0 fees=0 elapsed=137.945ms
INFO [11-15]16:09:41.199] Successfully sealed new block number=100 sealhash=0aba65..efb988 hash=7eab46..047156 elapsed=679.156ms
INFO [11-15]16:09:41.199] @ mined potential block number=100 hash=7eab46..047156
INFO [11-15]16:09:41.199] Commit new sealing work number=101 sealhash=4fcb1c..4d9467 uncles=0 txs=0 gas=0 fees=0 elapsed=0s
INFO [11-15]16:09:41.199] Commit new sealing work number=101 sealhash=4fcb1c..4d9467 uncles=0 txs=0 gas=0 fees=0 elapsed=97.488ms
INFO [11-15]16:09:41.199] Successfully sealed new block number=101 sealhash=4fcb1c..4d9467 hash=bd36ec..017395 elapsed=284.376ms
INFO [11-15]16:09:41.199] @ mined potential block number=101 hash=bd36ec..017395
INFO [11-15]16:09:41.199] Commit new sealing work number=102 sealhash=12ac66..d32ddc uncles=0 txs=0 gas=0 fees=0 elapsed=0s
INFO [11-15]16:09:41.199] Commit new sealing work number=102 sealhash=12ac66..d32ddc uncles=0 txs=0 gas=0 fees=0 elapsed=121.738ms
INFO [11-15]16:09:41.199] Successfully sealed new block number=102 sealhash=12ac66..d32ddc hash=beddad..ac4d18 elapsed=448.946ms
```

## Check balance on account[0] for 2nd node

```
C:\Windows\System32\cmd.exe - geth --bootnodes "enode://27a6ebcfe3bb926d82637d927c763067d710b2a2b3082e188b29856ed5715a281b48c8c8d3bea4508bfaddb26ede26c64f2e83d250661d69d7f7@127.0.0.1:11111?discport=0" --datadir "s..."

head: 'C:\Windows\System32\cmd.exe - geth --bootnodes "enode://27a6ebcfe3bb926d82637d927c763067d710b2a2b3082e188b29856ed5715a281b48c8c8d3bea4508bfaddb26ede26c64f2e83d250661d69d7f7@127.0.0.1:11111?discport=0" --datadir "s..."':
version: 67
}
snap: {
  version: 1
}
}
INFO [11-15]16:09:41.629] Imported new chain segment blocks=1 txs=1 ngas=0.021 elapsed=24.263ms ngasps=0.865 number=95 hash=a18ede..3370f7 dirty=970.000
INFO [11-15]16:09:41.995] Imported new chain segment blocks=1 txs=0 ngas=0.000 elapsed=0s ngasps=NaN number=96 hash=d15ea3..0d7119 dirty=1.42KiB
INFO [11-15]16:09:42.477] Imported new chain segment blocks=1 txs=0 ngas=0.000 elapsed=11.647ms ngasps=0.000 number=97 hash=dee130..e5f6b3 dirty=1.90KiB
INFO [11-15]16:09:42.822] Imported new chain segment blocks=1 txs=0 ngas=0.000 elapsed=41.099ms ngasps=0.000 number=98 hash=402862..4fb0fa dirty=2.37KiB
INFO [11-15]16:09:43.881] Imported new chain segment blocks=1 txs=0 ngas=0.000 elapsed=12.398ms ngasps=0.000 number=99 hash=bd0d5f..08d97d dirty=2.85KiB
INFO [11-15]16:09:43.885] Imported new chain segment blocks=1 txs=0 ngas=0.000 elapsed=0s ngasps=NaN number=100 hash=7eab46..047156 dirty=3.32KiB
INFO [11-15]16:09:43.851] Imported new chain segment blocks=1 txs=0 ngas=0.000 elapsed=9.227ms ngasps=0.000 number=101 hash=bd36ec..017395 dirty=3.79KiB
INFO [11-15]16:09:44.309] Imported new chain segment blocks=1 txs=0 ngas=0.000 elapsed=12.465ms ngasps=0.000 number=102 hash=beddad..ac4d18 dirty=4.27KiB
INFO [11-15]16:09:44.521] Imported new chain segment blocks=1 txs=0 ngas=0.000 elapsed=14.480ms ngasps=0.000 number=103 hash=6439cb..05acd4 dirty=4.74KiB
INFO [11-15]16:09:44.559] Imported new chain segment blocks=1 txs=0 ngas=0.000 elapsed=5.808ms ngasps=0.000 number=104 hash=25f3d8..0a2b9a dirty=5.22KiB
INFO [11-15]16:09:44.836] Imported new chain segment blocks=1 txs=0 ngas=0.000 elapsed=0s ngasps=NaN number=105 hash=50d0dd..fd4130 dirty=5.69KiB
INFO [11-15]16:09:45.065] Imported new chain segment blocks=1 txs=0 ngas=0.000 elapsed=10.526ms ngasps=0.000 number=106 hash=5b75f1..f8d040 dirty=6.17KiB
INFO [11-15]16:09:45.591] Imported new chain segment blocks=1 txs=0 ngas=0.000 elapsed=0s ngasps=NaN number=107 hash=a76e58..d957e6 dirty=6.64KiB
INFO [11-15]16:09:45.807] Imported new chain segment blocks=1 txs=0 ngas=0.000 elapsed=2.033ms ngasps=0.000 number=108 hash=29c251..9af6f8 dirty=7.12KiB
INFO [11-15]16:09:45.926] Imported new chain segment blocks=1 txs=0 ngas=0.000 elapsed=6.276ms ngasps=0.000 number=109 hash=a5f606..77c978 dirty=7.59KiB
INFO [11-15]16:09:45.984] Imported new chain segment blocks=1 txs=0 ngas=0.000 elapsed=1.771ms ngasps=0.000 number=110 hash=a349d1..f676c0 dirty=8.07KiB
INFO [11-15]16:09:46.270] Imported new chain segment blocks=1 txs=0 ngas=0.000 elapsed=19.889ms ngasps=0.000 number=111 hash=c2ec8c..8a0f05 dirty=8.54KiB
INFO [11-15]16:09:46.640] Imported new chain segment blocks=1 txs=0 ngas=0.000 elapsed=10.107ms ngasps=0.000 number=112 hash=fe59f5..49fc19 dirty=9.02KiB
INFO [11-15]16:09:46.823] Imported new chain segment blocks=1 txs=0 ngas=0.000 elapsed=11.061ms ngasps=0.000 number=113 hash=97349a..2ba9f5 dirty=9.49KiB
INFO [11-15]16:09:46.952] Imported new chain segment blocks=1 txs=0 ngas=0.000 elapsed=8.096ms ngasps=0.000 number=114 hash=4663ac..e47770 dirty=9.96KiB
INFO [11-15]16:09:46.993] Imported new chain segment blocks=1 txs=0 ngas=0.000 elapsed=8.193ms ngasps=0.000 number=115 hash=2a7347..c8381b dirty=10.44KiB
INFO [11-15]16:09:47.576] Imported new chain segment blocks=1 txs=0 ngas=0.000 elapsed=0s ngasps=NaN number=116 hash=f141ea..35814c dirty=10.91KiB
INFO [11-15]16:09:50.406] Block synchronisation started
INFO [11-15]16:09:50.512] Downloader queue stats
INFO [11-15]16:09:50.571] Imported new chain segment blocks=2 txs=0 ngas=0.000 elapsed=36.148ms ngasps=0.000 number=118 hash=4bd32f..549a44 dirty=11.86KiB
INFO [11-15]16:09:51.017] Imported new chain segment blocks=1 txs=0 ngas=0.000 elapsed=2.049ms ngasps=0.000 number=119 hash=837420..b3bb2d dirty=12.34KiB
INFO [11-15]16:09:51.268] Imported new chain segment blocks=1 txs=0 ngas=0.000 elapsed=8.084ms ngasps=0.000 number=120 hash=cb9524..2a3a47 dirty=12.81KiB
INFO [11-15]16:09:52.882] Imported new chain segment blocks=1 txs=0 ngas=0.000 elapsed=8.253ms ngasps=0.000 number=121 hash=cfb9a9..598a26 dirty=13.29KiB
> eth.getBalance(eth.accounts[0])
0x0000000000000000000000000000000000000000000000000000000000000000
> web3.fromWei(eth.getBalance(eth.accounts[0]))
0
```