

PHP Applications & CMS Setup

- [How to Install Redmine](#)
- [How to redirect my Joomla! site HTTP to HTTPS?](#)
- [Joomla 1.5 and MariaDb - Collation problem](#)

How to Install Redmine

- Create database and a database user
- The next step navigate cPanel interface in the `Setup Ruby App` menu, and select the Ruby version (2.1), and setup the application folder, and type the app URI. **The URI can't contain any special characters example ("/" "." ", etc,).** When you fill all datas, please click the **Setup** button.
- Then install the necessary Ruby on Rails application modules. In the modules row click the **show** label. It may get informed about the full module list in the system requirements of an application. The setup may take up longer shorter time (in Redmine case this his testing 07:48.96 were minutes)

Installing the following Redmine modules:

- bundle
 - i18n#0.6.11
 - builder#3.0.4
 - rails#3.2.19
 - mime-types#1.25.1
 - mocha#1.0.0
 - jquery-rails#3.1.2
 - coderay
 - fastercsv
 - request_store
 - rbpdf
 - mysql2
 - selenium-webdriver
 - rmagick
 - shoulda#3.3.2
 - ruby-openid#2.3.0
 - request_store#1.0.5
 - capybara#2.1.0
 - net-ldap#0.3.1
 - rack-openid
 - shoulda-matchers#1.4.1
 - redcarpet#2.3.0
 - yard
 - rake#10.4.2
 - bigdecimal
- Type the module name and click the **Add** button. If we add all necessary mudules click the **Update** button in the top of the page Then the installer compile and installing the modules, please wait to be patient, if the process complete we get a following message:

`Extensions set successfully updated` .

- click the **Restart** button.
- Then download the Redmine package in SSH:

```
wget url http://www.redmine.org/releases/redmine-x.x.x.tar.gz
```

- Then extract it:

```
tar xzf redmine-x.x.x.tar.gz
```

- In the next step copy the content into the earlier created folder

```
cp -R ~/redmine-x.x.x/* ~/redmine
```

- Copy or rename the database.yml, and fill up the MySQL connectios details, then save it.

```
cp ~/redmine/config/database.yml.example ~/redmine/config/database.yml
```

```
nano ~/redmine/config/database.yml
```

- The copy the public folder in to the /public_html/redmine/ folder.

```
cp -R ~/redmine/public/* ~/public_html/redmine/
```

- Enter the Redmine folder.

```
cd ~/public_html/redmine
```

- Rename the htaccess.fcgi.example, and dispatch.fcgi.example files.

```
cat htaccess.fcgi.example >> .htaccess
```

```
cp dispatch.fcgi.example dispatch.fcgi
```

- Then go back to the extract the Redmine

```
cd ~/redmine
```

- Add the next line in `Gemfile` file:

```
gem "bigdecimal"
```

- Run the following command:

Activate:

```
source ~/rubyenv/redmine/2.1/bin/activate
```

Install:

```
~/rubyvenv/redmine/2.1/bin/bundle install
```

Generating the Secret key:

```
~/rubyvenv/redmine/2.1/bin/rake generate_secret_token
```

Load the database:

```
RAILS_ENV=production ~/rubyvenv/redmine/2.1/bin/rake db:migrate
```

Install the sample data:

```
RAILS_ENV=production ~/rubyvenv/redmine/2.1/bin/rake redmine:load_default_data
```

- The final step restart the application in cPanel.

How to redirect my Joomla! site HTTP to HTTPS?

1. Checklist for your set up

To get SSL Certificate enabled for your Joomla site, you should have these followings in advance.

SSL Certificate, which has been installed successfully on your server. You can learn about how to get SSL Certificate [HERE](#).

Your dedicated IP Address, which is unique for one SSL Certificate.

Enable Force SSL in your Joomla site

Configure your configuration.php file

Open your configuration.php file

Find the following line:

```
var $live_site ='';
```

Replace with:

```
var $live_site = 'https://www.your-domain.com';
```

Next, open .htaccess file then add the following code to the bottom of the file.

```
RewriteEngine On  
RewriteCond %{HTTPS} OFF  
RewriteRule (.*) https://%{HTTP_HOST}%{REQUEST_URI}
```

2. enable Force SSL in your Joomla site

In the Admin Panel, navigate through **System >> Global Configuration** or simply click the **Global Configuration** button.

Within the Server tab, in the Server Settings section, there are 3 Force SSL alternatives that you can select, namely:

- None: SSL will not be enabled in your Joomla site.
- Administrator Only: connections to your administrator will be on HTTPS.
- Entire Site: connections all over your website will be on HTTPS.

Joomla 1.5 and MariaDb – Collation problem

We found the hard way that all Joomla 1.5 (yes there are still joomla 1.5) have problem with the collation of the database when you use UTF 8 characters . After several experiments with collation we found in some blogs that the answer is pretty easy. You have to change a line in the mysqli file in Joomla.

in libraries/joomla/database/database/mysqli.php

or (depending on your setting)

libraries/joomla/database/database/mysqli.php

comment the line 186

```
return ($verParts[0] == 5 || ($verParts[0] == 4 && $verParts[1] == 1 && (int)$verParts[2] >= 2));
```

and add this instead (assuming these days you'll have unicode supported database):

```
return 1;
```

the code looks like:

```
function hasUTF()
{
$verParts = explode( '.', $this->getVersion() );
// return ($verParts[0] == 5 || ($verParts[0] == 4 && $verParts[1] == 1 && (int)$verParts[2] >=
2));
return (1);
}
```