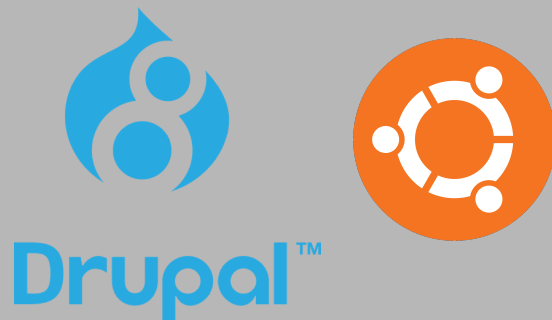# TOWiOS
The Only Way is Open Source

DRUPAL (10.1.2) INSTALLATION - UBUNTU 23.04 LTS

September 2023

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Note:

The following websites have been used for reference:
- *https://www.drupal.org/download*
- *https://www.drupal.org/docs/7/configuring-clean-urls/clean-urls-with-apache-2-on-ubuntu*
- *https://help.ubuntu.com/community/EnablingUseOfApacheHtaccessFiles*

The following instructions are to install Drupal locally on Ubuntu.

If you use these instructions you do so at your own risk. They are not considered 'perfect', and are purely for testing purposes.

1> INSTALL SOFTWARE

Install packages for apache, mysql and php:
sudo apt install unzip php php-common libapache2-mod-php php-cli php-fpm php-mysql php-json php-opcache php-gmp php-curl php-intl php-mbstring php-xmlrpc php-gd php-xml php-zip mysql-client mysql-server php-sqlite3

It will suggest additional packages and you will be asked to continue:
Do you want to continue? [Y/n] (Enter)

Note: At the time of writing, version 8.1 of php was installed. (Yours may be newer - make a note of the version.)

2> DOWNLOAD DRUPAL

Download the latest .zip Drupal file:
https://www.drupal.org/download
Download Drupal | zip

Extract the downloaded directory:
sudo unzip /home/**username**/Downloads/**drupal***.zip -d /var/www/html/

Note: Enter the relevant username, and Drupal version (at the time of writing, it was drupal-10.1.2).

3> WEB SERVER (APACHE2) & PHP SETUP

Amend the php.ini file:
sudo nano /etc/php/8.1/apache2/php.ini
  - Remove the comment (semi-colon ;) by line: **max_input_vars**
  - Increase the size of **max_input_vars** to at least **5000**
  - Increase **memory_limit = 512M**
  - Change **upload_max_filesize = 256M**
  - Change **max_file_uploads = 40**
  - Change **post_max_size = 256M**
  - Increase **max_execution_time = 300**

Start the web server:
sudo service apache2 start

Check the webserver is running:
Load firefox and go to http://localhost
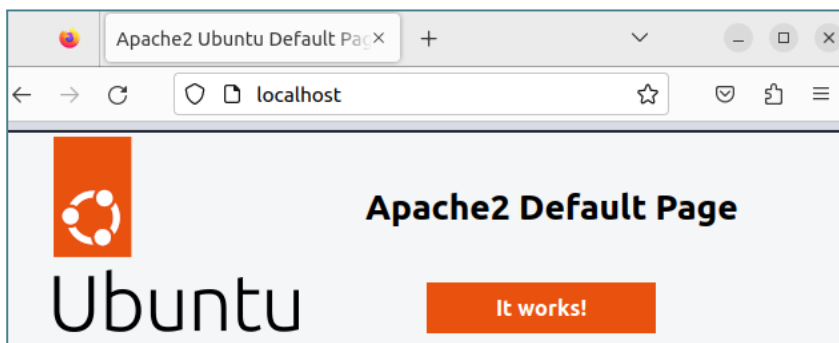
Note: Your php version may vary.

4> MYSQL SETUP

Start mysql:
sudo service mysql start

Log into mysql:
sudo mysql -u root -p
Enter password (enter)

Create database:
CREATE DATABASE drupal_db;

Check database was created:
show databases;

Create database user:
CREATE USER 'drupaluser'@'localhost' IDENTIFIED BY 'Password123!&';

Assign database permissions:
GRANT ALL PRIVILEGES ON drupal_db.* TO 'drupaluser'@'localhost';

Clear cache:
FLUSH PRIVILEGES;

Leave mysql:
quit;

Note: Anything underlined can be changed to suit your needs - but remember them for 'Step 6'. Highlighted details must match.

5> WEB SERVER SETUP & PERMISSIONS

Set permissions for the web server:
sudo chown -R www-data: /var/www/html/drupal*

Edit the appropriate Apache configuration file for your Drupal site:
sudo nano /etc/apache2/sites-available/000-default.conf
Add:
```
<Directory /var/www/>
        Options Indexes FollowSymLinks MultiViews
        AllowOverride All
        Order allow,deny
        allow from all
        # Uncomment this directive is you want to see apache2's
        # default start page (in /apache2-default) when you go to /
        #RedirectMatch ^/$ /apache2-default/
    </Directory>
```
Save file and exit: Ctrl +x, Y + Enter

Enable the rewrite module:
sudo a2enmod rewrite

Restart the web server:

sudo service apache2 restart

Check rewrite module is running:
sudo apache2ctl -M

6> INSTALL DRUPAL

Firefox, go to: http://localhost/drupal-10.1.2/

1. **Choose language:** English, British

(Save and continue >)

2. **Choose profile:** Standard

(Save and continue >)

3. **Verify requirements:** *(Should proceed without requiring intervention)*

4. **Set up database: Configuration**
    a. **Database name:** drupal_db
    b. **Database username:** drupaluser
    c. **Database password:** Password123!&
    d. **Advanced options:**
        i. Host: localhost
        ii. Port number: 3306
        iii. Transaction isolation level: READ COMMITTED
        iv. Table name prefix:

(Save and continue >)

5. **Install site:** this will now happen without intervention
6. **Set up translations:** this will now happen without intervention

7. **Configure Site:**
    a. **SITE INFORMATION**
        i. Site name: mysite
        ii. Site email address:

    b. **SITE MAINTENANCE ACCOUNT:**
        i. Username: superuser
        ii. Password: SecureM3!

    c. **REGIONAL SETTINGS:**
        i. Default country: United Kingdom
        ii. Default time zone: London

(Save and continue >)

8. **Finish translations: this will now happen without intervention.**

(Once complete you will be taken to the home page, logged in as the 'superuser' which was created at 7b.)

Note:
To view the website: http://localhost/drupal-10.1.2/ . **To administer:** http://localhost/drupal-10.1.2/user/login .
(Ensure that you are including the correct version of Drupal within yourURL - in this instance it is 10.1.2)