$ ./geth --datadir node1 init amarnew.json

INFO [11-14|18:42:39.808] Maximum peer count ETH=50 LES=0 total=50

INFO [11-14|18:42:39.856] Allocated cache and file handles database="C:\\Program Files\\Blockchain Tools\\node1\\geth\\chaindata" cache=16.00MiB handles=16

INFO [11-14|18:42:40.009] Writing custom genesis block

INFO [11-14|18:42:40.022] Persisted trie from memory database nodes=355 size=50.69KiB time=2.0225ms gcnodes=0 gcsize=0.00B gctime=0s livenodes=1 livesize=0.00B

INFO [11-14|18:42:40.028] Successfully wrote genesis state database=chaindata hash=3604f0…57ce91

INFO [11-14|18:42:40.031] Allocated cache and file handles database="C:\\Program Files\\Blockchain Tools\\node1\\geth\\lightchaindata" cache=16.00MiB handles=16

INFO [11-14|18:42:40.083] Writing custom genesis block

INFO [11-14|18:42:40.090] Persisted trie from memory database nodes=355 size=50.69KiB time=1.026ms gcnodes=0 gcsize=0.00B gctime=0s livenodes=1 livesize=0.00B

INFO [11-14|18:42:40.097] Successfully wrote genesis state database=lightchaindata hash=3604f0…57ce91

amuni@Amar-Desktop-XPS MINGW64 /c/Program Files/Blockchain Tools

$ ./geth --datadir node1 --unlock "0x264081c7B7407376b4Fb46678Ac1D9Bb91cC0875" --mine --rpc --allow-insecure-unlock

INFO [11-14|18:43:06.354] Bumping default cache on mainnet provided=1024 updated=4096

WARN [11-14|18:43:06.358] Sanitizing cache to Go's GC limits provided=4096 updated=2666

INFO [11-14|18:43:06.362] Maximum peer count ETH=50 LES=0 total=50

INFO [11-14|18:43:06.411] Starting peer-to-peer node instance=Geth/v1.9.7-stable-a718daa6/windows-amd64/go1.13.4

INFO [11-14|18:43:06.416] Allocated trie memory caches clean=666.00MiB dirty=666.00MiB

INFO [11-14|18:43:06.419] Allocated cache and file handles database="C:\\Program Files\\Blockchain Tools\\node1\\geth\\chaindata" cache=1.30GiB handles=8192

INFO [11-14|18:43:06.773] Opened ancient database database="C:\\Program Files\\Blockchain Tools\\node1\\geth\\chaindata\\ancient"

INFO [11-14|18:43:06.780] Initialised chain configuration config="{ChainID: 507 Homestead: 0 DAO: <nil> DAOSupport: false EIP150: 0 EIP155: 0 EIP158: 0 Byzantium: 0 Constantinople: 0 Petersburg: 0 Istanbul: 0 Engine: clique}"

INFO [11-14|18:43:06.786] Initialising Ethereum protocol versions="[64 63]" network=1 dbversion=<nil>

WARN [11-14|18:43:06.790] Upgrade blockchain database version from=<nil> to=7

INFO [11-14|18:43:06.933] Loaded most recent local header number=0 hash=3604f0…57ce91 td=1 age=1m30s

INFO [11-14|18:43:06.937] Loaded most recent local full block number=0 hash=3604f0…57ce91 td=1 age=1m30s

INFO [11-14|18:43:06.940] Loaded most recent local fast block number=0 hash=3604f0…57ce91 td=1 age=1m30s

INFO [11-14|18:43:06.945] Regenerated local transaction journal transactions=0 accounts=0

INFO [11-14|18:43:06.965] Allocated fast sync bloom size=1.30GiB

INFO [11-14|18:43:06.969] Stored checkpoint snapshot to disk number=0 hash=3604f0…57ce91

INFO [11-14|18:43:06.971] Initialized fast sync bloom items=355 errorrate=0.000 elapsed=2.964ms

INFO [11-14|18:43:07.017] New local node record seq=1 id=82b79b8909f27e0d ip=127.0.0.1 udp=30303 tcp=30303

INFO [11-14|18:43:07.026] Started P2P networking self=enode://3860ddd02d8b4d4011686b7c5bbdf08aff1dc2b506ac0023fbbed50d5c7e51a2bca288b1f26198ac934fa0d2123202de66555c704db6937b23f305ff6f0ca6ea@127.0.0.1:30303

INFO [11-14|18:43:07.026] IPC endpoint opened url=\\\\.\\pipe\\geth.ipc

INFO [11-14|18:43:07.038] HTTP endpoint opened url=http://127.0.0.1:8545 cors= vhosts=localhost

Unlocking account 0x264081c7B7407376b4Fb46678Ac1D9Bb91cC0875 | Attempt 1/3

Password:

INFO [11-14|18:43:09.389] New local node record seq=2 id=82b79b8909f27e0d ip=65.95.143.205 udp=30303 tcp=30303

INFO [11-14|18:43:09.550] Unlocked account address=0x264081c7B7407376b4Fb46678Ac1D9Bb91cC0875

INFO [11-14|18:43:09.553] Transaction pool price threshold updated price=1000000000

INFO [11-14|18:43:09.555] Transaction pool price threshold updated price=1000000000

INFO [11-14|18:43:09.558] Etherbase automatically configured address=0x264081c7B7407376b4Fb46678Ac1D9Bb91cC0875

INFO [11-14|18:43:09.562] Commit new mining work number=1 sealhash=4ed00a…c877e2 uncles=0 txs=0 gas=0 fees=0 elapsed=0s

WARN [11-14|18:43:09.562] Block sealing failed err="unauthorized signer"

INFO [11-14|18:44:30.245] Got interrupt, shutting down...

INFO [11-14|18:44:30.250] HTTP endpoint closed url=http://127.0.0.1:8545

INFO [11-14|18:44:30.252] IPC endpoint closed url=\\\\.\\pipe\\geth.ipc

INFO [11-14|18:44:30.255] Blockchain manager stopped

INFO [11-14|18:44:30.256] Stopping Ethereum protocol

INFO [11-14|18:44:30.258] Ethereum protocol stopped

INFO [11-14|18:44:30.259] Transaction pool stopped

amuni@Amar-Desktop-XPS MINGW64 /c/Program Files/Blockchain Tools

$ ./geth --datadir node1 account new

INFO [11-14|18:45:26.948] 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: 0x2222C2EF61816F5D61c74f429E20c4dFF6a474b3

Path of the secret key file: node1\keystore\UTC--2020-11-14T23-45-30.643815700Z--2222c2ef61816f5d61c74f429e20c4dff6a474b3

- 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!

amuni@Amar-Desktop-XPS MINGW64 /c/Program Files/Blockchain Tools

$ ./geth --datadir node2 account new

INFO [11-14|18:45:55.536] 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: 0xD3C2FcF719CbC908f71a04155Cb704B66255A4A6

Path of the secret key file: node2\keystore\UTC--2020-11-14T23-45-59.188247300Z--d3c2fcf719cbc908f71a04155cb704b66255a4a6

- 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!

amuni@Amar-Desktop-XPS MINGW64 /c/Program Files/Blockchain Tools

$ ./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)

> rama

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

[32mINFO [0m[11-14|18:46:24.004] Administering Ethereum network [32mname[0m=rama

[33mWARN [0m[11-14|18:46:24.005] No previous configurations found [33mpath[0m=C:\\Users\\amuni\\.puppeth\\rama

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)

> 0x2222C2EF61816F5D61c74f429E20c4dFF6a474b3

> 0xD3C2FcF719CbC908f71a04155Cb704B66255A4A6

> 0x

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

> 0x2222C2EF61816F5D61c74f429E20c4dFF6a474b3

> 0xD3C2FcF719CbC908f71a04155Cb704B66255A4A6

> 0x

Should the precompile-addresses (0x1 .. 0xff) be pre-funded with 1 wei? (advisable yes)

>

Specify your chain/network ID if you want an explicit one (default = random)

> 1000

[32mINFO [0m[11-14|18:47:38.067] 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 rama.json, rama-aleth.json, rama-harmony.json, rama-parity.json

>

[32mINFO [0m[11-14|18:48:00.628] Saved native genesis chain spec [32mpath[0m=rama.json

[31mERROR[0m[11-14|18:48:00.628] Failed to create Aleth chain spec [31merr[0m="unsupported consensus engine"

[31mERROR[0m[11-14|18:48:00.629] Failed to create Parity chain spec [31merr[0m="unsupported consensus engine"

[32mINFO [0m[11-14|18:48:00.632] Saved genesis chain spec [32mclient[0m=harmony [32mpath[0m=rama-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

> [35mCRIT [0m[11-14|18:48:02.643] Failed to read user input [35merr[0m=EOF

amuni@Amar-Desktop-XPS MINGW64 /c/Program Files/Blockchain Tools

$ ./geth --datadir node1 init rama.json

INFO [11-14|18:48:42.881] Maximum peer count ETH=50 LES=0 total=50

INFO [11-14|18:48:42.935] Allocated cache and file handles database="C:\\Program Files\\Blockchain Tools\\node1\\geth\\chaindata" cache=16.00MiB handles=16

INFO [11-14|18:48:43.007] Writing custom genesis block

INFO [11-14|18:48:43.015] Persisted trie from memory database nodes=356 size=50.89KiB time=2.0229ms gcnodes=0 gcsize=0.00B gctime=0s livenodes=1 livesize=0.00B

INFO [11-14|18:48:43.021] Successfully wrote genesis state database=chaindata hash=0426ad…589af9

INFO [11-14|18:48:43.024] Allocated cache and file handles database="C:\\Program Files\\Blockchain Tools\\node1\\geth\\lightchaindata" cache=16.00MiB handles=16

INFO [11-14|18:48:43.065] Writing custom genesis block

INFO [11-14|18:48:43.071] Persisted trie from memory database nodes=356 size=50.89KiB time=970µs gcnodes=0 gcsize=0.00B gctime=0s livenodes=1 livesize=0.00B

INFO [11-14|18:48:43.077] Successfully wrote genesis state database=lightchaindata hash=0426ad…589af9

amuni@Amar-Desktop-XPS MINGW64 /c/Program Files/Blockchain Tools

$ ./geth --datadir node2 init rama.json

INFO [11-14|18:50:08.063] Maximum peer count ETH=50 LES=0 total=50

INFO [11-14|18:50:08.111] Allocated cache and file handles database="C:\\Program Files\\Blockchain Tools\\node2\\geth\\chaindata" cache=16.00MiB handles=16

INFO [11-14|18:50:08.176] Writing custom genesis block

INFO [11-14|18:50:08.183] Persisted trie from memory database nodes=356 size=50.89KiB time=998.3µs gcnodes=0 gcsize=0.00B gctime=0s livenodes=1 livesize=0.00B

INFO [11-14|18:50:08.188] Successfully wrote genesis state database=chaindata hash=0426ad…589af9

INFO [11-14|18:50:08.191] Allocated cache and file handles database="C:\\Program Files\\Blockchain Tools\\node2\\geth\\lightchaindata" cache=16.00MiB handles=16

INFO [11-14|18:50:08.225] Writing custom genesis block

INFO [11-14|18:50:08.232] Persisted trie from memory database nodes=356 size=50.89KiB time=1.9947ms gcnodes=0 gcsize=0.00B gctime=0s livenodes=1 livesize=0.00B

INFO [11-14|18:50:08.238] Successfully wrote genesis state database=lightchaindata hash=0426ad…589af9

amuni@Amar-Desktop-XPS MINGW64 /c/Program Files/Blockchain Tools

$ ./geth --datadir node1 --unlock "0x2222C2EF61816F5D61c74f429E20c4dFF6a474b3" --mine --rpc --allow-insecure-unlock

INFO [11-14|18:50:36.176] Bumping default cache on mainnet provided=1024 updated=4096

WARN [11-14|18:50:36.179] Sanitizing cache to Go's GC limits provided=4096 updated=2666

INFO [11-14|18:50:36.183] Maximum peer count ETH=50 LES=0 total=50

INFO [11-14|18:50:36.232] Starting peer-to-peer node instance=Geth/v1.9.7-stable-a718daa6/windows-amd64/go1.13.4

INFO [11-14|18:50:36.237] Allocated trie memory caches clean=666.00MiB dirty=666.00MiB

INFO [11-14|18:50:36.239] Allocated cache and file handles database="C:\\Program Files\\Blockchain Tools\\node1\\geth\\chaindata" cache=1.30GiB handles=8192

INFO [11-14|18:50:36.865] Opened ancient database database="C:\\Program Files\\Blockchain Tools\\node1\\geth\\chaindata\\ancient"

INFO [11-14|18:50:36.871] Initialised chain configuration config="{ChainID: 1000 Homestead: 0 DAO: <nil> DAOSupport: false EIP150: 0 EIP155: 0 EIP158: 0 Byzantium: 0 Constantinople: 0 Petersburg: 0 Istanbul: 0 Engine: clique}"

INFO [11-14|18:50:36.877] Initialising Ethereum protocol versions="[64 63]" network=1 dbversion=<nil>

WARN [11-14|18:50:36.881] Upgrade blockchain database version from=<nil> to=7

INFO [11-14|18:50:36.954] Loaded most recent local header number=0 hash=0426ad…589af9 td=1 age=4m8s

INFO [11-14|18:50:36.958] Loaded most recent local full block number=0 hash=0426ad…589af9 td=1 age=4m8s

INFO [11-14|18:50:36.960] Loaded most recent local fast block number=0 hash=0426ad…589af9 td=1 age=4m8s

INFO [11-14|18:50:36.965] Regenerated local transaction journal transactions=0 accounts=0

INFO [11-14|18:50:36.989] Allocated fast sync bloom size=1.30GiB

INFO [11-14|18:50:36.992] Stored checkpoint snapshot to disk number=0 hash=0426ad…589af9

INFO [11-14|18:50:36.994] Initialized fast sync bloom items=356 errorrate=0.000 elapsed=1.995ms

INFO [11-14|18:50:37.049] New local node record seq=1 id=5dfe741b0efddb40 ip=127.0.0.1 udp=30303 tcp=30303

INFO [11-14|18:50:37.067] Started P2P networking self=enode://6a07201e5be4d08ad7d36e85d02319cfd9b444e36a1e34d69ec549b491088097e5a78faf5d14b44efa5292dbe517c5cf0e7ea96924886c9452f80e39a73d828f@127.0.0.1:30303

INFO [11-14|18:50:37.069] IPC endpoint opened url=\\\\.\\pipe\\geth.ipc

INFO [11-14|18:50:37.081] HTTP endpoint opened url=http://127.0.0.1:8545 cors= vhosts=localhost

Unlocking account 0x2222C2EF61816F5D61c74f429E20c4dFF6a474b3 | Attempt 1/3

Password: INFO [11-14|18:50:38.407] New local node record seq=2 id=5dfe741b0efddb40 ip=65.95.143.205 udp=30303 tcp=30303

INFO [11-14|18:50:39.767] Unlocked account address=0x2222C2EF61816F5D61c74f429E20c4dFF6a474b3

INFO [11-14|18:50:39.771] Transaction pool price threshold updated price=1000000000

INFO [11-14|18:50:39.773] Transaction pool price threshold updated price=1000000000

INFO [11-14|18:50:39.776] Etherbase automatically configured address=0x2222C2EF61816F5D61c74f429E20c4dFF6a474b3

INFO [11-14|18:50:39.781] Commit new mining work number=1 sealhash=1d16f0…9f9bc4 uncles=0 txs=0 gas=0 fees=0 elapsed=997.6µs

INFO [11-14|18:50:39.792] Successfully sealed new block number=1 sealhash=1d16f0…9f9bc4 hash=987ced…35d5f3 elapsed=11.000ms

INFO [11-14|18:50:39.797] 🔨 mined potential block number=1 hash=987ced…35d5f3

INFO [11-14|18:50:39.797] Signed recently, must wait for others

INFO [11-14|18:50:39.799] Commit new mining work number=2 sealhash=cd6390…fa900c uncles=0 txs=0 gas=0 fees=0 elapsed=1.994ms