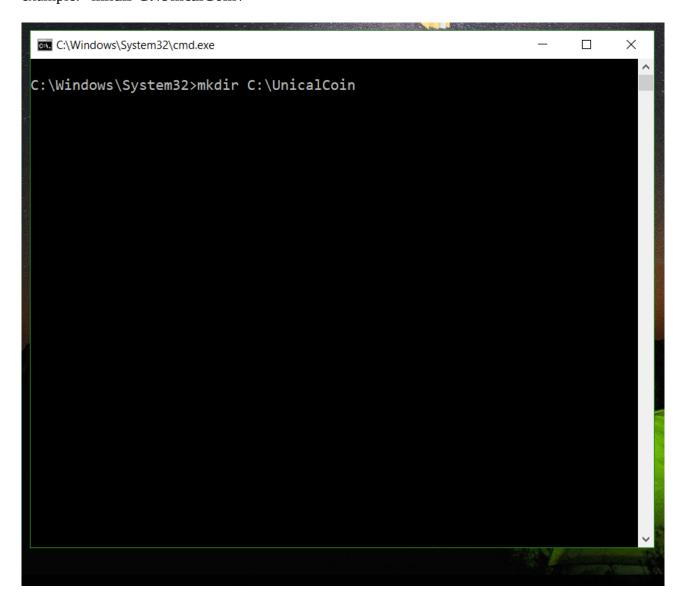
# How to connect to UnicalCoin

## How open terminal in windows:

- A) Click "Start" button;
- B) Digit in the search-bar "cmd"
- C) Press enter

## Step 1:

Create a new folder where will be stored all the files relatives to the blockchain, from nw we will refer to this folder whit the placeholder < BLOCKCHAIN\_DIR> example: "mkdir C:\UnicalCoin\"



Download the genesis.json from https://github.com/marcuzzu/eth\_private\_network and copy it in the folder < BLOCKCHAIN\_DIR>.

Example: "C:\UnicalCoin\"

## Step 3

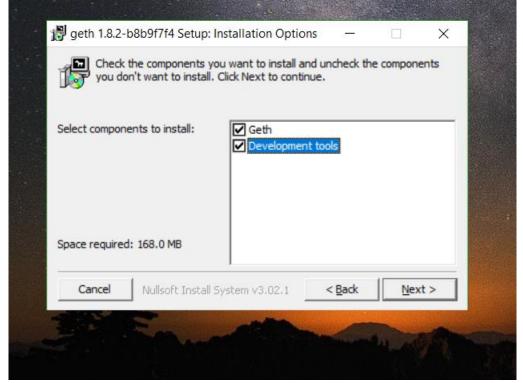
Download from the official site https://geth.ethereum.org/downloads/ the last version of Geth for your system, and install it. Windows default installation folder is : "C:\Program Files\Geth"

2)

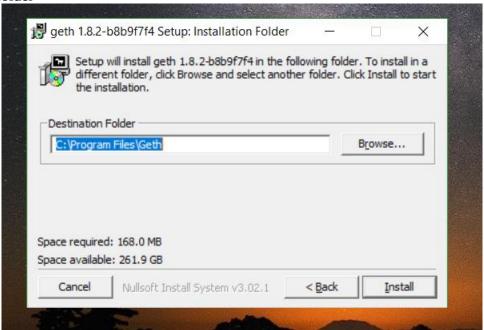
note of

1) check Development tools

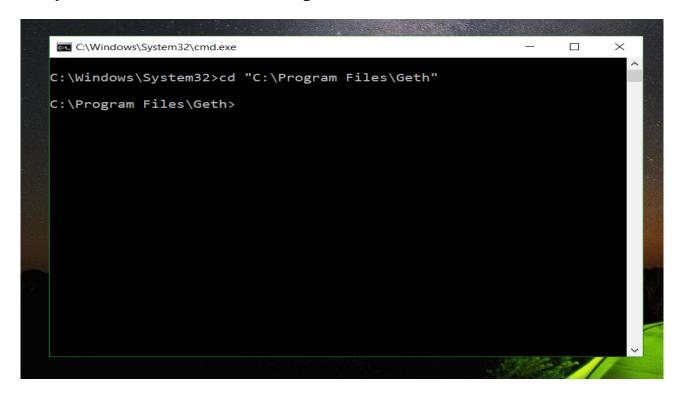
Take



installation folder



Open a terminal and navigate to the installation folder of "Geth" program: example: execute in a terminal "cd "C:\Program Files\Geth" "

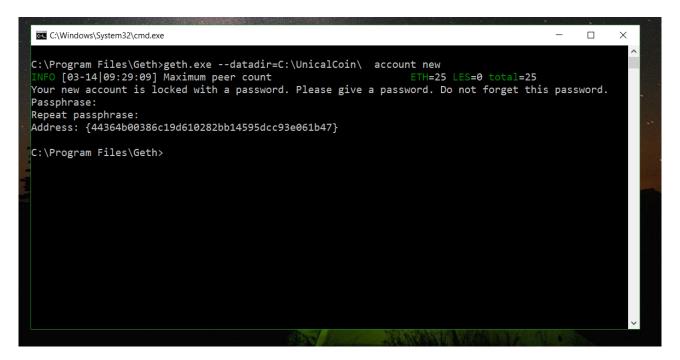


## Step 5

Now is time to create your account, so in the same terminal execute de following command: "geth.exe --datadir=<BLOCKCHAIN\_DIR> account new"

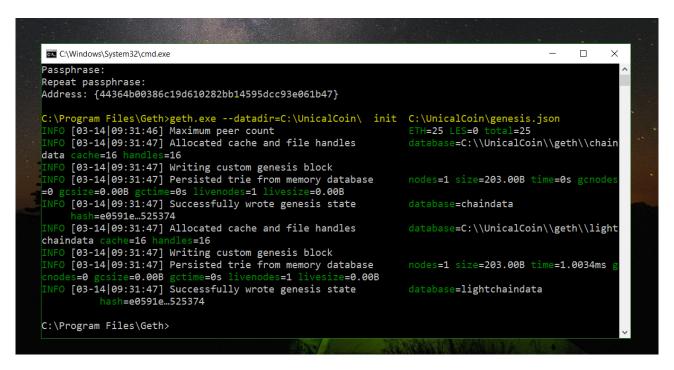
the system will ask you to insert a password. Store it in a secure place.

Example: "geth.exe --datadir=C:\UnicalCoin\ account new"



Initialize the blockchain using the init command, so from the Geth installation folder execute: "geth.exe –datadir=<BLOCKCHAIN\_DIR> init <BLOCKCHAIN\_DIR>\genesis.json so following our example execute:

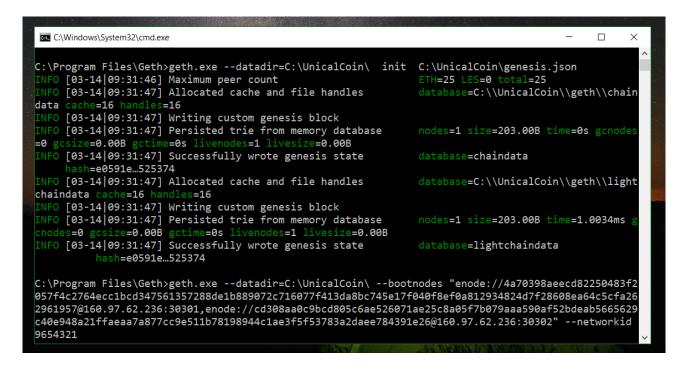
"geth.exe --datadir=C:\UnicalCoin\ init C:\UnicalCoin\genesis.json"



Once finished you can start synchronize whit the UnicalCoin blockchain so in the same terminal execute:

"geth.exe --datadir=C:\UnicalCoin\ --bootnodes

"enode://b6c2e4e0140b4f8880ed54532d79d2dbbefe1efc3e02f913425eb5b85f1bdc4fbb08135185c5244007c73a85fd288117c6b4e892c2f117668ff2a38948888b96@173.249.54.120:30302" – networkid 9654321"



After some minutes your node should be synchronized.

```
nash=70d5b4...d4b0a7
       36205
1
           0 [03-14|09:41:33] Imported new block receipts
                                                                                          elapsed=1.004ms
              hash=f3e9e2...ff284d size=172.00B ignored=0
       INFO [03-14|09:41:33] Imported new state entries
                                                                                          elapsed=0s
              ending=0 retrv=0 duplicate=0
            [03-14|09:41:33] Imported new block receipts
                                                                              count=1
                                                                                          elapsed=0s
              hash=bf5b89...1c5bb8 size=4.00B
       INFO [03-14|09:41:33] Committed new head block
                                                                              number=36140 hash=bf5b89...1c5bb8
             [03-14|09:41:33] Imported new chain segment
                                                                              blocks=65 txs=0 mgas=0.000 elapsed=1
                      ps=0.000
                                   ber=36205 hash=70d5b4...d4b0a7 cache=17.28kB
            [03-14|09:41:33] Upgrading chain index
                                                                              type=bloombits percentage=0
            [03-14|09:41:35] Finished upgrading chain index
[03-14|09:41:35] Fast sync complete, auto disabling
[03-14|09:41:42] Imported new chain segment
                                                                              type=bloombits
2
                                                                              blocks=1 txs=0 mgas=0.000 elapsed=5
                                               hash=5c7dfb...dc6273 cache=17.54kB
                                    per=36206
                       s=0.000
            [03-14|09:41:49] Imported new chain segment
                                                                                  cks=1
                                                                                        txs=0 mgas=0.000 elapse
                                   ber=36207 hash=77bd27...bfe666 cache=17.81kB
                 mgasps=0.000
             [03-14|09:41:50] Imported new chain segment
3
                                                                                    s=1 txs=0 mgas=0.000 elapsed=4
                                    per=36208 hash=98c091...eef797 cache=18.07kB
                       s=0.000
             [03-14|09:41:50] Mining too far in the future
                                                                               ait=6s
```

- 1) At the beginning console will show you a lot of imports that mean that you are downloading the blockchain (effectively you are not downloading the entire blockchain but just the header of the previous blocks, this is done by the "Fast synck" mode that is automatic enabled during the first time that you synchronize).
- 2) After a while the synchronization will finish and you will read on the console "Fast sync complete, auto disabled"
- 3) Now program is still running because the network still continue the create block, you can notice that by a sequence of log like: "Imported new chain segment..."

NB. is possible to stop and restart the node adding some parameters to the last command:

--mine --minerthreads=1 2>>C:\UnicalCoin\geth.log --verbosity 4 console allow you to start mining with X thread for example 1 allow you to redirect the lo to a file for example geth.log show much more log anble the javascript console to manage and query the node