

AI-02098 Mariadb OpenEMR Wordpress osTicket

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Please provide a setup guide for OpenEMR, Wordpress, osTicket using Mariadb but use LAMP stack instead. Separate the website such as:
<http://localhost/openemr>, <http://localhost/wordpress>,<http://localhost/osticket>

Setup Guide for OpenEMR, WordPress, and osTicket

This guide will walk you through setting up OpenEMR, WordPress, and osTicket on a single server using a **LAMP stack** (Linux, Apache, MariaDB, PHP) with each application accessible via a distinct URL path.

1. Prerequisites and LAMP Stack Installation

Before you begin, ensure you have a fresh installation of a Linux distribution (like Ubuntu or CentOS). The following commands are for **Ubuntu**, but similar commands exist for other distributions.

A. Update System Packages

Start by updating your system to ensure all packages are up to date.

Bash

```
sudo apt update  
sudo apt upgrade -y
```

B. Install Apache Web Server

Apache is the web server that will serve your applications.

Bash

```
sudo apt install apache2 -y
```

After installation, enable and start the Apache service.

Bash

```
sudo systemctl enable apache2  
sudo systemctl start apache2
```

C. Install MariaDB Database Server

MariaDB is the database that will store all application data.

Bash

```
sudo apt install mariadb-server -y
```

Secure your MariaDB installation by running the security script. It will prompt you to set a root password and remove insecure default settings.

Bash

```
sudo mysql_secure_installation
```

D. Install PHP and Required Modules

PHP is the scripting language used by all three applications. You'll need to install several modules to ensure full functionality.

Bash

```
sudo apt install php libapache2-mod-php php-mysql php-mbstring php-xml php-curl php-gd php-zip php-json -y
```

Restart Apache to load the new PHP modules.

Bash

```
sudo systemctl restart apache2
```

2. Database Creation for Each Application

Each application needs its own dedicated database and user. Connect to the MariaDB server as the root user.

Bash

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

Once inside the MariaDB prompt, run the following commands, replacing `your_password_here` with strong, unique passwords for each user.

A. OpenEMR Database

SQL

```
CREATE DATABASE openemr;  
CREATE USER 'openemruser'@'localhost' IDENTIFIED BY 'openemr_password_here';  
GRANT ALL PRIVILEGES ON openemr.* TO 'openemruser'@'localhost';  
FLUSH PRIVILEGES;
```

B. WordPress Database

SQL

```
CREATE DATABASE wordpress;  
CREATE USER 'wpuser'@'localhost' IDENTIFIED BY 'wordpress_password_here';  
GRANT ALL PRIVILEGES ON wordpress.* TO 'wpuser'@'localhost';  
FLUSH PRIVILEGES;
```

C. osTicket Database

SQL

```
CREATE DATABASE osticket;  
CREATE USER 'osuser'@'localhost' IDENTIFIED BY 'osticket_password_here';  
GRANT ALL PRIVILEGES ON osticket.* TO 'osuser'@'localhost';  
FLUSH PRIVILEGES;
```

Exit the MariaDB prompt by typing `exit;` .

3. Application Installation

Download and extract each application into the appropriate subdirectory of your Apache web root, which is typically `/var/www/html/` .

A. OpenEMR

Download the latest stable version of OpenEMR.

Bash

```
cd /tmp
wget https://downloads.sourceforge.net/project/openemr/OpenEMR%20Stable/7.0.0/openemr-7.0.0.zip
unzip openemr-7.0.0.zip -d /var/www/html/openemr
```

Set the correct permissions for the OpenEMR directory.

Bash

```
sudo chown -R www-data:www-data /var/www/html/openemr
sudo chmod -R 755 /var/www/html/openemr
```

Now, you can access the OpenEMR setup wizard by navigating to <http://localhost/openemr> in your web browser. Follow the on-screen instructions, using the database credentials you created earlier.

B. WordPress

Download the latest version of WordPress.

Bash

```
cd /tmp
wget https://wordpress.org/latest.zip
unzip latest.zip -d /var/www/html/wordpress
```

Set the correct permissions for the WordPress directory.

Bash

```
sudo chown -R www-data:www-data /var/www/html/wordpress
sudo chmod -R 755 /var/www/html/wordpress
```

Navigate to <http://localhost/wordpress> in your browser to start the WordPress installation. You will be prompted to enter the database details you created.

C. osTicket

Download the latest stable version of osTicket.

Bash

```
cd /tmp
wget https://osticket.com/sites/default/files/download/osTicket-v1.17.4.zip
unzip osTicket-v1.17.4.zip -d /var/www/html/osticket
```

Set the correct permissions for the osTicket directory.

Bash

```
sudo chown -R www-data:www-data /var/www/html/osticket
sudo chmod -R 755 /var/www/html/osticket
```

Navigate to <http://localhost/osticket/setup/> in your browser. Follow the setup wizard, providing the database information you created for osTicket.

4. Final Configuration

No special Apache configuration is required because you are using subdirectories. Apache's default configuration will serve the applications from the respective folders. You can access your applications at the following URLs:

- **OpenEMR:** <http://localhost/openemr>
- **WordPress:** <http://localhost/wordpress>
- **osTicket:** <http://localhost/osticket>

You have now successfully set up OpenEMR, WordPress, and osTicket on a single server using a LAMP stack with MariaDB. 🚀