Installing Moodle

From Newroco tech docs
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Prepreq

```
sudo apt-get install apache2
sudo apt-get install graphviz aspell php-pspell php-xmlrpc php-ldap php-soap
sudo apt-get install php-gd php-json php-pgsql php-curl
sudo apt-get install php-intl php-mcrypt php-imagick
sudo apt-get install php-zip php-xml php-mbstring php-ldap libapache2-mod-php
sudo apt-get install postgresql postgresql-contrib
```

Creating Moodle Database

These instructions assume that the database server and web server are on the same machine

Log into the PostgreSQL command line client. The exact form depends on how your PostgreSQL is configured but will be something like

```
$ psql -U postgres
Password for user postgres:
```

Create the user for the Moodle database and assign a password:

```
postgres=# CREATE USER moodleuser WITH PASSWORD 'quickM@ss50';
```

Provide a suitably strong password. Please note that the actual authentication method depends on your PostgreSQL server's pg_hba.conf file. Some authentication methods (like ident) do not require the password.

Create the database:

```
postgres=# CREATE DATABASE moodle WITH OWNER moodleuser;
```

Download and copy files into place

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

Git is what is called a "version control system". By using git it will much easier down the road to update the moodle core application. Within Step 5 there is a little more detail on why we put the moodle core application code in the /opt directory.

```
cd /opt
```

Download the Moodle Code and Index

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

or

sudo git clone git://github.com/moodle/moodle.git
```

If the error appear

```
fatal: The remote end hung up unexpectedly7.96 MiB | 179.00 KiB/s
fatal: early EOF
fatal: index-pack failed
```

try

```
git config --global http.postBuffer 524288000
```

Or

```
git config --global core.compression 0

Next, let's do a partial clone to truncate the amount of info coming down:

git clone --depth 1 <repo_URI>

When that works, go into the new directory and retrieve the rest of the clone:

git fetch --unshallow

or, alternately,

git fetch --depth=2147483647

Now, do a regular pull:

git pull --all
</code/

Change directory into the downloaded Moodle folder
<code>
cd moodle
```

Retrieve a list of each branch available

```
sudo git branch -a
```

Tell git which branch to track or use

```
sudo git branch --track MOODLE_33_STABLE origin/MOODLE_33_STABLE
```

Finally, Check out the Moodle version specified

```
sudo git checkout MOODLE_33_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
```

Explanation

Since we setup a local repository in the previous step, you will copy it to your webroot after any updates and making changes. Having your local repository outside of the webroot, like we have in /opt, you will be able to prepare and stage your upgrades in a more efficient manner. For example, you want to make some changes or add some plug-ins, you would download the plugin and copy it to your local moodle repository. After you have added the plug-in and any other changes you might have made you will need to edit the file located in /opt/moodle/.git/info/exclude. Within that file you want to tell git which files/folders to exclude when it pulls down the updates when you run your next "sudo git pull". An example entry would be the certificate mod located in /opt/moodle/mod/certificate so within the exclude file you want to add "/mod/certificate" below the last comments. You would add additional entries, 1 per line, for each plug-in or file you might have changed. If I were to change the favicon.ico file you would just add "favicon.ico" to the exclude file. Now when you run "sudo git pull" to update moodle to the latest version it will ignore those files and directories and just update the core moodle code. Before copying to your webroot to upgrade you want to make sure and download and copy over the latest versions of the plug-ins you might have added.

IMPORTANT

```
While there are now a number of places you can get the Moodle code, you are strongly advised to obtain Moodle from
moodle.org. If you run into problems it will be a great deal easier to support you.
```

Start Moodle install

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:

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

Installer

```
Change the path for moodledata : /var/moodledata

Database type : postgresql

Database Settings

Host server: localhost

Database: moodle

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

Password: passwordformoodledude (the password for the user you created)

Tables Prefix: mdl_

Open your browser and go to http://IP.ADDRESS.OF.SERVER/moodle
```

Or

```
sudo -u www-data /usr/bin/php7.0 admin/cli/install.php

                                 .-..-.
   _____                         | || |
  /____/-.---_  .---.  .---.  .-.| || | .---.
  | |  _   _  |/  _  \/  _  \/  _  || |/  __ \
  * | | | | | || |_| || |_| || |_| || || |___/
    |_| |_| |_|\_____/\_____/\_____||_|\_____)

Moodle 3.3.1+ (Build: 20170714) command line installation program
-------------------------------------------------------------------------------
== Choose a language ==
en - English (en)
? - Available language packs
type value, press Enter to use default value (en)
: en
-------------------------------------------------------------------------------
== Data directories permission ==
type value, press Enter to use default value (2777)
:
-------------------------------------------------------------------------------
== Web address ==
type value
: https://moodle.dbsberlin.newro.co/moodle
-------------------------------------------------------------------------------
== Data directory ==
type value, press Enter to use default value (/var/www/moodledata)
: /var/moodledata
-------------------------------------------------------------------------------
== Choose database driver ==
 pgsql
type value, press Enter to use default value (pgsql)
: pgsql
-------------------------------------------------------------------------------
== Database host ==
type value, press Enter to use default value (localhost)
: localhost
-------------------------------------------------------------------------------
== Database name ==
type value, press Enter to use default value (moodle)
: moodle
-------------------------------------------------------------------------------
== Tables prefix ==
type value, press Enter to use default value (mdl_)
: mdl_
-------------------------------------------------------------------------------
== Database port ==
type value, press Enter to use default value ()
: 5432
-------------------------------------------------------------------------------
== Database user ==
type value, press Enter to use default value (root)
: user_moodle
-------------------------------------------------------------------------------
== Database password ==
type value
: parola_moodle
-------------------------------------------------------------------------------
== Full site name ==
type value
: Moodle
-------------------------------------------------------------------------------
== Short name for site (eg single word) ==
type value
: Moodle
-------------------------------------------------------------------------------
== Admin account username ==
type value, press Enter to use default value (admin)
: admin_moodle
-------------------------------------------------------------------------------
== New admin user password ==
type value
: parola_moodle
-------------------------------------------------------------------------------
== New admin user email address ==
type value, press Enter to use default value ()
: name@newro.co
-------------------------------------------------------------------------------
== Upgrade key (leave empty to not set it) ==
type value
:
-------------------------------------------------------------------------------
== Copyright notice ==
Moodle  - Modular Object-Oriented Dynamic Learning Environment
Copyright (C) 1999 onwards Martin Dougiamas (http://moodle.com)

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it under the terms of the GNU General Public License as published by
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(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

See the Moodle License information page for full details:
http://docs.moodle.org/dev/License

Have you read these conditions and understood them?
type y (means yes) or n (means no)
: y
-------------------------------------------------------------------------------
== Setting up database ==
-->System
++ Success ++
```

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

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

For http

append into the confing file /var/www/http/moodle/config.php

```
$CFG->sslproxy=true;
```

Upgrade moodle to a new version

Verify the version prerequisites https://docs.moodle.org/dev/Moodle_<version>_release_notes.

Set up moodle into maintenance mode

```
sudo -u www-data /usr/bin/php /var/www/html/moodle/admin/cli/maintenance.php --enable
```

Backup the moodle folder (THere no need to copy the hole folder. Just need to have a copy of the custom changes to moodle : theme, config.php, custom plugins)

```
 cp -r /var/www/html/moodle/ /opt/old_moodle
```

Obtaining the new code from Git ([guide | https://docs.moodle.org/35/en/Git_for_Administrators])

```
cd /opt
git clone git://git.moodle.org/moodle.git
cd moodle
git branch -a                                                   (2)
git branch --track MOODLE_35_STABLE origin/MOODLE_35_STABLE     (3)
git checkout MOODLE_35_STABLE
```

Notice: If it doesn't work and pops up a message about "stash" just do:

```
 git stash
```

And afterwards redo the above step.

Delete the old version (Don't make your life harder make a back-up of the folder before deleting, or a snapshot of the vm)

```
rm -rf /var/www/html/moodle
```

Copy the new version and the custom config

```
cp -r /opt/moodle /var/www/html/
cp /opt/old_moodle/config.php /var/www/html/moodle/
cp -r /opt/old_moodle/theme/boost /var/www/html/moodle/theme/
```

Copy all the additionally installed blocks and plugins (compare the new moodle directory with the old_moodle directory and copy all the plugins or bloks):

```
cd  /opt/old_moodle/blocks
cp -r community attendance teaching_team karma participants quickfindlist turnitin /var/www/html/moodle/blocks
sudo cp -r /opt/old_moodle/local/mass_enroll /var/www/html/moodle/local
sudo cp -r /opt/old_moodle/grade/grading/form/multigraders /var/www/html/moodle/grade/grading/form
sudo cp -r /opt/old_moodle/mod/scheduler /var/www/html/moodle/mod/
sudo cp -r /opt/old_moodle/mod/turnitintooltwo /var/www/html/moodle/mod/
sudo cp -r /opt/old_moodle/plagiarism /var/www/html/moodle/
```

Run the installer via command line or by disabling the maintenance mode opening the browser and accessing the moodle address To not have problems with folder rights run

```
sudo chown -R www-data:www-data /var/www/html/moodle
sudo chmod -R 0777 /var/www/html/moodle
sudo chmod -R 0444 /var/www/html/moodle/config.php
sudo -u www-data /usr/bin/php /var/www/html/moodle/admin/cli/upgrade.php
```

After the installer has finished with success restore rights on the folder

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

Disable maintenance mode

```
sudo -u www-data /usr/bin/php /var/www/html/moodle/admin/cli/maintenance.php --disable
```

From the web app purge the theme cache:

```
Home/Site administration/Development/Purge caches
```

Notice: After disabling the maintance mode go to your website and finish the upgrade process via interface. Afterwards it might pop up the update plugins, check if they are stable with the current version of the moodle update and do them. If everything goes well it will pop up a reports page with the status of each settings, for safety reasons move the node_modules from moodle folder or delete it so it wont have a security breach due to it.Also for config.php if it pops up warning/critical messages you should leave permissions only for read to the file. And via moodle interface -> site administration -> disable the following if they pop up in the reports ... .swf , enable site(secure) cookies. For web cron warning enable the setting that will not allow anonymous users to access cron. via search

Bug : outcomes do not appear in right order on grader

Check the name of the outcomes that have this problem. Find their id into the moodle database and change the id of them to be into the right order.

update mdl_grade_items set itemnumber = 1005 where id = 2097; update mdl_grade_items set itemnumber = 1001 where id = 2098;

Reset User Password

Note: Run the command with a space in front of it so it is not stored in the commands history

```
sudo -u www-data /usr/bin/php <moodle_path>/admin/cli/reset_password.php --username=<username> --password=<password>
```

Bug : login does not work after update

Since 3.5 or so they implemented a security fix , but since not all the plugins haven't yet implemented this feature not even in 3.6 one quickaround would be to edit config.php and add the following line :

//security check for moodle <---> plugins disable token

$CFG->disablelogintoken = true;

Bug : save settings doesnt work

Spawned at 3.5 + so on update to 3.6+ or other version it might pop up go to moodle->theme->boost->core_admin->settings.mustache and add the following :

```
      {{#params}}
          <input type="hidden" name="Template:Name" value="Template:Value">
          <input type="hidden" name="action" value="save-settings">   <----- this is the line that needs to be added
      Template:/params
```

Increase disk space

The second disk used for moodle date has no partition created (e.g. /dev/vda1), instead it's using the whole disk (/dev/vda) as a partitionless filesystem. If you need to increase it here's how you can do it.

Put moodle in maintenance mode:

```
sudo -u www-data /usr/bin/php /var/www/html/moodle/admin/cli/maintenance.php --enable
```

Go to the host, shutdown the VM, increase the disk image and start the VM.

```
virsh shutdown moodle

qemu-img resize /moodle_data/moodle_data.qcow2 +50G

virsh start moodle
```

After the VM started SSH back to the moodle VM and increase the volume at the VM level as well

```
umount /dev/vda

e2fsck -f /dev/vda

resize2fs /dev/vda

mount /dev/disk/by-uuid/8642b96b-5e42-4211-b116-a86726398693 /var/moodledata
```

After finishing disable the maintenance mode on moodle

```
sudo -u www-data /usr/bin/php /var/www/html/moodle/admin/cli/maintenance.php --disable
```

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