

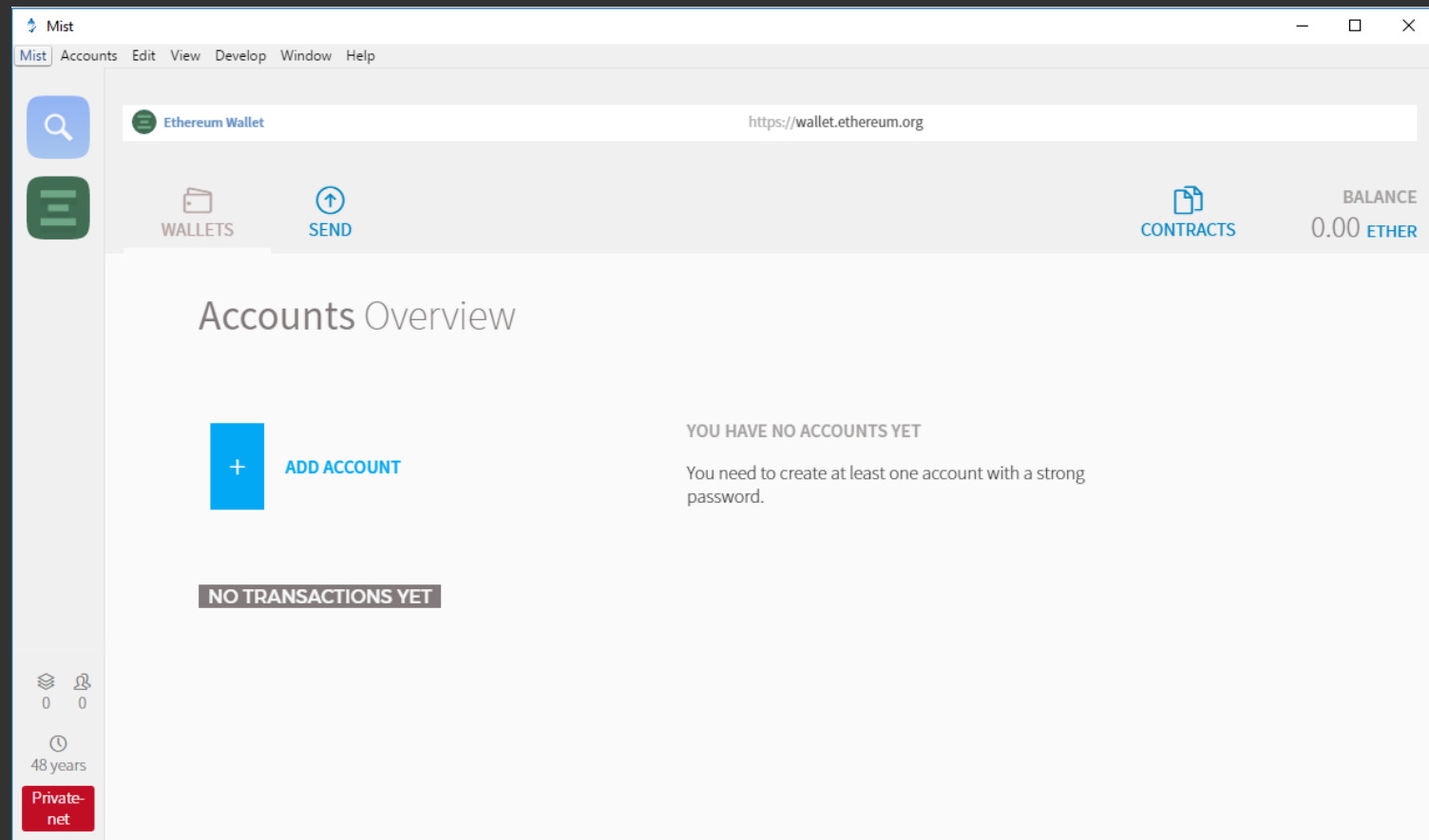
MIST

Ethereum Wallet

WHAT IS MIST?

- It's a „Browser“
 - Kind-of
- It's an „electron“-app
- It includes a „geth node“
 - Running in the background and starting when MIST starts
- Gives access to Web3 through the „browsing“ option
 - But first things first

MIST

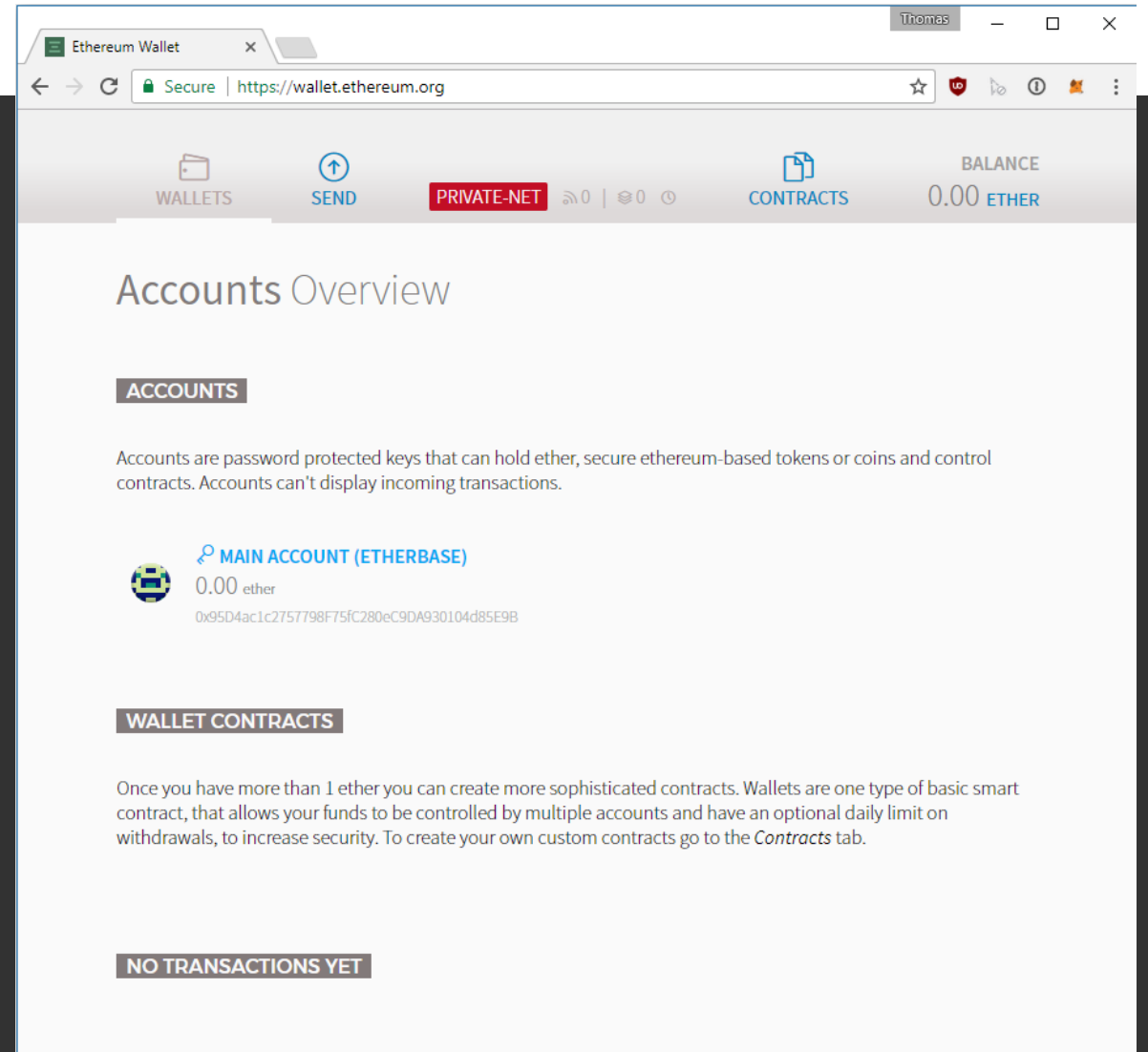


WHAT IS THE „ETHEREUM WALLET“

- It's a DAPP
 - Pure HTML/Javascript static code
- It makes use of web3.js to manage your accounts
- It runs inside „MIST“ Browser
 - <http://wallet.ethereum.org>
- Comes as „standalone“

ETHEREUM WALLET ONLINE

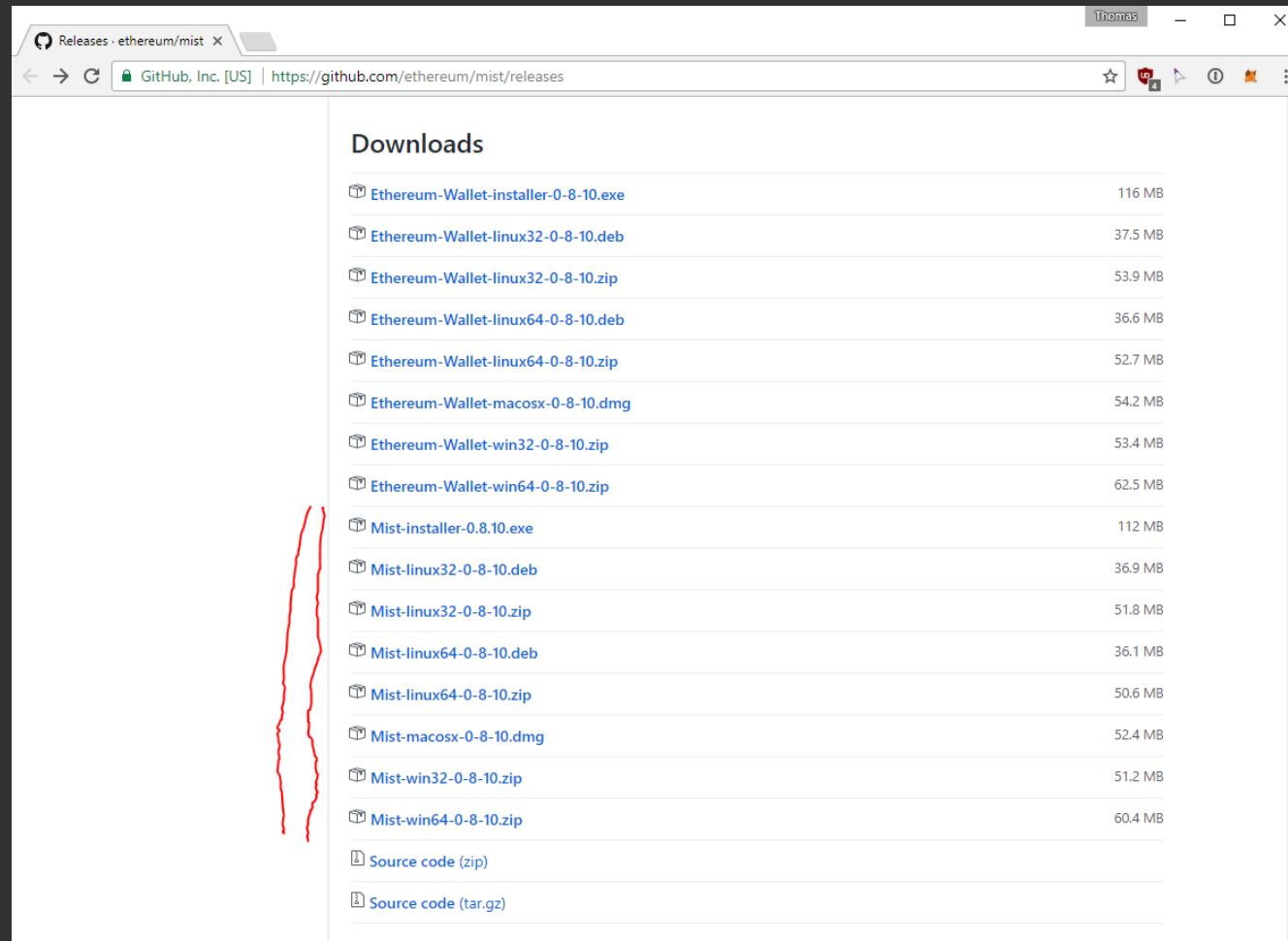
- Example in Chrome



DOWNLOAD & INSTALL

- Go to <https://github.com/ethereum/mist/releases>
- Scroll down
- Select the „MIST“ installation package
 - Depending on your platform

DOWNLOAD & INSTALL



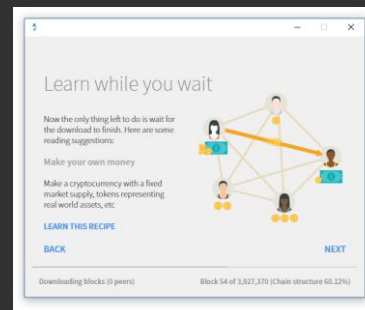
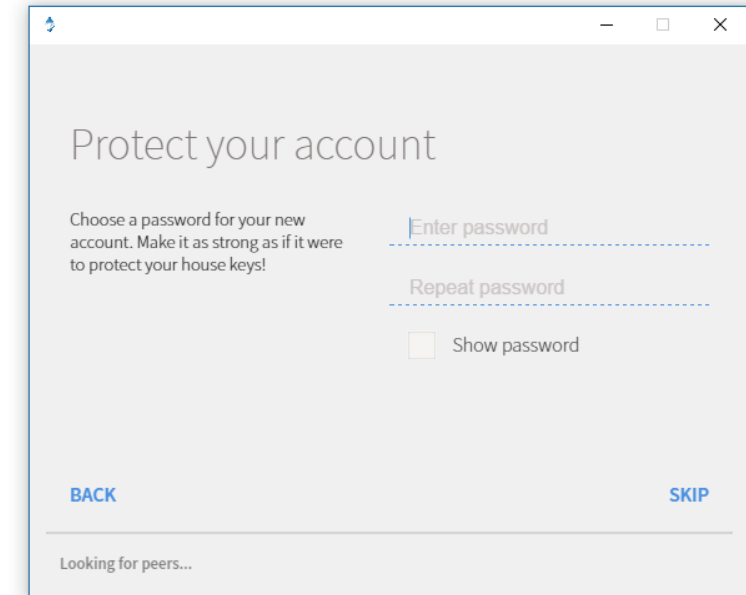
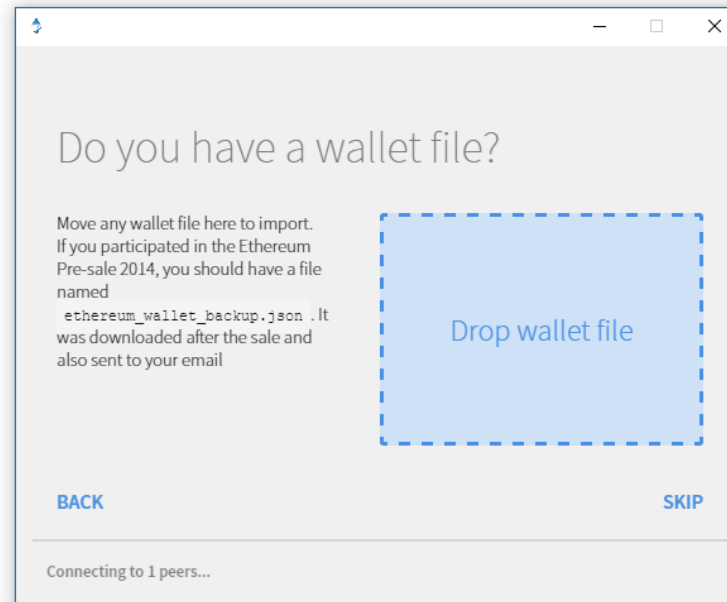
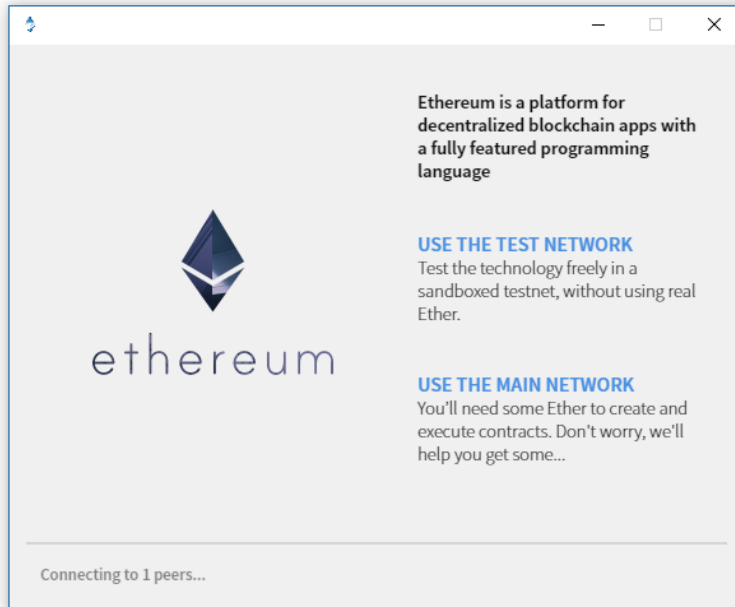
The screenshot shows the GitHub releases page for the `ethereum/mist` repository. The page lists various download links for different operating systems and architectures. A red bracket highlights the Mist installer and binaries.

Download Link	Size
Ethereum-Wallet-installer-0-8-10.exe	116 MB
Ethereum-Wallet-linux32-0-8-10.deb	37.5 MB
Ethereum-Wallet-linux32-0-8-10.zip	53.9 MB
Ethereum-Wallet-linux64-0-8-10.deb	36.6 MB
Ethereum-Wallet-linux64-0-8-10.zip	52.7 MB
Ethereum-Wallet-macosx-0-8-10.dmg	54.2 MB
Ethereum-Wallet-win32-0-8-10.zip	53.4 MB
Ethereum-Wallet-win64-0-8-10.zip	62.5 MB
Mist-installer-0.8.10.exe	112 MB
Mist-linux32-0-8-10.deb	36.9 MB
Mist-linux32-0-8-10.zip	51.8 MB
Mist-linux64-0-8-10.deb	36.1 MB
Mist-linux64-0-8-10.zip	50.6 MB
Mist-macosx-0-8-10.dmg	52.4 MB
Mist-win32-0-8-10.zip	51.2 MB
Mist-win64-0-8-10.zip	60.4 MB
Source code (zip)	
Source code (tar.gz)	

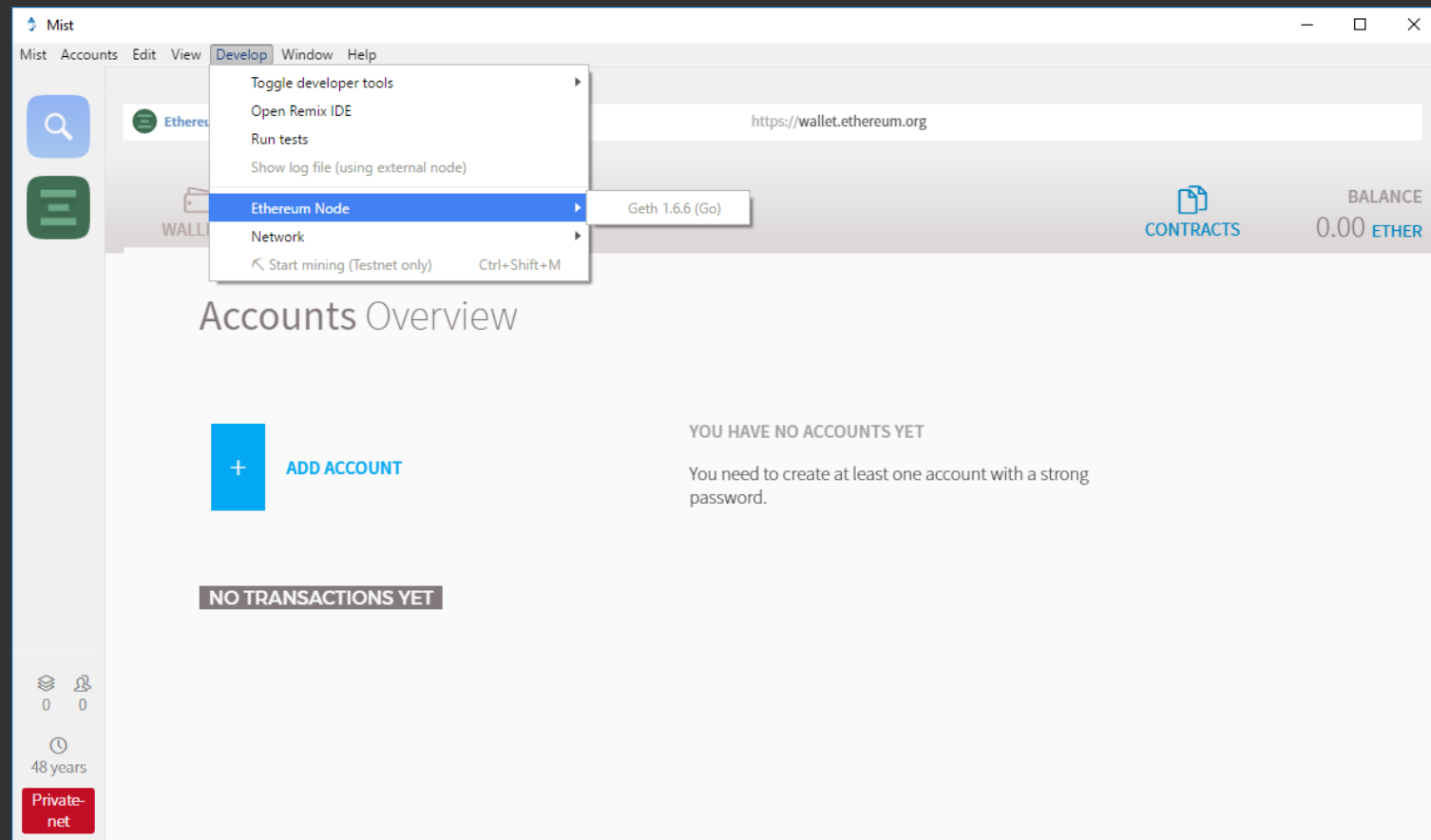
OPEN MIST

- First opening will walk you through a wizard
- It will open a „geth“ node in the background
- It will start downloading the chain
- But how to work on your „private net“?
- You can connect MIST to a private network
 - Running on localhost:8545 (or via an ipc file)

MIST WIZARD



MIST GETH NODE



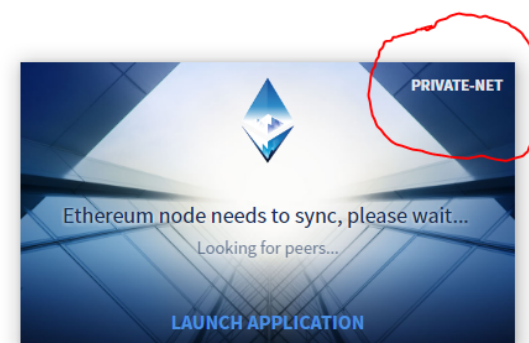
MIST WITH A PRIVATE NETWORK

- Open „geth“ from the command line
 - Create your private network:
 - „geth --datadir=... init genesis.json“
 - „geth --datadir=...“
- Then, when geth is running, open MIST
 - It will connect to geth through the IPC file
 - It will throw an error if it can't open port 30303
 - More on that in a second

MIST WITH A PRIVATE NETWORK

```
$ geth --datadir=./chaindata/ console --rpc --rpccorsdomain "*"
WARN [07-09|13:09:56] No etherbase set and no accounts found as default
INFO [07-09|13:09:56] Starting peer-to-peer node           instance=
INFO [07-09|13:09:56] Allocated cache and file handles     database=
chaindata\\geth\\chaindata cache=128 handles=1024
INFO [07-09|13:09:56] Initialised chain configuration       config="{
EIP155: 0 EIP158: 0 Metropolis: <nil> Engine: unknown}"
INFO [07-09|13:09:56] Disk storage enabled for ethash caches dir=C:\\U
\\geth\\ethash count=3
INFO [07-09|13:09:56] Disk storage enabled for ethash DAGs  dir=C:\\U
count=2
INFO [07-09|13:09:56] Initialising Ethereum protocol       versions=
INFO [07-09|13:09:56] Loaded most recent local header       number=0
INFO [07-09|13:09:56] Loaded most recent local full block   number=0
INFO [07-09|13:09:56] Loaded most recent local fast block   number=0
INFO [07-09|13:09:56] Starting P2P networking
INFO [07-09|13:09:58] UDP listener up                      self=enod
7227ad6b0ef37b8897e519ee6cd5ae5ebbaf66f3f576dd8ec2ad3b7e9fc6d23c@192.168
INFO [07-09|13:09:58] RLPx listener up                    self=enod
7227ad6b0ef37b8897e519ee6cd5ae5ebbaf66f3f576dd8ec2ad3b7e9fc6d23c@192.168
INFO [07-09|13:09:58] HTTP endpoint opened: http://127.0.0.1:8545
INFO [07-09|13:09:58] IPC endpoint opened: \\.\\pipe\\geth.ipc
INFO [07-09|13:09:58] Mapped network port                  proto=udp
INFO [07-09|13:09:58] Mapped network port                  proto=tcp
Welcome to the Geth JavaScript console!

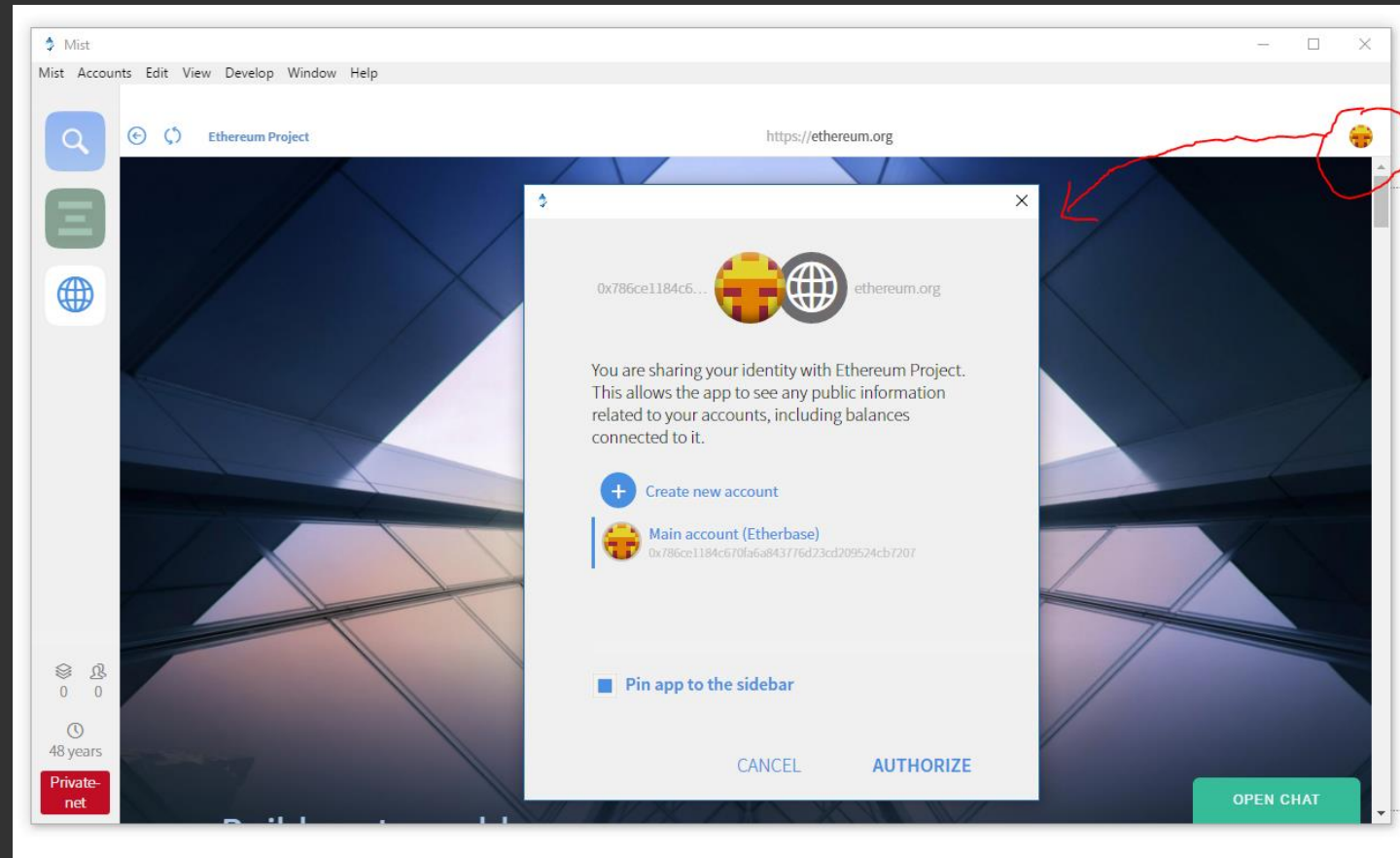
instance: Geth/v1.6.6-stable-10a45cb5/windows-amd64/go1.8.3
modules: admin:1.0 debug:1.0 eth:1.0 miner:1.0 net:1.0 personal:1.0 rpc
> |
```



WEB3 AND MIST

- MIST is a „browser“
- It will make „Web3“ available itself
 - And bind it to the window
 - And use the geth node to interact with the blockchain
- Within MIST you select which account is visible to the website
 - By default „web3.eth.accounts“ gives all accounts
 - Web3 makes only one available

MIST AND IDENTITIES



WHAT YOU LEARNED SO FAR

- MIST is a browser
- It comes with „geth“ in the background
- It's an electron (html/js) app
- Etheruem Wallet is just a DAPP
- You can connect MIST to a private network
 - It's very convenient when interacting with the blockchain
- Let's have a quick look how things work in reality.