# Testing Running Application and Database Locally

## Install Apache/MySQL/PHP and Dependencies

sudo add-apt-repository ppa:ondrej/php

sudo apt-get update

sudo apt install apache2 mysql-client mysql-server php7.4 libapache2-mod-php -y

At this point, check to see php versions installed:

sudo update-alternatives --config php

Text, timeline

Description automatically generated

If there’s version 8 installed, then run the following command to remove it:

sudo apt-get purge php8.\*

Then, check the php version again to confirm only 7.4 exists:

Text

Description automatically generated

sudo apt install graphviz ghostscript clamav php7.4-pspell php7.4-curl php7.4-gd php7.4-intl php7.4-mysql php7.4-xml php7.4-xmlrpc php7.4-ldap php7.4-zip php7.4-soap php7.4-mbstring -y

sudo service apache2 restart

## Download Moodle

cd /opt

sudo git clone git://git.moodle.org/moodle.gitText

Description automatically generated

cd moodle

sudo git branch -a

Text

Description automatically generated

sudo git branch --track MOODLE\_401\_STABLE origin/MOODLE\_401\_STABLE



sudo git checkout MOODLE\_401\_STABLE



## Copy local repository to /var/www/html/

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

sudo mkdir /var/moodledata

sudo chown -R www-data /var/moodledata

sudo chmod -R 777 /var/moodledata

sudo chmod -R 0755 /var/www/html/moodle

Text

Description automatically generated

sudo chmod -R 777 /var/www/html/moodle

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## AWS RDS Creation

Select MySQL:

## Graphical user interface, text, application Description automatically generated

Confirm MySQL version and template (free tier for testing):

Graphical user interface, text, application

Description automatically generated

Set DB name and credentials:

## Graphical user interface, text, application, email Description automatically generated

Confirm default settings for everything else and create database – take note of the endpoint:

Graphical user interface, application

Description automatically generated

Save admin username and password:

Graphical user interface, text, application, email

Description automatically generated

## Complete Setup

Navigate to http://{IP-Address}/moodle:

Graphical user interface, text, application

Description automatically generated

Change the path for moodledata to **/var/moodledata**:

Graphical user interface, text, application, email

Description automatically generatedGraphical user interface, text, application, chat or text message

Description automatically generated

Confirm DB Driver:

Graphical user interface, text, application, chat or text message

Description automatically generated

Enter database settings (use the RDS endpoint as value for Database Host):

Graphical user interface, text, application, email

Description automatically generated

Confirm:

Graphical user interface, text, application, email

Description automatically generated

Confirm installation of packages and other checks:

Graphical user interface, text, application, email

Description automatically generatedGraphical user interface, text, application, chat or text message

Description automatically generated

To address the max\_input\_vars error, check [this documentation](https://docs.moodle.org/401/en/Environment_-_max_input_vars):

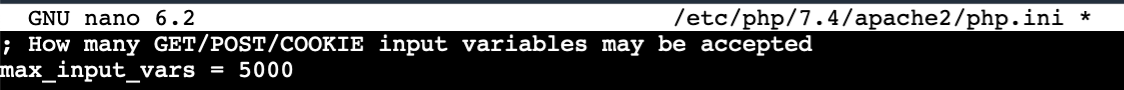
*e.g. in Ubuntu 20.x, within /etc/php/7.4/apache2/php.ini, find this section and remove the comment (semi-colon) and edit the line to increase the size:*

*; How many GET/POST/COOKIE input variables may be accepted*

*;max\_input\_vars = 1000*

***max\_input\_vars = 5000***





Wait for installation to complete:

Background pattern

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Configure main administrator account:

Graphical user interface, text, application, email

Description automatically generated

Quick homepage setup:

Graphical user interface, text, email

Description automatically generated

Complete the site registration:

Graphical user interface, text, application, email

Description automatically generated

Confirm receipt of site registration:Graphical user interface, text, application, email

Description automatically generated