

# TOWiOS

## The Only Way is Open Source

### MOODLE INSTALLATION - UBUNTU 22.04.2 LTS

April 2023

- 1> INSTALL SOFTWARE
- 2> WEB SERVER (APACHE2) SETUP
- 3> DOWNLOAD MOODLE
- 4> MYSQL SETUP
- 5> APACHE2 AND MOODLE PERMISSIONS
- 6> MOODLE INSTALL



#### Note:

The following websites have been used for reference:

- [https://docs.moodle.org/401/en/Step-by-step Installation Guide for Ubuntu](https://docs.moodle.org/401/en/Step-by-step%20Installation%20Guide%20for%20Ubuntu)
- <https://download.moodle.org/releases/latest/>
- <https://moodle.org/mod/forum/discuss.php?d=335249>
- <https://www.devopsschool.com/tutorial/mysql/setting-changing-and-resetting-mysql-root-passwords.html>

The following instructions are to install Moodle VLE 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 apache2 mysql-client mysql-server php libapache2-mod-php graphviz aspell ghostscript
php-pspell php-curl php-gd php-intl php-mysql php-xml php-xmlrpc php-ldap php-zip php-soap
php-mbstring
```

### You will be asked to continue:

Do you want to continue? [Y/n] (Enter)

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

## 2> WEB SERVER (APACHE2) SETUP

### Amend the php.ini file:

```
sudo nano /etc/php/8.1/apache2/php.ini
```

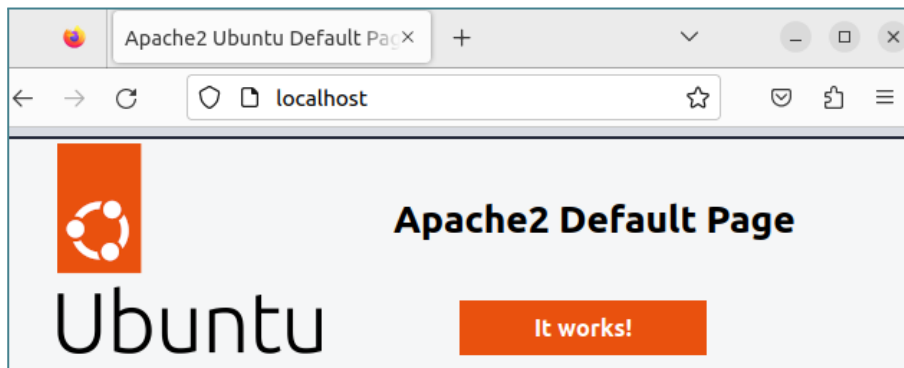
- Remove the comment (semi-colon ;) by line: **max\_input\_vars**
- Increase the size of **max\_input\_vars** to at least **5000**
- Locate **upload\_max\_filesize** and change value to = **20M**
- Locate **max\_file\_uploads** and change value to = **40**

### Restart 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.

## 3> DOWNLOAD MOODLE

### Download the latest .tgz Moodle file:

<https://download.moodle.org/releases/latest/>

### Extract the downloaded file to:

```
sudo tar -zxvf /home/username/Downloads/moodle-latest-401.tgz --directory /var/www/html/
```

**Note:** The version of Moodle may vary. At the time of writing, it was 401. Step 2 - enter the relevant username, and Moodle version.

#### 4> MYSQL SETUP

**Start mysql:**

```
sudo service mysql start
```

**Log into mysql:**

```
sudo mysql -u root -p  
Enter password (enter)
```

**Create moodle database:**

```
CREATE DATABASE moodle DEFAULT CHARACTER SET utf8mb4 COLLATE utf8mb4_unicode_ci;
```

**Check database was created:**

```
show databases;
```

**Create database user:**

```
create user 'moodleuser'@'localhost' IDENTIFIED BY 'password123';
```

**Assign database permissions:**

```
GRANT SELECT,INSERT,UPDATE,DELETE,CREATE,CREATE TEMPORARY TABLES,DROP,INDEX,ALTER  
ON moodle.* TO 'moodleuser'@'localhost';
```

**Leave mysql:**

```
quit;
```

*Note: Anything underlined can be changed to suit your needs - but remember the details for later. The highlighted details must match too.*

#### 5> WEB SERVER PERMISSIONS

**Set permissions for the web server:**

```
sudo chown -R www-data /var/www  
sudo chmod -R 755 /var/www
```

**Create directory for moodle data:**

```
sudo mkdir /var/moodledata
```

**Assign permissions to moodle web directories:**

```
sudo chown -R www-data /var/moodledata  
sudo chmod -R 777 /var/moodledata  
sudo chmod -R 0755 /var/www/html/moodle
```

**Restart the web server:**

```
sudo service apache2 restart
```

**6> INSTALL MOODLE**

1. **Firefox, go to:** <http://localhost/moodle>
2. **Language:** en (NEXT)
3. **Confirm Paths:**  
 web address = http://localhost/moodle  
 Moodle directory = /var/www/html/moodle  
 Data directory = /var/moodldata  
 (NEXT)
4. **Choose database driver:** Improved MySQL (native/mysqli)  
 (NEXT)
5. **Database Settings:**  
 host: localhost  
 database name: moodle  
 database user: moodleuser  
 database password: password123  
 (NEXT)
6. **Copyright notice:** Read  
 (CONTINUE)
7. **Server Checks:** (Everything should be green 'ok' - You may have a warning re HTTPS which is expected for this)  
 (CONTINUE)

*The system will then install - this can take a few moments, be patient. You will know when it is finished as it will ask you to: 'CONTINUE'.*

8. **Configure your main administrator account - General:**  
 username: admin  
 choose authentication method: Manual accounts  
 \*New password: Complex123!  
 \*First name: Admin  
 \*Last Name: User  
 \*Email Address:  
 Email visibility: Hidden  
 City/Town:  
 Country: United Kingdom  
 Timezone: Europe/London  
 Description:  
 Additional Names: (leave as is)  
 Optional: (Leave as is)  
 (UPDATE PROFILE)
9. **New settings - site home settings:**  
 Full site name: The Only Way is Open Source  
 Short name: TOWiOS

Site home summary: leave blank.  
 Location: Europe/London  
 Manage authentication: leave default - Disable  
 Support contact: enter an email address in.  
 Outgoing mail configuration:  
**(SAVE CHANGES)**

**Finished - Dashboard page loads for the admin user:**

The screenshot displays the Moodle dashboard for an administrator. The browser's address bar shows `localhost/moodle/my/`. The dashboard header includes the TOWiOS logo and navigation links: Home, Dashboard (active), My courses, and Site administration. On the right, there are notification and user profile icons (AU), and an 'Edit mode' toggle. The main content area starts with a 'Welcome, Admin!' message and a 'Timeline' section. The timeline filters are set to 'Next 7 days' and 'Sort by dates', with a search bar for activity types or names. Below the timeline, a message states 'No in-progress courses'. The 'Calendar' section shows a calendar for April 2023, with a 'New event' button and a calendar grid. The calendar grid shows dates 1 through 9, with the 8th highlighted. A help icon (?) is located in the bottom right corner of the calendar section.

**Note:** <http://localhost/moodle> will now load the installed Moodle site by default.