

# **How To Install & Use Electrum TestNet & Parity Kovan**

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# 1. How To Install Electrum

A. Open a browser, go to link: <https://electrum.org/#download>

Choose the MacOS easy installation, click “Executable for OS X” and the download will be started automatically.

B. After the download is finished, open electrum.dmg.

You might see a prompted window saying “Electrum can’t be opened because it is from an unidentified developer”. Go to System Preferences -> Security & Privacy, under General tab, choose to open the application anyway. Then the Electrum application should be opened successfully. However, it is for the Bitcoin MainNet. Close it and follow the instructions in the next chapter if you want to use Electrum TestNet. Now Electrum is installed on your Mac successfully.

## 2. How To Use Electrum TestNet

A. Open terminal, paste the command:

```
cd /Applications/Electrum.app/Contents/MacOS
```

B. Then paste the command:

```
./Electrum --testnet
```

C. Now Electrum should be opened.

To create a new wallet, choose a proper name for your wallet and follow the prompted instruction to finish. After your wallet is created, you can find your receiving address and transaction history inside it and send BTC to others.

# 3. How To Install Parity

## A. Install Homebrew:

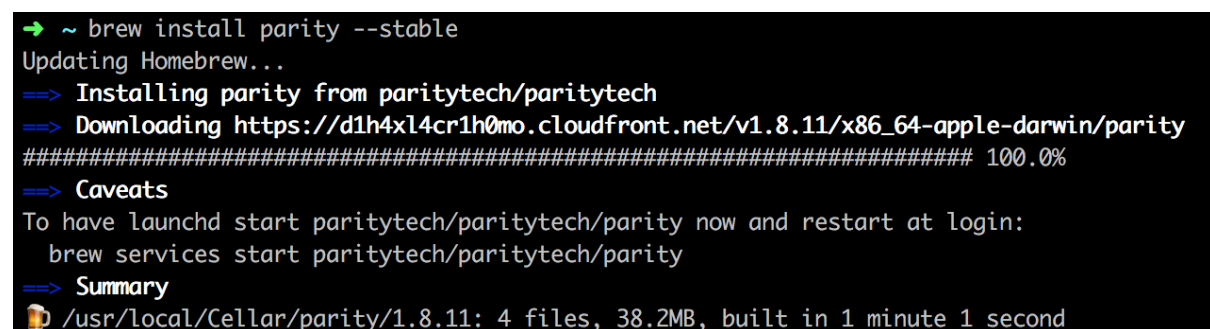
Open terminal, paste the command:

```
/usr/bin/ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"
```

Follow the prompted installation instruction, during installation it will ask for the current Mac user's password. Wait until you see "Installation successful".

## B. Go to link: <https://github.com/paritytech/homebrew-paritytech>

Follow the instructions at the README.md section, you can choose which version of Parity you want to install. See the screen shot of successful installation below for reference.



```
➔ ~ brew install parity --stable
Updating Homebrew...
➡ Installing parity from paritytech/paritytech
➡ Downloading https://d1h4xl4cr1h0mo.cloudfront.net/v1.8.11/x86_64-apple-darwin/parity
##### 100.0%
➡ Caveats
To have launchd start paritytech/paritytech/parity now and restart at login:
  brew services start paritytech/paritytech/parity
➡ Summary
📦 /usr/local/Cellar/parity/1.8.11: 4 files, 38.2MB, built in 1 minute 1 second
```

## 4. How To Use Parity Kovan

A. Open terminal, paste the command:

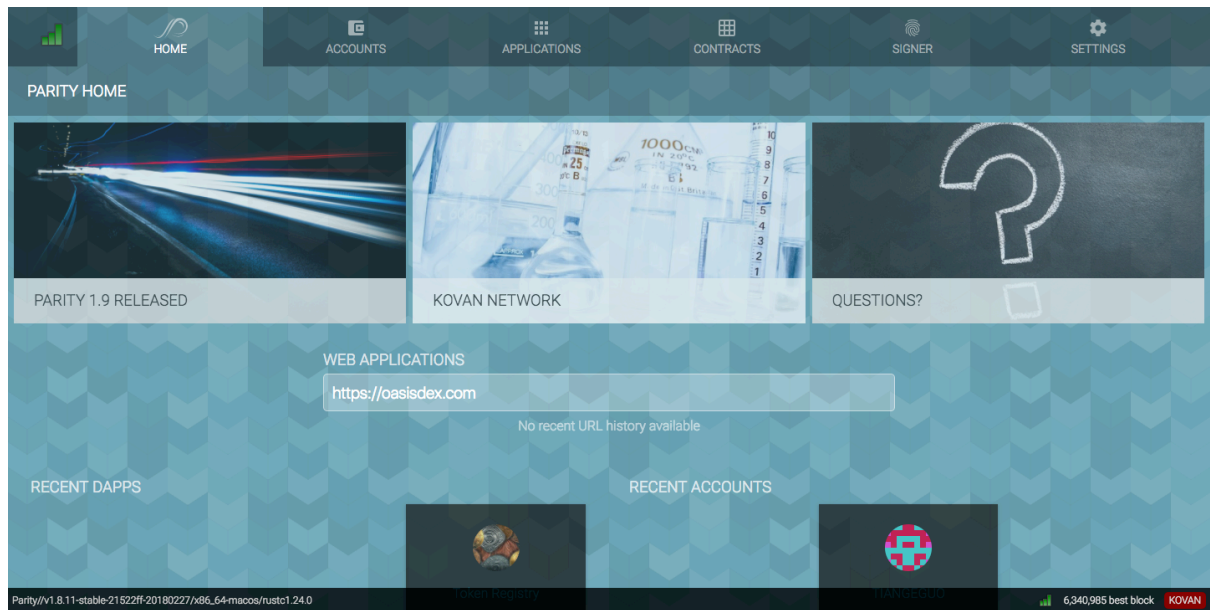
```
parity --chain=kovan
```

Parity kovan will be started. This must keep running while you are using Parity Kovan. To exit, use the shortcut Command+C. See the screen shot below for reference.

```
→ ~ parity --chain=kovan
2018-03-14 12:21:07 Starting Parity/v1.8.11-stable-21522ff-20180227/x86_64-macos/rustc1.24.0
2018-03-14 12:21:07 Keys path /Users/tiangeguo/Library/Application Support/io.parity.ethereum/keys/Kovan
2018-03-14 12:21:07 DB path /Users/tiangeguo/Library/Application Support/io.parity.ethereum/chains/kovan/db/9bf388941c25ea98
2018-03-14 12:21:07 Path to dapps /Users/tiangeguo/Library/Application Support/io.parity.ethereum/dapps
2018-03-14 12:21:07 State DB configuration: fast
2018-03-14 12:21:07 Operating mode: active
2018-03-14 12:21:07 Configured for Kovan using AuthorityRound engine
2018-03-14 12:21:09 Updated conversion rate to E1 = US$691.63 (172126160 wei/gas)
2018-03-14 12:21:13 Public node URL: enode://99944aa108c38c41b8ae13cce3d34331057f8dc6134032b187db45d76547394e667f8dc154c81d0428aea0fc0e673e5
2018-03-14 12:21:16 Imported #6340757 fb38_d858 (1 txs, 0.06 Mgas, 1.71 ms, 0.71 KiB) + another 2 block(s) containing 4 tx(s)
2018-03-14 12:21:20 Imported #6340758 3e72_1b6c (1 txs, 0.06 Mgas, 1.88 ms, 0.71 KiB)
2018-03-14 12:21:24 Imported #6340759 ec5c_5b6e (1 txs, 0.05 Mgas, 1.25 ms, 0.74 KiB)
2018-03-14 12:21:28 Imported #6340760 4910_d4d2 (1 txs, 0.25 Mgas, 2.37 ms, 0.84 KiB)
2018-03-14 12:21:32 Imported #6340761 8a5a_2e54 (1 txs, 0.05 Mgas, 0.68 ms, 0.74 KiB)
2018-03-14 12:21:36 Imported #6340762 cc85_bdc8 (0 txs, 0.00 Mgas, 0.59 ms, 0.57 KiB)
2018-03-14 12:21:38 9/25 peers 208 KiB chain 69 MiB db 0 bytes queue 21 KiB sync RPC: 1 conn, 4 req/s, 48 µs
2018-03-14 12:21:40 Imported #6340763 1fc2_8fe9 (2 txs, 0.54 Mgas, 2.73 ms, 1.73 KiB)
2018-03-14 12:21:44 Imported #6340764 35aa_9ab5 (0 txs, 0.00 Mgas, 0.63 ms, 0.57 KiB)
2018-03-14 12:21:48 Imported #6340765 5d1a_c22b (2 txs, 0.32 Mgas, 0.96 ms, 1.63 KiB)
2018-03-14 12:21:52 Imported #6340766 a935_7b0b (1 txs, 0.30 Mgas, 2.21 ms, 0.84 KiB)
2018-03-14 12:21:56 Imported #6340767 7cf3_0be0 (2 txs, 0.09 Mgas, 0.90 ms, 0.88 KiB)
2018-03-14 12:22:00 Imported #6340768 121f_ad9d (1 txs, 0.16 Mgas, 3.35 ms, 0.84 KiB)
2018-03-14 12:22:04 Imported #6340769 0536_b20b (1 txs, 0.03 Mgas, 0.66 ms, 0.74 KiB)
2018-03-14 12:22:08 Imported #6340770 b18b_c38f (3 txs, 0.52 Mgas, 4.50 ms, 1.17 KiB)
2018-03-14 12:22:08 16/25 peers 300 KiB chain 69 MiB db 0 bytes queue 21 KiB sync RPC: 1 conn, 5 req/s, 61 µs
2018-03-14 12:22:12 Imported #6340771 1b40_b606 (1 txs, 0.03 Mgas, 0.84 ms, 0.74 KiB)
2018-03-14 12:22:16 Imported #6340772 5275_427e (0 txs, 0.00 Mgas, 0.83 ms, 0.57 KiB)
2018-03-14 12:22:20 Imported #6340773 ed91_9543 (2 txs, 0.30 Mgas, 2.27 ms, 1.13 KiB)
2018-03-14 12:22:24 Imported #6340774 c7ca_6b41 (2 txs, 0.51 Mgas, 2.71 ms, 2.25 KiB)
2018-03-14 12:22:28 Imported #6340775 df02_b829 (2 txs, 0.08 Mgas, 1.16 ms, 0.85 KiB)
2018-03-14 12:22:32 Imported #6340776 dafc_a9e4 (1 txs, 0.03 Mgas, 0.53 ms, 0.83 KiB)
2018-03-14 12:22:36 Imported #6340777 baab_cb2b (2 txs, 0.05 Mgas, 1.13 ms, 0.85 KiB)
2018-03-14 12:22:38 18/25 peers 730 KiB chain 69 MiB db 0 bytes queue 21 KiB sync RPC: 1 conn, 5 req/s, 45 µs
2018-03-14 12:22:40 Imported #6340778 77a8_b44c (4 txs, 0.62 Mgas, 1.48 ms, 2.74 KiB)
2018-03-14 12:22:44 Imported #6340779 f6cc_33e8 (1 txs, 0.03 Mgas, 1.17 ms, 0.74 KiB)
2018-03-14 12:22:48 Imported #6340780 310b_3c02 (0 txs, 0.00 Mgas, 0.59 ms, 0.57 KiB)
2018-03-14 12:22:52 Imported #6340781 2d5a_3d5b (2 txs, 0.10 Mgas, 0.85 ms, 1.00 KiB)
2018-03-14 12:22:56 Imported #6340782 0f51_b893 (1 txs, 0.03 Mgas, 0.86 ms, 0.74 KiB)
2018-03-14 12:23:00 Imported #6340783 fd02_72c4 (1 txs, 0.03 Mgas, 0.64 ms, 0.83 KiB)
2018-03-14 12:23:04 Imported #6340784 fb86_42d6 (1 txs, 0.03 Mgas, 1.74 ms, 0.74 KiB)
2018-03-14 12:23:08 Imported #6340785 a633_f139 (1 txs, 6.18 Mgas, 1.66 ms, 23.34 KiB)
```

B. Open a browser, go to link: <http://127.0.0.1:8180/>

Now you should be in Parity Kovan. See the screen shot below for reference.



C. To open an account, click the “ACCOUNTS” tab. Then you will see a tab called “+ ACCOUNT”, click it and select “NEW ACCOUNT”. Follow the prompted instructions and finish creating your account.