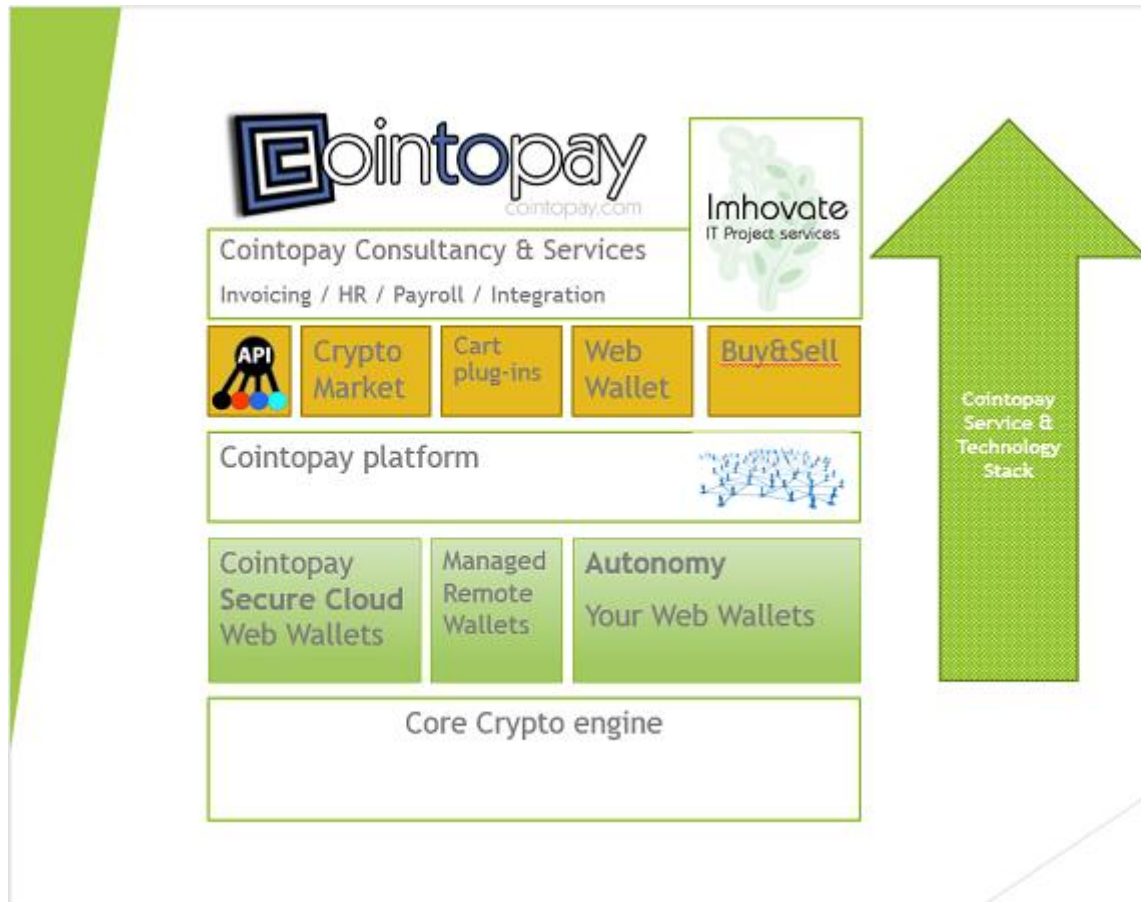


Cointopay International B.V. Crypto Payment Provider you can trust

# Cointopay Autonomy Setup on Linux for Bitcoin, Litecoin and Darkcoin



## Cointopay International B.V. World's first Decentralized payment provider – Go-Live 08-Jul-2014

This document describes the steps required to setup Autonomy for Cointopay customers that do not want to use Cointopay Secure Cloud Web Wallets.

Normally web wallets are hosted by a company, in the past this has led to issues e.g. MtGox and Flexcoin. Via the Autonomy setup our customers are fully in control of their wallets and contributing to the network by storing and communicating actively the blockchain.

### Prerequisites & Assumptions

Assumption is that you have a basic understanding of the unix/linux Operating System

Assumption is that you have setup your own system via any given hosting company like e.g. Google Compute/Amazon or your local desktop for that matter (as long as it's connected to the internet!)

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Assumption is that you are able to open up the relevant firewall ports for Crypto network interoperability (works same as e.g. the torrent network)

Assumption is that you have at least 50GB on /mnt/sda1/bitcoin or /mnt/sda1/litecoin or /mnt/sda1/darkcoin or any other given blockchain download location to enable for future blockchain expansion

#NOTE: Bitcoin/Litecoin/Darkcoin Core initial sync can take a very long time to complete. You should make sure that you have enough bandwidth and storage for the full block chain size.

### Command overview for setup

You don't need to be root to perform these steps, you just need to have sufficient disk space 50GB on /mnt/sda1/ or any other data directory that is accessible by your linux server.

You should have the possibility to run some commands.

#Note: Verify that you are downloading the most accurate version of Bitcoin/Litecoin/Darkcoin

### Linux Shell Commands

#Go to your home folder

```
cd ~
```

```
mkdir cointopay
```

```
chmod +x cointopay
```

```
cd cointopay
```

### THIS DEPENDS ON THE WALLET YOU WANT TO RUN! (Check for latest version)

#for bitcoin

```
wget https://bitcoin.org/bin/0.9.2.1/bitcoin-0.9.2.1-linux.tar.gz
```

#for litecoin

```
wget https://download.litecoin.org/litecoin-0.8.7.2/linux/litecoin-0.8.7.2-linux.tar.xz
```

#for darkcoin download link please check the website darkcoin.io

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#supposedly it is this link, but is not working at time of writing

<https://github.com/darkcoinproject/darkcoin-binaries/blob/master/rc/darkcoind?raw=true>

tar -xzvf <filename>

## GREAT, APPLICATION NOW ABLE TO RUN, BUT NOW THE CONFIGURATION..

#Use respective command below:

nano ~/.bitcoin/bitcoin.conf

nano ~/.bitcoin/litecoin.conf

nano ~/.bitcoin/darkcoin.conf

#add this piece but modify the username and password

rpcuser=yourusername (thinkup your own please!!)

rpcpassword=yourpassword (thinkup your own please!! Make it long minimal 15 characters)

#below is our app server you will receive connections from, we will add more as our service grows.

#Check if your firewall is open for 8332 bitcoin, 9332 litecoin, 9333 darkcoin

rpccallowip=54.72.85.108

rpcssl=1

rpcsslcertificatechainfile=server.cert

rpcsslprivatekeyfile=server.pem

rpcssliphers=DEFAULT:@STRENGTH

#CHANGE below bitcoin to litecoin or darkcoin if required

datadir=/mnt/sda1/bitcoin

CTRL+X

Y

##Config file saved

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##As you might have noticed we will use RPCSSL, this is a must otherwise you will be hacked, we do not except nonSSL connections

##Make sure your SSL package is up to date, also a must otherwise you will get hacked

#openssl version needs to be 1.0.1h-1.76 or higher Reference: Heartbleed bug

```
openssl genrsa -out server.pem 2048
```

```
openssl req -new -x509 -nodes -sha1 -days 3650 -key server.pem > server.cert
```

#you should now have a server.pem and server.cert

#copy them to your datadir (in our example this is /mnt/sda1/bitcoin (change bitcoin for your cointype)

```
cp server.* /mnt/sda1/<coindir>
```

##NOW YOU ARE READY TO GO! Start it! But change <VERSIONNR> first and if necessary the datadir settings

Bitcoin server:

```
cd ~/bitcoin-<VERSIONNR>-linux/bin/64/ ; nohup ./bitcoind -daemon -server=1 -  
conf=~/.bitcoin/bitcoin.conf -datadir=/mnt/sda1/bitcoin &
```

Litecoin server:

```
cd ~/litecoin-<VERSIONNR>-linux/bin/64/ ; nohup ./litecoind -daemon -server=1 -  
conf=~/.litecoin/litecoin.conf -datadir=/mnt/sda1/litecoin &
```

Darkcoin server:

```
cd ~/darkcoin/bin/64/ ; nohup ./darkcoind -daemon -server=1 -conf=~/.darkcoin/darkcoin.conf -  
datadir=/mnt/sda1/darkcoin &
```

DONE WITH SERVER ADJUSMENTS! THANK YOU!

#NOTE: Bitcoin/Litecoin/Darkcoin Core initial sync can take a very long time to complete. During this time you will not be able to use Cointopay Autonomy.

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#You should make sure that you have enough bandwidth and storage for the full block chain size (in our recommendation it's 50GB)

### Please register for a Cointopay account

#Use a good HTML5 browser like Chrome etc.

<https://cointopay.com/index.jsp#Register>

<div><h2>Register for free web wallet</h2><div><input type="text" value="e.g. ShopTitle or MyWallet *"/></div><div><input type="text" value="NickName *"/></div><div><input type="password" value="....."/></div><div><input type="text" value="Email *"/></div><div><div>Autonomy (Your wallets)</div><div>≡</div></div><div><div>English</div><div>≡</div></div><div><b>Register for free</b></div><div><b>Already an account?</b> <a href="#">Login here</a></div></div>	<ol style="list-style-type: none"><li>1) Enter the name of your business or wallet (personal use)</li><li>2) Enter your nickname, password, email adres</li><li>3) Select Autonomy (Your wallet)</li><li>4) Select your language</li><li>5) Click Register</li></ol> <p>Once the Registration completes scroll down to the relevant Autonomy Settings</p>
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## Cointopay International B.V. Crypto Payment Provider you can trust

Autonomy settings	
<b>Bitcoin Autonomy</b>	
Username	<input type="text" value="null"/>
Password	<input type="password" value="...."/>
Server	<input type="text"/> <a href="#">Setup Account (first save)</a>
<b>Litecoin Autonomy</b>	
Username	<input type="text" value="rpcuser"/>
Password	<input type="password" value="....."/>
Server	<input type="text" value="https://server:9332"/> <a href="#">Setup Account (first save)</a>
<b>Darkcoin Autonomy</b>	
Username	<input type="text" value="null"/>
Password	<input type="password" value="...."/>
Server	<input type="text" value="null"/> <a href="#">Setup Account (first save)</a>

Enter the rpcuser and rpcpassword as filled in in your configuration file above.

Enter the server name e.g. https://blabla.org:8332 (8332 is for bitcoin, 9332 port is for litecoin and 9333 is for darkcoin)

**Note: the 8333,9333 or 9999 ports need to be accessible by the whole of the internet, otherwise your wallet will not function**

Now please click on the **save button**, the page will reload. Once your settings are saved click on the "Setup account" link next to your Autonomy server.

If this completes successfully you are setup to receive payments and can further integrate with Cointopay.

In case the Blockchain is not downloaded fully this will fail even if your rpcuser and rpcpassword are provided without fail.

*Add your goods to the Crypto Market or utilize our shopping cart plugins for e.g. Wordpress and Weebly!*

Checkout Cointopay.com in case you need any help or send an email to [support@cointopay.com](mailto:support@cointopay.com)