

Centurion University of Technology & Management

MOODLE CONFIGURATION USING UBUNTU

This document is a step-by-step process of Moodle Configuration using Ubuntu to develop institutional MOODLE LMS.



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TITLE : CONFIGURING MOODLE SITE USING UBUNTU SERVER AND MAKING A USER FRIENDLY LMS SYSTEM FOR SUBJECT REGISTRATION AND MANY MORE

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

STEP 1 : INSTALL UBUNTU

Server Edition amd64 Preferred

CLICK ON : <u>http://www.ubuntu.com/download</u>

STEP 2 : INSTALL APACHE/MYSQL/PHP

Open up Terminal and install the following :

sudo apt-get update

sudo apt-get install apache2 mysql-client mysql-server php5

You'll see an interface like this :

🚾 ubuntu@ip-172-31-39-144: ~	-		×
Warning: Permanently added 'ec2-13-235-135-255.ap-south-1.compute.amazonaws.com,13.235.135.255' (ECDSA) nown hosts. Welcome to Ubuntu 20.04.4 LTS (GNU/Linux 5.13.0-1028-aws x86_64)	to the	list	of k
<pre>* Documentation: https://help.ubuntu.com * Management: https://landscape.canonical.com * Support: https://ubuntu.com/advantage</pre>			
System information as of Mon Jun 13 05:12:44 UTC 2022			
System load:0.08Processes:118Usage of /:19.4% of 7.58GBUsers logged in:0Memory usage:2%IPv4 address for eth0:172.31.39.144Swap usage:0%0%1000000000000000000000000000000000000			
1 update can be applied immediately. To see these additional updates run: apt listupgradable			
The programs included with the Ubuntu system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.			
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.			
To run a command as administrator (user "root"), use "sudo <command/> ". See "man sudo_root" for details.			

👞 ubuntu@ip-172-31-39-144: ~

Get:18	<pre>http://ap-south-1.ec2.archive.ubuntu.com/ubuntu</pre>	focal/universe Translation-en [5124 kB]
Get:19	<pre>http://ap-south-1.ec2.archive.ubuntu.com/ubuntu</pre>	focal/universe amd64 c-n-f Metadata [265 kB]
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Get:30	<pre>http://ap-south-1.ec2.archive.ubuntu.com/ubuntu</pre>	focal-updates/universe Translation-en [208 kB]
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Reading	package lists Done	
ubuntu@	ip-172-31-39-144:~\$ sudo apt get full-upgrade	
T . T	11d	

E: Invalid operation get ubuntu@ip-172-31-39-144:~\$

a ubuntu@jp-172-31-39-144: /opt/moodle	- 0	\times
uppraded, 83 newly installed, 0 to remove and 0 not uppraded. eed to get 23.5 MB of archives. fran this operation 0.00 / MB of additional disk space will be used.		
i cer cuis operation, solar no radolitiono disk space will be used. No vou want to continue? [V/n] Y		
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et:28 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 libjpeg-turbo8 amd64 2.0.3-0ubuntu1.20.04.1 [117 kB]		
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et:31 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 libopenjp2-7 amd64 2.3.1-1ubuntu4.20.04.1 [141 kB]		
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er:36 http://ap-south-lec2.archive.uburtu.com/uburtu focal-updates/main amd64 11bes9 amd64 9.50-dfsg-5uburtu4.5 [2172 k8]		
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	■ 12.06.1	11:12
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STEP 3 : INSTALL ADDITIONAL SOFTWARE

Just type the following commands on your terminal.

sudo apt-get install aspell graphviz php5-pspell php5-curl php5-gd php5-intl
php5-mysql php5-xmlrpc php5-ldap

Restart Apache so that the modules are loaded correctly

sudo service apache2 restart



We will be using Git to install/update the Moodle Core Application

sudo apt-get install git-core

```
ECDSA key fingerprint is SHA256:YbKLpat00PRHDmidcrAJlN5jH8k3eiE8JmrXGw06CjQ.
 re you sure you want to continue connecting (yes/no/[fingerprint])? yes
  rning: Permanently added 'ec2-35-154-22-15.ap-south-1.compute.amazonaws.com,35.154.22.15' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 20.04.4 LTS (GNU/Linux 5.13.0-1029-aws x86_64)
 * Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage
 System information as of Mon Jun 13 05:38:39 UTC 2022
 System Load: 0.52 Processes: 116
Usage of /: 36.8% of 7.586B Users logged in: 0
Memory usage 200
 Memory usage: 27% IPv4 address for eth0: 172.31.39.144
 Swap usage: 0%
 updates can be applied immediately.
 ast login: Mon Jun 13 05:26:12 2022 from 103.120.31.178
          -172-31-39-144:~$ sudo apt install git
 eading package lists... Done
 uilding dependency tree
 eading state information... Done
git is already the newest version (1:2.25.1-1ubuntu3.4).
 it set to manually installed.
 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
```

STEP 4 : DOWNLOAD MOODLE

Setup your local repository and download Moodle, We will use /opt for the local repository.

Follow these steps :

```
cd /opt
sudo git clone git://git.moodle.org/moodle.git
cd moodle
sudo git branch -a
sudo git branch --track MOODLE_25_STABLE origin/MOODLE_25_STABLE
sudo git checkout MOODLE_25_STABLE
```

You'll get an interface like this :

git is alleady the hewest version (1.2.2).1-1000heus.4/.
git set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
ubuntu@ip-172-31-39-144: -\$ cd /opt
uhuntu@ip-172-31-39-144:/opt\$ sudo git clone git://git.moodle.org/moodle.git
Cloning into 'moodle'
remote: Counting objects: 1303961, done.
remote: Compressing objects: 100% (3703/3703), done.
remote: Total 1303961 (delta 4370), reused 5695 (delta 3749)
Receiving objects: 100% (1303961/1303961), 439.24 MiB 4.87 MiB/s, done.
Resolving deltas: 100% (974033)/974033), done.
Updating files: 100% (24202/24202), done.
ubuntu@ip-172-31-39-144:/opt\$ cd moodle
ubuntu@ip-172-31-39-144:/opt/mcodle\$ sudo git branch -a
* master
remotes/origin/HEAD -> origin/master
remotes/origin/KOUL_13_STARLE
remotes/origin/KOOUE_14_STARLE
remotes/onigin/KODUE_15_STABLE
remotes/onigin/KOULE_ID_STARLE
remotes/onigin/KOULE_1/SIABLE
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rendres/nei/in/WCOIF 99 STARF
rendes/onisin/NCODE 310 STABLE
remotes/neisin/WCODE 311 STABLE

STEP 5 : COPY LOCAL REPOSITORY TO /var/www

Copy these following steps into the terminal.

sudo cp -R /opt/moodle /var/www/

sudo mkdir /var/moodledata

sudo chown -R www-data /var/moodledata

sudo chmod -R 777 /var/moodledata

```
ubuntu@ip-172-31-39-144: /opt/moodle
```

remotes/origin/MODLE_14_STABLE
remotes/origin/MODLE_IS_STABLE
remotes/origin/MOUDLE_16_STABLE
remotes/origin/MOUDLE_1/_STABLE
remotes/origin/MODLE_18_STABLE
remotes/origin/MODLE_19_STABLE
remotes/origin/MOODLE_20_STABLE
remotes/origin/MOODLE_21_STABLE
remotes/origin/MOODLE_22_STABLE
remotes/origin/MOODLE_23_STABLE
remotes/origin/MOODLE_24_STABLE
remotes/origin/MOODLE_25_STABLE
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remotes/origin/MOODLE_29_STABLE
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remotes/origin/MOODLE_37_STABLE
remotes/origin/MOODLE_38_STABLE
remotes/origin/MOODLE_39_STABLE
remotes/origin/MOODLE 400 STABLE
remotes/origin/master
ubuntu@ip-172-31-39-144:/opt/moodle\$ sudo git branchtrack MOODLE 39 STABLE origin/MOODLE 39 STABLE
Branch 'MOODLE 39 STABLE' set up to track remote branch 'MOODLE 39 STABLE' from 'origin'.
ubuntu@ip-172-31-39-144:/opt/moodle\$ sudo git checkout MOODLE 39 STABLE
Updating files: 100% (10821/10821), done.
Switched to branch 'MOODLE 39 STABLE'
Your branch is up to date with 'origin/MOODLE 39 STABLE'.
ubuntu@ip-172-31-39-144:/opt/moodle\$ sudo cp -R /opt/moodle /var/www/html/
ubuntu@ip-172-31-39-144:/opt/moodle\$ sudo mkdir /var/moodledata
ubuntu@ip-172-31-39-144:/opt/moodle\$ sudo chown -R www-data /var/moodledata
ubuntu@ip-172-31-39-144:/opt/moodle\$ sudo chmod -R 777 /var/moodledata
ubuntu@ip-172-31-39-144:/opt/moodle\$ sudo chmod -R 0755 /var/www/html/moodle

STEP 6 : SETUP MYSQL SERVER

First we need to change the default storage engine to innodb

sudo vi /etc/mysql/my.cnf

Scroll down to the [mysqld] section and under Basic Settings add the following line under the last statement

default-storage-engine = innodb

In order to save my.cnf using the editor, type the following in sequence which will save :w then close the editor :q

:w

:q



Restart MySQL Server for changes to take affect

sudo service mysql restart

Now we need to create the Moodle MySQL User with the correct permissions

Use the password you created in step 1

mysql -u root -p

mysql>

CREATE DATABASE moodle DEFAULT CHARACTER SET utf8 COLLATE utf8_unicode_ci;

Where it says "moodledude" and "passwordformoodledude" you should change to the username and password of your choosing.

mysql>

GRANT SELECT,INSERT,UPDATE,DELETE,CREATE,CREATE TEMPORARY TABLES,DROP,INDEX,ALTER
ON moodle.* TO moodledude@localhost IDENTIFIED BY 'passwordformoodledude';

mysql>

quit;



STEP 7 : COMPLETE SETUP

• Note - If you are not comfortable using terminal to create the config.php file that needs to be created when going through the installer, you should temporarily make the webroot writable by doing the following:



After you have ran the installer and you have moodle setup, you NEED to revert permissions so that it is no longer writable using the below command.

sudo chmod -R 0755 /var/www/moodle

Open your browser and go to <u>http://IP.ADDRESS.OF.SERVER/moodle</u>

Follow the prompts selecting :

Database Type

Choose: mysqli

Installation							
Database							
Choose database driver							
Moodle supports several types of database servers. Please contact server administrator if you do not know which type to use.							
Type Improved MySQL (native/mysqli)							
« Previous Next »							
fnoodle							

Database Settings

Host server: localhost

Database: moodle

User: (the user you created when setting up the database)

Password: (the password for the user you created)

Tables Prefix: mdl_

d ▷ C (□ A Not secure 35.154.22.15/moodle/	install.php	0 🗸	≡ı	G	Ξ	
Database settings							
			l				
	The database name may contain only a	pnanumeric characters, dollar (\$) and underscore ().				÷	
	If the database currently does not exist, settings.	and the user you specify has permission, Moodle will attempt to create a new database with the correct permissio	ns and			l	
	Database host	localhost				l	
	Database name moodle					l	
	Database user					l	
Database password						l	
Tables prefix mdl_						l	
Database port							
Unix socket							
						-	

Environment Checks

This will indicate if any elements required to run moodle haven't been installed.

Next next next...

follow prompts and confirm installation

Installation Complete

<pre> Configuration completed Moodle made an attempt to save your configuration in a file in the root of your Moodle installation. The installer script was not able to automatically create a configuration file containing your chosen settings, probably because the Moodle directory is not writeable. You can manually copy the following code into a file unset(SCFR0); global SCFG; SCFG = new stdCillar(); SCFG = new stdCilla</pre>	⊲ ⊳ C	□ A Not secure 35.154.22.15/moodle/install.php	Ø			≡J	٦	Ξ
<pre>Modele made an attempt to save your configuration in a file in the root of your Modele installation.The installer script was not able to automatically create a config.php file containing your chosen settings, probably because the Modele directory is not writeable. You can manually copy the following code into a file write(SCFG); global SCFG; fSFG = new stellars(); fSFG-sobiater = 'reacle'; fSFG-sobia</pre>		Configuration completed						^
<pre></pre> <pre><td></td><td>Moodle made an attempt to save your configuration in a file in the root of your Moodle installation. The installer script was not able to automatically cre config.php file containing your chosen settings, probably because the Moodle directory is not writeable. You can manually copy the following code into named config.php within the root directory of Moodle.</td><td>ate a a file</td><td>a e</td><td></td><td></td><td></td><td></td></pre>		Moodle made an attempt to save your configuration in a file in the root of your Moodle installation. The installer script was not able to automatically cre config.php file containing your chosen settings, probably because the Moodle directory is not writeable. You can manually copy the following code into named config.php within the root directory of Moodle.	ate a a file	a e				
<pre>unset(SCG); global SCG; SCG = new stdlass(); SCG->dbtype = 'eysall'; SCG->dbtype = 'localbost'; SCG->dbtype = 'localbost'; SCG->dbtype = 'modledue'; SCG->dbtype = 'modledue'; 'dbtype : 'modledue'; 'dbtype : 'modledue'; SCG->dbtype = 'modledue'; SCG->dbtype = 'modledue'; SCG->dbtype : 'modledue'; // There is no phy closing tag in this file, // it is intentional because it prevents trailing whitespace problems!</pre>		php // Moodle configuration file</td <td></td> <td></td> <td></td> <td></td> <td></td> <td>ł</td>						ł
<pre>/; \$CFG->nemroot = 'http://35.154.22.15/moodle'; \$CFG->dataroot = '/var/moodledata'; \$CFG->datin = 'admin'; \$CFG->drectorypermissions = 0777; require_once(_DIR '/lib/setup.php'); // There is no php closing tag in this file, // it is intentional because it prevents trailing whitespace problems!</pre>		<pre>umset(\$CFG); global \$CFG; \$CFG = new stdClass(); \$CFG->dblibrary = 'mxsqli'; \$CFG->dblibrary = 'native'; \$CFG->dblost = 'localhost'; \$CFG->dblost = 'localhost'; \$CFG->dblost = 'modle'; \$CFG->dblost = 'modle'; \$CFG->dblost = 'mdl_'; \$CFG->dblost =</pre>						
		<pre>); \$CFG->mmuroot = 'http://35.154.22.15/moodle'; \$CFG->admin = 'var/moodledata'; \$CFG->admin = 'admin'; \$CFG->directorypermissions = 0777; require_once(_DIR '/lib/setup.php'); // There is no php closing tag in this file, // it is intentional because it prevents trailing whitespace problems!</pre>						

Congrats! You can now start using Moodle!

System Paths After Installation

After installing Moodle you should set the system paths.

Navigate to Site Administration > Server > System Paths

Input the following;

Path to Du: /usr/bin/du

Path to Apsell: /usr/bin/aspell

Path to dot: /usr/bin/dot

Save Changes

Installation

Paths Confirm paths Web address
The full address where Moodle will be accessed i.e. the address that users will enter into the address bar of their browser to access Moodle. It is not possible to access Moodle using multiple addresses. If your site is accessible via multiple addresses then choose the easiest one and set up a permanent redirect for each of the other addresses. If your site is accessible both from the Internet, and from an internal network (sometimes called an Intranet), then use the public address here. If the current address is not correct, please change the URL in your browser's address bar and restart the installation. Moodle directory The full path to the directory containing the Moodle code. Data directory A directory where Moodle will store all file content uploaded by users. This directory should be both readable and writeable by the web server user (usually 'www-data', 'nobody', or 'apache'). It must not be directly accessible over the web. If the directory does not currently exist, the installation process will attempt to create it.

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W	A Not secure 35.154.22.15/moodle/	Instail.php		 L9 =	8
	It is not possible to access Moodle usir redirect for each of the other addresse	ig multiple addresses. If your site is accessible via multiple addresses then choose the easiest one and set u s.	p a permanent		^
	If your site is accessible both from the	Internet, and from an internal network (sometimes called an Intranet), then use the public address here.			
	If the current address is not correct, ple	ease change the URL in your browser's address bar and restart the installation.			
	Moodle directory The full path to the directory containin	g the Moodle code.			l
	Data directory A directory where Moodle will store all	file content uploaded by users.			l
	This directory should be both readable	and writeable by the web server user (usually 'www-data', 'nobody', or 'apache').			I
	It must not be directly accessible over	the web.			I
	If the directory does not currently exist	, the installation process will attempt to create it.			
	Web address	http://35.154.22.15/moodle			
	Moodle directory	/var/www/html/moodle			l
	Data directory	/var/moodledata			l
		« Previous Next =			

Moodle 3	.9.14+ (Build: 202206	03)						
For information	about this version of Moodle, please se	ee the online Release Notes						
Server ch	ecks							
Name	Information	Report	Plugin	Status				
unicode		must be installed and enabled		ок				
database	mysql (8.0.29-0ubuntu0.20.04.3)	version 5.6 is required and you are running 8.0.29.0.0.20.04.3		ок				
php		• version 7.2.0 is required and you are running 7.4.3		ОК				
pcreunicode		should be installed and enabled for best results		ок				
php_extension	iconv	must be installed and enabled		ОК				
php_extension	mbstring	must be installed and enabled		ок				
php_extension	curl	must be installed and enabled		ОК				
php_extension	openssl	must be installed and enabled		ок				
php_extension	tokenizer	should be installed and enabled for best results		ок				
php_extension	xmlrpc	should be installed and enabled for best results		ок				
php_extension	soap	should be installed and enabled for best results		ок				
php_extension	ctype	must be installed and enabled		ок				
php_extension	mbstring	must be installed and enabled		OK				
php_extension	curl	must be installed and enabled		OK				
php_extension	openssl	must be installed and enabled		OK				
php_extension	tokenizer	should be installed and enabled for best results		ОК				
php_extension	xmlrpc	should be installed and enabled for best results		ок				
php_extension	soap	should be installed and enabled for best results		ОК				
php_extension	ctype	must be installed and enabled		OK				
php_extension	zip	must be installed and enabled		ок				
php_extension	zlib	must be installed and enabled		OK				
php_extension	gd	must be installed and enabled		ок				
php_extension	simplexml	must be installed and enabled		OK				
php_extension	spl	must be installed and enabled		ок				
php_extension	pcre	must be installed and enabled		OK				

Final Steps :

Instances EC2 Management 6	Console Step-by-step Installation Guide for Ub	🖸 (2108) Instalasi Moodle di AWS EC2 - 👌 🎢 Installation 🗙 📆 Moodle in English: Can't get past the 🗧 🕂	~ - D ×
⊲ ⊳ C	□ A Not secure 35.154.22.15/mood	/user/editadvanced.php?id=2 🦁 🗴) 🗐 🗉 🗄
	password as well as a valid email addres	You can create more admin accounts later on. Expand.	all
	▼ General		
	Username	admin	
	Choose an authentication method	Manual accounts	
	New password	The password must have at least 8 characters, at least 1 digit(s), at least 1 lower case letter(s), at least 1 upper case letter(s), at least 1 non-alphanumeric character(s) such as as *, -, or # Press enter to save changes Free password change	
	First name	Admin	
	Surname	User	
	Email address		
	Email display	Allow everyone to see my email address	
	MoodleNet profile ID		
	City/town		
		📱 🔎 🖬 😰 🚘 💇 🖷 🖉	へ ^{ENG} IN (中) (11:43) 13-06-2022

Now, You're good to go :

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≡ CUTM-LMS			🌲 🍺 Admin User 🔍 🝷
Dashboard			Customise this page
希 Site home			
🛗 Calendar	Recently accessed courses		Timeline
Private files			⊙ *
🖋 Content bank			1
✗ Site administration	No recent courses		
			No upcoming activities due
	Course overview		
	▼ All (except removed from view) ▼	Lacourse name 👻 🎫 Card 👻	Private files
			No files available
			Manage private files
	No courses		
			Online users
			1 online user (last 5 minutes) Admin User



Avita Patra

Dr. Anita Patra Registrar, CUTM

