

geth - 1

- **Go Ethereum** is the official implementation of the Ethereum protocol using **GO Programming Language**
- **geth** is the main Ethereum CLI client. **It is the entry point into the Ethereum network** (main-, test- or private net), capable of running as a full node (default), archive node (retaining all historical state) or a light node (retrieving data live). It can be used by other processes as a gateway into the Ethereum network via JSON RPC endpoints exposed on top of HTTP, WebSocket and/or IPC transports.

geth - 1

- **Installing on Ubuntu**

```
sudo apt-get install software-properties-common
```

```
sudo add-apt-repository -y ppa:ethereum/ethereum
```

```
sudo apt-get update
```

```
sudo apt-get install ethereum
```

- **Create a New Ethereum Account**

```
geth account new
```

Or you can run in the geth console: `personal.newAccount()`

- **Start geth console**

```
geth console
```

- **Unlock Account**

Start geth console and write:

```
personal.unlockAccount("address", "password")
```

geth - 1

- **Get Balance**

In the geth console:

```
eth.getBalance(eth.accounts[0])
```

or

```
eth.getBalance("0x5c1b9C45C2c6BB0dbaed0CD3b0583272D9Aab6Bf")
```

- **List Accounts**

In the geth console:

```
eth.accounts
```