

Install btcpool on FreeBSD

04/18/2017 09:16 PM - Daniel Curtis

Status:	Suspended	Start date:	04/18/2017
Priority:	Normal	Due date:	
Assignee:	Daniel Curtis	% Done:	0%
Category:	Cryptocurrency	Estimated time:	2.00 hours
Target version:	FreeBSD 10	Spent time:	0.00 hour

Description

This is a guide for setting up btcpool on FreeBSD 10.

**WARNING:** This fails to build on FreeBSD 10 at the moment 4/25/17

Prepare the Environment

- Make sure the system is up to date:

```
pkg update && pkg upgrade
portsnap fetch extract
```

- Create a btcpool user:

```
pw add user -n btcpool -s /sbin/nologin -c "BTC Pool"
```

- Install a few dependencies:

```
pkg install gcc git gmake portmaster autotools libtool autoconf automake cmake openssl boost-libs gmp libconfig libzmq4 glog librdkafka libevent
```

- Install Zookeeper and ensure its running, refer to issue [#890](#)

```
service zookeeper start
```

- Install Kafka and ensure its running, refer to issue [#891](#)

```
service kafka start
```

- Add the following to the make.conf file to enable ZMQ while compiling from ports:

```
echo 'OPTIONS_UNSET+= DOCS NLS X11 EXAMPLES' >> /etc/make.conf
echo 'OPTIONS_SET+= ZMQ' >> /etc/make.conf
```

- Compile bitcoin-daemon from ports:

```
portmaster net-p2p/bitcoin
```

- Compile bitcoin-daemon from ports:

```
portmaster net-p2p/bitcoin-daemon
```

## Install MySQL Server

- Start by installing the mariadb100-server and mariadb100-client packages:

```
pkg install mariadb100-{server,client}
```

- Copy a base MySQL configuration to use:

```
cp /usr/local/share/mysql/my-small.cnf /var/db/mysql/my.cnf
```

- Enable and start mysql at boot:

```
echo 'mysql_enable="YES"' >> /etc/rc.conf  
service mysql-server start
```

- Prepare the database for use by running the secure installation:  
**NOTE:** Choose a strong root password and answer yes to all questions.

```
mysql_secure_installation
```

## Create Databases and Users

- Login to MySQL and create appropriate databases and users.

```
mysql -u root -p
```

- And run the following SQL queries to create the btcpooldb database and btcpooluser user:

```
CREATE DATABASE btcpooldb CHARACTER SET utf8;  
  
CREATE USER 'btcpooluser'@'localhost' IDENTIFIED BY 'SuperSecretPassword';  
  
GRANT ALL PRIVILEGES ON btcpooldb.* TO 'btcpooluser'@'localhost';  
  
FLUSH PRIVILEGES;  
  
quit
```

## Install btcpool

- Download the latest version of btcpool from GitHub:

```
git clone https://github.com/btccom/btcpool.git /usr/local/btcpool
```

- Build btcpool using gcc:

```
cd /usr/local/btcpool
```

```
mkdir build && cd build
env CC=gcc48 CXX=g++48 CPP=cpp48 cmake -DCMAKE_C_COMPILER=gcc48 -DCMAKE_CXX_COMPILER=g++48 -DCMAKE_BUILD_TYPE=Release ..
env CC=gcc48 CXX=g++48 CPP=cpp48 gmake
```

## Initialize btcpool

## Create Kafka Topics

## Init MySQL database tables

## User list API

## Init script

## Resources

- <https://github.com/btccom/btcpool>
- <https://github.com/btccom/btcpool/blob/master/INSTALL.md>

## History

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**#1 - 04/19/2017 09:22 PM - Daniel Curtis**

- Description updated

**#2 - 04/24/2017 09:38 PM - Daniel Curtis**

- Description updated

**#3 - 04/25/2017 08:11 PM - Daniel Curtis**

- Description updated

- Status changed from New to Suspended