

```
C:\Users\USER>
A cd Desktop\

C:\Users\USER\Desktop>
A mkdir demo

C:\Users\USER\Desktop>
A cd demo\

C:\Users\USER\Desktop\demo>
A ls

C:\Users\USER\Desktop\demo>
A ls
abigen.exe*  COPYING  puppeth.exe*
bootnode.exe*  evm.exe*  rlpdump.exe*
clef.exe*  geth.exe*  wnode.exe*

C:\Users\USER\Desktop\demo>
A geth --datadir ./node1 account new
INFO [12-17|22:19:59.118] 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: 0xa74378a6ff66e6808c5cc4a47234688db348f1
Path of the secret key file: node1\keystore\UTC--2021-12-17T19-21-03.616562400Z--a74378a6ff66e6808c5cc4a47234688db348f1

- 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!

C:\Users\USER\Desktop\demo>
A geth --datadir ./node2 account new
INFO [12-17|22:20:45.788] 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: 0xc4351df99322a048ef1f2dc3edf7ecc54b7bb2d8
Path of the secret key file: node2\keystore\UTC--2021-12-17T19-25-50.244237100Z--c4351df99322a048ef1f2dc3edf7ecc54b7bb2d8
```

```
C:\Users\USER\Desktop\demo>
A geth --datadir ./node3 account new
INFO [12-17|22:18:11.914] 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: 0xc8e87f904c4fa2c52fd70eb64a8224bc18a8f1b43
Path of the secret key file: node3\keystore\UTC--2021-12-17T19-58-17.435425100Z--c8e87f904c4fa2c52fd70eb64a8224bc18a8f1b43

- 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!

C:\Users\USER\Desktop\demo>
A ls -la
ls: cannot access '-': No such file or directory
ls: cannot access 'la': No such file or directory

C:\Users\USER\Desktop\demo>
A ls -la
total 332960
drwxr-xr-x 1 USER 197689 0 Bt 0h 1V 12:18  ./
drwxr-xr-x 1 USER 197689 0 Bt 0h 1V 12:18  ../
-rwxr-xr-x 1 USER 197689 46801985 12:18  abigen.exe*
-rwxr-xr-x 1 USER 197689 46398573 12:18  bootnode.exe*
-rwxr-xr-x 1 USER 197689 57882386 12:18  clef.exe*
-rwxr-xr-x 1 USER 197689 32397 12:18  COPYING
-rwxr-xr-x 1 USER 197689 45629064 12:18  evm.exe*
-rwxr-xr-x 1 USER 197689 45629064 12:18  geth.exe*
-rwxr-xr-x 1 USER 197689 45629064 12:18  puppeth.exe*
drwxr-xr-x 1 USER 197689 0 Bt 0h 1V 12:18  node1/
drwxr-xr-x 1 USER 197689 0 Bt 0h 1V 12:18  node2/
drwxr-xr-x 1 USER 197689 0 Bt 0h 1V 12:18  node3/
-rwxr-xr-x 1 USER 197689 24737862 12:18  rlpdump.exe*
-rwxr-xr-x 1 USER 197689 3617792 12:18  wnode.exe*
-rwxr-xr-x 1 USER 197689 50127175 12:18  wnode.exe*
```

```
C:\Users\USER\Desktop\demo>
A ls
abigen.exe*  bootnode.exe*  clef.exe*  COPYING  evm.exe*  geth.exe*  node1/  node2/  node3/  puppeth.exe*  rlpdump.exe*  wnode.exe*

C:\Users\USER\Desktop\demo>
A dir
Volume in drive C is Windows
Volume Serial Number is 8693-9EF6

Directory of C:\Users\USER\Desktop\demo

12/17/2021 10:58 PM <DIR> .
12/17/2021 10:58 PM <DIR> ..
11/07/2019 08:25 AM 46,801,985 abigen.exe
11/07/2019 08:25 AM 46,398,573 bootnode.exe
11/07/2019 08:25 AM 57,882,386 clef.exe
11/07/2019 08:21 AM 32,397 COPYING
11/07/2019 08:26 AM 45,629,064 evm.exe
11/07/2019 08:26 AM 45,629,064 geth.exe
12/17/2021 18:21 PM <DIR> node1
12/17/2021 10:25 PM <DIR> node2
12/17/2021 10:58 PM <DIR> node3
11/07/2019 08:24 AM 24,737,862 puppeth.exe
11/07/2019 08:25 AM 3,617,792 rlpdump.exe
11/07/2019 08:26 AM 50,127,175 wnode.exe
9 File(s) 340,915,487 bytes
5 Dir(s) 51,281,653,760 bytes free

C:\Users\USER\Desktop\demo>
A puppeth.exe
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 user can dial in to remote servers, and build 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)
> xoxo

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

INFO [12-17|23:04:13.076] Administering Ethereum network name=xoxo
```

```
Cmder

| without the hassle that it would normally entail. |
| Puppet 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)
> xoxo

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

INFO [12-17|23:04:13.076] Administering ethereum network name=xoxo
WARN [12-17|23:04:13.258] No previous configurations found path=C:\Users\USER\puppeth\xoxo

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)
> 0xa74378a6ff66e008c5cc4a4723468db8c348f1
> 0xc4351df99322a043ef1f20c3edf7ec54b78b20f
> 0xc87f904c4f2c2fd70eb64a0224bc18a8f1b43
> 0x...

Which accounts should be pre-funded? (advisable at least one)
> 0x0380da2101ce959f60d099fe196eb871c86f
> 0xa74378a6ff66e008c5cc4a4723468db8c348f1
> 0xc4351df99322a043ef1f20c3edf7ec54b78b20f
> 0xc87f904c4f2c2fd70eb64a0224bc18a8f1b43
```

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Cmder

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)
> 1231

INFO [12-17|23:22:33.118] 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 xoxo.json, xoxo-ethash.json, xoxo-clique.json, xoxo-parity.json

INFO [12-17|23:24:23.786] Saved native genesis chain spec path=xoxo.json
ERROR [12-17|23:24:23.837] Failed to create Aleth chain spec err="unsupported consensus engine"
INFO [12-17|23:24:23.843] Saved genesis chain spec client=parity path=xoxo-parity.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
>

C:\Users\USER\Desktop\demo
A ls
abigen.exe* node2\
bootnode.exe* node1\
clef.exe* puppeth.exe*
COPYING* rlpump.exe*
evm.exe* unode.exe*
geth.exe* xoxo.json
node1\ xoxo-harmony.json

C:\Users\USER\Desktop\demo
A dir
Volume in drive C is Windows
Volume Serial Number is 0E03-9EF6

Directory of C:\Users\USER\Desktop\demo
```

```
Cmder

C:\Users\USER\Desktop\demo
A geth init --datadir node1 xoxo.json

INFO [12-17|23:30:56.174] Maximum peer count ETH=50 LEI=0 total=50
INFO [12-17|23:30:56.861] Allocated cache and file handles database=C:\Users\USER\Desktop\demo\node1\geth\chaindata cache=16.00MiB handles=16
INFO [12-17|23:30:57.183] Writing custom genesis block nodes=4 size=660.00B time=4.997ms gcnode=0 gcsize=0.00B gctime=0s livenodes=1 liversize=0.00B
INFO [12-17|23:30:57.355] Persisted trie from memory database database=chaindata hash=f953d6.dfc00b
INFO [12-17|23:30:57.404] Allocated cache and file handles database=C:\Users\USER\Desktop\demo\node1\geth\lightchaindata cache=16.00MiB handles=16
INFO [12-17|23:30:57.595] Writing custom genesis block nodes=4 size=660.00B time=39.7809ms gcnode=0 gcsize=0.00B gctime=0s livenodes=1 liversize=0.00B
INFO [12-17|23:30:57.645] Persisted trie from memory database database=lightchaindata hash=f953d6.dfc00b
INFO [12-17|23:30:57.679] Successfully wrote genesis state

C:\Users\USER\Desktop\demo
A dir node1
Volume in drive C is Windows
Volume Serial Number is 0E03-9EF6

Directory of C:\Users\USER\Desktop\demo\node1

12/17/2021 11:30 PM <DIR> .
12/17/2021 11:30 PM <DIR> ..
12/17/2021 11:30 PM <DIR> geth
12/17/2021 10:21 PM <DIR> keystore
0 File(s) 0 bytes
4 Dir(s) 51,324,661,760 bytes free

C:\Users\USER\Desktop\demo
A dir node1\geth\
Volume in drive C is Windows
Volume Serial Number is 0E03-9EF6

Directory of C:\Users\USER\Desktop\demo\node1\geth

12/17/2021 11:30 PM <DIR> .
12/17/2021 11:30 PM <DIR> ..
12/17/2021 11:30 PM <DIR> chaindata
12/17/2021 11:30 PM <DIR> lightchaindata
0 File(s) 0 bytes
4 Dir(s) 51,323,723,776 bytes free


C:\Users\USER\Desktop\demo
A geth init --datadir node2 xoxo.json

INFO [12-17|23:31:04.926] Maximum peer count ETH=50 LEI=0 total=50
INFO [12-17|23:31:04.148] Allocated cache and file handles database=C:\Users\USER\Desktop\demo\node2\geth\chaindata cache=16.00MiB handles=16
INFO [12-17|23:31:04.286] Writing custom genesis block nodes=4 size=660.00B time=29.902ms gcnode=0 gcsize=0.00B gctime=0s livenodes=1 liversize=0.00B
INFO [12-17|23:31:04.327] Persisted trie from memory database database=chaindata hash=f953d6.dfc00b
INFO [12-17|23:31:04.362] Successfully wrote genesis state database=C:\Users\USER\Desktop\demo\node2\geth\lightchaindata cache=16.00MiB handles=16
INFO [12-17|23:31:04.393] Allocated cache and file handles
```


```
C:\Users\USER\Desktop>cmd
A geth --datadir node --unlock "9743b8af6f6e00c5cc447234680bcb348f1" --mine --rpc --allow-insecure-unlock
WARN [12-17]21:40:38.583 Bumping default cache on mainnet
WARN [12-17]21:40:38.601 Sanitizing cache to go's GC limits
INFO [12-17]21:40:38.628 Maximum peer count
INFO [12-17]21:40:38.630 Starting peer-to-peer node
INFO [12-17]21:40:38.864 Allocated trie memory caches
INFO [12-17]21:40:38.923 Allocated cache and file handles
INFO [12-17]21:40:38.883 Opened ancient database
INFO [12-17]21:40:38.846 Initialised chain configuration
INFO [12-17]21:40:39.800 Initialising Ethereum protocol
WARN [12-17]21:40:39.930 Upgrade blockchain database version
INFO [12-17]21:40:40.319 Loaded most recent local header
INFO [12-17]21:40:40.345 Loaded most recent local full block
INFO [12-17]21:40:40.416 Loaded most recent local fast block
INFO [12-17]21:40:40.493 Regenerated local transaction journal
INFO [12-17]21:40:40.504 Allocated fast sync bloom
INFO [12-17]21:40:40.600 Initialized fast sync bloom
INFO [12-17]21:40:40.711 Stored checkpoint snapshot to disk
INFO [12-17]21:40:41.285 New local node record
INFO [12-17]21:40:41.381 Started P2P networking
INFO [12-17]21:40:41.590 IPC endpoint opened
INFO [12-17]21:40:41.632 HTTP endpoint opened
Unlocking account 9743b8af6f6e00c5cc447234680bcb348f1 | Attempt 1/3
Password: [REDACTED] [12-17]21:40:43.065 New local node record
INFO [12-17]21:41:57.295 Unlocked account
INFO [12-17]21:41:57.372 Transaction pool price threshold updated
INFO [12-17]21:41:57.387 Transaction pool price threshold updated
INFO [12-17]21:41:57.403 Etherscan automatically configured
INFO [12-17]21:41:57.403 Commit new mining work
INFO [12-17]21:41:58.123 Successfully sealed new block
INFO [12-17]21:41:58.195 mined potential block
INFO [12-17]21:41:58.232 Signed recently, must wait for others
INFO [12-17]21:41:58.278 Commit new mining work
INFO [12-17]21:40:40.514 Regenerated local transaction journal
WARN [12-17]21:40:40.514 New local node record
WARN [12-17]21:40:44.464 Fast syncing, discarded propagated block
WARN [12-17]21:40:44.464 Fast syncing, discarded propagated block
INFO [12-17]21:40:44.287 Setting new local account
INFO [12-17]21:42:47.482 Submitted transaction creation
INFO [12-17]21:42:47.482 Signed recently, must wait for others
INFO [12-17]21:40:40.616 Commit new mining work
INFO [12-17]21:32:30.421 Submitted transaction
INFO [12-17]21:32:30.421 Signed recently, must wait for others
INFO [12-17]21:32:33.096 Signed recently, must wait for others
INFO [12-17]21:40:40.514 Regenerated local transaction journal
```

```
C:\Users\USER\Desktop>cmd
A is
abigen.exe bootnode.exe clef.exe copylogs evm.exe geth.exe nodej/ node2/ node3/ pupeth.exe rlpdump.exe vmnode.exe xoxo.json xoxo-harmony.json
C:\Users\USER\Desktop>cmd
A geth --datadir /node2 --unlock "C4351d99322a048EF1f2Dc3eD7EC54b78B208" --ipcdisable --mine --port 30304 --bootnodes enode://4aab9dbba187d855c81d363f3591f7023f4e46335998ba228fa3c10415efa77bdd641600fd1bdf31ba94d8a9e5d9c6c32a60f10c3ba6473b24338e5d27.0.0.1:30303
WARN [12-18]01:14:24.206 Bumping default cache on mainnet
WARN [12-18]01:14:24.206 Sanitizing cache to go's GC limits
INFO [12-18]01:14:24.222 Maximum peer count
INFO [12-18]01:14:24.316 Starting peer-to-peer node
INFO [12-18]01:14:24.333 Allocated trie memory caches
INFO [12-18]01:14:24.349 Allocated cache and file handles
INFO [12-18]01:14:24.743 Opened ancient database
INFO [12-18]01:14:24.790 Initialised chain configuration
INFO [12-18]01:14:24.824 Initialising Ethereum protocol
WARN [12-18]01:14:24.840 Upgrade blockchain database version
INFO [12-18]01:14:25.051 Loaded most recent local header
INFO [12-18]01:14:25.065 Loaded most recent local full block
INFO [12-18]01:14:25.082 Loaded most recent local fast block
INFO [12-18]01:14:25.124 Regenerated local transaction journal
INFO [12-18]01:14:25.142 Allocated fast sync bloom
INFO [12-18]01:14:25.201 Initialized fast sync bloom
INFO [12-18]01:14:25.282 Stored checkpoint snapshot to disk
INFO [12-18]01:14:25.489 New local node record
Unlocking account C4351d99322a048EF1f2Dc3eD7EC54b78B208 | Attempt 1/3
Password: [REDACTED] [12-18]01:14:25.439 Started P2P networking
130904
INFO [12-18]01:14:28.095 New local node record
INFO [12-18]01:14:28.880 Unlocked account
INFO [12-18]01:14:28.937 Transaction pool price threshold updated
INFO [12-18]01:14:28.960 Transaction pool price threshold updated
INFO [12-18]01:14:29.500 Etherscan automatically configured
INFO [12-18]01:14:29.939 Commit new mining work
INFO [12-18]01:14:29.985 Successfully sealed new block
INFO [12-18]01:14:29.669 mined potential block
INFO [12-18]01:14:30.013 Signed recently, must wait for others
INFO [12-18]01:14:30.010 Commit new mining work
INFO [12-18]01:14:30.016 Commit new mining work
INFO [12-18]01:28:44.719 Signed recently, must wait for others
INFO [12-18]01:32:30.947 Commit new mining work
INFO [12-18]01:32:30.947 Signed recently, must wait for others
INFO [12-18]01:43:37.591 Commit new mining work
INFO [12-18]01:43:37.591 Signed recently, must wait for others
INFO [12-18]01:45:22.485 Signed recently, must wait for others
INFO [12-18]01:46:46.602 Commit new mining work
```

```
C:\Users\USER\Desktop>cmd
A geth --datadir /node3 --unlock "c5d7f904c4a2c52fd70e86448224bc1b88f1b43" --ipcdisable --mine --port 30305 --bootnodes enode://4aab9dbba187d855c81d363f3591f7023f4e46335998ba228fa3c10415efa77bdd641600fd1bdf31ba94d8a9e5d9c6c32a60f10c3ba6473b24338e5d27.0.0.1:30303
WARN [12-18]01:09:57.649 Bumping default cache on mainnet
WARN [12-18]01:09:57.650 Sanitizing cache to go's GC limits
INFO [12-18]01:09:57.684 Maximum peer count
INFO [12-18]01:09:57.779 Starting peer-to-peer node
INFO [12-18]09:57.798 Allocated trie memory caches
INFO [12-18]09:57.814 Allocated cache and file handles
INFO [12-18]09:58.193 Opened ancient database
INFO [12-18]09:58.221 Initialised chain configuration
INFO [12-18]09:58.257 Initialising Ethereum protocol
WARN [12-18]09:58.280 Upgrade blockchain database version
INFO [12-18]09:58.495 Loaded most recent local header
INFO [12-18]09:58.510 Loaded most recent local full block
INFO [12-18]09:58.536 Loaded most recent local fast block
INFO [12-18]09:58.555 Regenerated local transaction journal
INFO [12-18]09:58.602 Allocated fast sync bloom
INFO [12-18]09:58.616 Initialized fast sync bloom
INFO [12-18]09:58.617 Stored checkpoint snapshot to disk
INFO [12-18]09:58.718 New local node record
Unlocking account c5d7f904c4a2c52fd70e86448224bc1b88f1b43 | Attempt 1/3
Password: [REDACTED] [12-18]09:58.735 Started P2P networking
01:09:58.735
INFO [12-18]09:58.931 New local node record
INFO [12-18]01:10:03.301 Unlocked account
INFO [12-18]01:10:03.316 Transaction pool price threshold updated
INFO [12-18]01:10:03.327 Transaction pool price threshold updated
INFO [12-18]01:10:03.339 Etherscan automatically configured
INFO [12-18]01:10:03.358 Commit new mining work
INFO [12-18]01:10:03.360 Successfully sealed new block
INFO [12-18]01:10:03.494 mined potential block
INFO [12-18]01:10:03.407 Signed recently, must wait for others
INFO [12-18]01:10:03.423 Commit new mining work
WARN [12-18]01:14:30.016 Fast syncing, discarded propagated block
INFO [12-18]01:28:49.389 Signed recently, must wait for others
INFO [12-18]01:32:31.453 Commit new mining work
INFO [12-18]01:32:31.453 Signed recently, must wait for others
INFO [12-18]01:40:30.960 New local node record
INFO [12-18]01:43:30.026 Commit new mining work
INFO [12-18]01:43:30.026 Signed recently, must wait for others
INFO [12-18]01:45:21.897 Commit new mining work
INFO [12-18]01:45:21.898 Signed recently, must wait for others
INFO [12-18]01:46:44.177 Commit new mining work
INFO [12-18]01:46:44.178 Signed recently, must wait for others
INFO [12-18]09:58.576 Regenerated local transaction journal
INFO [12-18]01:10:02.342 New local node record
```

METAMASK

XOXO



Account 2  
0x03d...b866

Buy

Send

Swap

AssetsActivity

Queue (5)

Contract Deployment

Pending • remix.ethereum.org

Speed up

Cancel

-0 ETH  
-0 ETH

Send

Queued • To: 0xce8...1b43

Cancel

-23 ETH  
-23 ETH

904625697166532776746648320380374280103671755200316906558.2624 ETH