**Metcoin Mining tutorials**

**Tutorial - Mine for blocks with Microsoft Windows**

Mine for blocks with your Windows wallet and the following instructions.

Click [here](https://dl.walletbuilders.com/download?customer=dae50505f7a8930f01678f423716f2002aa5ec5d29d826c6d9&filename=metcoin-qt-windows.zip) to download the file metcoin-qt-windows.zip.

Open File Explorer and go to your downloads directory.

Extract the zip file metcoin-qt-windows.zip

Open "Run" with the keyboard shortcut winkey + r.

Enter the following text behind "Open": notepad

Press on the button "OK".

Paste the following into notepad.

rpcuser=**rpc\_metcoin**  
rpcpassword=**dR2oBQ3K1zYMZQtJFZeAerhWxaJ5Lqeq9J2**  
rpcallowip=127.0.0.1  
listen=1  
server=1  
addnode=node1.walletbuilders.com

Click on the menu item "File" -> "Save As...".

The open dialog box will appear, click on "Save as type" and select the option "All Files (\*.\*)".

Enter the following text behind "File name": metcoin.conf

Click on the menu bar, type the following text **%appdata%** and press on the enter key. enter

Create the folder metcoin and open the folder.

Press on the button "Save".

Create a new file with the keyboard shortcut ctrl + n.

Paste the following into notepad.

@echo off  
set SCRIPT\_PATH=%cd%  
cd %SCRIPT\_PATH%  
echo Press [CTRL+C] to stop mining.  
:begin  
 metcoin-cli.exe generate 1  
goto begin

Click on the menu item "File" -> "Save As...".

The open dialog box will appear, click on "Save as type" and select the option "All Files (\*.\*)".

Enter the following text behind "File name": mine.bat

Click on the menu bar, open the location where you extracted the zip file metcoin-qt-windows.zip.

Press on the button "Save".

Open your wallet and execute mine.bat to mine your first block.

**Tutorial - Mine for blocks with macOS**

Mine for blocks with your macOS wallet and the following instructions.

Open Spotlight Search and type the following:

terminal

Double click on terminal.

Execute the following command, to open your downloads directory:

cd Downloads

Install Homebrew with the following command:

/bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install.sh)"

Enter your sudo password to install Homebrew.

Install wget with the following command:

brew install wget

Download your macOS wallet with the following command:

wget "https://dl.walletbuilders.com/download?customer=dae50505f7a8930f01678f423716f2002aa5ec5d29d826c6d9&filename=metcoin-qt.dmg" -O metcoin-qt.dmg

Download the macOS tools for your wallet with the following command:

wget "https://dl.walletbuilders.com/download?customer=dae50505f7a8930f01678f423716f2002aa5ec5d29d826c6d9&filename=metcoin-tools-macos.tar.gz" -O metcoin-tools-macos.tar.gz

Extract the tar file with the following command:

tar -xzvf metcoin-tools-macos.tar.gz

Create the data directory for your coin with the following command:

mkdir "$HOME/Library/Application Support/metcoin/"

Open nano.

nano "$HOME/Library/Application Support/metcoin/metcoin.conf" -t

Paste the following into nano.

rpcuser=**rpc\_metcoin**  
rpcpassword=**dR2oBQ3K1zYMZQtJFZeAerhWxaJ5Lqeq9J2**  
rpcallowip=127.0.0.1  
listen=1  
server=1  
addnode=node1.walletbuilders.com

Save the file with the keyboard shortcut ctrl + x.

Open nano.

nano mine.sh -t

Paste the following into nano.

#!/bin/bash  
SCRIPT\_PATH=`pwd`;  
cd $SCRIPT\_PATH  
echo Press [CTRL+C] to stop mining.  
while :  
do  
 ./metcoin-cli generate 1  
done

Save the file with the keyboard shortcut ctrl + x.

Make the file executable.

chmod +x mine.sh

Open your downloads directory in Finder.

Install your macOS wallet with the file metcoin-qt.dmg.

Open your wallet.

Go back to your terminal and execute the following command to mine your first block:

./mine.sh

**Tutorial - Mine for blocks with Raspberry Pi OS**

Mine for blocks with your Raspberry Pi wallet and the following instructions.

Click the Terminal app icon in your dock.

Update your Raspberry Pi with the following command:

sudo apt-get update && sudo apt-get upgrade -y

Install the required dependencies with the following command:

sudo apt-get install build-essential libboost-filesystem-dev libboost-program-options-dev libboost-thread-dev libdb-dev libdb++-dev libminiupnpc-dev curl libssl1.0-dev libboost-all-dev qt5-default libqt5gui5 libqt5core5a libqt5dbus5 qttools5-dev qttools5-dev-tools libprotobuf-dev protobuf-compiler libqrencode-dev cmake doxygen unzip -y

Set the environment variable LD\_LIBRARY\_PATH with the following command:

export LD\_LIBRARY\_PATH="/usr/local/lib"

Execute the following command, to open your downloads directory:

cd Downloads

Create your source code directory with the following commands:

cd ~/Downloads  
mkdir source\_code  
cd source\_code

Download the source code of your coin with the following command:

wget "https://dl.walletbuilders.com/download?customer=dae50505f7a8930f01678f423716f2002aa5ec5d29d826c6d9&filename=metcoin-source.tar.gz" -O metcoin-source.tar.gz

Type the following command to extract the tar file:

tar -xzvf metcoin-source.tar.gz

Build arm-linux-gnueabihf with the following commands:

PATH=$(echo "$PATH" | sed -e 's/:\/mnt.\*//g')  
cd depends  
make HOST=arm-linux-gnueabihf  
cd ..

Type the following commands to compile your wallet for Raspberry Pi.

./autogen.sh  
CONFIG\_SITE=$PWD/depends/arm-linux-gnueabihf/share/config.site ./configure --prefix=/  
make

Create the data directory for your coin with the following command.

mkdir $HOME/.metcoin

Open nano.

nano $HOME/.metcoin/metcoin.conf -t

Paste the following into nano.

rpcuser=**rpc\_metcoin**  
rpcpassword=**dR2oBQ3K1zYMZQtJFZeAerhWxaJ5Lqeq9J2**  
rpcallowip=127.0.0.1  
listen=1  
server=1  
addnode=node1.walletbuilders.com

Save the file with the keyboard shortcut ctrl + x.

Go to the directory metcoin-qt-raspberry.

cd metcoin-qt-raspberry

Open nano.

nano mine.sh -t

Paste the following into nano.

#!/bin/bash  
SCRIPT\_PATH=`pwd`;  
cd $SCRIPT\_PATH  
echo Press [CTRL+C] to stop mining.  
while :  
do  
 ./metcoin-cli generate 1  
done

Save the file with the keyboard shortcut ctrl + x.

Make the file executable.

chmod +x mine.sh

Open your wallet with the following command:

cd src/qt/ && ./metcoin-qt

Execute the following command to mine your first block:

./mine.sh

**Tutorial - Install a block explorer on Ubuntu Server 18.04**

Install a block explorer on Ubuntu Server 18.04 with the following tutorial.

Update your Ubuntu server with the following command:

sudo apt-get update && sudo apt-get upgrade -y

Install the required dependencies with the following command:

sudo apt-get install build-essential libtool autotools-dev automake pkg-config libssl-dev libevent-dev bsdmainutils python3 libboost-system-dev libboost-filesystem-dev libboost-chrono-dev libboost-test-dev libboost-thread-dev libboost-all-dev libboost-program-options-dev -y

Install the additional dependencies with the following command:

sudo apt-get install libminiupnpc-dev libzmq3-dev libprotobuf-dev protobuf-compiler unzip software-properties-common libkrb5-dev mongodb nodejs npm git nano cmake screen -y

Install the repository ppa:bitcoin/bitcoin with the following command:

sudo add-apt-repository ppa:bitcoin/bitcoin

Confirm the installation of the repository by pressing on the enter key. enter

Install Berkeley DB with the following command:

sudo apt-get update && sudo apt-get install libdb4.8-dev libdb4.8++-dev -y

Download the Linux daemon for your wallet with the following command:

wget "https://dl.walletbuilders.com/download?customer=dae50505f7a8930f01678f423716f2002aa5ec5d29d826c6d9&filename=metcoin-daemon-linux.tar.gz" -O metcoin-daemon-linux.tar.gz

Extract the tar file with the following command:

tar -xzvf metcoin-daemon-linux.tar.gz

Download the Linux tools for your wallet with the following command:

wget "https://dl.walletbuilders.com/download?customer=dae50505f7a8930f01678f423716f2002aa5ec5d29d826c6d9&filename=metcoin-qt-linux.tar.gz" -O metcoin-qt-linux.tar.gz

Extract the tar file with the following command:

tar -xzvf metcoin-qt-linux.tar.gz

Type the following command to install the daemon and tools for your wallet:

sudo mv metcoind metcoin-cli metcoin-tx /usr/bin/

Type the following command to open your home directory:

cd $HOME

Create the data directory for your coin with the following command:

mkdir $HOME/.metcoin

Open nano.

nano $HOME/.metcoin/metcoin.conf -t

Paste the following text into nano.

rpcuser=rpc\_metcoin  
rpcpassword=dR2oBQ3K1zYMZQtJFZeAerhWxaJ5Lqeq9J2  
rpcallowip=127.0.0.1  
listen=1  
server=1  
txindex=1  
daemon=1  
addnode=node1.walletbuilders.com

Save the file with the keyboard shortcut ctrl + x.

Type the following command to start your daemon:

metcoind

Type the following command to open MongoDB:

mongo

Type the following command to create a MongoDB database named “explorerdb”:

use explorerdb

Type the following command to create a MongoDB user named “iquidus”:

db.createUser( { user: "iquidus", pwd: "414uq3EhKDNX76f7DZIMszvHrDMytCnzFevRgtAv", roles: [ "readWrite" ] } )

Type the following command to close MongoDB:

exit

Type the following command to clone iquidus-explorer:

git clone https://github.com/walletbuilders/explorer.git explorer

Type the following command to install iquidus-explorer:

cd explorer && npm install --production

Type the following command to create the file settings.json:

cp ./settings.json.template ./settings.json

Open nano.

nano settings.json -t

Modify the following values in the file settings.json

**title** - “IQUIDUS” -> “metcoin”.

**address** - Change the value “127.0.0.1” with the IPv4 address of your server.

**coin** - “Darkcoin” -> “metcoin”.

**symbol** - “DRK” -> “MTC”.

**password** - “3xp!0reR” -> “414uq3EhKDNX76f7DZIMszvHrDMytCnzFevRgtAv”.

**use\_rpc** - “false” -> “true”.

**port** - “9332” -> “24519”.

**user** - “darkcoinrpc” -> “rpc\_metcoin”.

**pass** - 123gfjk3R3pCCVjHtbRde2s5kzdf233sa” -> “dR2oBQ3K1zYMZQtJFZeAerhWxaJ5Lqeq9J2”.

**confirmations** - “40” -> “20”.

**api** - “true” -> “false”.

**markets** - “true” -> “false”.

**twitter** - “true” -> “false”.

Save the file with the keyboard shortcut ctrl + x.

Type the following command to open a screen session:

screen

Type the following commands to start your block explorer:

cd $HOME/explorer  
npm start

Press the keyboard shortcut ctrl + a + d to disconnect from your screen session.

Type the following command to open crontab:

crontab -e

Press the Page Down key on your keyboard PgDown.

Paste the following text into crontab.

@reboot metcoind  
\*/1 \* \* \* \* cd /root/explorer && /usr/bin/nodejs scripts/sync.js index update > /dev/null 2>&1  
\*/5 \* \* \* \* cd /root/explorer && /usr/bin/nodejs scripts/peers.js > /dev/null 2>&1

Save the crontab with the keyboard shortcut ctrl + x

Confirm that you want to save the crontab with the keyboard shortcut y + enter

#### Tutorial - Install a mining pool on Ubuntu Server 18.04

Install a mining pool on Ubuntu Server 18.04 with the following tutorial.

Update your Ubuntu server with the following command:

sudo apt-get update && sudo apt-get upgrade -y

Install the required dependencies with the following command:

sudo apt-get install build-essential libtool autotools-dev automake pkg-config libssl-dev libevent-dev bsdmainutils python3 libboost-system-dev libboost-filesystem-dev libboost-chrono-dev libboost-test-dev libboost-thread-dev libboost-all-dev libboost-program-options-dev -y

Install the additional dependencies with the following command:

sudo apt-get install libminiupnpc-dev libzmq3-dev libprotobuf-dev protobuf-compiler unzip software-properties-common redis-server npm git nano cmake screen -y

Install the repository ppa:bitcoin/bitcoin with the following command:

sudo add-apt-repository ppa:bitcoin/bitcoin

Confirm the installation of the repository by pressing on the enter key. enter

Install Berkeley DB with the following command:

sudo apt-get update && sudo apt-get install libdb4.8-dev libdb4.8++-dev -y

Download the Linux daemon for your wallet with the following command:

wget "https://dl.walletbuilders.com/download?customer=dae50505f7a8930f01678f423716f2002aa5ec5d29d826c6d9&filename=metcoin-daemon-linux.tar.gz" -O metcoin-daemon-linux.tar.gz

Extract the tar file with the following command:

tar -xzvf metcoin-daemon-linux.tar.gz

Download the Linux tools for your wallet with the following command:

wget "https://dl.walletbuilders.com/download?customer=dae50505f7a8930f01678f423716f2002aa5ec5d29d826c6d9&filename=metcoin-qt-linux.tar.gz" -O metcoin-qt-linux.tar.gz

Extract the tar file with the following command:

tar -xzvf metcoin-qt-linux.tar.gz

Type the following command to install the daemon and tools for your wallet:

sudo mv metcoind metcoin-cli metcoin-tx /usr/bin/

Type the following command to open your home directory:

cd $HOME

Create the data directory for your coin with the following command:

mkdir $HOME/.metcoin

Open nano.

nano $HOME/.metcoin/metcoin.conf -t

Paste the following into nano.

rpcuser=rpc\_metcoin  
rpcpassword=dR2oBQ3K1zYMZQtJFZeAerhWxaJ5Lqeq9J2  
rpcallowip=127.0.0.1  
listen=1  
server=1  
txindex=1  
daemon=1  
paytxfee=0.0002  
deprecatedrpc=accounts  
addresstype=legacy  
addnode=node1.walletbuilders.com

Save the file with the keyboard shortcut ctrl + x.

Type the following command to start your daemon:

metcoind

Type the following command to show the receiving address of your daemon:

metcoin-cli getaccountaddress ""

Example output.

4UyrFQrAoNQMEMqNhZTareRmjeU68bLiop

Type the following commands to install NOMP:

git clone https://github.com/walletbuilders/node-open-mining-portal.git nomp  
cd nomp  
npm update

Type the following command to create the file settings.json:

cp config\_example.json config.json

Open nano.

nano config.json -t

Modify the following values in the file config.json.

**host** - Change the value “0.0.0.0” with the IPv4 address of your server.

**stratumHost** - Change the value “cryppit.com” with the IPv4 address of your server.

Save the file with the keyboard shortcut ctrl + x.

Type the following commands to create the config file for your coin:

cd coins  
cp bitcoin.json metcoin.json

Open nano.

nano metcoin.json -t

Modify the following values in the file metcoin.json.

**name** - “Bitcoin” -> “metcoin”.

**symbol** - “BTC” -> “MTC”.

Save the file with the keyboard shortcut ctrl + x.

Type the following commands to create the config file for your pool:

cd ../pool\_configs  
cp litecoin\_example.json metcoin\_pool.json

Open nano.

nano metcoin\_pool.json -t

Modify the following values in the file metcoin.json.

**enabled** - “false” -> “true”.

**coin** - “litecoin.json” -> “metcoin.json”.

**address** - “n4jSe18kZMCdGcZqaYprShXW6EH1wivUK1” -> Enter the receiving address from the RPC command “getaccountaddress ""”.

**rewardRecipients** - Remove all recipients.

**minimumPayment** - “70” -> “0.01”.

**"paymentProcessing" -> port** - “19332” -> “24519”.

**"paymentProcessing" -> user** - “testuser” -> “rpc\_metcoin”.

**"paymentProcessing" -> password** - “testpass” -> “dR2oBQ3K1zYMZQtJFZeAerhWxaJ5Lqeq9J2”.

**"daemons" -> port** - “19332” -> “24519”.

**"daemons" -> user** - “testuser” -> “rpc\_metcoin”.

**"daemons" -> password** - “testpass” -> “dR2oBQ3K1zYMZQtJFZeAerhWxaJ5Lqeq9J2”.

**p2p** - “true” -> “false”.

Save the file with the keyboard shortcut ctrl + x.

Type the following command to open a screen session:

screen

Type the following commands to start your mining pool:

cd $HOME/nomp  
sudo node init.js

Press the keyboard shortcut ctrl + a + d to disconnect from your screen session.

##### **Instructions to mine with your mining pool.**

Open your wallet.

Go to Help -> Debug Window.  
Click on the tab Console.  
This is the console where you execute RPC commands.

Type the following command, to create a legacy receiving address for your miner:

getnewaddress "" "legacy"

Example output.

4UyrFQrAoNQMEMqNhZTareRmjeU68bLiop

Click [here](https://github.com/walletbuilders/cpuminer/releases/download/v2.5.0/pooler-cpuminer-2.5.0-win64.zip) to download cpuminer and extract the zip file.

Open "Run" with the keyboard shortcut winkey + r.

Enter the following text behind "Open": notepad

Press on the button "OK".

Modify the following values in the following text.

minerd -a sha256d -o stratum+tcp://203.0.113.53:3008 -u 4UyrFQrAoNQMEMqNhZTareRmjeU68bLiop -p anything

**203.0.113.53** - “203.0.113.53” -> IPv4 address of your VPS.

**4UyrFQrAoNQMEMqNhZTareRmjeU68bLiop** - “TP56yqPtRTkse49B96sHzo2B6v48MV24vP” -> Receiving address from the RPC command “getnewaddress” for your miner.

Paste the modified text into notepad.

Click on the menu item "File" -> "Save As...".

The Open dialog box will appear, click on "Save as type" and select the option "All Files (\*.\*)".

Enter the following text behind "File name": mine.bat

Click on the menu bar, open the directory where you extracted pooler-cpuminer-2.5.0-win64.zip and press on the enter key. enter

Press on the button "Save".

Execute mine.bat to mine with your mining pool.

**Tutorial - Install a web wallet on Ubuntu Server 18.04**

Install a web wallet on Ubuntu Server 18.04 with the following tutorial.

Update your Ubuntu server with the following command:

sudo apt-get update && sudo apt-get upgrade -y

Install the required dependencies with the following command:

sudo apt-get install build-essential libtool autotools-dev automake pkg-config libssl-dev libevent-dev bsdmainutils python3 libboost-system-dev libboost-filesystem-dev libboost-chrono-dev libboost-test-dev libboost-thread-dev libboost-all-dev libboost-program-options-dev libminiupnpc-dev libzmq3-dev libprotobuf-dev protobuf-compiler libqrencode-dev unzip software-properties-common git screen -y

Install the repository ppa:bitcoin/bitcoin with the following command:

sudo add-apt-repository ppa:bitcoin/bitcoin

Confirm the installation of the repository by pressing on the enter key. enter

Install Berkeley DB with the following command:

sudo apt-get update && sudo apt-get install libdb4.8-dev libdb4.8++-dev -y

Download the Linux daemon for your wallet with the following command:

wget "https://dl.walletbuilders.com/download?customer=dae50505f7a8930f01678f423716f2002aa5ec5d29d826c6d9&filename=metcoin-daemon-linux.tar.gz" -O metcoin-daemon-linux.tar.gz

Extract the tar file with the following command:

tar -xzvf metcoin-daemon-linux.tar.gz

Download the Linux tools for your wallet with the following command:

wget "https://dl.walletbuilders.com/download?customer=dae50505f7a8930f01678f423716f2002aa5ec5d29d826c6d9&filename=metcoin-qt-linux.tar.gz" -O metcoin-qt-linux.tar.gz

Extract the tar file with the following command:

tar -xzvf metcoin-qt-linux.tar.gz

Type the following command to install the daemon and tools for your wallet:

sudo mv metcoind metcoin-cli metcoin-tx /usr/bin/

Create the data directory for your coin with the following command:

mkdir $HOME/.metcoin

Open nano.

nano $HOME/.metcoin/metcoin.conf -t

Paste the following into nano.

rpcuser=rpc\_metcoin  
rpcpassword=dR2oBQ3K1zYMZQtJFZeAerhWxaJ5Lqeq9J2  
rpcallowip=127.0.0.1  
listen=1  
server=1  
txindex=1  
daemon=1  
paytxfee=0.0002  
deprecatedrpc=accounts  
addresstype=legacy

Save the file with the keyboard shortcut ctrl + x.

Type the following command to start your daemon:

metcoind

Type the following command to show the receiving address of your daemon:

metcoin-cli getaccountaddress ""

Example output.

4UyrFQrAoNQMEMqNhZTareRmjeU68bLiop

Install the repository ppa:ondrej/php with the following command:

sudo add-apt-repository -y ppa:ondrej/php

Confirm the installation of the repository by pressing on the enter key. enter

Install PHP 5.6 with the following command:

sudo apt-get update && sudo apt-get install git apache2 php5.6 php5.6-mysql php5.6-gd libapache2-mod-php5.6 mysql-server -y

Type the following commands to clone piWallet:

git clone https://github.com/walletbuilders/piWallet

Type the following command to copy piWallet to the directory /var/www:

sudo mv piWallet/\* /var/www/html/

Type the following command to open MySQL:

mysql

Type the following command to create a MySQL database named “wallet”:

CREATE DATABASE wallet;

Type the following command to create a MySQL user named “wallet\_user”:

CREATE USER 'wallet\_user'@'localhost' IDENTIFIED BY 'Ee4cxBN6VaThkAr4fKigzWR7veDPZlvU1dVzYg4H';

Grant the MySQL user named “wallet\_user” rights to the database named “wallet”:

GRANT ALL PRIVILEGES ON wallet.\* TO 'wallet\_user'@'localhost';

Type the following command to open the database named “wallet”:

USE wallet;

Paste the content of the file [users.sql](https://raw.githubusercontent.com/walletbuilders/piWallet/master/users.sql" \o "users.sql" \t "_blank) into the console of MySQL.

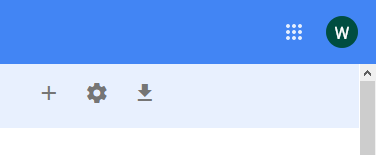
Type the following command to close MySQL:

exit

Open a web browser on your computer and go to the following page <https://www.google.com/recaptcha>

Login with your Google account.

Click on the plus sign to register a new site.



Fill-in the form.

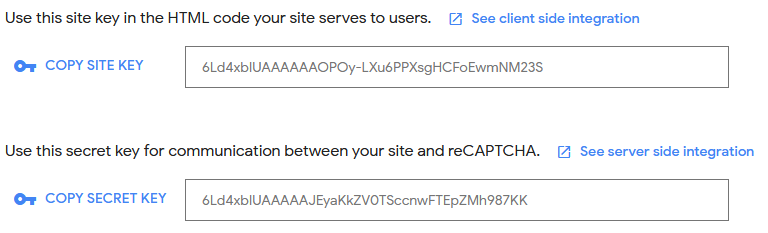
**Label** - Label to identify your site.

**reCAPTCHA type** - Select the option “reCAPTCHA v2”.

**Domains** - Subdomain/domain for your web wallet.

Accept the reCAPTCHA Terms of Service and click on the button “submit” to register your site.  
Your reCAPTCHA site and secret key will be visible when the site is registered.

Example reCAPTCHA keys.



Create the the file settings.php.

sudo cp /var/www/html/settings-example.php /var/www/html/settings.php

Open nano.

sudo nano /var/www/html/settings.php -t

Modify the following values in the file settings.php.

**$db\_user** - “root” -> “wallet\_user”.

**$db\_pass** - “password” -> “Ee4cxBN6VaThkAr4fKigzWR7veDPZlvU1dVzYg4H”.

**$rpc\_port** - “8332” -> “24519”.

**$rpc\_user** - “bitcoinrpc” -> “rpc\_metcoin”.

**$rpc\_pass** - “Cp68nBkCAADKkskaKSskaDKdmSYLtLJ” -> “dR2oBQ3K1zYMZQtJFZeAerhWxaJ5Lqeq9J2”.

**$fullname** - “Bitcoin” -> “metcoin”.

**$short** - “BTC” -> “MTC”.

**$blockchain\_tx\_url** - Replace the value “http://blockchain.info/tx/” with the URL of your block explorer.

**$support** - Replace the value “support@yourwebsite.com” with your support email address.

**$donation\_address** - Enter the receiving address from the RPC command “getaccountaddress”.

**$public** - “Recaptcha\_publickey\_here” replace with your reCAPTCHA site key.

**$secret** - “Recaptcha\_privatekey\_here” replace with your reCAPTCHA secret key.

Save the file with the keyboard shortcut ctrl + x.

Install the repository ppa:certbot/certbot (Let’s Encrypt) with the following command:

sudo add-apt-repository universe && sudo add-apt-repository ppa:certbot/certbot

Confirm the installation of the repository by pressing on the enter key. enter

Install certbot with the following command:

sudo apt-get update && sudo apt-get install certbot python-certbot-apache -y

Install a SSL certificate for your web wallet.

sudo certbot --apache

Enter your support email address.

Enter email address (used for urgent renewal and security notices) (Enter 'c' to cancel):  
  
support@example.com

Agree with the Let's Encrypt Terms of Service.

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -  
Please read the Terms of Service at  
https://letsencrypt.org/documents/LE-SA-v1.2-November-15-2017.pdf. You must  
agree in order to register with the ACME server at  
https://acme-v02.api.letsencrypt.org/directory  
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -  
(A)gree/(C)ancel:

Press the a and enter key to agree with the Terms of Service.

Agree to share your email address with Let's Encrypt.

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -  
Would you be willing to share your email address with the Electronic Frontier  
Foundation, a founding partner of the Let's Encrypt project and the non-profit  
organization that develops Certbot? We'd like to send you email about our work  
encrypting the web, EFF news, campaigns, and ways to support digital freedom.  
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -  
(Y)es/(N)o:

Press the n and enter key to not share your email address.

Enter the hostname to access your web wallet.

No names were found in your configuration files. Please enter in your domain name(s) (comma and/or space separated) (Enter 'c' to cancel):  
  
wallet.example.com

Redirect HTTP traffic to HTTPS.

Please choose whether or not to redirect HTTP traffic to HTTPS, removing HTTP access.  
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -  
1: No redirect - Make no further changes to the webserver configuration.  
2: Redirect - Make all requests redirect to secure HTTPS access. Choose this for  
new sites, or if you're confident your site works on HTTPS. You can undo this  
change by editing your web server's configuration.  
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -  
Select the appropriate number [1-2] then [enter] (press 'c' to cancel):

Press the 2 and enter key to redirect HTTP traffic to HTTPS.

Remove the default index.html file with the following command:

sudo rm /var/www/html/index.html

The default admin credentials are:

Username - **piWallet**  
Password – **changeme**

Tutorial - Compile Windows wallet on Ubuntu Server 18.04

Compile a wallet for Microsoft Windows on Ubuntu Server 18.04 with the following tutorial.

Update your Ubuntu server with the following command:

sudo apt-get update && sudo apt-get upgrade -y

Install the required dependencies with the following command:

sudo apt-get install build-essential libtool autotools-dev automake pkg-config libssl-dev libevent-dev bsdmainutils python3 curl libboost-system-dev libboost-filesystem-dev libboost-chrono-dev libboost-test-dev libboost-thread-dev libboost-all-dev libboost-program-options-dev libminiupnpc-dev libzmq3-dev libgmp3-dev libqt5gui5 libqt5core5a libqt5dbus5 qttools5-dev qttools5-dev-tools libprotobuf-dev protobuf-compiler libqrencode-dev unzip doxygen cmake nsis wine-stable wine64 bc -y

Install the repository ppa:bitcoin/bitcoin with the following command:

sudo add-apt-repository ppa:bitcoin/bitcoin

Confirm the installation of the repository by pressing on the enter key. enter

Install Berkeley DB with the following command:

sudo apt-get update && sudo apt-get install libdb4.8-dev libdb4.8++-dev -y

Create your source code directory with the following commands:

cd ~/  
mkdir source\_code  
cd source\_code

Download the source code of your coin with the following command:

wget "https://dl.walletbuilders.com/download?customer=dae50505f7a8930f01678f423716f2002aa5ec5d29d826c6d9&filename=metcoin-source.tar.gz" -O metcoin-source.tar.gz

Type the following command to extract the tar file:

tar -xzvf metcoin-source.tar.gz  
  
**64-bit**

Install the required dependencies with the following command:

sudo apt-get install g++-mingw-w64-x86-64 -y

Set the default x86\_64-w64-mingw32-g++ compiler option to posix with the following command:

sudo update-alternatives --set x86\_64-w64-mingw32-g++ /usr/bin/x86\_64-w64-mingw32-g++-posix

Build x86\_64-w64-mingw32 with the following commands:

PATH=$(echo "$PATH" | sed -e 's/:\/mnt.\*//g')  
cd depends  
make HOST=x86\_64-w64-mingw32  
cd ..

Type the following commands to compile your 64 bit wallet for Microsoft Windows.

./autogen.sh  
CONFIG\_SITE=$PWD/depends/x86\_64-w64-mingw32/share/config.site ./configure --prefix=/  
make  
  
**32-bit**

Type the following command to clean your source code:

make clean

Install the required dependencies with the following command:

sudo apt-get install g++-mingw-w64-i686 mingw-w64-i686-dev -y

Set the default i686-w64-mingw32-gcc and i686-w64-mingw32-g++ compiler option to posix with the following commands.

sudo update-alternatives --set i686-w64-mingw32-gcc /usr/bin/i686-w64-mingw32-gcc-posix  
sudo update-alternatives --set i686-w64-mingw32-g++ /usr/bin/i686-w64-mingw32-g++-posix

Build i686-w64-mingw32 with the following commands:

PATH=$(echo "$PATH" | sed -e 's/:\/mnt.\*//g')  
cd depends  
make HOST=i686-w64-mingw32  
cd ..

Type the following commands to compile your 32 bit wallet for Microsoft Windows.

./autogen.sh  
CONFIG\_SITE=$PWD/depends/i686-w64-mingw32/share/config.site ./configure --prefix=/  
make

The compiled wallet for Microsoft Windows is located in the directory **src/qt**, the tools are located in the directory **src**.

Tutorial - Install node on Ubuntu Server 18.04

Install a node for your coin on Ubuntu Server 18.04 with the following tutorial.

Update your Ubuntu server with the following command:

sudo apt-get update && sudo apt-get upgrade -y

Install the required dependencies with the following command:

sudo apt-get install build-essential libtool autotools-dev automake pkg-config libssl-dev libevent-dev bsdmainutils python3 libboost-system-dev libboost-filesystem-dev libboost-chrono-dev libboost-test-dev libboost-thread-dev libboost-all-dev libboost-program-options-dev libminiupnpc-dev libzmq3-dev libprotobuf-dev protobuf-compiler unzip software-properties-common cmake -y

Install the repository ppa:bitcoin/bitcoin with the following command:

sudo add-apt-repository ppa:bitcoin/bitcoin

Confirm the installation of the repository by pressing on the enter key. enter

Install Berkeley DB with the following command:

sudo apt-get update && sudo apt-get install libdb4.8-dev libdb4.8++-dev -y

Download the Linux daemon for your wallet with the following command:

wget "https://dl.walletbuilders.com/download?customer=dae50505f7a8930f01678f423716f2002aa5ec5d29d826c6d9&filename=metcoin-daemon-linux.tar.gz" -O metcoin-daemon-linux.tar.gz

Extract the tar file with the following command:

tar -xzvf metcoin-daemon-linux.tar.gz

Download the Linux tools for your wallet with the following command:

wget "https://dl.walletbuilders.com/download?customer=dae50505f7a8930f01678f423716f2002aa5ec5d29d826c6d9&filename=metcoin-qt-linux.tar.gz" -O metcoin-qt-linux.tar.gz

Extract the tar file with the following command:

tar -xzvf metcoin-qt-linux.tar.gz

Type the following command to install the daemon and tools for your wallet:

sudo mv metcoind metcoin-cli metcoin-tx /usr/bin/

Create the data directory for your coin with the following command:

mkdir $HOME/.metcoin

Open nano.

nano $HOME/.metcoin/metcoin.conf -t

Paste the following into nano.

rpcuser=rpc\_metcoin  
rpcpassword=dR2oBQ3K1zYMZQtJFZeAerhWxaJ5Lqeq9J2  
rpcallowip=127.0.0.1  
listen=1  
server=1  
txindex=1  
daemon=1

Save the file with the keyboard shortcut ctrl + x.

Type the following command to start your node:

metcoind