

# Full Node Wallet Installation Guide. Forging Tutorial

1. Download Full Node Wallet
2. (Optional) Download Full Node Wallet Data
- 3\*. Put 'Full Node Data' into the 'Full Node Wallet' file

Links for downloading are available at the official website of Lightning Bitcoin. Please download the wallet from the official website, in order to avoid scamming.

## Installation and usage

### 1. System requirements

ubuntu 16.04

### 2. Install packages

```
sudo apt update
sudo apt-get install libzmq5
sudo apt-get install libevent-dev
sudo apt-get install libboost-chrono-dev
sudo apt-get install libboost-filesystem-dev
sudo apt-get install libboost-program-options-dev
sudo apt-get install libboost-dev
```

### 3. Commands

- Open wallet  
▼ `nohup ./src/bitcoind -txindex&`
- Create new address  
▼ `./bitcoin-cli getnewaddress`  
▼ `1EguwmLDaeVdDApPdCQaGuNBArggS4iY3k`
- Check private key:  
▼ `./bitcoin-cli dumpprivkey 1FncXb4QJZ5sNSPErrhAxYwVP1MF71LFgA`  
▼ `L4GPEfZDPPoen1fq3RvoVN7phEnmRN8iCr6mtCq4E9dgZoLkdoaQ`
- Import private key:  
▼ `./bitcoin-cli`  
`importprivkey L4GPEfZDPPoen1fAyQPoVN7phEnmRN8iCr6mtCq4E9dgZoLkdoaQ`
- Register as a delegate:  
▼ `./bitcoin-cli register 1EguwmLDaeVdDApPdCQaGuNBArggS4iY3k whh1`  
▼ `50717bb5da957609b6a5c3c37ddf654516f84b6862694aea23bfca8766c58ca`
- Check delegates list:  
▼ `./bitcoin-cli listdelegates`  
▼ 

```
[
  {
    "id": 1,
    "address": "1EguwmLDaeVdDApPdCQaGuNBArggS4iY3k",
    "name": "whh1"
  }
]
```

  
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- Vote for a delegate:
  - ▼ `./bitcoin-cli vote 1FncXb4QJZ5sNSPErrhAxYwVP1MF71LFgA whh1`
  - ▼ `173d4c6c6ddda95b436f3a5d07129d4b0cd71d3a2071e11c7fce050223378dde`
- List received votes:
  - ▼ `./bitcoin-cli listreceivedvotes whh1`
  - ▼ `[ "1FncXb4QJZ5sNSPErrhAxYwVP1MF71LFgA"`
  - ▼ `]`
- List voted delegates:
  - ▼ `./bitcoin-cli listvoteddelegates 1FncXb4QJZ5sNSPErrhAxYwVP1MF71LFgA`
  - ▼ `[`
  - ▼ `{`
  - ▼ `"id": 1,`
  - ▼ `"time": 1517291154,`
  - ▼ `"height": 114,`
  - ▼ `"type": "vote",`
  - ▼ `"share": 569101000000,`
  - ▼ `"voter": "1FncXb4QJZ5sNSPErrhAxYwVP1MF71LFgA",`
  - ▼ `"delegate": "1EguwmLDaeVdDApPdCQaGuNBArggS4iY3k"`
  - ▼ `}`
  - ▼ `]`

Note: ["type": "vote"] means voted, others are unvoted.

- Start forging
  - ▼ `./bitcoin-cli startforging 1EguwmLDaeVdDApPdCQaGuNBArggS4iY3k`

Note: Forging is available for nodes with imported private keys.

- Stop forging:
  - ▼ `./bitcoin-cli stopforging`

Note: The voting weight calculation is based on the address balance. If you want to use all of your stake for voting you have to transfer all the coins into one address.

- Transfer
  - ▼ `./bitcoin-cli sendtoaddressnew 1EguwmLDaeVdDApPdCQaGuNBArggS4iY3k 10`
  - ▼ `8bb75c2dddade0a997b20cad0f5f8e2b1c92553ad017c4f19fdc63467a1e7a2e`
- Check the list of commands:
  - ▼ `./bitcoin-cli help`