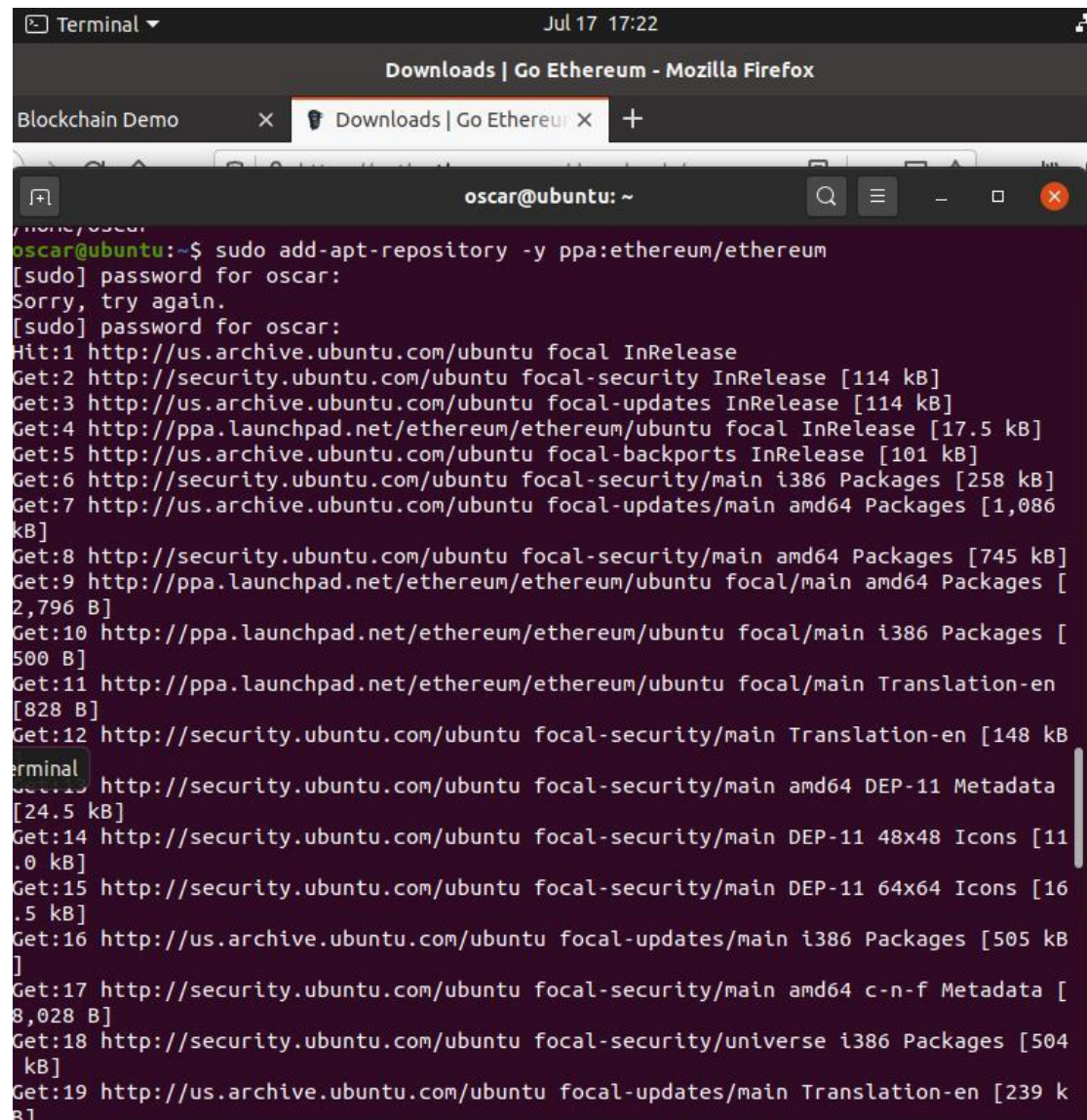


In Ubuntu, we install geth with rest:

To enable our launchpad repository run:

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

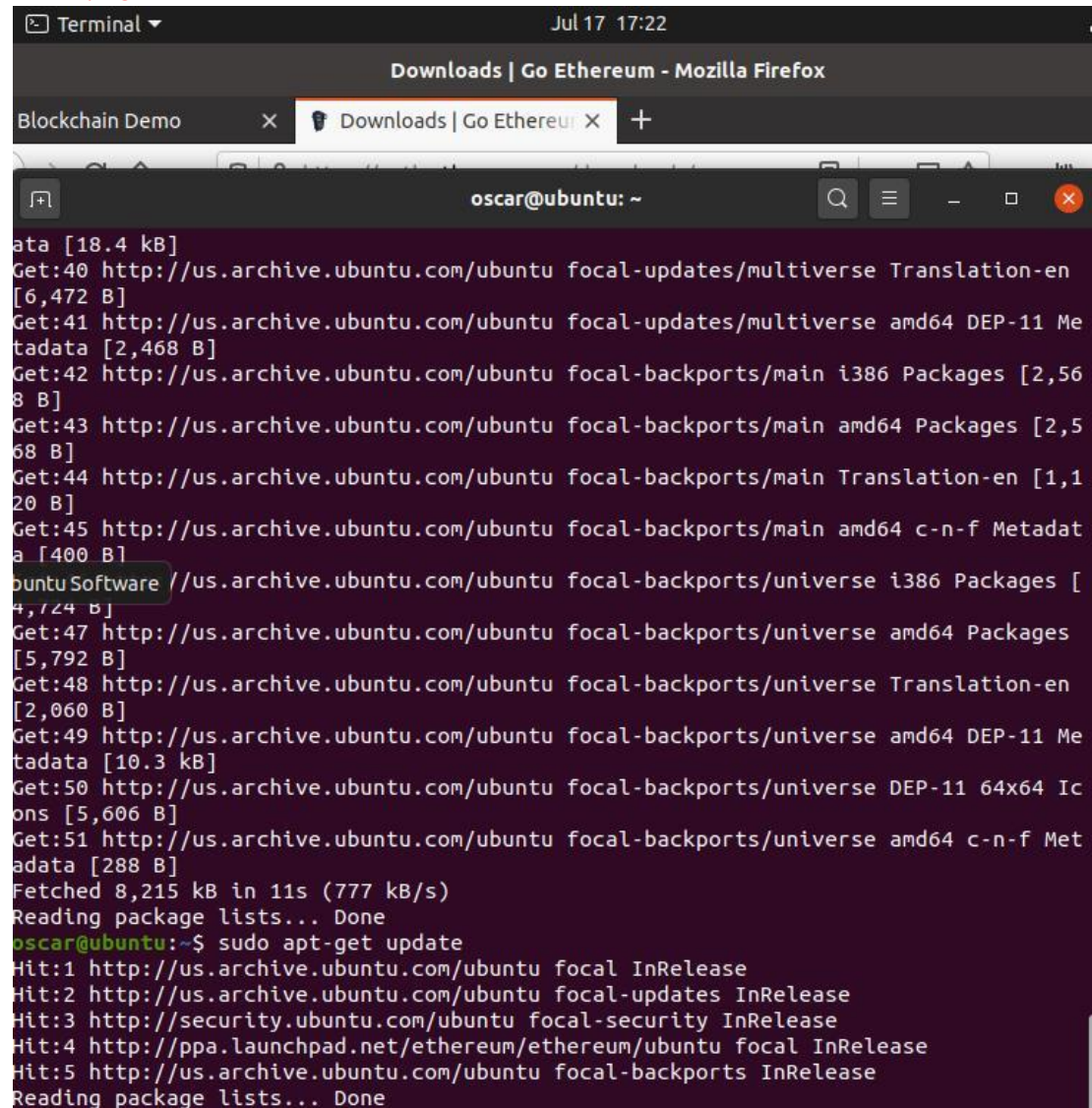


```
Terminal Jul 17 17:22
Downloads | Go Ethereum - Mozilla Firefox
Blockchain Demo x Downloads | Go Ethereum x +
oscar@ubuntu: ~
oscar@ubuntu:~$ sudo add-apt-repository -y ppa:ethereum/ethereum
[sudo] password for oscar:
Sorry, try again.
[sudo] password for oscar:
Hit:1 http://us.archive.ubuntu.com/ubuntu focal InRelease
Get:2 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Get:3 http://us.archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:4 http://ppa.launchpad.net/ethereum/ethereum/ubuntu focal InRelease [17.5 kB]
Get:5 http://us.archive.ubuntu.com/ubuntu focal-backports InRelease [101 kB]
Get:6 http://security.ubuntu.com/ubuntu focal-security/main i386 Packages [258 kB]
Get:7 http://us.archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages [1,086 kB]
Get:8 http://security.ubuntu.com/ubuntu focal-security/main amd64 Packages [745 kB]
Get:9 http://ppa.launchpad.net/ethereum/ethereum/ubuntu focal/main amd64 Packages [2,796 B]
Get:10 http://ppa.launchpad.net/ethereum/ethereum/ubuntu focal/main i386 Packages [500 B]
Get:11 http://ppa.launchpad.net/ethereum/ethereum/ubuntu focal/main Translation-en [828 B]
Get:12 http://security.ubuntu.com/ubuntu focal-security/main Translation-en [148 kB]
Get:13 http://security.ubuntu.com/ubuntu focal-security/main amd64 DEP-11 Metadata [24.5 kB]
Get:14 http://security.ubuntu.com/ubuntu focal-security/main DEP-11 48x48 Icons [11.0 kB]
Get:15 http://security.ubuntu.com/ubuntu focal-security/main DEP-11 64x64 Icons [16.5 kB]
Get:16 http://us.archive.ubuntu.com/ubuntu focal-updates/main i386 Packages [505 kB]
Get:17 http://security.ubuntu.com/ubuntu focal-security/main amd64 c-n-f Metadata [8,028 B]
Get:18 http://security.ubuntu.com/ubuntu focal-security/universe i386 Packages [504 kB]
Get:19 http://us.archive.ubuntu.com/ubuntu focal-updates/main Translation-en [239 kB]
```

Then install the stable version of go-ethereum with:

`sudo apt-get update`

`sudo apt-get install ethereum`



The screenshot shows a terminal window titled 'Terminal' with the date and time 'Jul 17 17:22'. In the background, a Mozilla Firefox browser window is open with the title 'Downloads | Go Ethereum - Mozilla Firefox'. The terminal window shows the user 'oscar@ubuntu: ~' and the command 'sudo apt-get update' being executed. The output of the command is as follows:

```
ata [18.4 kB]
Get:40 http://us.archive.ubuntu.com/ubuntu focal-updates/multiverse Translation-en
[6,472 B]
Get:41 http://us.archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 DEP-11 Me
tadata [2,468 B]
Get:42 http://us.archive.ubuntu.com/ubuntu focal-backports/main i386 Packages [2,56
8 B]
Get:43 http://us.archive.ubuntu.com/ubuntu focal-backports/main amd64 Packages [2,5
68 B]
Get:44 http://us.archive.ubuntu.com/ubuntu focal-backports/main Translation-en [1,1
20 B]
Get:45 http://us.archive.ubuntu.com/ubuntu focal-backports/main amd64 c-n-f Metadat
a [400 B]
ubuntuSoftware //us.archive.ubuntu.com/ubuntu focal-backports/universe i386 Packages [
4,724 B]
Get:47 http://us.archive.ubuntu.com/ubuntu focal-backports/universe amd64 Packages
[5,792 B]
Get:48 http://us.archive.ubuntu.com/ubuntu focal-backports/universe Translation-en
[2,060 B]
Get:49 http://us.archive.ubuntu.com/ubuntu focal-backports/universe amd64 DEP-11 Me
tadata [10.3 kB]
Get:50 http://us.archive.ubuntu.com/ubuntu focal-backports/universe DEP-11 64x64 Ic
ons [5,606 B]
Get:51 http://us.archive.ubuntu.com/ubuntu focal-backports/universe amd64 c-n-f Met
adata [288 B]
Fetched 8,215 kB in 11s (777 kB/s)
Reading package lists... Done
oscar@ubuntu:~$ sudo apt-get update
Hit:1 http://us.archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://us.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:3 http://security.ubuntu.com/ubuntu focal-security InRelease
Hit:4 http://ppa.launchpad.net/ethereum/ethereum/ubuntu focal InRelease
Hit:5 http://us.archive.ubuntu.com/ubuntu focal-backports InRelease
Reading package lists... Done
```



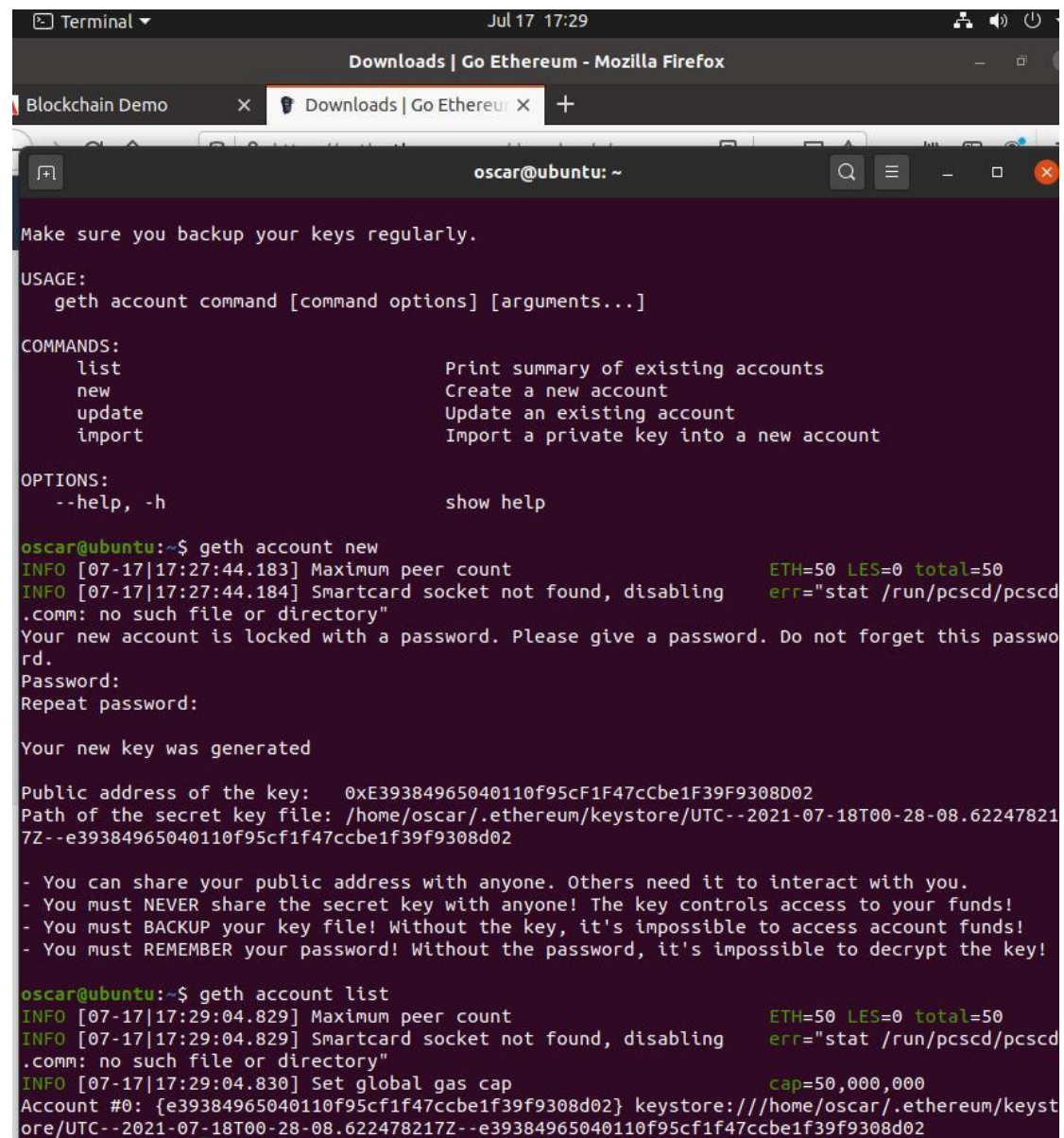
```
Terminal Jul 17 17:24
Downloads | Go Ethereum - Mozilla Firefox
Blockchain Demo Downloads | Go Ethereum
oscar@ubuntu: ~
Hit:5 http://us.archive.ubuntu.com/ubuntu focal-backports InRelease
Reading package lists... Done
oscar@ubuntu:~$ sudo apt-get install ethereum
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  abigen bootnode clef evm geth puppeth rlpdump
The following NEW packages will be installed:
  abigen bootnode clef ethereum evm geth puppeth rlpdump
0 upgraded, 8 newly installed, 0 to remove and 416 not upgraded.
Need to get 30.2 MB of archives.
After this operation, 108 MB of additional disk space will be used.
UbuntuSoftware to continue? [Y/n] y
Get:1 http://ppa.launchpad.net/ethereum/ethereum/ubuntu focal/main amd64 abigen amd64 1.10.5+build26921+focal [3,949 kB]
Get:2 http://ppa.launchpad.net/ethereum/ethereum/ubuntu focal/main amd64 bootnode amd64 1.10.5+build26921+focal [4,027 kB]
Get:3 http://ppa.launchpad.net/ethereum/ethereum/ubuntu focal/main amd64 clef amd64 1.10.5+build26921+focal [6,761 kB]
Get:4 http://ppa.launchpad.net/ethereum/ethereum/ubuntu focal/main amd64 evm amd64 1.10.5+build26921+focal [4,030 kB]
Get:5 http://ppa.launchpad.net/ethereum/ethereum/ubuntu focal/main amd64 geth amd64 1.10.5+build26921+focal [7,565 kB]
Get:6 http://ppa.launchpad.net/ethereum/ethereum/ubuntu focal/main amd64 puppeth amd64 1.10.5+build26921+focal [3,314 kB]
Get:7 http://ppa.launchpad.net/ethereum/ethereum/ubuntu focal/main amd64 rlpdump amd64 1.10.5+build26921+focal [559 kB]
Get:8 http://ppa.launchpad.net/ethereum/ethereum/ubuntu focal/main amd64 ethereum amd64 1.10.5+build26921+focal [1,616 B]
Fetched 30.2 MB in 39s (777 kB/s)
Selecting previously unselected package abigen.
(Reading database ... 195030 files and directories currently installed.)
Preparing to unpack .../0-abigen_1.10.5+build26921+focal_amd64.deb ...
Unpacking abigen (1.10.5+build26921+focal) ...
```

Create a new account with:

`geth account new`

See the account list with:

`geth account list`



```
Terminal Jul 17 17:29
Downloads | Go Ethereum - Mozilla Firefox
Blockchain Demo Downloads | Go Ethereum
oscar@ubuntu: ~

Make sure you backup your keys regularly.

USAGE:
  geth account command [command options] [arguments...]

COMMANDS:
  list          Print summary of existing accounts
  new           Create a new account
  update        Update an existing account
  import        Import a private key into a new account

OPTIONS:
  --help, -h    show help

oscar@ubuntu:~$ geth account new
INFO [07-17|17:27:44.183] Maximum peer count          ETH=50 LES=0 total=50
INFO [07-17|17:27:44.184] Smartcard socket not found, disabling err="stat /run/pcscd/pcscd
.comm: no such file or directory"
Your new account is locked with a password. Please give a password. Do not forget this password.
Password:
Repeat password:

Your new key was generated

Public address of the key: 0xE39384965040110f95cf1F47cCbe1F39F9308D02
Path of the secret key file: /home/oscar/.ethereum/keystore/UTC--2021-07-18T00-28-08.622478217Z--e39384965040110f95cf1f47ccbe1f39f9308d02

- 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!

oscar@ubuntu:~$ geth account list
INFO [07-17|17:29:04.829] Maximum peer count          ETH=50 LES=0 total=50
INFO [07-17|17:29:04.829] Smartcard socket not found, disabling err="stat /run/pcscd/pcscd
.comm: no such file or directory"
INFO [07-17|17:29:04.830] Set global gas cap          cap=50,000,000
Account #0: {e39384965040110f95cf1f47ccbe1f39f9308d02} keystore:///home/oscar/.ethereum/keyst
ore/UTC--2021-07-18T00-28-08.622478217Z--e39384965040110f95cf1f47ccbe1f39f9308d02
```