

# CMS Server

Wordpress. Drupal8. Joomla3

**How To Build.Setup.Deploy**

**by** `m1m1n`

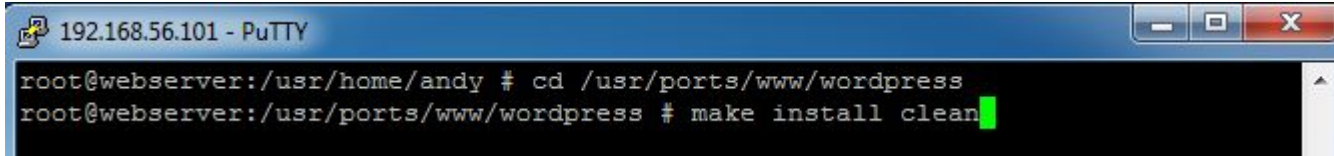
# The Introduction

---

- You Have A FreeBSD Box
- An Extracted Portsnap & Distfiles
- A Putty & WinSCP (Windows Users)
- A Terminal & SCP (Linux Users)
- Basic of ee/nano editor
- Basic of Unix/Linux Command Line
- A Lots of Snacks...

# The Setup. Configuration. Deploy (Wordpress)

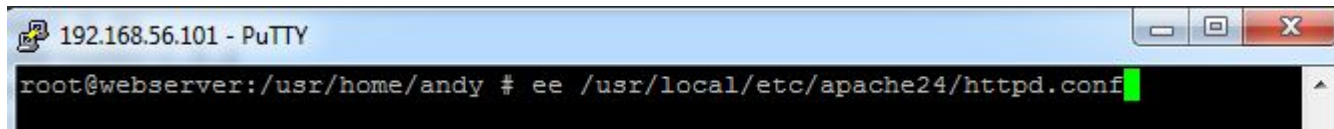
---

A terminal window titled "192.168.56.101 - PuTTY" with a blue header bar and standard window controls. The terminal text shows a user at the root of a webserver navigating to the Wordpress directory and running a clean installation command.

```
root@webserver:/usr/home/andy # cd /usr/ports/www/wordpress
root@webserver:/usr/ports/www/wordpress # make install clean
```

## Installing Wordpress

```
# cd /usr/ports/www/wordpress && make install clean
```

A terminal window titled "192.168.56.101 - PuTTY" with a blue header bar and standard window controls. The terminal text shows a user at the root of a webserver editing the Apache24 configuration file.

```
root@webserver:/usr/home/andy # ee /usr/local/etc/apache24/httpd.conf
```

## Configure Apache24 for Wordpress

```
# ee /usr/local/etc/apache24/httpd.conf
```

# The Setup. Configuration. Deploy (Wordpress)

---

```
#  
DocumentRoot "/usr/local/www/wordpress"  
<Directory "/usr/local/www/wordpress">  
#
```

## DocumentRoot & Directory path

```
DocumentRoot "/usr/local/www/wordpress"  
<Directory "/usr/local/www/wordpress">
```

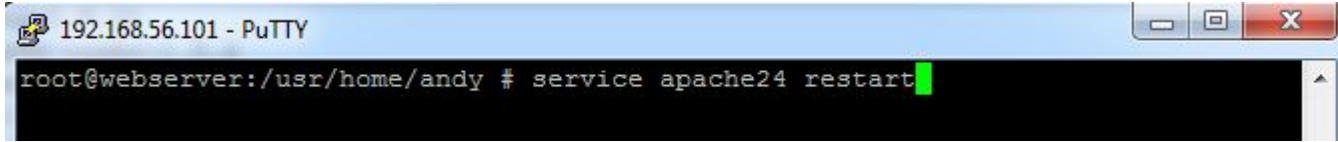
```
#  
AllowOverride All
```

## Configure mod\_rewrite

```
AllowOverride All
```

# The Setup. Configuration. Deploy (Wordpress)

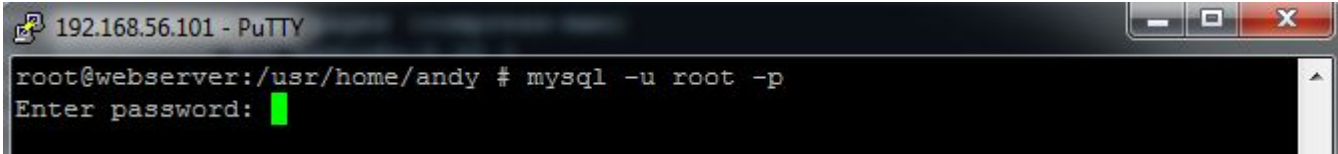
---



```
192.168.56.101 - PuTTY
root@webserver:/usr/home/andy # service apache24 restart
```

## Configuration Changing

```
# service apache24 restart
```



```
192.168.56.101 - PuTTY
root@webserver:/usr/home/andy # mysql -u root -p
Enter password:
```

## Wordpress Database

```
# mysql -u root -p
Enter password: mariadbpasswordanda
```

# The Setup. Configuration. Deploy (Wordpress)

---

```
MariaDB [(none)]> create database wp;  
Query OK, 1 row affected (0.00 sec)  
  
MariaDB [(none)]> grant all on wp.* to wpadmin@localhost identified by 'LocalPas  
sword';  
Query OK, 0 rows affected (0.05 sec)  
  
MariaDB [(none)]> quit  
Bye
```

Create database wp;

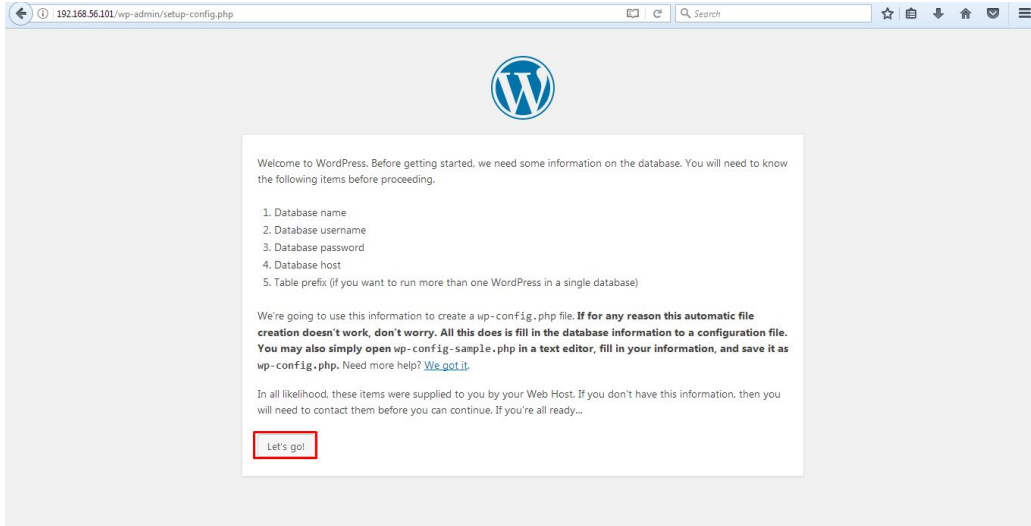
Grant all on wp.\* to wpadmin@localhost identified by  
'LocalPassword';

```
root@webserver:/usr/home/andy # chown -R www:www /usr/local/www/wordpress
```

## Wordpress Folder Permission

```
# chown -R www:www /usr/local/www/wordpress
```

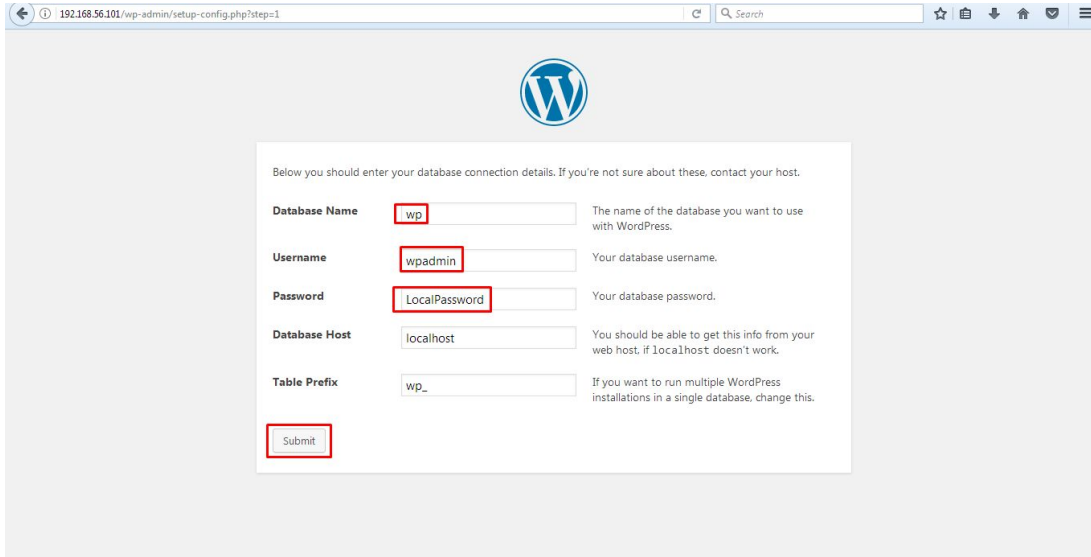
# The Setup. Configuration. Deploy (Wordpress)



## Installing Wordpress from Browser

Using server ip address to setup wordpress

# The Setup. Configuration. Deploy (Wordpress)



The screenshot shows the WordPress installation configuration page in a browser window. The address bar displays the URL `192.168.56.101/wp-admin/setup-config.php?step=1`. The page features the WordPress logo at the top center. Below the logo, a white box contains the following text: "Below you should enter your database connection details. If you're not sure about these, contact your host." The form includes five input fields, each with a label and a description: "Database Name" (value: wp), "Username" (value: wpadmin), "Password" (value: LocalPassword), "Database Host" (value: localhost), and "Table Prefix" (value: wp\_). A "Submit" button is located at the bottom left of the form. Red boxes highlight the input fields for Database Name, Username, Password, and the Submit button.

Below you should enter your database connection details. If you're not sure about these, contact your host.

<b>Database Name</b>	<input type="text" value="wp"/>	The name of the database you want to use with WordPress.
<b>Username</b>	<input type="text" value="wpadmin"/>	Your database username.
<b>Password</b>	<input type="password" value="LocalPassword"/>	Your database password.
<b>Database Host</b>	<input type="text" value="localhost"/>	You should be able to get this info from your web host. If localhost doesn't work.
<b>Table Prefix</b>	<input type="text" value="wp_"/>	If you want to run multiple WordPress installations in a single database, change this.

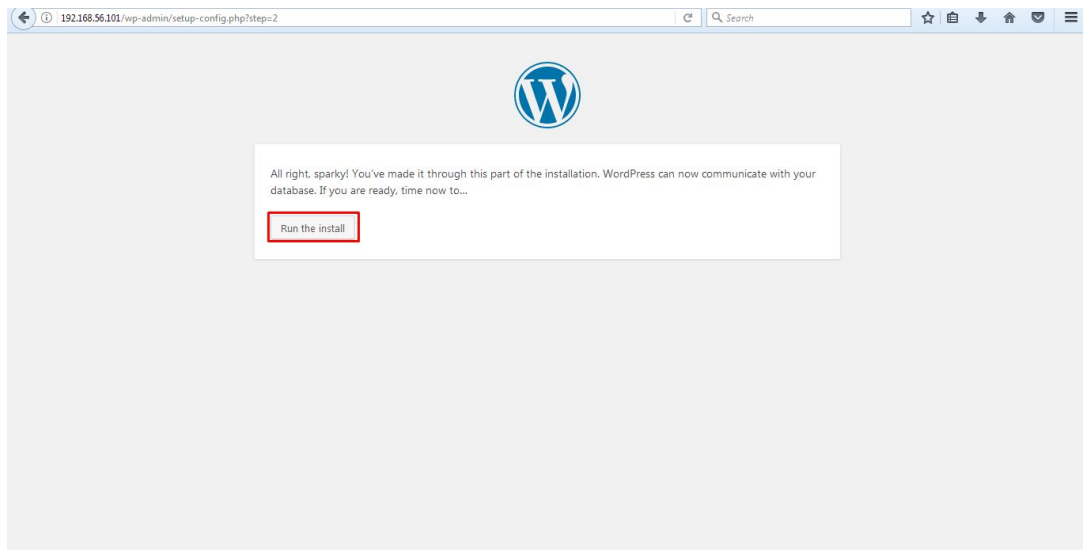
## Set Up Wordpress Database

Db name, db username & db password



# The Setup. Configuration. Deploy (Wordpress)

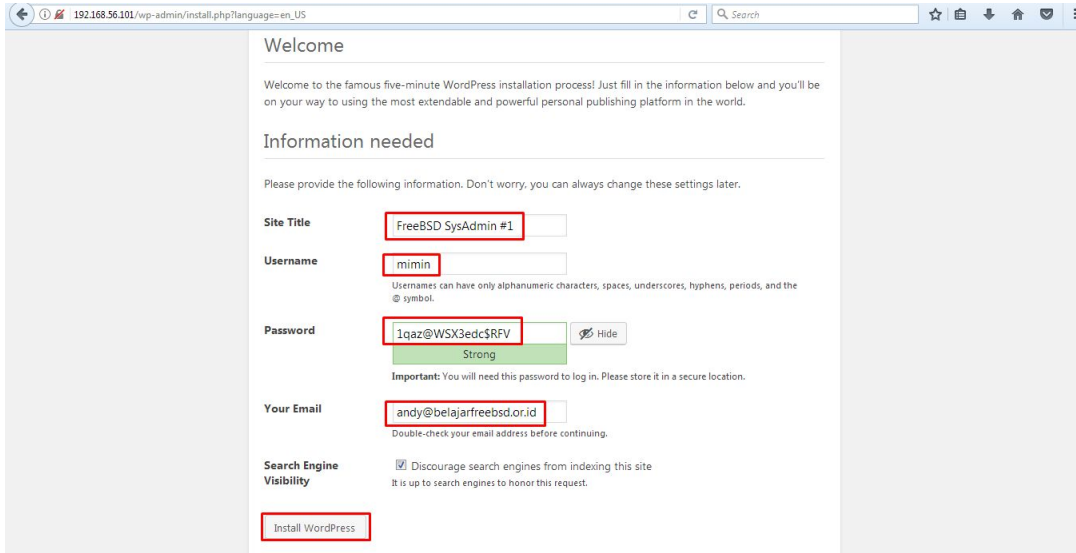
— — —



**Continue to Run Installer**

Just Click Run Install

# The Setup. Configuration. Deploy (Wordpress)



The image shows a browser window displaying the WordPress installation configuration page. The browser's address bar shows the URL `192.168.56.101/wp-admin/install.php?language=en_US`. The page content includes a "Welcome" message, a section for "Information needed", and several input fields. The "Site Title" field contains "FreeBSD SysAdmin #1". The "Username" field contains "mimin". The "Password" field contains "1qaz@WSX3edc\$RFV" and is marked as "Strong". The "Your Email" field contains "andy@belajarfreebsd.or.id". There is a checkbox for "Search Engine Visibility" which is checked. At the bottom, there is an "Install WordPress" button.

Welcome

Welcome to the famous five-minute WordPress installation process! Just fill in the information below and you'll be on your way to using the most extendable and powerful personal publishing platform in the world.

Information needed

Please provide the following information. Don't worry, you can always change these settings later.

Site Title

Username   
Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.

Password    
Strong  
Important: You will need this password to log in. Please store it in a secure location.

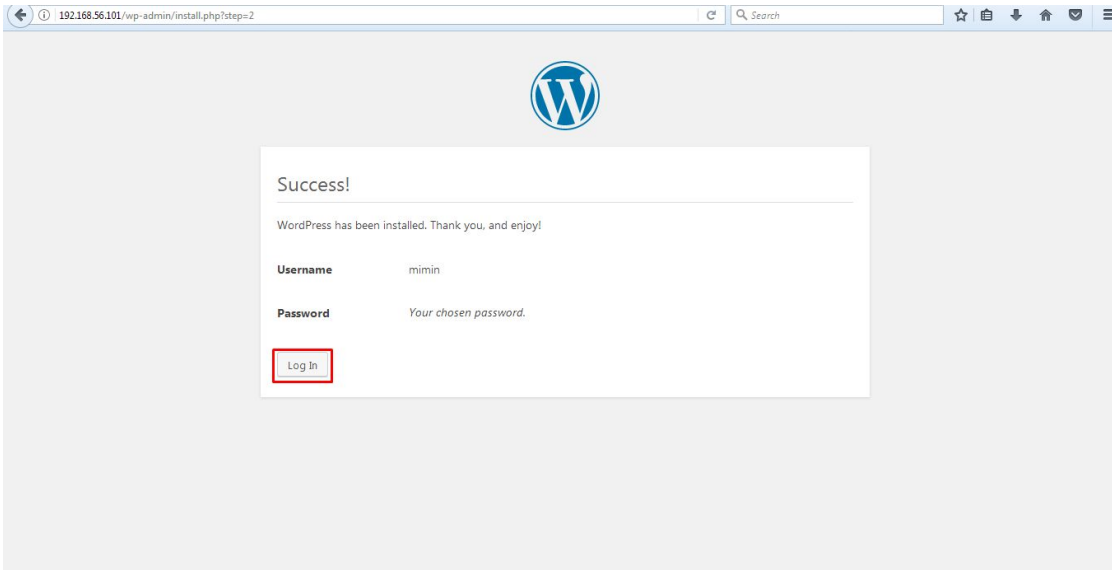
Your Email   
Double-check your email address before continuing.

Search Engine Visibility  Discourage search engines from indexing this site  
It is up to search engines to honor this request.

## Website Configurations

Fill all the necessary Form

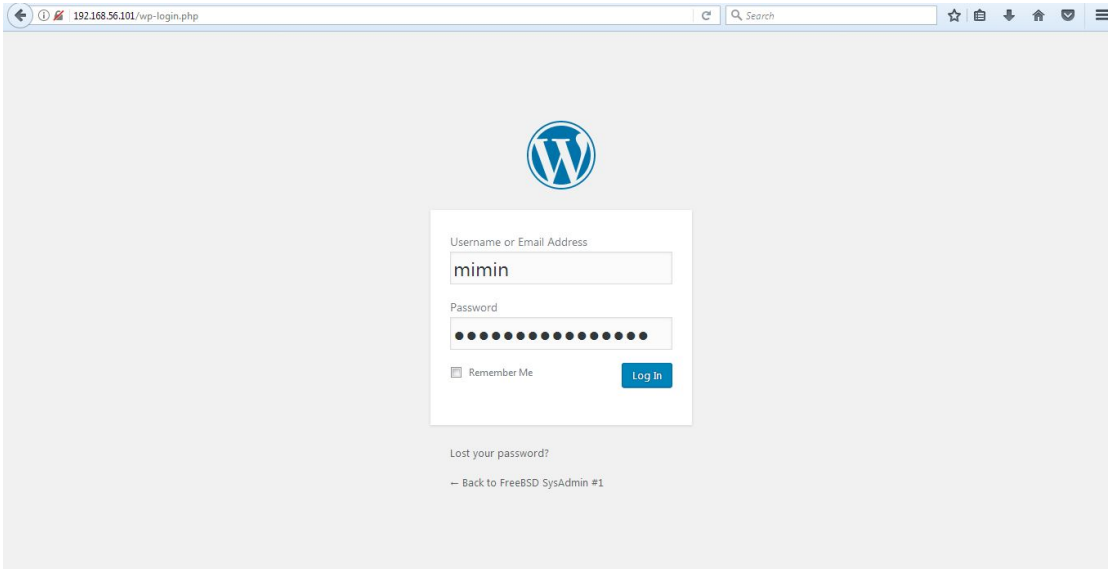
# The Setup. Configuration. Deploy (Wordpress)



**Installation Complete**

Try To Login

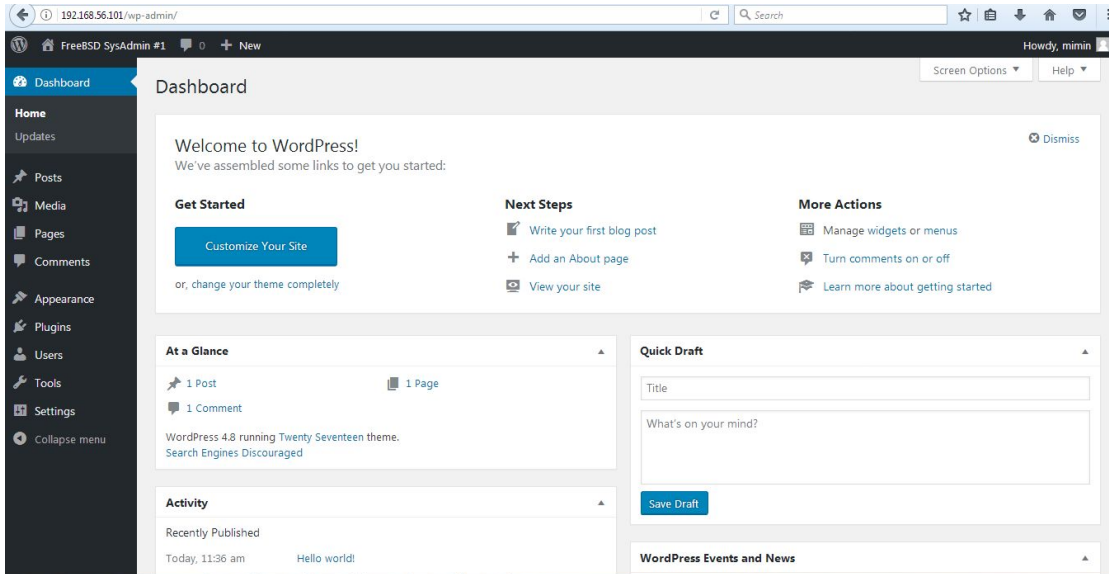
# The Setup. Configuration. Deploy (Wordpress)



## Administrator Login Dashboard

Just Log In

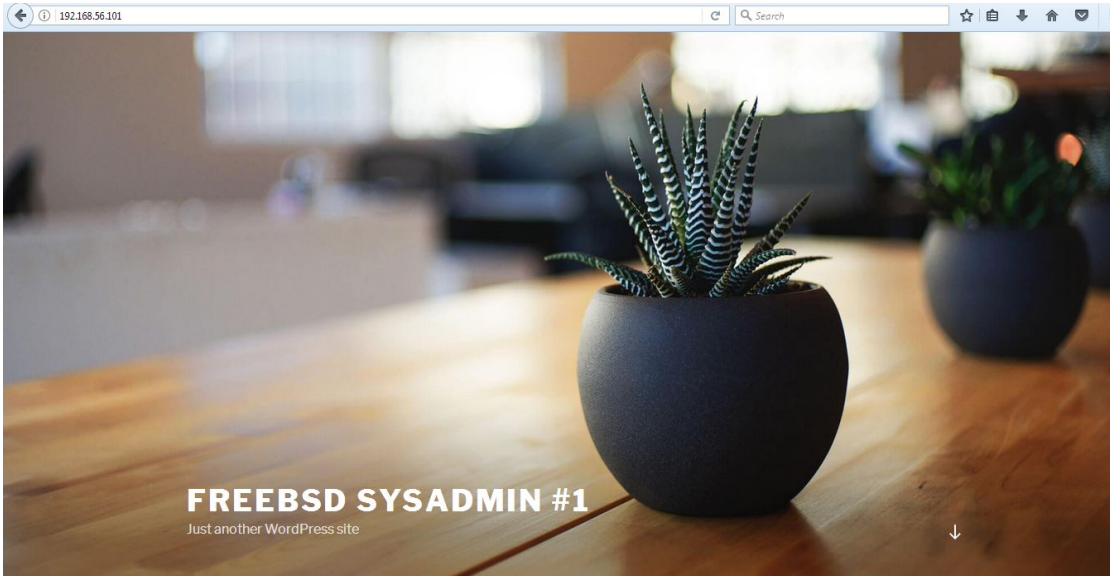
# The Setup. Configuration. Deploy (Wordpress)



## Administrator Dashboard

Everything You Need

# The Setup. Configuration. Deploy (Wordpress)

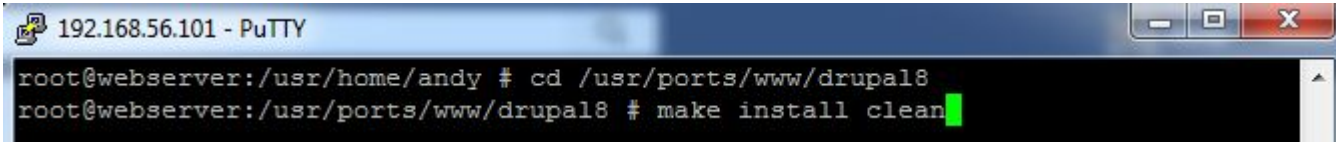


**Wordpress CMS Looks**

...andy you're DONE!

# The Setup. Configuration. Deploy (Drupal8)

---

A terminal window titled '192.168.56.101 - PuTTY' showing a root user at a webserver. The user has navigated to the directory '/usr/ports/www/drupal8' and has just entered the command 'make install clean'.

```
root@webserver:/usr/home/andy # cd /usr/ports/www/drupal8
root@webserver:/usr/ports/www/drupal8 # make install clean
```

## Installing Drupal 8

```
# cd /usr/ports/www/drupal8 && make install clean
```

A terminal window titled '192.168.56.101 - PuTTY' showing a root user at a webserver. The user has navigated to the directory '/usr/ports/www/drupal8' and has just entered the command 'ee /usr/local/etc/apache24/httpd.conf'.

```
root@webserver:/usr/ports/www/drupal8 # ee /usr/local/etc/apache24/httpd.conf
```

## Configure Apache for Drupal 8

```
# ee /usr/local/etc/apache24/httpd.conf
```

# The Setup. Configuration. Deploy (Drupal8)

---

```
#DocumentRoot "/usr/local/www/wordpress"  
DocumentRoot "/usr/local/www/drupal8"  
#<Directory "/usr/local/www/wordpress">  
<Directory "/usr/local/www/drupal8">
```

## DocumentRoot & Directory path

```
DocumentRoot "/usr/local/www/drupal8"  
<Directory "/usr/local/www/drupal8">
```

A terminal window titled "192.168.56.101 - PuTTY" showing a command prompt. The prompt is "root@webserver:/usr/ports/www/drupal8 #". The command "service apache24 restart" has been entered and is followed by a green cursor. The terminal window has standard window controls (minimize, maximize, close) in the top right corner.

```
192.168.56.101 - PuTTY  
root@webserver:/usr/ports/www/drupal8 # service apache24 restart
```

## Restart Apache24

```
# service apache24 restart
```



# The Setup. Configuration. Deploy (Drupal8)

---

```
root@webserver:/usr/home/andy # mysql -u root -p
Enter password: █
```

## Drupal Database

```
# mysql -u root -p
Enter password: mariadbpasswordanda
```

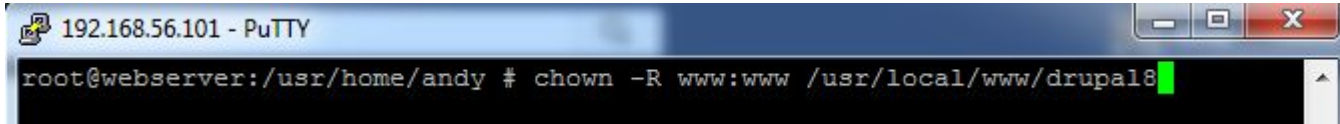
```
MariaDB [(none)]> create database drupal;
Query OK, 1 row affected (0.00 sec)

MariaDB [(none)]> grant all on drupal.* to drupaladmin@localhost identified by "
LocalPassword";
Query OK, 0 rows affected (0.00 sec)
```

```
Create database drupal;
Grant all on drupal.* to drupaladmin@localhost identified
by 'LocalPassword';
```

# The Setup. Configuration. Deploy (Drupal8)

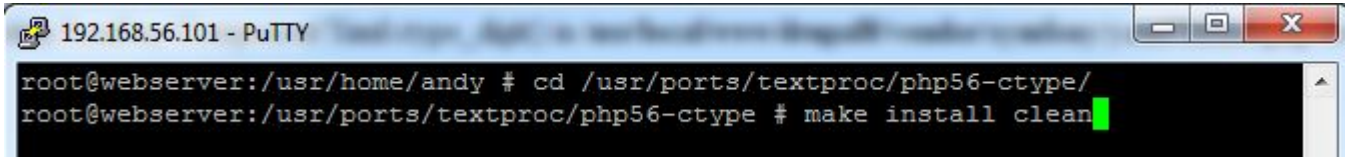
---



```
192.168.56.101 - PuTTY
root@webserver:/usr/home/andy # chown -R www:www /usr/local/www/drupal8
```

## Drupal 8 Folder Permission

```
# chown -R www:www /usr/local/www/drupal8
```

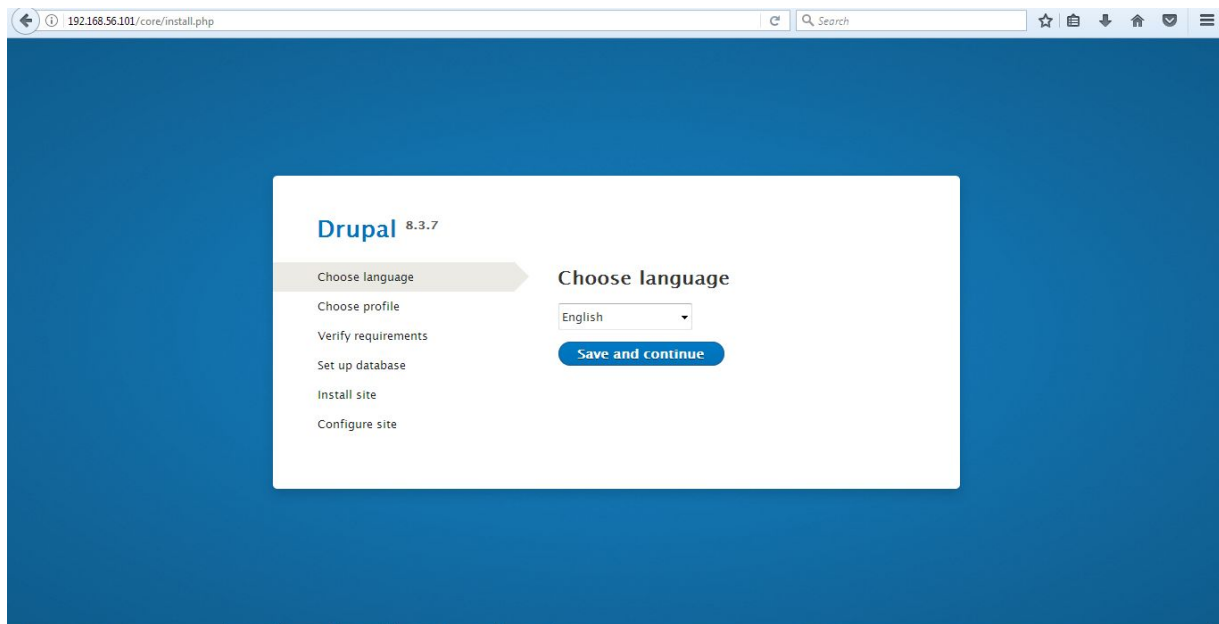


```
192.168.56.101 - PuTTY
root@webserver:/usr/home/andy # cd /usr/ports/textproc/php56-ctype/
root@webserver:/usr/ports/textproc/php56-ctype # make install clean
```

## Missing PHP Module (php56-ctype)

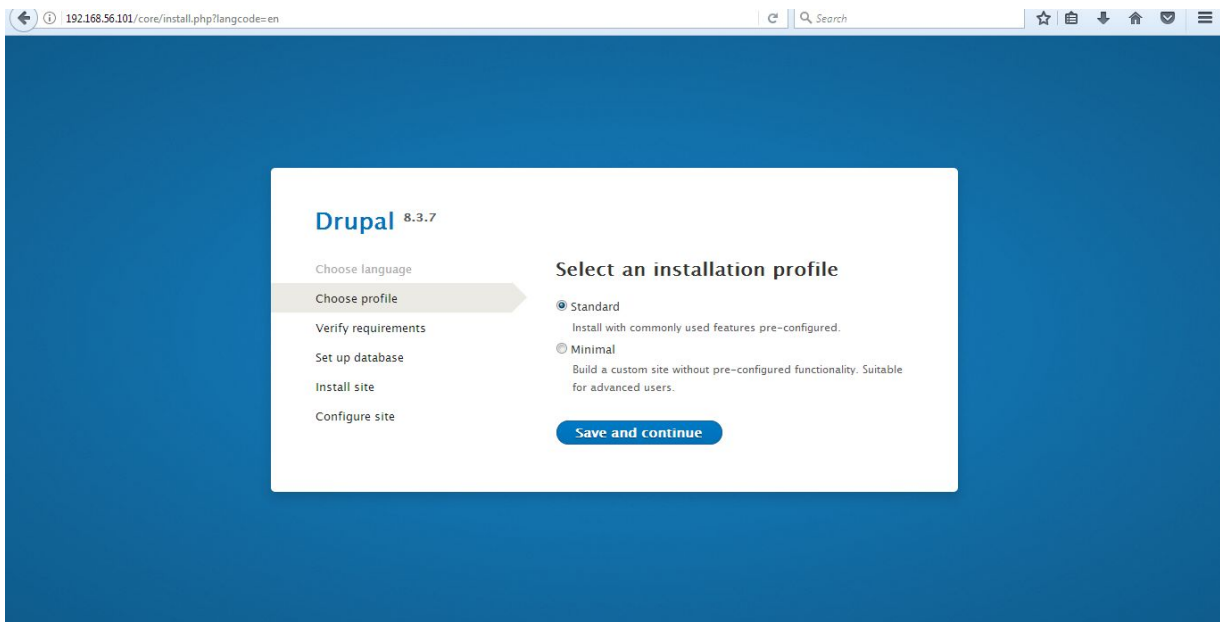
```
# cd /usr/ports/textproc/php56-ctype
# make install clean
# service apache24 restart
```

# The Setup. Configuration. Deploy (Drupal8)



Drupal 8 Setup Wizard

# The Setup. Configuration. Deploy (Drupal8)



## Drupal 8 Standard Install

# The Setup. Configuration. Deploy (Drupal8)

Drupal 8.3.7

- Choose language
- Choose profile
- Verify requirements
- Set up database**
- Install site
- Configure site

### Database configuration

**Database type \***  
@ MySQL, MariaDB, Percona Server, or equivalent

**Database name \***

**Database username \***

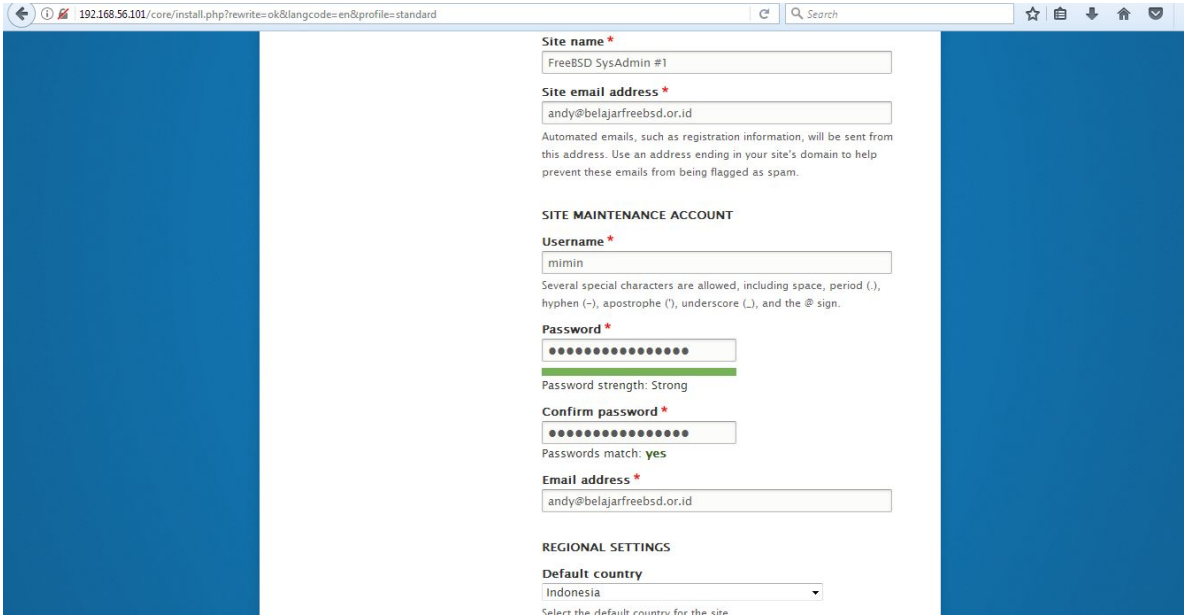
**Database password**

ADVANCED OPTIONS

[Save and continue](#)

Drupal 8 Database

# The Setup. Configuration. Deploy (Drupal8)



192.168.56.101/core/install.php?rewrite=ok&langcode=en&profile=standard

Site name \*

FreeBSD SysAdmin #1

Site email address \*

andy@belajarfreebsd.or.id

Automated emails, such as registration information, will be sent from this address. Use an address ending in your site's domain to help prevent these emails from being flagged as spam.

**SITE MAINTENANCE ACCOUNT**

Username \*

mimin

Several special characters are allowed, including space, period (.), hyphen (-), apostrophe ('), underscore (\_), and the @ sign.

Password \*

●●●●●●●●●●

Password strength: Strong

Confirm password \*

●●●●●●●●●●

Passwords match: **yes**

Email address \*

andy@belajarfreebsd.or.id

**REGIONAL SETTINGS**

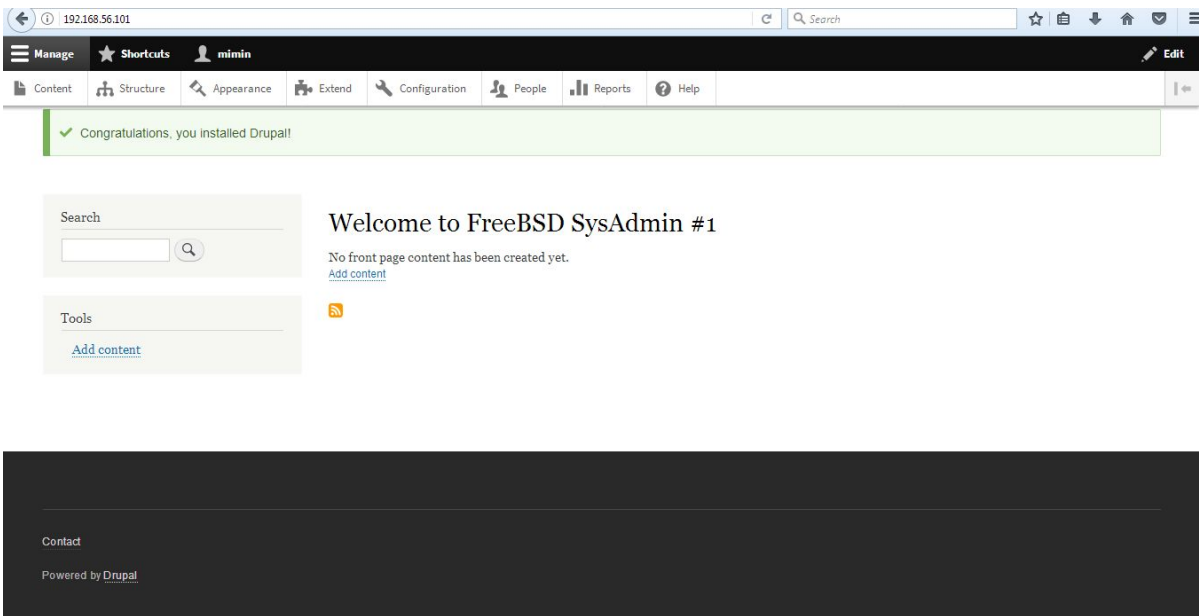
Default country

Indonesia

Select the default country for the site

## Drupal 8 Admin Configuration

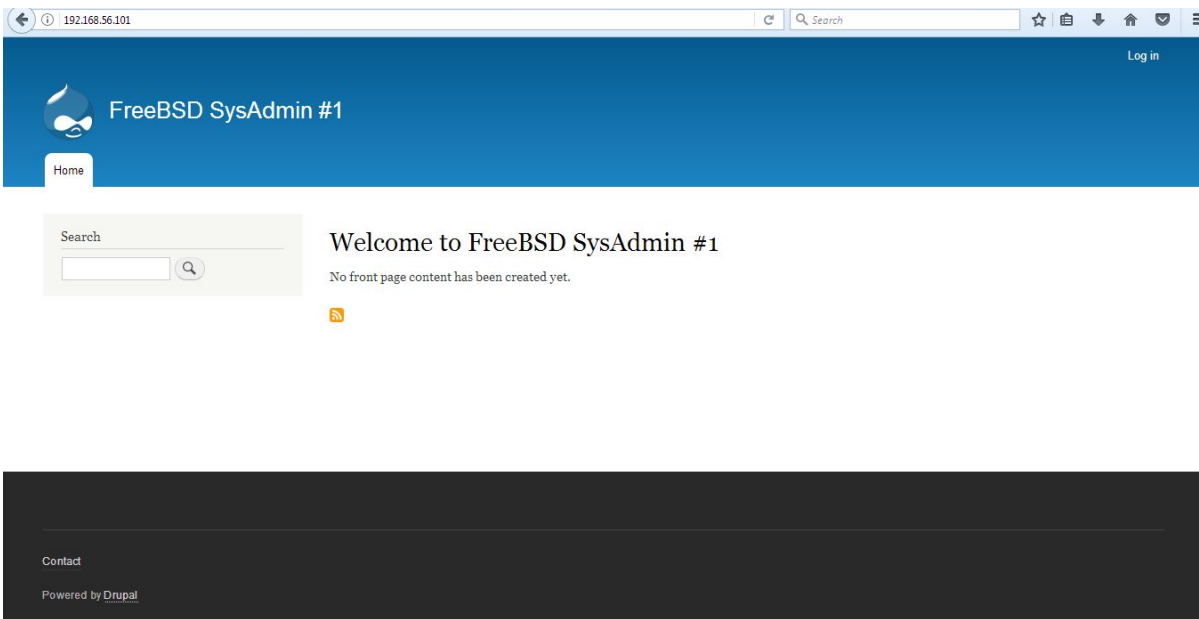
# The Setup. Configuration. Deploy (Drupal8)



The screenshot shows a web browser at the address 192.168.56.101. The Drupal 8 administration interface is displayed, featuring a top navigation bar with 'Manage', 'Shortcuts', and the user 'mimin'. A secondary menu includes 'Content', 'Structure', 'Appearance', 'Extend', 'Configuration', 'People', 'Reports', and 'Help'. A green notification banner at the top reads 'Congratulations, you installed Drupal!'. The main content area has a search bar and a heading 'Welcome to FreeBSD SysAdmin #1'. Below the heading, it states 'No front page content has been created yet.' with a link to 'Add content'. A 'Tools' section also contains an 'Add content' link. The footer area is dark and contains a 'Contact' link and the text 'Powered by Drupal'.

Drupal 8 Finish

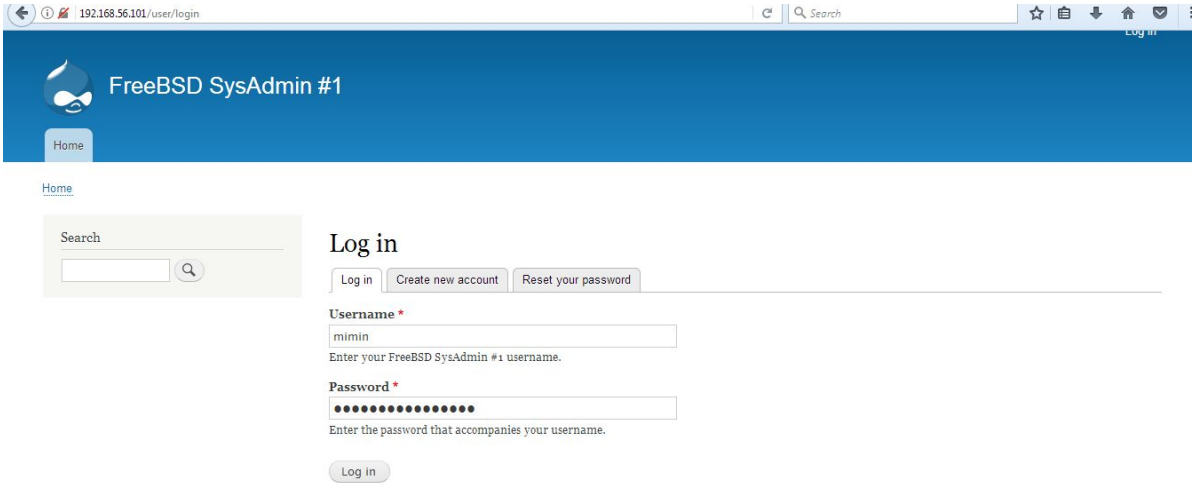
# The Setup. Configuration. Deploy (Drupal8)



Drupal 8 Home Page



# The Setup. Configuration. Deploy (Drupal8)



The screenshot shows a web browser window with the URL `192.168.56.101/user/login`. The page features a blue header with the FreeBSD SysAdmin #1 logo and a "Home" button. Below the header, there is a search bar and a "Log in" link. The main content area is titled "Log in" and contains three buttons: "Log in", "Create new account", and "Reset your password". Below these buttons, there are two input fields: "Username \*" with the value "mimin" and "Password \*" with masked characters. Below the password field, there is a "Log in" button.

192.168.56.101/user/login

FreeBSD SysAdmin #1

Home

Home

Search

Log in

Create new account

Reset your password

Username \*

mimin

Enter your FreeBSD SysAdmin #1 username.

Password \*

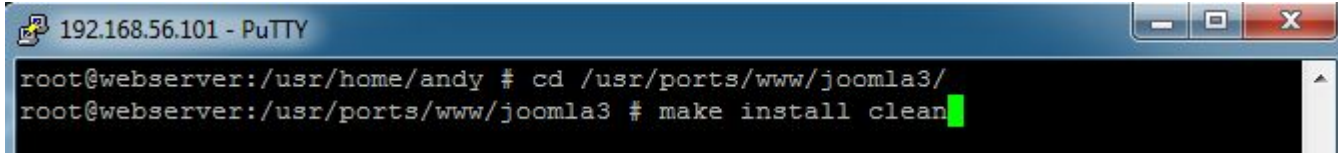
Enter the password that accompanies your username.

Log in

Drupal 8 Admin Page

# The Setup. Configuration. Deploy (Joomla3)

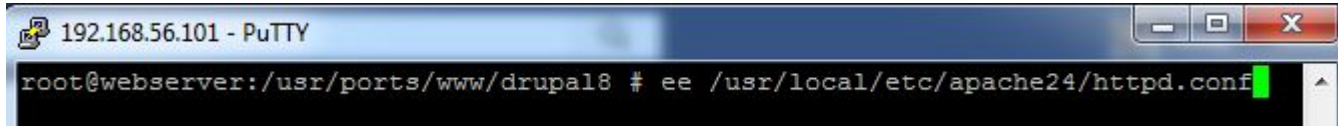
---

A terminal window titled "192.168.56.101 - PuTTY" showing a root user at a webserver. The user has navigated to the directory /usr/ports/www/joomla3 and is about to execute the command "make install clean".

```
root@webserver:/usr/home/andy # cd /usr/ports/www/joomla3/  
root@webserver:/usr/ports/www/joomla3 # make install clean
```

## Installing Joomla 3

```
# cd /usr/ports/www/joomla3 && make install clean
```

A terminal window titled "192.168.56.101 - PuTTY" showing a root user at a webserver. The user is in the directory /usr/ports/www/drupal8 and is about to execute the command "ee /usr/local/etc/apache24/httpd.conf".

```
root@webserver:/usr/ports/www/drupal8 # ee /usr/local/etc/apache24/httpd.conf
```

## Configure Apache for Joomla3

```
# ee /usr/local/etc/apache24/httpd.conf
```

# The Setup. Configuration. Deploy (Joomla3)

```
---  
#DocumentRoot "/usr/local/www/wordpress"  
#DocumentRoot "/usr/local/www/drupal8"  
DocumentRoot "/usr/local/www/joomla3"  
#<Directory "/usr/local/www/wordpress">  
#<Directory "/usr/local/www/drupal8">  
<Directory "/usr/local/www/joomla3">  
#
```

## DocumentRoot & Directory path

```
DocumentRoot "/usr/local/www/joomla3"  
<Directory "/usr/local/www/joomla3">
```

A screenshot of a PuTTY terminal window. The title bar shows the IP address 192.168.56.101 and the application name PuTTY. The terminal content shows the prompt root@webserver:/usr/ports/www/drupal8 # followed by the command service apache24 restart. A green cursor is visible at the end of the command.

```
192.168.56.101 - PuTTY  
root@webserver:/usr/ports/www/drupal8 # service apache24 restart
```

## Restart Apache24

```
# service apache24 restart
```

# The Setup. Configuration. Deploy (Joomla3)

```
root@webserver:/usr/home/andy # mysql -u root -p
Enter password: █
```

## Joomla Database

```
# mysql -u root -p
Enter password: mariadbpasswordanda
```

```
MariaDB [(none)]> create database joomla;
Query OK, 1 row affected (0.00 sec)

MariaDB [(none)]> grant all on joomla.* to joomlaadmin@localhost identified by '
LocalPassword';
Query OK, 0 rows affected (0.01 sec)
```

```
Create database joomla;
Grant all on joomla.* to joomlaadmin@localhost identified
by 'LocalPassword';
```

# The Setup. Configuration. Deploy (Drupal8)

— — —

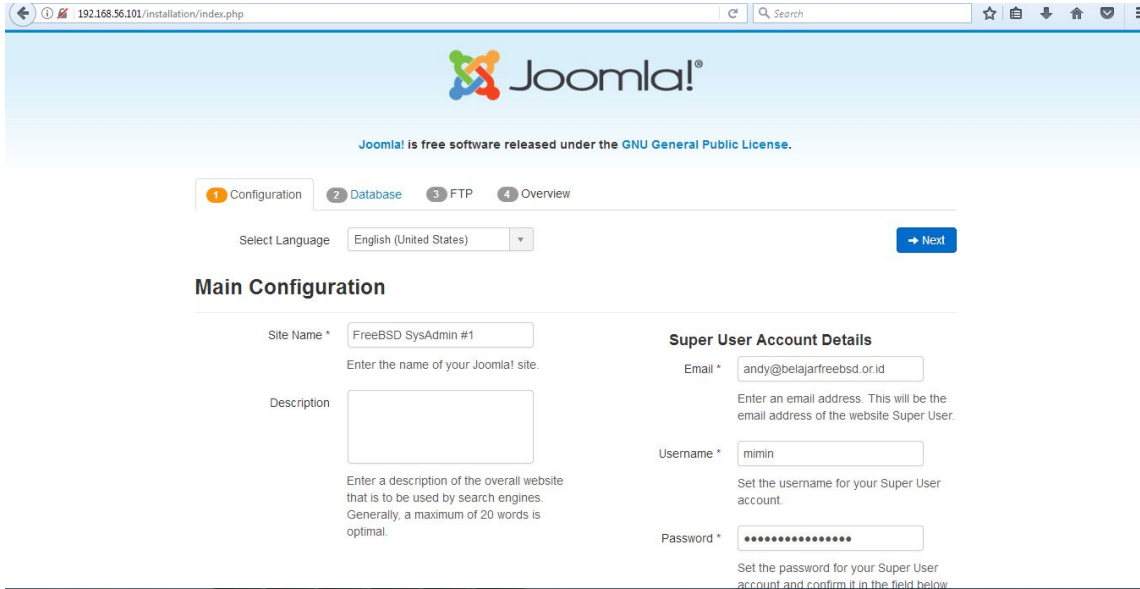
A screenshot of a PuTTY terminal window. The title bar shows '192.168.56.101 - PuTTY'. The terminal content shows the command 'chown -R www:www /usr/local/www/joomla3' being entered at the prompt 'root@webservice:~/andy #'. A green cursor is visible at the end of the command.

```
root@webservice:~/andy # chown -R www:www /usr/local/www/joomla3
```

## Joomla 3 Folder Permission

```
# chown -R www:www /usr/local/www/Joomla3
```

# The Setup. Configuration. Deploy (Drupal8)



The screenshot shows the Joomla! 3 installation interface. At the top, the Joomla! logo is displayed with the text "Joomla! is free software released under the GNU General Public License." Below this, there are four numbered steps: 1 Configuration, 2 Database, 3 FTP, and 4 Overview. The "Configuration" step is active. A "Select Language" dropdown menu is set to "English (United States)" with a "Next" button to its right. The "Main Configuration" section is divided into two columns. The left column contains "Site Name" (with the value "FreeBSD SysAdmin #1") and "Description" (with a text area). The right column contains "Super User Account Details" with fields for "Email" (andy@belajarfreebsd.or.id), "Username" (mimin), and "Password" (masked with dots). Each field has a small asterisk indicating it is required.

1 Configuration 2 Database 3 FTP 4 Overview

Select Language English (United States) [Next](#)

### Main Configuration

Site Name \*   
Enter the name of your Joomla! site.

Description   
Enter a description of the overall website that is to be used by search engines. Generally, a maximum of 20 words is optimal.

### Super User Account Details

Email \*   
Enter an email address. This will be the email address of the website Super User.

Username \*   
Set the username for your Super User account.

Password \*   
Set the password for your Super User account and confirm it in the field below.

## Joomla 3 Main Configuration

# The Setup. Configuration. Deploy (Drupal8)

192.168.56.101/installation/index.php#

Joomla!

Joomla! is free software released under the GNU General Public License.

1 Configuration 2 Database 3 Overview

### Database Configuration

← Previous Next

Database Type \*   
This is probably "MySQL".

Host Name \*   
This is usually "localhost" or a name provided by your host.

Username \*   
Either a username you created or a username provided by your host.

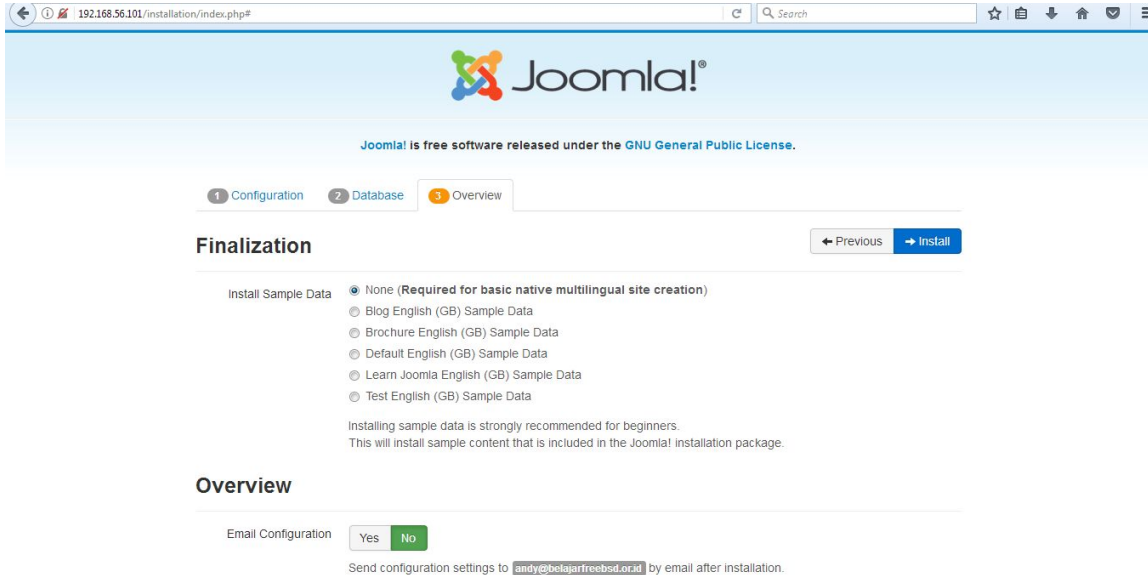
Password \*   
For site security using a password for the database account is mandatory.

Database Name \*

Some hosts allow only a certain DB name per site. Use table prefix in this case for distinct Joomla! sites.

## Joomla 3 Database

# The Setup. Configuration. Deploy (Drupal8)




The screenshot shows the Joomla! installation interface in a browser window. The address bar displays '192.168.56.101/installation/index.php#'. The Joomla! logo is prominently displayed at the top. Below the logo, a message states 'Joomla! is free software released under the GNU General Public License.' The installation progress is shown with three steps: '1 Configuration', '2 Database', and '3 Overview', with '3 Overview' being the current step. The 'Finalization' section contains a 'Previous' button and an 'Install' button. Under 'Install Sample Data', the 'None (Required for basic native multilingual site creation)' option is selected. Other options include 'Blog English (GB) Sample Data', 'Brochure English (GB) Sample Data', 'Default English (GB) Sample Data', 'Learn Joomla English (GB) Sample Data', and 'Test English (GB) Sample Data'. A note below the options states: 'Installing sample data is strongly recommended for beginners. This will install sample content that is included in the Joomla! installation package.' The 'Overview' section shows 'Email Configuration' with 'Yes' selected and 'No' highlighted in green. A note at the bottom of the overview section says: 'Send configuration settings to [andy@belajarfreebsd.or.id](mailto:andy@belajarfreebsd.or.id) by email after installation.'

## Joomla 3 Finalize



# The Setup. Configuration. Deploy (Drupal8)

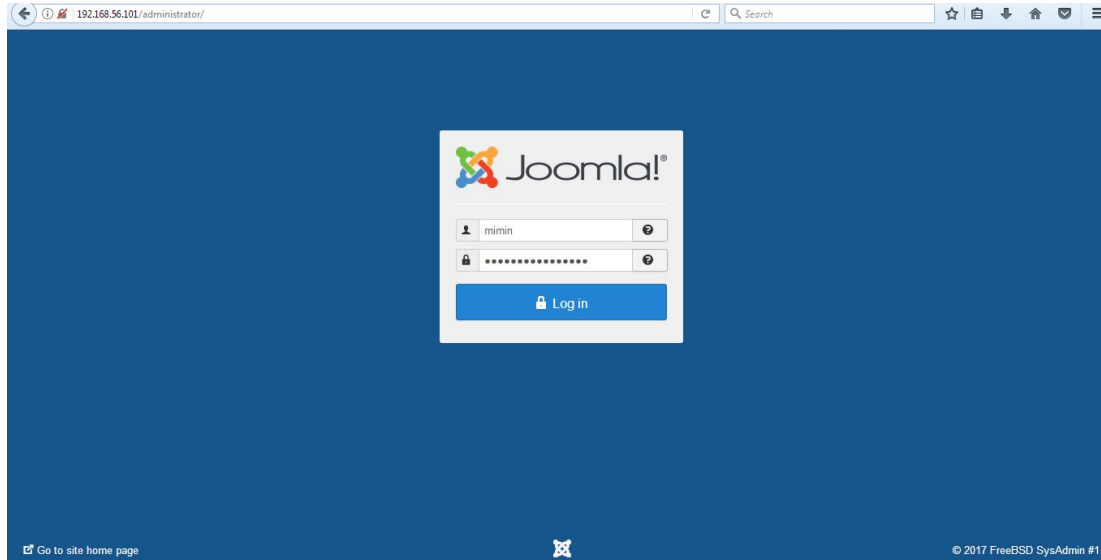


The screenshot shows a web browser window with the URL `192.168.56.101/installation/index.php#`. The Joomla! logo is prominently displayed at the top. Below the logo, a message states: "Joomla! is free software released under the GNU General Public License." A green box contains the text: "Congratulations! Joomla! is now installed." Below this, the heading "Joomla! in your own language and/or automatic basic native multilingual site creation" is shown. A text block explains that before removing the installation folder, users can install extra languages. A blue button labeled "→ Extra steps: Install languages" is provided. A light blue note box states: "Note: you will need internet access for Joomla! to download and install the new languages. Some server configurations won't allow Joomla! to install the languages. If this is your case, don't worry, you will be able to install them later using the Joomla! Administrator." A yellow warning box at the bottom says: "PLEASE REMEMBER TO COMPLETELY REMOVE THE INSTALLATION FOLDER. You will not be able to proceed beyond this point until the installation folder has been removed. This is a security feature of Joomla!" and includes a red-bordered button labeled "Remove installation folder".

## Joomla 3 Finish Install

# The Setup. Configuration. Deploy (Drupal8)

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Joomla 3 Admin Page

# The Setup. Configuration. Deploy (Drupal8)

The screenshot shows the Joomla! administrator control panel. At the top, there is a navigation menu with items like System, Users, Menus, Content, Components, Extensions, and Help. Below this is a 'Control Panel' header with the Joomla! logo. The main content area contains several messages: a yellow warning about PHP version 5.6.31, a red error message, and a blue informational message about statistics collection with 'Always', 'Once', and 'Never' buttons. On the left, there is a 'CONTENT' sidebar with links for New Article, Articles, Categories, and Media. A blue box on the right contains 'You have post-installation messages' with a 'Read Messages' button. At the bottom, a status bar shows 'View Site', '0 Visitors', '1 Administrator', '0 Messages', and 'Log out'. The footer text reads 'Joomla! 3.7.1 — © 2017 FreeBSD SysAdmin #1'.

192.168.56.101/administrator/index.php

System Users Menus Content Components Extensions Help

Control Panel Joomla!

**Warning**  
Your PHP version, 5.6.31, is only receiving security fixes at this time from the PHP project. This means your PHP version will soon no longer be supported. We recommend planning to upgrade to a newer PHP version before it reaches end of support on 2018-12-31. Joomla! will be faster and more secure if you upgrade to a newer PHP version (PHP 7.x is recommended). Please contact your host for upgrade instructions.

**Error**  
An error has occurred.

**Joomla! would like your permission to collect some basic statistics.**  
In order to better understand our install base and end user environments, this plugin has been created to send those statistics back to a Joomla! controlled central server. No identifying data is captured at any point. You can change these settings later from Plugins > System - Joomla! Statistics. [Click here to see the information that will be sent.](#)  
Enable Joomla! Statistics?

**CONTENT**  
New Article  
Articles  
Categories  
Media

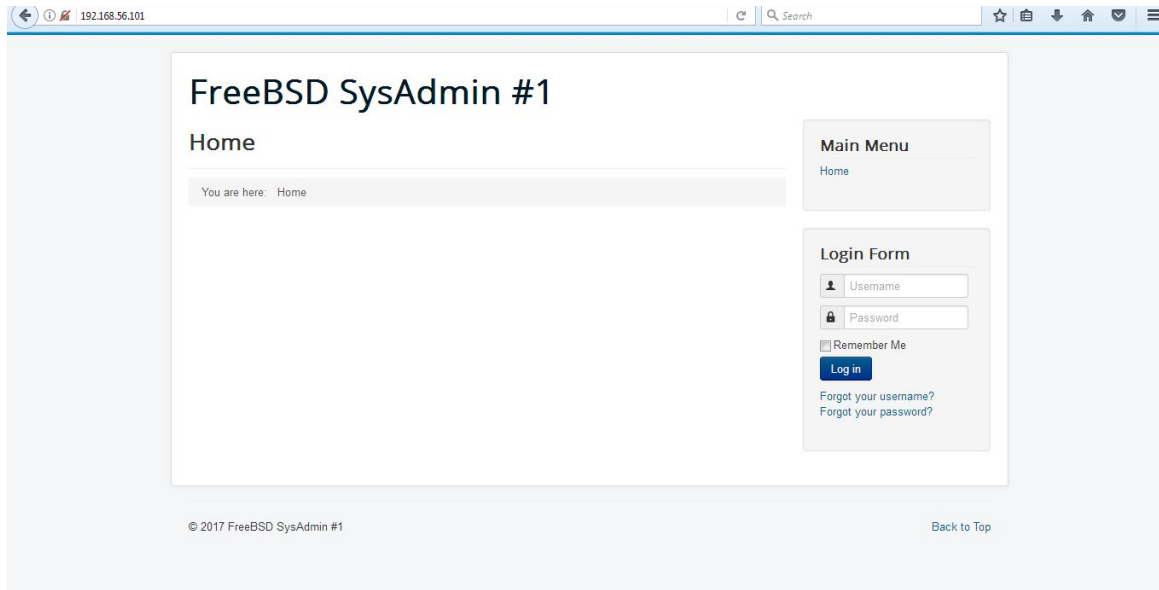
**You have post-installation messages**  
There are important post-installation messages that require your attention.  
This information area won't appear when you have hidden all the messages.  
[Read Messages](#)

View Site 0 Visitors 1 Administrator 0 Messages Log out

Joomla! 3.7.1 — © 2017 FreeBSD SysAdmin #1

## Joomla 3 Control Panel

# The Setup. Configuration. Deploy (Drupal8)



The screenshot shows a Joomla 3 Home Page for 'FreeBSD SysAdmin #1'. The browser address bar displays '192.168.56.101'. The page layout includes a main content area with the title 'FreeBSD SysAdmin #1' and a sub-header 'Home'. A breadcrumb trail indicates 'You are here: Home'. On the right side, there is a 'Main Menu' widget with a link to 'Home' and a 'Login Form' widget. The login form contains fields for 'Username' and 'Password', a 'Remember Me' checkbox, and a 'Log in' button. Below the login form are links for 'Forgot your username?' and 'Forgot your password?'. The footer of the page contains the copyright notice '© 2017 FreeBSD SysAdmin #1' and a 'Back to Top' link.

FreeBSD SysAdmin #1

Home

You are here: Home

Main Menu

Home

Login Form

Username

Password

Remember Me

Log in

[Forgot your username?](#)

[Forgot your password?](#)

© 2017 FreeBSD SysAdmin #1

[Back to Top](#)

## Joomla 3 Home Page

# The Credits

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ALLAH SWT & Nabi Muhammad SAW

[www.skyline.net.id](http://www.skyline.net.id)

FSISystem

Quanta & Inspur Servers

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