Universal LAMP Server Setup on Ubuntu with PHP 8.2

Step 1: Update System

- Run: sudo apt update && sudo apt upgrade -y

Step 2: Install Apache

- Install: sudo apt install apache2 -y
- Enable & Start: sudo systemctl enable apache2 && sudo systemctl start apache2

Step 3: Install MySQL and Create Admin User

- Install: sudo apt install mysql-server -y
- Secure: sudo mysql_secure_installation
- Create Admin User:

```
sudo mysql -e "CREATE USER 'admin'@'localhost' IDENTIFIED BY 'admin@123';" sudo mysql -e "GRANT ALL PRIVILEGES ON *.* TO 'admin'@'localhost' WITH GRANT OPTION;" sudo mysql -e "FLUSH PRIVILEGES;"
```

Step 4: Install PHP 8.2

- Add Repository: sudo add-apt-repository ppa:ondrej/php -y && sudo apt update
- Install PHP: sudo apt install php8.2 libapache2-mod-php8.2 php8.2-mysql php8.2-cli php8.2-curl php8.2-zip php8.2-gd php8.2-mbstring php8.2-xml php8.2-pear php8.2-bcmath unzip -y
- Restart Apache: sudo systemctl restart apache2

Step 5: Install phpMyAdmin

- Install: sudo apt install phpmyadmin -y

Step 6: Configure Apache for phpMyAdmin

- Link to Apache: sudo In -s /usr/share/phpmyadmin /var/www/html/phpmyadmin
- Restart Apache: sudo systemctl restart apache2

Step 7: Set Correct Permissions

- Set ownership: sudo chown -R www-data:www-data /var/www/html
- Set permissions: sudo chmod -R 755 /var/www/html

Step 8: Configure Apache for Universal DocumentRoot

- Edit config: sudo nano /etc/apache2/sites-available/000-default.conf
- Set DocumentRoot:
- <VirtualHost *:80>

ServerAdmin webmaster@localhost

DocumentRoot /var/www/html

<Directory /var/www/html>

AllowOverride All

Require all granted

</Directory>

ErrorLog \${APACHE_LOG_DIR}/error.log

CustomLog \${APACHE_LOG_DIR}/access.log combined

- </VirtualHost>
- Enable mod_rewrite: sudo a2enmod rewrite
- Restart Apache: sudo systemctl restart apache2

Step 9: Verify Installation

- Open http://your-server-ip/
- Create test PHP file:

echo "<?php phpinfo(); ?>" | sudo tee /var/www/html/info.php

- Visit http://your-server-ip/info.php
- Access phpMyAdmin: http://your-server-ip/phpmyadmin/

LAMP Server with PHP 8.2 and MySQL admin is now set up!