

# Installation of LAMP

To download the WordPress. we need to install LAMP.

WordPress requires a full LAMP (Linux, Apache, MySQL, PHP)

## 1. Install Apache

```
# apt install apache2 -y
```

```
# systemctl start apache2
```

```
# systemctl enable apache2
```

Verify Apache is running:

```
# systemctl status apache2
```

## 2. Install MySQL

a. If MySQL is not already installed, use:

```
# apt install mysql-server -y
```

```
# mysql_secure_installation (improves the security of a MySQL server)
```

b. Create a database for WordPress:

Log in to MySQL:

```
# mysql -u root -p
```

c. Run the following SQL commands to create the database and user:

```
# CREATE DATABASE wordpress;
```

```
# CREATE USER 'worduser'@'localhost' IDENTIFIED BY '12345678';
```

```
# GRANT ALL PRIVILEGES ON wordpress.* TO 'worduser'@'localhost';
```

```
# FLUSH PRIVILEGES;
```

```
# EXIT;
```

## 3. Install PHP

a. Install PHP and required extensions for WordPress:

```
# apt install php php-mysql php-curl php-gd php-mbstring php-xml
```

```
php-xmllrpc libapache2-mod-php -y
```

- a. Restart Apache to load PHP modules:

```
# systemctl restart apache2
```

## Download and Install WordPress

Step 1: First, download the version of WordPress with the following command.

```
# cd /tmp  
# wget https://wordpress.org/latest.tar.gz  
# tar -xvf latest.tar.gz
```

Step 2: Move WordPress Files Move the extracted files to the Apache web directory:

```
# mv wordpress /var/www/html/
```

Step 3: Set Permissions Adjust permissions for WordPress to function properly

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

Step 4: Configure Apache for WordPress

Create a Virtual Host File Create a configuration file for your WordPress site:

```
# vim /etc/apache2/sites-available/wordpress.conf
```

Add the following configuration:

```
<VirtualHost *:80>  
  
ServerName http://tjwp.gpuoncloud.com  
  
DocumentRoot /var/www/html/wordpress  
  
    <Directory /var/www/html/wordpress>  
  
        AllowOverride All
```

```
</Directory>

    ErrorLog ${APACHE_LOG_DIR}/error.log

    CustomLog ${APACHE_LOG_DIR}/access.log combined

</VirtualHost>
```

## Step 5: Enable Apache Modules and Site

```
# a2ensite wordpress.conf

# a2enmod rewrite

# systemctl restart apache2
```

## Step 6: Complete WordPress Setup via Browser

Open your browser and navigate to:

<http://tjwp.gpuoncloud.com>