FreeBSD Administration - Support #883

Install Open-Source-Billing on FreeBSD

02/01/2017 05:00 PM - Daniel Curtis

Status:	Closed		**Start date:**	02/01/2017
Priority:	Normal		**Due date:**	
Assignee:	Daniel Curtis		**% Done:**	100%
Category:	Web Server		**Estimated time:**	1.50 hour
Target version:	FreeBSD 10		**Spent time:**	1.50 hour

Description

This is a guide for setting up the Open-Source-Billing web app on FreeBSD 10.

Prepare the Environment

- Make sure the system is up to date:

```
pkg update && pkg upgrade
```

- Install a few dependencies:

```
pkg install git sudo bash autoconf automake libtool bison readline sqlite3 gdbm gmake v8 Image
Magick-nox11 wkhtmltopdf
```

Install MariaDB server

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

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

- Copy a base MariaDB configuration to use:

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

- Edit the mariadb config to change the max packet size:

```
vi /var/db/mysql/my.cnf
```

  - and modify max_allowed_packet to 32M

```
max_allowed_packet = 32M
```

- Enable and start MariaDB

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

- Prepare the database for use by running the secure installation:

```
mysql_secure_installation
```

- **NOTE**: <u>Choose a strong root password</u> and answer <u>yes</u> to all questions.

Create MariaDB Databases and Users

- Login to MariaDB and create appropriate databases and users.

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

- and run the following SQL queries to create the **osbdb** database and **osbuser** user:

```
CREATE DATABASE osbdb CHARACTER SET utf8;

CREATE USER 'osbuser'@'localhost' IDENTIFIED BY 'SuperSecretPassword';

GRANT ALL PRIVILEGES ON osbdb.* TO 'osbuser'@'localhost';

FLUSH PRIVILEGES;

quit
```

Install RVM

- Change the default shell to bash:

```
chsh
```

- Switch to the temp directory:

```
cd /tmp
```

- Download the RVM installer script:

```
fetch https://get.rvm.io -o installer.sh
```

- Install the latest stable release of RVM:

```
bash installer.sh stable
```

- Setup the required ruby version:

```
rvm install 2.0.0
```

Install Open-Source-Billing

- Add the osb user

```
pw add user -m -n osb -s /usr/local/bin/bash -G rvm -c "Open Source Billing"
```

- Make the web directory:

```
mkdir -p /usr/local/www
cd /usr/local/www
```

- Clone the open-source-billing repo from GitHub:

```
git clone https://github.com/vteams/open-source-billing osb
```

- Change the permissions to osb:

```
chown -R osb /usr/local/www/osb
```

- Switch to the osb user and set the default ruby version:

```
su - osb
cd /usr/local/www/osb
rvm use 2.0.0 --default
```

- Install bundler:

```
gem install bundler
```

- Switch to the osb directory and setup bundler to use the system version of v8:

```
bundle config build.libv8 --with-system-v8
```

- Install the required gems:

```
bundle install
```

- Copy the example open-source-billing config file:

```
cp config/config.yml.copy config/config.yml
```

- Copy the example environment config file:

```
cp config/environments/production.rb.copy config/environments/production.rb
```

- Copy the example database config:

```
cp config/database.yml.backup config/database.yml
```

  - And update the config app host location:

```
production:
  app_host: '192.168.1.100'
  app_protocol: http
```

```
      wkhtmltopdf_path: /usr/local/rvm/gems/ruby-2.0.0-p648/bin/wkhtmltopdf
```

- Edit the database config:

```
vi config/database.yml
```

    - And set the mysql username/password

```
production:
  adapter: mysql2
  encoding: utf8
  reconnect: false
  database: osbdb
  pool: 5
  username: osbuser
  password: SuperSecretPassword
  host: localhost
```

- Create the database tables needed to run:

```
RAILS_ENV=production rake db:migrate
```

- Test the server with:

```
rails s -b 0.0.0.0
```

Resources

- https://github.com/vteams/open-source-billing

History

#1 - 02/02/2017 03:42 PM - Daniel Curtis

- Description updated

#2 - 02/02/2017 06:16 PM - Daniel Curtis

- Description updated

#3 - 02/02/2017 06:32 PM - Daniel Curtis

- Description updated

- Status changed from New to Resolved

- % Done changed from 0 to 100

#4 - 06/04/2017 08:54 PM - Daniel Curtis

- Status changed from Resolved to Closed