



```
Microsoft Windows [Version 10.0.19041.746]
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 :\Users\Administrator>set PATH=%PATH%;C:\user\bin\
C:\Users\Administrator>geth --datadir ,/node1 account new
INFO [12-15|23:27:12.666] 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.
assword:
Repeat password:
Your new key was generated
Public address of the key:  0xefcA50b3A6220bD84DEc44F05CDd86e9393c4B71
Path of the secret key file: node1\keystore\UTC--2021-12-15T20-27-14.407178800Z--efca50b3a6220bd84dec44f05cdd86e9393c4b71
  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!
 :\Users\Administrator>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 uses SSH to dial in to remote servers, and builds
   its network components out of Docker containers using the
   docker-compose toolset.
 lease specify a network name to administer (no spaces, hyphens or capital letters please)
 weet, you can set this via --network=poca next time!
 [32mINFO +[0m[12-15]23:28:02.354] Administering Ethereum network [33mWARN +[0m[12-15]23:28:02.355] No previous configurations found
                                                                                                                                 +[32mname+[0m=poca
+[33mpath+[0m=,puppeth\\poca
```

## Node1:

```
ø
Administrator, Command Promot - geth. --detectir node1 --unlock "QuefcASQb3A6220b0MDFc44F0SCDd36e993c4B71" --mine --mc --allow-insecure-unlock
     \Users\Administrator>geth --datadir nodel --unlock "8xefcA50b3A6220bD84DEc44F0SCDd86e9393c4871" --mine --rpc --allow-insecure-unlock
             [12-15|23:37:18.527] Bumping default cache on mainnet
[12-15|23:37:18.533] Sanitizing cache to Go's GC limits
                                                                                                                                                                                                       dmd-1824 updated-4896
ded-4896 updated-2938
           [12-15|23:37:18.538] Maximum peer count
[12-15|23:37:18.885] Starting peer-to-peer mode
[12-15|23:37:18.885] Allocated trie memory caches
[12-15|23:37:18.888] Allocated coche and file handles
[12-15|23:37:19.248] Opened ancient database
[12-15|23:37:19.254] Initialised chain configuration
8 Constantinople: 0 Petersburg: 0 Istanbul: 8 Engine: clique)
[12-15|23:37:19.266] Upgrade blockchain database version
[12-15|23:37:19.486] Loaded most recent local header
[12-15|23:37:19.486] Loaded most recent local fast block
[12-15|23:37:19.486] Loaded most recent local fast block
               12-15 23:37:18.538] Maximum peer count
                                                                                                                                                                                                                                     -5A
                                                                                                                                                                                                 -Geth/v1.9.7-stable-a718daa6/windows-amd64/go1.13.4
                                                                                                                                                                                          Clear#589.88MiB dlrty=589.88MiB
databuse=C:\\Users\\Administrator\\node1\\geth\\chaindata cuche=1819.88MiB humfles=8192
                                                                                                                                                                                               habser-C:\\User-S\\Administrator\\nodel\\guth\\chaindata\\ancient
nrig-"[ChainID: 1893 Homesteud: @ DAO: <nil> DADSupport: false EIPIS0: @ EIPISS: @ EIPIS0: @ EIPIS0:
                                                                                                                                                                                        enrion=="[64 63]" network=1 dburnlon=<nil>
from=<nil> to=7
                                                                                                                                                                                          mutter=8 lush=ea36ed_d26898 td=1 spe=9m8s
number=8 hash=ea36ed_d26898 td=1 spe=9m8s
number=8 hash=ea36ed_d26898 td=1 spe=9m8s
              12-15 23:37:19.411] Loaded most recent local fast black

[12-15 23:37:19.419] Regenerated local transaction journal

[12-15] 23:37:19.442] Allocated fast sync bloom

[12-15] 23:37:19.448] Initialized fast sync bloom

[12-15] 23:37:19.448] Stored checkpoint snapshot to disk
                                                                                                                                                                                                  -1018.00M18
                                                                                                                                                                                                                                  11-0.888 | 1 -1.888ms
             [12-15] 23:37:19,448] Stored checkpoint snap
[12-15] 23:37:19,507] New local node record
[12-15] 23:37:19.601] Started 020 networking
                                                                                                                                                                                                                         -ea36ed_d26898
                                                                                                                                                                                           url=\\\\.\\pipe\\geth.ipc
url=http://127.8.0.1:8545 coms= shusts=localhost
             xing account emercases/ac/20000406/449-05/0500993/48/1 | /

ord: INFO [12-15]23:37:21.605] New local node record

[12-16]03:08:38.587] Regenerated local transaction journal

[12-16]03:08:44.481] New local node record

[12-16]12:20:33.525] Regenerated local transaction journal
                                                                                                                                                                                              mm=2 |d=04cef6620b93ef20 |p=169,148,9.103 |mp=38303 |cp=38303 |
mp=3 |d=04cef6620b93ef20 |p=127.0.0.1 | |mp=38303 |cp=38303 |
                                                                                                                                                                                              -4 | -04c0f6620b93ef20 | D=168.149.88.155 UMD=30303 1(D=30303
                                                                                                                                                                                         [12-16 | 12:20:33.801] New local node record
[12-16 | 12:20:39.111] New local node record
              12-16 12:31:16.888] Setting new local account
[12-16 12:31:16.898] Submitted transaction
           5849A9824f6dDD577d7f3A6
[12-16]12:31:29.157] Submitted transaction
                                                                                                                                                                                          fullhant=8x55e487433d45b5d8f117363fbb6b3942bf95d8820f7c4c4ae7133c5377863863 rominiont=8xA1113C20fc75f
             112-16|12:37:29.157| Submitted transaction
889498924f6dD0577d75346
[12-16|12:37:14.689] Regenerated local transaction journal
[12-16|12:37:14.921] New local node record
[12-36|12:39:20.897] Setting new local account
[12-16|12:39:20.104] Submitted transaction
                                                                                                                                                                                          -0-7 id-04c0F6620093ef20 ig-127.0.0.1 id-30
-0x27d008239835054f3c652e36E3b4b7Ff59cd8908
                                                                                                                                                                                         fullnun-ex5F2F4761c9abf8371c846Fa48248b84bc838813479aa57F14458be899e3334fa recipient-ex3c8D68d1F2F3c
                658894122018861059
```

## Node2:

```
Windows [Version 10.0.19041.746]
) 2020 Microsoft Corporation. All rights reserved.
 \Users\Administrator>set PATH-%PATH%;C:\user\bin\
:\Users\Administrator>geth --datadir ./node2 --unlock "0x00544108c1c68bf632cf035Af1916e67eAcef402"--ipcdisable --mine --port 30304 --bootnodes enode://0118cecef509e90f7ad0f0f758ee861c39a271619552ad28f44a795121e2d7fc5ebc6c2ed505bd0334b7130114403906b66ac42efbdb1ff3de1d648df302b1b@127.0.0,1:30303
      [12-15|23:42:33.687] Humping default cache on mainnet
[12-15|23:42:33.691] Sanitizing cache to Go's GC limits
                                                                                                                                        provided-4096 up
                                                                                                                                                                          dated-2039
       [12-15]23:42:33.095] Maximum peer count

[12-15]23:42:33.771] Starting peer-to-peer node

[12-15]23:42:33.776] Allocated trie memory caches

[12-15]23:42:33.779] Allocated cache and file handles

[12-15]23:42:34.244] Opened ancient database
                                                                                                                                           1-50 Li -0 total-50
                                                                                                                                                      =Geth/v1.9.7-stable-a718daa6/windows-amd64/gol.13.4
                                                                                                                                              12-15 23:42:34.249] Initialised chain configuration
      [32-15]23:42:34,249] Initialised chain configuration
0 Constantinople: 0 Putersburg: 0 Istanbul: 0 Engine: clique)*
[32-15]23:42:34,257] Initialising Ethereum protocol
[32-15]23:42:34,251] Upgrade blockchain database version
[32-15]23:42:34,421] Loaded most recent local header
[32-15]23:42:34,421] Loaded most recent local full block
[32-15]23:42:34,427] Loaded most recent local fast block
[32-15]23:42:34,432] Regenerated local transaction journal
[32-15]23:42:34,438] Initialized fast sync bloom
[32-15]23:42:34,458] Initialized fast sync bloom
[32-15]23:42:34,458] New local node record
[32-15]23:42:34,587] New local node record
[32-15]23:42:34,680] Stored checkpoint snapshut to disk
[32-15]23:42:34,681] Started P20 networking
                                                                                                                                               sions="[64 63]" network=1 dbversion=<nil>
                                                                                                                                          mber=0 has ==ea36ed_d26890 td=1 agr=14m23s
                                                                                                                                                             number-8
                                                                                                                                                -8
                                                                                                                                               -1018.00MiB
                                                                                                                                                                      at c=0.000
                                                                                                                                                                                                    end-Bs
                                                                                                                                                mr=0 hunliwea36ed_d26890
                                                                                                                                         mg-1 |d-115f798fe2a13b52 |p-127.0.8.1 udp-30304 tcp-30304
     [12-15]23:42:34.587] New local node record
[12-15]23:42:34.687] Started P2P networking
ba41d3amDce3fe9ama51b10b879cf8b461d3@127.0.0.1:30304
[12-15]23:42:34.630] Blockchain manager stopped
[12-15]23:42:34.633] Stopping Ethereum protocol
[12-15]23:42:34.633] Transaction pool stopped
[12-15]23:42:34.643] Transaction pool stopped
[1: fror starting protocol stack: Access is denied.
                                                                                                                                         osif-enode://bic41h85265bd3fB1864b61a284bce33eeccac6ee189b7bdab44bfa627cfe52c791786c27e88fcbf7a3643f
 \Users\Administrator>
```

## Node3:

```
s\Administrator>geth --datadir ./node3 --unlock 0x8107A09Da94BF38ED12359CD824450c89bA4eCc4 --ipcdisable --mine --
                                                                                                                                                                                                                          ort 30305 --bootnodes enode://0118cecef5d9e90
ad0fbf758ee861c39a271619552ad28f44a795121e2d7fc5ebc6c2ed505bd0334b7130114403906b66ac42efbdb1ff3de1d546df302b1b@127.0.0.1:30303
       [12-15]08:03:41.091] Bumping default cache on mainnet
                                                                                                                       provided=1024 updated=4096
        [12-16|00:03:41.095] Sanitizing cache to Go's GC limits
[12-16|00:03:41.099] Maximum peer count
                                                                                                                        provided=4096 updated=2038
                                                                                                                        ETH=50 LES=0 total=50
        [12-16]00:03:41.371] Starting peer-to-peer node
[12-16]00:03:41.375] Allocated trie memory caches
                                                                                                                       instance=Geth/v1.9.7-stable-a718daa6/windows-amd64/go1.13.4
                                                                                                                        clear=509.00MiB dirty=509.00MiB
       [12-16]00:03:41.379] Allocated cache and file handles
[12-16]00:03:41.822] Opened ancient database
[12-16]00:03:41.834] Initialised chain configuration
                                                                                                                       database=C:\\Users\\Administrator\\node3\\geth\\chaindata cache=1019.80MiB handles=8192
                                                                                                                        database=C:\\Users\\Administrator\\node3\\geth\\chaindata\\ancient
                                                                                                                         config="{ChainID: 1093 Homestead: 0 DAO: <nil> DAOSupport: false EIP150: 0 EIP155: 0 EIP158: 0 Byzant
ium: 0 Constantinople: 0 Petersburg: 0 Istanbul: 0 Engine: clique)*
UNFO [12-16]00:03:41.854] Initialising Ethereum protocol
UNFO [12-16]00:03:41.866] Upgrade blockchain database version
UNFO [12-16]00:03:42.016] Loaded most recent local header
                                                                                                                         rersions="[64 63]" network=1 dbversion=<nil>
                                                                                                                       from=(nil) to=7
                                                                                                                       number=0 bash=ea36ed..d26890 td=1 age=35m31s
                                                                                                                       number=8 bash=ea36ed_d26890 td=1 age=35m31s
         12-16 00:03:42.020] Loaded most recent local full block
      [12-16]00:03:42.024] Loaded most recent local fast block

[12-16]00:03:42.024] Loaded most recent local fast block

[12-16]00:03:42.024] Regenerated local transaction journal

[12-16]00:03:42.074] Allocated fast sync bloom

[12-16]00:03:42.077] Initialized fast sync bloom

[12-16]00:03:42.078] Stored checkpoint snapshot to disk

[12-16]00:03:42.288] New local node record

[12-16]00:03:42.288] New local node record

[12-16]00:03:42.280] Unlocking account 0x007A09Da94BF38ED12350084450x09D4A0Cc4 | Attempt 1/3

[12-16]00:03:42.256] Unlocking account 0x007A09Da94BF38ED123500084450x09D4A0Cc4 | Attempt 1/3

[12-16]00:03:42.078] New local node record
                                                                                                                        number=0 hash=ea36ed_d26890 td=1 age=35m31s
                                                                                                                       items=4 enrormate=0.000 elapsed=0s
                                                                                                                        seg=1 id=e09e52a78d7b9b20 ip=127.0.0.1 udp=30305 tcp=30305
tarted PPassword: 2P networking
                                                                                           sel/=enode://85161ce50e178634995bba6e4271304755ffb85f097091c6604f38561fd3f149cbafa1673f8e79bec309e00fa58ee6f2b17053dc
02e0c09bcc65e544f42e5870@127.0.0.1:30305
       [12-16]03:08:39.387] Regenerated local transaction journal [12-16]12:20:33.931] Regenerated local transaction journal [12-16]12:20:48.327] New local node record [12-16]13:03:37.332] Regenerated local transaction journal [12-16]13:03:38.757] New local node record
                                                                                                                       transactions=0 accounts=0
                                                                                                                       transactions=8 accounts=8
                                                                                                                       sec=2 id=e09e52a78d7b9b20 io=168.149.88.155 odc=30305 tcc=30305
                                                                                                                       transactions=8 accounts=8
                                                                                                                       sec=3 id=e09e52a78d7b9b20 ip=127.0.0.1
                                                                                                                                                                                                     ode=30305 Tcp=30305
```