

Install electrum for ubuntu to access the bitcoin testnet with:

`sudo apt-get install python3-setuptools python3-pyqt5 python3-pip`

&

`sudo pip3 install https://download.electrum.org/3.3.8/Electrum-3.3.8.tar.gz`

```
Kneron@ubuntu:~/bitcoin-blockchain/bitcoin$ sudo apt-get install python3-setuptools python3-pyqt5
python3-pip
Reading package lists... Done
Building dependency tree
Reading state information... Done
python3-setuptools is already the newest version (39.0.1-2).
python3-setuptools set to manually installed.
The following packages were automatically installed and are no longer required:
  libhttp-parser2.7.1 nodejs-doc
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  libqt5designer5 libqt5help5 libqt5sql5 libqt5sql5-sqlite libqt5test5 libqt5xml5
  python-pip-whl python3-sip
Suggested packages:
  python3-pyqt5-dbg
The following NEW packages will be installed:
  libqt5designer5 libqt5help5 libqt5sql5 libqt5sql5-sqlite libqt5test5 libqt5xml5 python3-pyqt5
  python3-sip
The following packages will be upgraded:
  python-pip-whl python3-pip
2 upgraded, 8 newly installed, 0 to remove and 374 not upgraded.
Need to get 7,356 kB of archives.
After this operation, 23.8 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libqt5xml5 amd64 5.9.5+dfsg-0ubuntu2.5 [99.5 kB]
Get:2 http://us.archive.ubuntu.com/ubuntu bionic/universe amd64 libqt5designer5 amd64 5.9.5-0ubuntu1 [2,761 kB]
Get:3 http://us.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libqt5sql5 amd64 5.9.5+dfsg-0ubuntu2.5 [115 kB]
Get:4 http://us.archive.ubuntu.com/ubuntu bionic/universe amd64 libqt5help5 amd64 5.9.5-0ubuntu1 [133 kB]
Get:5 http://us.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libqt5sql5-sqlite amd64 5.9.5+dfsg-0ubuntu2.5 [40.2 kB]
Get:6 http://us.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libqt5test5 amd64 5.9.5+dfsg-0ubuntu2.5 [98.1 kB]
Get:7 http://us.archive.ubuntu.com/ubuntu bionic-updates/universe amd64 python3-pip all 9.0.1-2.3~ubuntu1.18.04.5 [114 kB]
Get:8 http://us.archive.ubuntu.com/ubuntu bionic-updates/universe amd64 python-pip-whl all 9.0.1-2.3~ubuntu1.18.04.5 [1,653 kB]
Get:9 http://us.archive.ubuntu.com/ubuntu bionic-updates/universe amd64 python3-sip amd64 4.19.7+dfsg-1ubuntu0.1 [75.3 kB]
Get:10 http://us.archive.ubuntu.com/ubuntu bionic/universe amd64 python3-pyqt5 amd64 5.10.1+dfsg-
```

```

Kneron@ubuntu:~/bitcoin-blockchain/bitcoin$ sudo pip3 install https://download.electrum.org/3.3.8/Electrum-3.3.8.tar.gz
Files
The directory '/home/Kneron/.cache/pip/http' or its parent directory is not owned by the current user and the cache has been disabled. Please check the permissions and owner of that directory. If executing pip with sudo, you may want sudo's -H flag.
The directory '/home/Kneron/.cache/pip' or its parent directory is not owned by the current user and caching wheels has been disabled. Check the permissions and owner of that directory. If executing pip with sudo, you may want sudo's -H flag.
Collecting https://download.electrum.org/3.3.8/Electrum-3.3.8.tar.gz
  Downloading https://download.electrum.org/3.3.8/Electrum-3.3.8.tar.gz (8.9MB)
    100% |#####| 8.9MB 99kB/s
Collecting pyaes>=0.1a1 (from Electrum==3.3.8)
  Downloading https://files.pythonhosted.org/packages/44/66/2c17bae31c906613795711fc78045c285048168919ace2220daa372c7d72/pyaes-1.6.1.tar.gz
Collecting ecdsa>=0.13 (from Electrum==3.3.8)
  Downloading https://files.pythonhosted.org/packages/4a/b6/b678b080967b2696e9a201c096dc076ad756fb35c87dca4e1d1a13496ff7/ecdsa-0.17.0-py2.py3-none-any.whl (119kB)
    100% |#####| 122kB 4.0MB/s
Collecting qrcode (from Electrum==3.3.8)
  Downloading https://files.pythonhosted.org/packages/42/87/4a3a77e59ab7493d64da1f69bf1c2e899a4cf81e51b2baa855e8cc8115be/qrcode-6.1-py2.py3-none-any.whl
Requirement already satisfied: protobuf in /home/Kneron/.local/lib/python3.6/site-packages (from Electrum==3.3.8)
Collecting dnspython (from Electrum==3.3.8)
  Downloading https://files.pythonhosted.org/packages/f5/2d/ae9e172b4e5e72fa4b3cfc2517f38b602cc9ba31355f9669c502b4e9c458/dnspython-2.1.0-py3-none-any.whl (241kB)
    100% |#####| 245kB 2.7MB/s
Collecting jsonrpclib-pelix (from Electrum==3.3.8)
  Downloading https://files.pythonhosted.org/packages/f7/fd/b6cfbb56d68fcc7a6befcdd175aa3b22d2b9da2eea7383febb20e487e03/jsonrpclib_pelix-0.4.2-py2.py3-none-any.whl (41kB)
    100% |#####| 51kB 8.0MB/s
Collecting qdarkstyle<2.7 (from Electrum==3.3.8)
  Downloading https://files.pythonhosted.org/packages/2b/ab/8996b69475feda604e8b2f60b7d3e48938c0e07f48532ee112ce097cc6de/QDarkStyle-2.6.8-py2.py3-none-any.whl (180kB)
    100% |#####| 184kB 2.6MB/s
Collecting aioprx<0.19,>=0.18 (from Electrum==3.3.8)
  Downloading https://files.pythonhosted.org/packages/e7/92/eb92bf3e5ff1df569b99db96fc0b935e71d0aa34445618c822654e92437c/aioprx-0.18.7-py3-none-any.whl
Collecting aiohttp>=3.3.0 (from Electrum==3.3.8)
  Downloading https://files.pythonhosted.org/packages/99/f5/90ede947a3ce2d6de1614799f5fea4e93c19b6520a59dc5d2f64123b032f/aiohttp-3.7.4.post0.tar.gz (1.1MB)
    100% |#####| 1.1MB 631kB/s
Collecting aiohttp_socks (from Electrum==3.3.8)
  Downloading https://files.pythonhosted.org/packages/9a/6c/d302e5a8097fee1e83b9f8e9da10d7752fbf27c74db18b3cc9528b3479be/aiohttp_socks-0.6.0-py3-none-any.whl
Requirement already satisfied: certifi in /home/Kneron/.local/lib/python3.6/site-packages (from Electrum==3.3.8)

```

Start electrum to access testnet with:

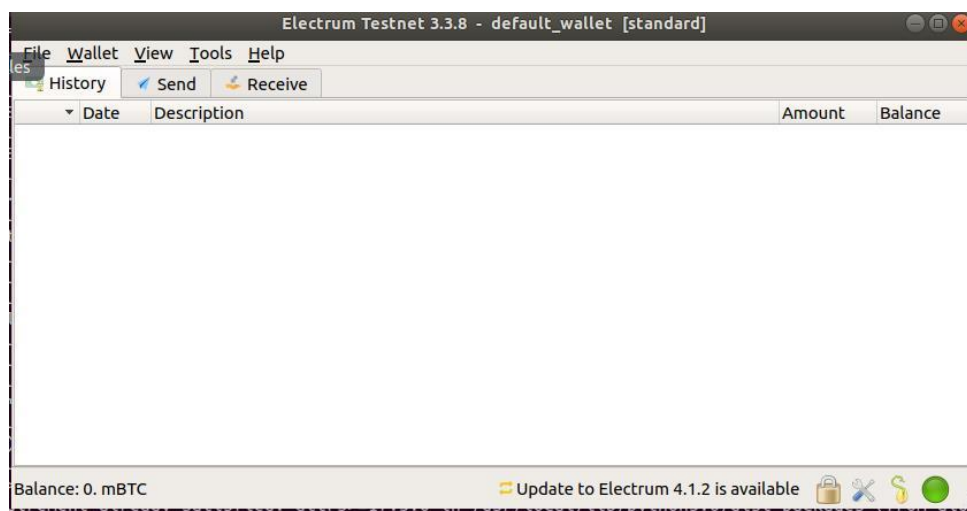
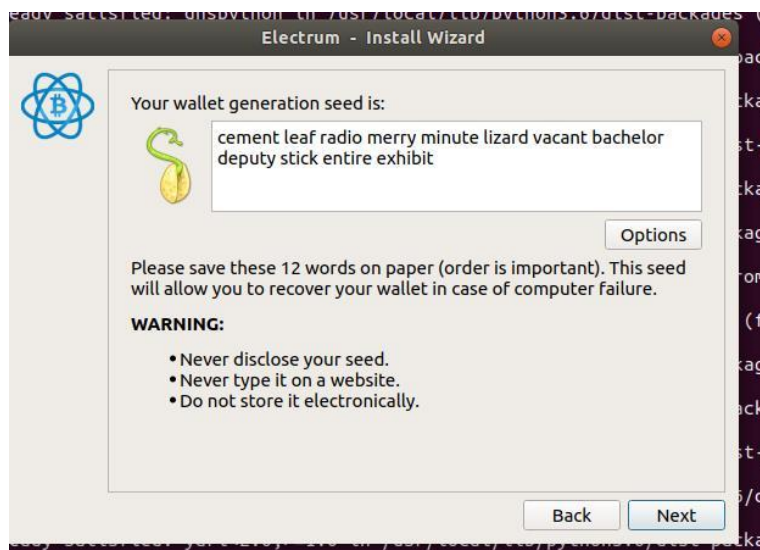
electrum --testnet

```

Requirement already satisfied: qrcode in /usr/local/lib/python3.6/dist-packages (from Electrum==3.3.8)
Requirement already satisfied: dnspython in /usr/local/lib/python3.6/dist-packages (from Electrum==3.3.8)
Requirement already satisfied: jsonrpclib-pelix in /usr/local/lib/python3.6/dist-packages (from Electrum==3.3.8)
Requirement already satisfied: qdarkstyle in /usr/local/lib/python3.6/dist-packages (from Electrum==3.3.8)
Requirement already satisfied: aioprx in /usr/local/lib/python3.6/dist-packages (from Electrum==3.3.8)
Requirement already satisfied: aiohttp in /usr/local/lib/python3.6/dist-packages (from Electrum==3.3.8)
Requirement already satisfied: aiohttp_socks in /usr/local/lib/python3.6/dist-packages (from Electrum==3.3.8)
Requirement already satisfied: certifi in /usr/local/lib/python3.6/dist-packages (from Electrum==3.3.8)
Requirement already satisfied: async_timeout<4.0,>=3.0 in /usr/local/lib/python3.6/dist-packages (from aiohttp==3.3.0->Electrum==3.3.8)
Requirement already satisfied: yarl<2.0,>=1.0 in /usr/local/lib/python3.6/dist-packages (from aiohttp==3.3.0->Electrum==3.3.8)
Requirement already satisfied: typing_extensions>=3.6.5 in /usr/local/lib/python3.6/dist-packages (from aiohttp==3.3.0->Electrum==3.3.8)
Requirement already satisfied: idna-ssl>=1.0 in /usr/local/lib/python3.6/dist-packages (from aiohttp==3.3.0->Electrum==3.3.8)
Requirement already satisfied: python-socks[asyncio]>=1.2.2 in /usr/local/lib/python3.6/dist-packages (from aiohttp_socks->Electrum==3.3.8)
Requirement already satisfied: idna>=2.0 in /usr/local/lib/python3.6/dist-packages (from yarl<2.0,>=1.0->aiohttp==3.3.0->Electrum==3.3.8)
Kneron@ubuntu:~$ electrum --testnet
Unknown command: --testnet
Kneron@ubuntu:~$ electrum --testnet

```


Follow the steps to make a new wallet:



There is nothing in our wallet, then we go <https://coinfacuet.eu/en/btc-testnet/> to get some test bitcoin with the address. Then we can see our wallet:

