

AI-02036 OpenEMR Simplified

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Tags	Project
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I need to install OpenEMR to Ubuntu Server running on Hyper-V server. The Ubuntu server is now up and running and updated and needed the following:

1. mysql-server
2. PHP
3. Apache2
4. OpenEMR

List all the sudo commands I need to accomplish the installation so that OpenEMR opens to the login page.

To install OpenEMR on an Ubuntu server, you'll need to install and configure several components. Here are the `sudo` commands required to install MySQL, PHP, Apache2, and OpenEMR, and get to the login page.

1. Install LAMP Stack

First, install the core components: Apache2, MySQL, and PHP.

Bash

```
sudo apt update
sudo apt upgrade
sudo apt install apache2 mysql-server php libapache2-mod-php php-mysql php-mbstring php-gettext php-gd php-curl php-intl php-zip php-xml
```

- `sudo apt update` and `sudo apt upgrade` : These commands ensure that your package list is up to date and all existing packages are upgraded to their latest versions.

- `sudo apt install ...` : This command installs Apache2, MySQL server, and the necessary PHP modules. `libapache2-mod-php` is required for PHP to work with Apache, while the other `php-` packages are essential for OpenEMR's functionality (e.g., `php-mysql` for database connectivity, `php-gd` for image processing).

2. Configure MySQL

Next, secure your MySQL installation and create a database for OpenEMR.

Bash

```
sudo mysql_secure_installation
```

- Follow the on-screen prompts to set a root password, remove anonymous users, disallow remote root login, and remove the test database.

Bash

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

- This command logs you into the MySQL command-line interface. Enter the root password you just set.

Once inside MySQL, run these commands to create a user and database for OpenEMR:

SQL

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

- `CREATE DATABASE openemr;` : Creates a new database named `openemr` .
- `CREATE USER ...` : Creates a new user named `openemruser` with a specified password. Replace `'your_secure_password'` with a strong, unique password.
- `GRANT ALL PRIVILEGES ...` : Grants the new user full permissions on the `openemr` database.

- `FLUSH PRIVILEGES;` : Reloads the grant tables to apply the changes.
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3. Download and Install OpenEMR

Now, download the OpenEMR package and place it in the Apache web directory.

Bash

```
cd /tmp
wget https://downloads.sourceforge.net/project/openemr/OpenEMR%20Stable/7.0.2/openemr-7.0.2.tar.gz
sudo tar -zxvf openemr-7.0.2.tar.gz -C /var/www/html
```

- `wget ...` : Downloads the latest stable version of OpenEMR (7.0.2 as of this writing) to the `/tmp` directory.
- `sudo tar -zxvf ...` : Extracts the contents of the compressed file into the `/var/www/html` directory, which is the default web root for Apache.

Bash

```
sudo mv /var/www/html/openemr-7.0.2 /var/www/html/openemr
```

- This renames the extracted directory to a simpler name, `openemr`.
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4. Configure Apache Permissions

OpenEMR requires specific file permissions to function correctly.

Bash

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

- `sudo chown -R www-data:www-data ...` : Changes the ownership of the `openemr` directory to the `www-data` user and group, which is the user Apache runs as.
 - `sudo chmod -R 755 ...` : Sets the directory permissions to allow the owner (`www-data`) to read, write, and execute, and others to read and execute.
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5. Finalize Installation via Web Browser

With all components in place, you can now complete the installation through your web browser.

- Open a web browser and navigate to `http://<your_server_ip_address>/openemr`.
- The OpenEMR setup wizard will appear. Follow the prompts:
 - **Initial Setup:** Click "I have read and understand..." and click "Continue".
 - **Database Settings:** Enter the database credentials you created earlier.
 - **Database Server Host:** `localhost`
 - **Database Name:** `openemr`
 - **Database User:** `openemruser`
 - **Database Password:** `your_secure_password`
 - **OpenEMR Administrator Account:** Create a user and password for the OpenEMR admin.
- After clicking "Continue," the setup wizard will configure the database and redirect you to the OpenEMR login page.