

THRONE INSTALLATION INSTRUCTIONS

REMOTE ONLY -- UBUNTU VIRTUAL SERVER

< assuming you have putty installed and know how to connect to your server >

< log in to root with initial password >

```
~$ sudo passwd
```

< enter & confirm new password for root >

< update system software and packages >

```
~$ sudo apt-get update
```

```
~$ sudo apt-get upgrade
```

```
~$ sudo apt-get dist-upgrade
```

< install firewall, adjust settings, check status >

```
~$ apt-get install ufw
```

```
~$ ufw allow ssh/tcp
```

```
~$ ufw limit ssh/tcp
```

```
~$ ufw allow 9340/tcp
```

```
~$ ufw logging on
```

```
~$ ufw enable
```

```
~$ ufw status
```

< install & update software packages >

```
~$ sudo apt-get install git
```

```
~$ sudo apt-get install build-essential libtool autotools-dev automake  
pkg-config libssl-dev libevent-dev bsdmainutils
```

```
~$ sudo apt-get install libboost-all-dev
```

```
~$ sudo add-apt-repository ppa:bitcoin/bitcoin
```

```
~$ sudo apt-get update
```

```
~$ sudo apt-get install libdb4.8-dev libdb4.8++-dev
```

```
~$ sudo apt-get upgrade
```

```
~$ sudo apt-get install libssl-dev
```

```
~$ sudo apt-get dist-upgrade
```

```
~$ sudo apt-get install pkg-config
```

```
~$ mkdir -p src && cd src
```

< get & install Crowncoin >

```
~/src $ git clone https://github.com/Crowndev/crowncoin.git -b master
```

```
~/src $ cd crowncoin/
```

```
~/src/crowncoin $ ./autogen.sh && ./configure && sudo make install -j 2
```

<this will take a while to execute... >

ALTERNATIVE INSTALLATION – “SCRIPT”

<If you are comfortable with scripts, just log in to the server and...>

```
~$ mkdir bin
```

```
~$ cd bin
```

< open text editor and create a file to hold the list of commands / script >

```
~/bin $ nano startup
```

<Copy & paste the commands below into the editor>

```
#!/bin/bash
cd
sudo apt-get update
sudo apt-get upgrade
sudo apt-get dist-upgrade
apt-get install ufw
ufw allow ssh/tcp
ufw limit ssh/tcp
ufw allow 9340/tcp
ufw logging on
ufw enable
sudo apt-get install git
sudo apt-get install build-essential libtool autotools-dev automake pkg-config libssl-dev
libevent-dev bsdmainutils
sudo apt-get install libboost-all-dev
sudo add-apt-repository ppa:bitcoin/bitcoin
sudo apt-get update
sudo apt-get install libdb4.8-dev libdb4.8++-dev
sudo apt-get upgrade
sudo apt-get dist-upgrade
mkdir -p src && cd src
git clone https://github.com/Crowndev/crowncoin.git -b master
cd crowncoin/
./autogen.sh && ./configure && sudo make install -j 2
```

< Press Ctrl + o then Enter to save the “startup” file. >

< Press Ctrl + x to exit the text editor >

<Give the file the rights to run with root access and run the script>

```
~/bin $ chmod u+x startup
```

```
~/bin $ ./startup
```

<Watch while it goes and approve changes at prompts.>

<once it's done, clean up after yourself and delete the script.>

```
~/src/crowncoin/src $ cd
```

```
~$ rm startup
```

SETTING THE CROWNCoin.CONF FILE TO YOUR THRONE DETAILS

< Next, create the crowncoin.conf file with the data to identify your throne and save it in the

< "~root/.crowncoin/" directory ... first set up the directory and then open the text editor. >

```
~/src/crowncoin $ cd
```

```
~$ mkdir .crowncoin
```

```
~$ cd .crowncoin
```

```
~/crowncoin $ nano crowncoin.conf
```

< PASTE THE TEXT BELOW IN THE EDITOR WITH <VALUES UPDATED> AS APPROPRIATE >

rpcuser=<make any username>

rpcpassword=<make any password>

listen=1

server=1

daemon=1

externalip=<IPv4 Address of Throne Server>

throne=1

throneprivkey=<unique key generated by command 'throne genkey'>

< Press Ctrl + o then Enter to save the Crowncoin.conf file. >

< Press Ctrl + x to exit the text editor >

```
~/crowncoin $ chmod 444 crowncoin.conf
```

< Now everything is installed and the settings are updated, so we just have to start it up. >

```
~/crowncoin $ cd
```

```
~$ cd src/crowncoin/src
```

```
~/src/crowncoin/src $ ./crowncoin
```

< ...it should report that the server has started. >

< use the **crowncoin-cli getinfo** command to monitor the progress syncing the blockchain >

```
~/src/crowncoin/src $ ./crowncoin-cli getinfo
```

< once the blockchain is synced go back to the wallet you will run the throne from and start it up... this is the local side, which involves it's own sets of steps which start before setting up the remote server (sending CRW to an address, generating the throne key, creating throne.conf file with info on one or more thrones to run from wallet)... >

