

Install and configure WordPress

1. Overview

WordPress is the most popular open-source blogging system and CMS on the Web. It is based on PHP and MySQL. Its features can be extended with thousands of free plugins and themes.

In this tutorial we will install WordPress on Apache2 server and create our first post.

What you'll learn

- How to set up WordPress
- How to configure WordPress
- How to create first post

What you'll need

- A computer running Ubuntu Server 20.04 LTS
- This guide will also show you how to configure a database for WordPress

2. Install Dependencies

To install PHP and Apache, use following command:

```
sudo apt update
sudo apt install ghostscript \
    libapache2-mod-php \
    mysql-server \
    php \
    php-bcmath \
    php-curl \
    php-imagick \
    php-intl \
    php-json \
    php-mbstring \
    php-mysql \
    php-xml \
    php-zip
```

3. Install WordPress

We will use the release from [WordPress.org](https://www.wordpress.org) rather than the APT package in the Ubuntu Archive, because this is the preferred method from upstream WordPress. This will also have fewer “gotcha” problems that the WordPress support volunteers will not be able to anticipate and therefore be unable to help with.

Create Your Hosting folder

```
sudo mkdir -p /var/www/yourdomain/public_html
```

Create the installation directory and download the file from [WordPress.org](https://wordpress.org/):

```
sudo chown www-data: /var/www/yourdomain/public_html
sudo curl https://wordpress.org/latest.tar.gz | sudo -u www-data tar zx -C
/var/www/yourdomain/public_html
```

Create file:

```
sudo cp /etc/apache2/sites-available/000-default.conf /etc/apache2/sites-
available/mysite.conf
```

```
sudo nano /etc/apache2/sites-available/mysite.conf
```

Paste:

```
<VirtualHost *:80>
    ServerName yourdomain.somaliren.org
    ServerAlias www.yourdomain.somaliren.org
    DocumentRoot /var/www/yourdomain/public_html

    <Directory /var/www/html/yourdomain>
        AllowOverride All
    </Directory>

    ErrorLog ${APACHE_LOG_DIR}/mysite_error.log
    CustomLog ${APACHE_LOG_DIR}/mysite_access.log combined
</VirtualHost>
```

Enable site + rewrite module:

```
cd /etc/apache2/sites-available/
```

```
sudo a2dissite 000-default.conf
sudo a2ensite mysite.conf
sudo a2enmod rewrite
sudo systemctl restart apache2
```

Note that this sets the ownership to the user `www-data`, which is potentially insecure, such as when your server hosts multiple sites with different maintainers. You should investigate using a user per website in such scenarios and make the files readable and writable to only those users. This will require configuring PHP-FPM to launch a separate instance per site each running as the site's user account. In such setup the `wp-config.php` should (read: if you do it differently you need a good reason) be readonly to the site owner and group and other permissions set to no-access (`chmod 400`). This is beyond the scope of this guide, however.

4. Configure database

To configure WordPress, we need to create MySQL database. Let's do it!

```
$ sudo mysql -u root
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 7
Server version: 5.7.20-0ubuntu0.16.04.1 (Ubuntu)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input
statement.

mysql> CREATE DATABASE wordpress;
Query OK, 1 row affected (0,00 sec)

mysql> CREATE USER wordpress@localhost IDENTIFIED BY '<your-password>';
Query OK, 1 row affected (0,00 sec)

mysql> GRANT SELECT, INSERT, UPDATE, DELETE, CREATE, DROP, ALTER
-> ON wordpress.*
-> TO wordpress@localhost;
Query OK, 1 row affected (0,00 sec)

mysql> FLUSH PRIVILEGES;
Query OK, 1 row affected (0,00 sec)

mysql> quit
Bye
```

Enable MySQL with `sudo service mysql start`

5. Configure WordPress with Wizard GUI

Open <http://localhost/wordpress/> in your browser. You will be asked for title of your new site, username, password, and address e-mail. Note that the username and password you choose here are for WordPress, and do not provide access to any other part of your server - choose a username and password that are different to your MySQL (database) credentials, that we configured for WordPress' use, and different to your credentials for logging into your computer or server's desktop or shell. You can choose if you want to make your site indexed by search engines.

It show like this, good to go