

Installing Geth and using it for Deployment:

In order to connect to the live test network or the mainnet...we need to run anode and connect. We can do this locally by using Geth. Or we connect through a local service which is generally easier.

Using Geth....we get to see block information on the network and we get

Geth install

<https://github.com/ethereum/go-ethereum>

Installation instructions:

<https://github.com/ethereum/go-ethereum/wiki/Building-Ethereum>

```
geth --testnet --syncmode "light" --rpc --rpcapi db,eth,net,web3,personal,admin --cache=1024 --rpcport 8545
```

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db, etc, net, web3, personal, admin --cache=1024 --rpcport  
8545
```

- tell geth that we want ropsten testnet
- You may replace "testnet" with "rinkeby" to see the difference
- specify sync mode light...we want current state..need full node to confirm transactions
- Rpc- enable roc mode ,
- De, eth, net, web3, personal, admin — —these are api that give us access—
- Listen in port 8545

It starts and syncs blocks

Go to new terminal tab - show us where and what block

Type

```
$ geth attach http://127.0.0.1:8545
```

web3.eth.syncing

false

-this means its fully synced

Go to truffle.js

network export:

Change gas limit and put address to pay for the migration

Export private key from metamask — by going into

Then inform Geth client of your account

For Mac:

```

networks: {
  development: {
    host: "127.0.0.1",
    port: 7545,
    network_id: "*" // Match any network id
  },
  ropsten: {
    host: "127.0.0.1",
    port: 8545,
    network_id: 3,
    gas: 1377325,
    from: "0xe7d6c3f43d7859d7d6d045f9ac460eedffd3eae6"
  }
}

```

1. Open TextEdit
2. Paste key into TextEdit without any extra characters or quotations
3. Save the file as `nothing_special_delete_me.txt` to your Desktop
4. Open Terminal, run command:
`geth account import ~/Desktop/nothing_special_delete_me.txt`
- 5.
6. After successful import, delete the file from your desktop.

On windows:

Paste the key into a text file, save it to disk and use the path to that file with `geth account import`. Here are some example Windows instructions that might help:

1. Open Notepad
2. Paste key into notepad without any extra characters or quotations
3. Save the file as `nothing_special_delete_me.txt` at `C:\`
4. Run the command, `geth account import C:\nothing_special_delete_me.txt`
5. After successful import, delete the file at `C:\nothing_special_delete_me.txt`

Verify the accounts match

Geth attach <http://localhost:8545>

`web3.eth.accounts`

—this will show account

—need to unlock account

`Personal.unlockAccount(eth.accounts[0])`

-ask for password

Truffle migrate —network ropsten

Its migrated

Run npm start —in new tab to start the server for your project