

## GNU/Linux Administration - Support #566

### Install BeansBooks on a Debian LAMP Server

02/20/2015 02:10 PM - Daniel Curtis

<b>Status:</b>	Closed	<b>Start date:</b>	02/09/2015
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Daniel Curtis	<b>% Done:</b>	100%
<b>Category:</b>	Accounting Service	<b>Estimated time:</b>	1.50 hour
<b>Target version:</b>	Debian	<b>Spent time:</b>	2.00 hours

#### Description

This is a simple guide for setting up an instance of BeansBooks on a LAMP server.

## Preparing The Server

- Obtain a root shell and upgrade the server:

```
sudo -s  
apt-get update && apt-get upgrade
```

- Set the hostname in the hosts:

```
vi /etc/hosts
```

- And add/modify the following:

```
127.0.1.1    beans.example.com beans
```

- And also edit the hostname file:

```
vi /etc/hostname
```

- And add/modify the following:

```
beans
```

- Reboot to apply the hostname settings:

```
reboot
```

## Installing BeansBooks

- Install a few prerequisite packages:

```
apt-get install apache2 php5 libapache2-mod-php5 php5-cli php5-mysql php5-mcrypt php5-gd mysql  
-server mysql-client git openssl
```

- Clone BeansBooks

```
cd /var
```

```
mv www www.old
git clone --recursive https://github.com/system76/beansbooks.git www
cd www
```

## Configure BeansBooks

- Copy the example.htaccess file to .htaccess within your working directory

```
cp example.htaccess .htaccess
```

- Temporarily disable Forced SSL connection by commenting out two lines in the .htaccess file. Open the file for editing:

```
nano .htaccess
```

- Look for the following two lines, and add a # character before them:

```
#RewriteCond %{HTTPS} !=on
#RewriteRule ^ https://%{HTTP_HOST}%{REQUEST_URI} [L,R=301]
```

- Update the permissions on two directories before proceeding:

```
chmod -R 770 application/logs
chmod -R 770 application/cache
```

- Create a configuration file:

```
touch application/classes/beans/config.php
chmod 660 application/classes/beans/config.php
```

- Change the ownership to the apache4 user:

```
chown -R www-data:www-data /var/www
```

## Configure MySQL

- Log into the MySQL console:

```
mysql -h localhost -u root -p
```

- Create the **beans** user with the **beansdb** password and the **beans** database:

```
CREATE USER 'beans'@'localhost' IDENTIFIED BY 'beansdb';
CREATE DATABASE IF NOT EXISTS `beans` CHARACTER SET utf8 COLLATE utf8_general_ci;
GRANT ALL PRIVILEGES ON `beans`.* TO 'beans'@'localhost';
```

```
flush privileges;
exit
```

## Configure Apache2 VirtualHost

- Edit the default apache2 Vhost config:

```
vi /etc/apache2/sites-available/default
```

- And add/modify the following VirtualHost block:

```
<VirtualHost *:80>
    ServerName beans.example.com

    DocumentRoot /var/www
    <Directory /var/www>
        Options -Indexes FollowSymLinks MultiViews
        AllowOverride All
        Order allow,deny
        allow from all
    </Directory>
</VirtualHost>
```

NOTE: Make sure AllowOverride is set to ALL, or else the .htaccess file will not work.

- Restart apache2:

```
service apache2 restart
```

- Now navigate to <http://beans.example.com> to complete the setup using the setup wizard.

## Securing BeansBooks with SSL

- Generate a strong SSL key and a CSR to send for signing by a CA:

```
mkdir /etc/apache2/ssl && cd /etc/apache2/ssl
openssl req -sha512 -out beans.example.com.csr -new -newkey rsa:4096 -nodes -keyout beans.example.com.key
```

- Make sure to securely copy the SSL certificate to **beans.example.com.crt**
- Edit the apache2 default ssl Vhost config file:

```
vi /etc/apache2/sites-available/default-ssl
```

- And Add the following:

```
<VirtualHost *:443>
    ServerName beans.example.com

    DocumentRoot /var/www
    <Directory /var/www>
        Options FollowSymLinks
        AllowOverride All
        Require all granted
    </Directory>

    SSLEngine on

    SSLCertificateFile /etc/apache2/ssl/beans.example.com.crt
    SSLCertificateKeyFile /etc/apache2/ssl/beans.example.com.key

    <FilesMatch "\.(cgi|shtml|phtml|php)$">
        SSLOptions +StdEnvVars
    </FilesMatch>
```

```
BrowserMatch "MSIE [2-6]" nokeepalive ssl-unclean-shutdown downgrade-1.0 force-respons
e-1.0
BrowserMatch "MSIE [17-9]" ssl-unclean-shutdown
</VirtualHost>
```

- Enable forced SSL connection by uncommenting the two lines from earlier in the .htaccess file. Open the file for editing:

```
vi .htaccess
```

- Look for the following two lines, and remove the # characters before them:

```
RewriteCond %{HTTPS} !=on
RewriteRule ^ https://%{HTTP_HOST}%{REQUEST_URI} [L,R=301]
```

- Restart apache2:

```
service apache2 restart
```

- Now BeansBooks will be accessible from <https://beans.example.com>

## Resources

- <https://github.com/system76/beansbooks>

### Related issues:

Related to GNU/Linux Administration - Support #568: Install a Linux, Apache2,...	Closed	02/21/2015
Copied from FreeBSD Administration - Support #557: Install BeansBooks on Free...	Closed	02/09/2015

### History

#### #1 - 02/20/2015 02:10 PM - Daniel Curtis

- Copied from Support #557: Install BeansBooks on FreeBSD FAMP Server added

#### #2 - 02/21/2015 12:56 PM - Daniel Curtis

- Description updated

- Status changed from New to In Progress

- % Done changed from 0 to 50

#### #3 - 02/21/2015 12:57 PM - Daniel Curtis

- Description updated

#### #4 - 02/21/2015 01:28 PM - Daniel Curtis

- Description updated

#### #5 - 02/21/2015 01:39 PM - Daniel Curtis

- Related to Support #568: Install a Linux, Apache2, MySQL, PHP Web Server on Debian added

#### #6 - 02/21/2015 01:40 PM - Daniel Curtis

- Target version set to Debian

#### #7 - 02/22/2015 04:52 PM - Daniel Curtis

- Subject changed from Installing BeansBooks on Debian to Install BeansBooks on a Debian LAMP Server

#### #8 - 02/22/2015 05:25 PM - Daniel Curtis

- Status changed from In Progress to Closed

- % Done changed from 50 to 100

**#9 - 02/23/2015 09:48 AM - Daniel Curtis**

- Description updated