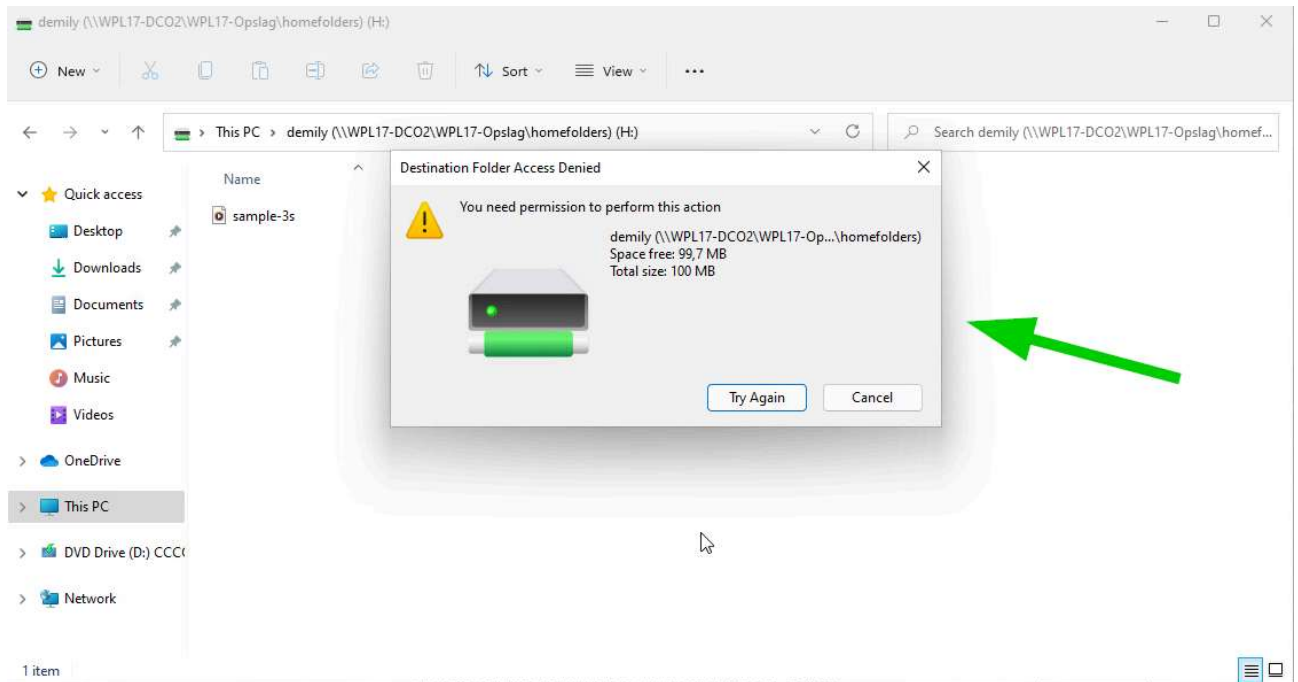


Een tekstbestand gaat niet want deze wordt niet toegelaten



Jelte Swinnen

Video LMS

<https://youtu.be/bDpQ4bB-5ck>

Installatie LMS (Moodle)

Download de laatste versie van moodle van de officiële website.

wget <https://download.moodle.org/download.php/stable404/moodle-latest-404.tgz>

Unzip het bestand naar de juiste map.

```
sudo mkdir /var/www/html/moodle2
```

```
sudo tar -xvzf /home/installer/Downloads -C /var/www/html/moodle2
```

```
installer@WPL17MoodleServer: /var/www/html/moodle2$ ls
admin          CONTRIBUTING.md  install.php      portfolio
analytics      COPYING.txt     INSTALL.txt      privacy
auth           course          iplookup        question
availability   customfield     lang            rating
backup         dataformat      lib             README.md
badges         draftfile.php  local           report
behat.yml.dist editmode.php    login           reportbuilder
blocks         enrol          media           repository
blog           error           message         rss
brokenfile.php favourites      mnet            search
cache          file.php       mod             security.txt
calendar       files          moodlenet       tag
cohort         filter         my              theme
comment        githash.php   notes           tokenpluginfile.php
communication  grade         npm-shrinkwrap.json TRADEMARK.txt
competency     group         package.json    user
completion     Gruntfile.js  payment         userpix
composer.json  h5p           phpcs.xml.dist  version.php
composer.lock  help_ajax.php phpunit.xml.dist webservice
config-dist.php help.php       pix
config.php     index.php     plagiarism
contentbank    install      pluginfile.php
installer@WPL17MoodleServer: /var/www/html/moodle2$
```

sudo mkdir /var/moodledata

Verander de rechten van deze mappen.

sudo chown -R www-data /var/moodledata

sudo chmod -R 777 /var/moodledata

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

Installeer alle dependencies.

sudo apt install apache2 libapache2-mod-php php-mysql php-mbstring php-curl php-tokenizer php-xmlrpc
php-soap php-zip php-gd php-xml php-intl mariadb-server -y

sudo systemctl enable apache2

sudo systemctl start apache2

Database aanmaken.

sudo mysql -u root -p

CREATE DATABASE moodle DEFAULT CHARACTER SET utf8mb4 COLLATE utf8mb4_unicode_ci;

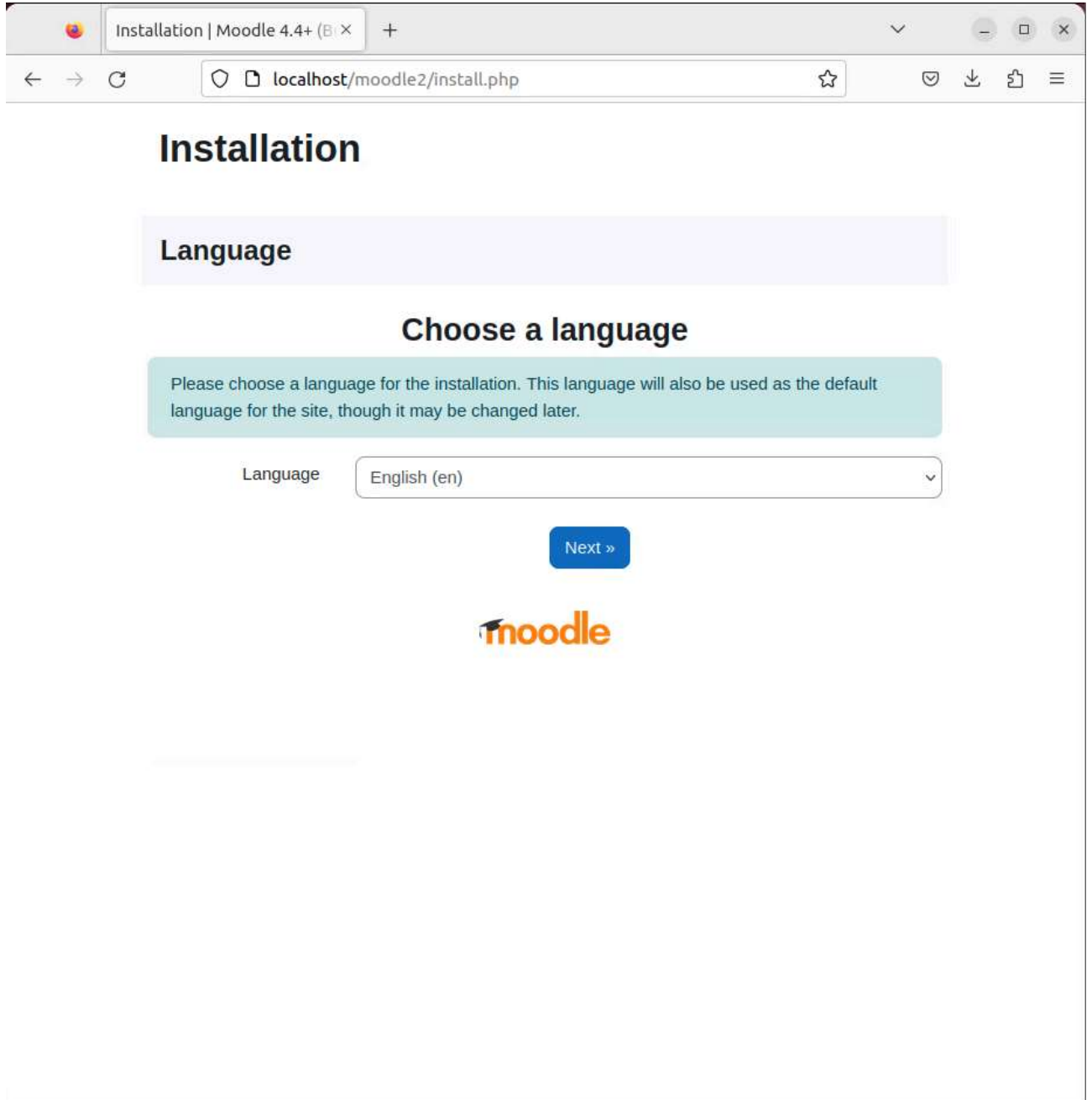
create user 'moodledude'@'localhost' IDENTIFIED BY 'passwordformoodledude';

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

quit;

Kies hier natuurlijk voor een veilig wachtwoord.

Nu kunnen we in de browser naar <http://localhost/moodle2> surfen om Moodle te configureren.



The screenshot shows a web browser window with the title "Installation | Moodle 4.4+ (B)". The address bar shows "localhost/moodle2/install.php". The main heading is "Installation". Below it, there is a section titled "Language". The instruction says "Choose a language". A message box states: "Please choose a language for the installation. This language will also be used as the default language for the site, though it may be changed later." Below this, there is a label "Language" and a dropdown menu showing "English (en)". A blue button labeled "Next »" is positioned below the dropdown. At the bottom, the Moodle logo is displayed.

Installation | Moodle 4.4+ (B...

localhost/moodle2/install.php

address bar or 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.

Web address

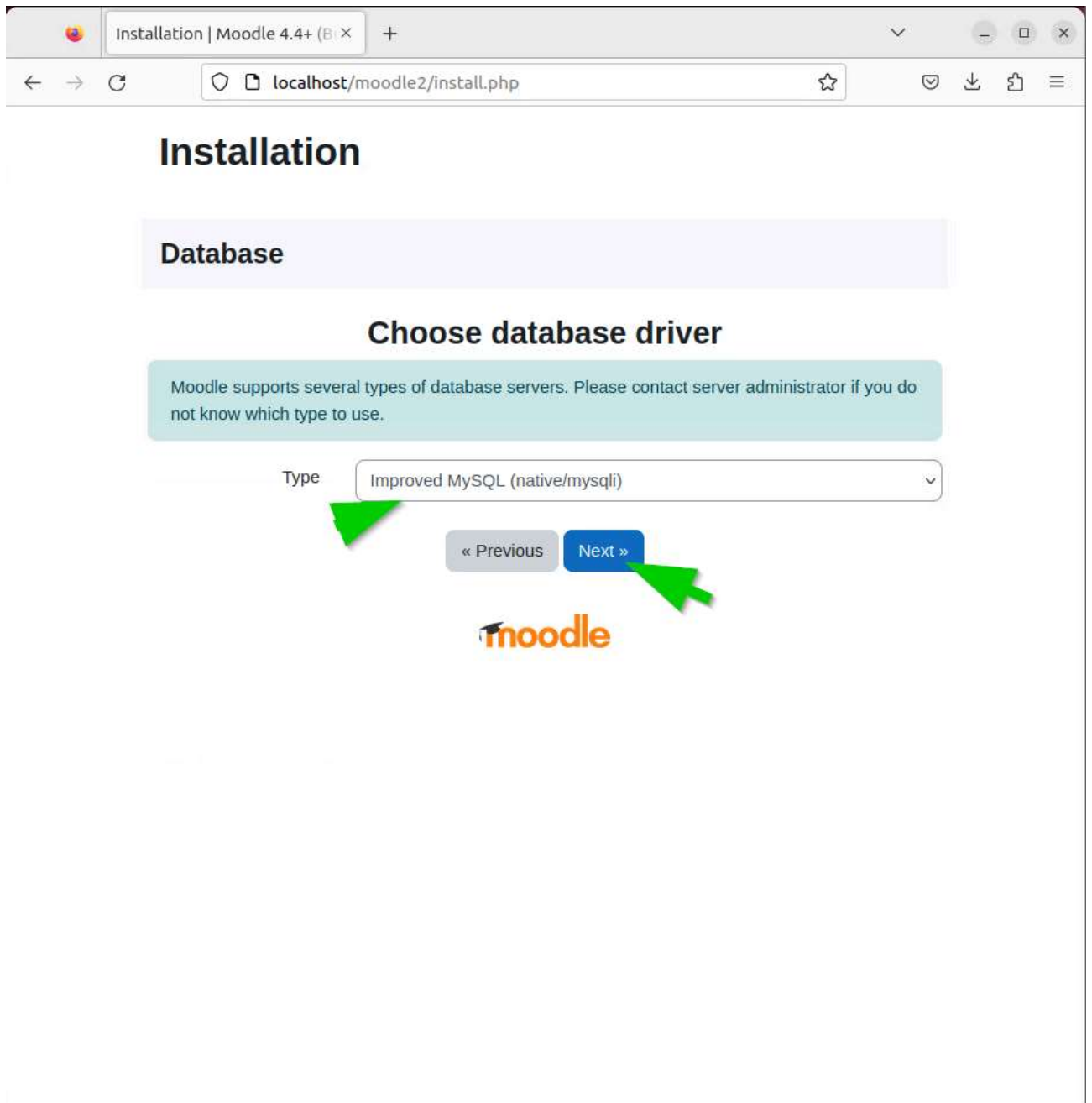
Moodle directory

Data directory

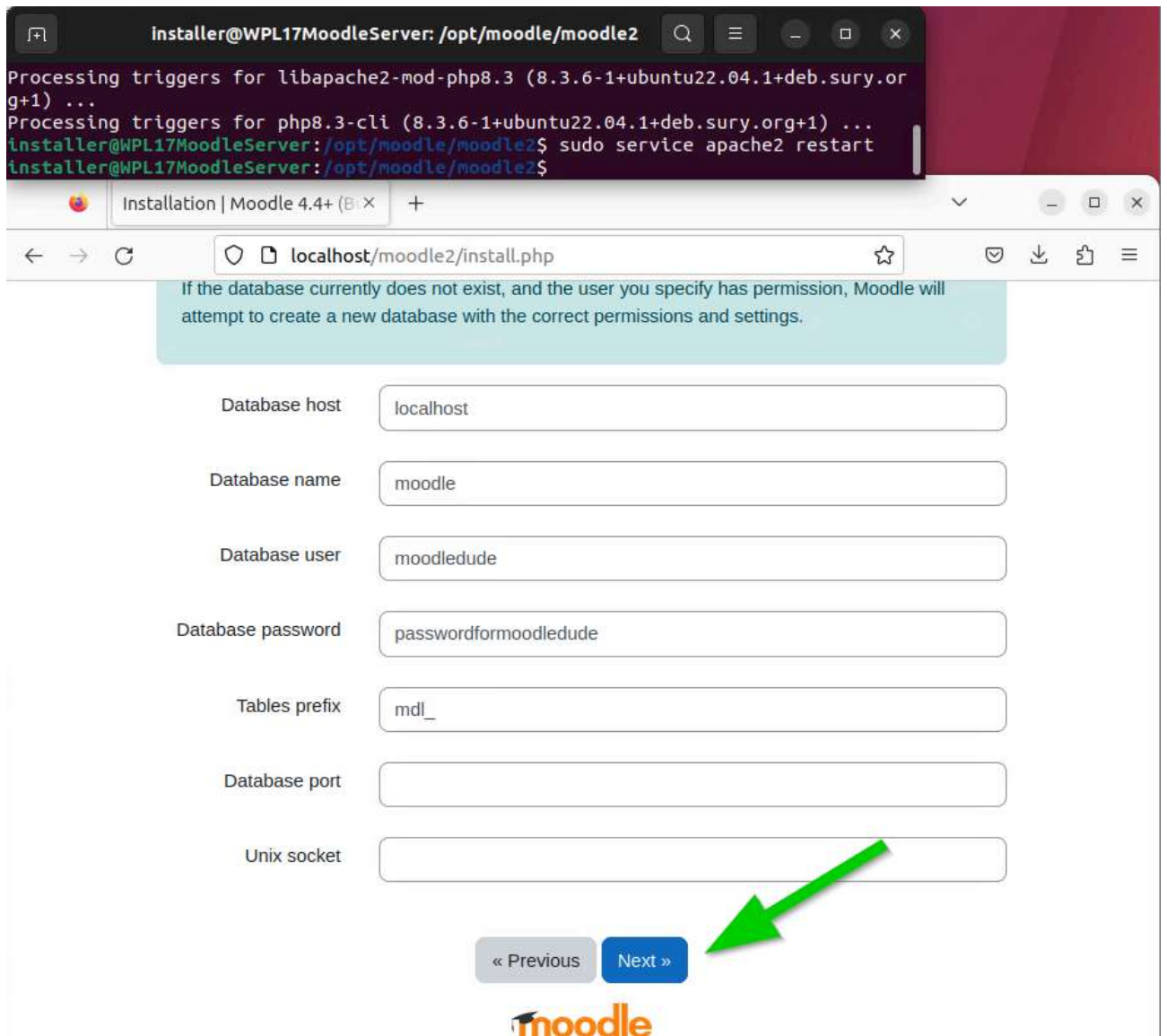
« Previous Next »

moodle

Hier moeten we de moodle data map specificeren.

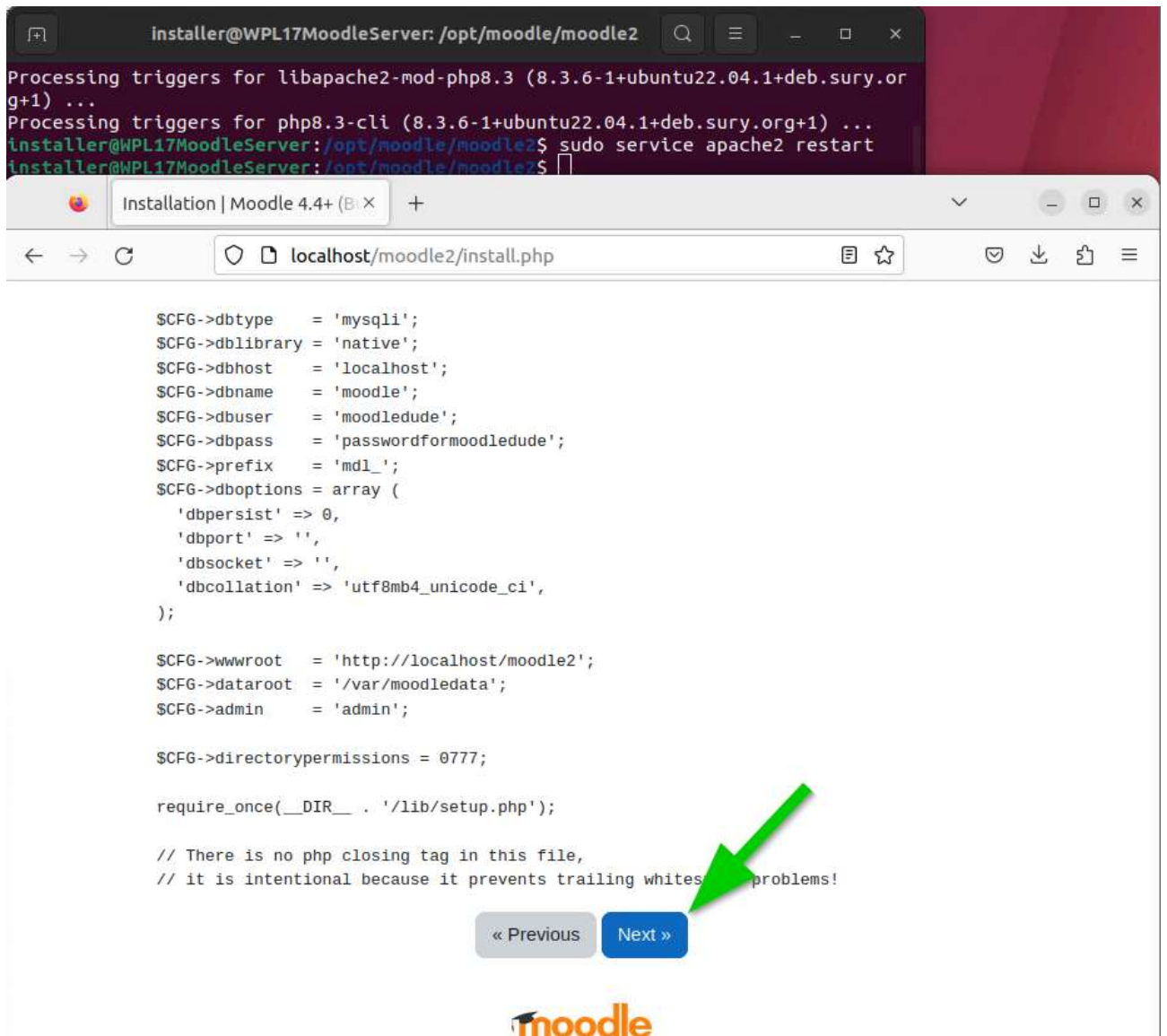


Als database selecteer je mysql.



Vul hier de database instellingen in die we in de vorige stappen hebben aangemaakt.

Hierna zal Moodle een check uitvoeren om te kijken of alle dependencies zijn geïnstalleerd. Moesten er nog missen kan je die makkelijk installeren via de terminal.



The image shows a terminal window at the top and a web browser window below it. The terminal window displays the command `sudo service apache2 restart` being executed. The web browser window shows the Moodle installation page at `localhost/moodle2/install.php`. The page contains configuration settings for the database and web root, followed by a green arrow pointing to the `Next »` button.

```
Processing triggers for libapache2-mod-php8.3 (8.3.6-1+ubuntu22.04.1+deb.sury.org+1) ...
Processing triggers for php8.3-cli (8.3.6-1+ubuntu22.04.1+deb.sury.org+1) ...
installer@WPL17MoodleServer:/opt/moodle/moodle2$ sudo service apache2 restart
installer@WPL17MoodleServer:/opt/moodle/moodle2$
```

Installation | Moodle 4.4+ (B: X) +

localhost/moodle2/install.php

```
$CFG->dbtype = 'mysqli';
$CFG->dblibrary = 'native';
$CFG->dbhost = 'localhost';
$CFG->dbname = 'moodle';
$CFG->dbuser = 'moodledude';
$CFG->dbpass = 'passwordformoodledude';
$CFG->prefix = 'mdl_';
$CFG->dboptions = array (
    'dbpersist' => 0,
    'dbport' => '',
    'dbsocket' => '',
    'dbcollation' => 'utf8mb4_unicode_ci',
);

$CFG->wwwroot = 'http://localhost/moodle2';
$CFG->dataroot = '/var/moodledata';
$CFG->admin = 'admin';

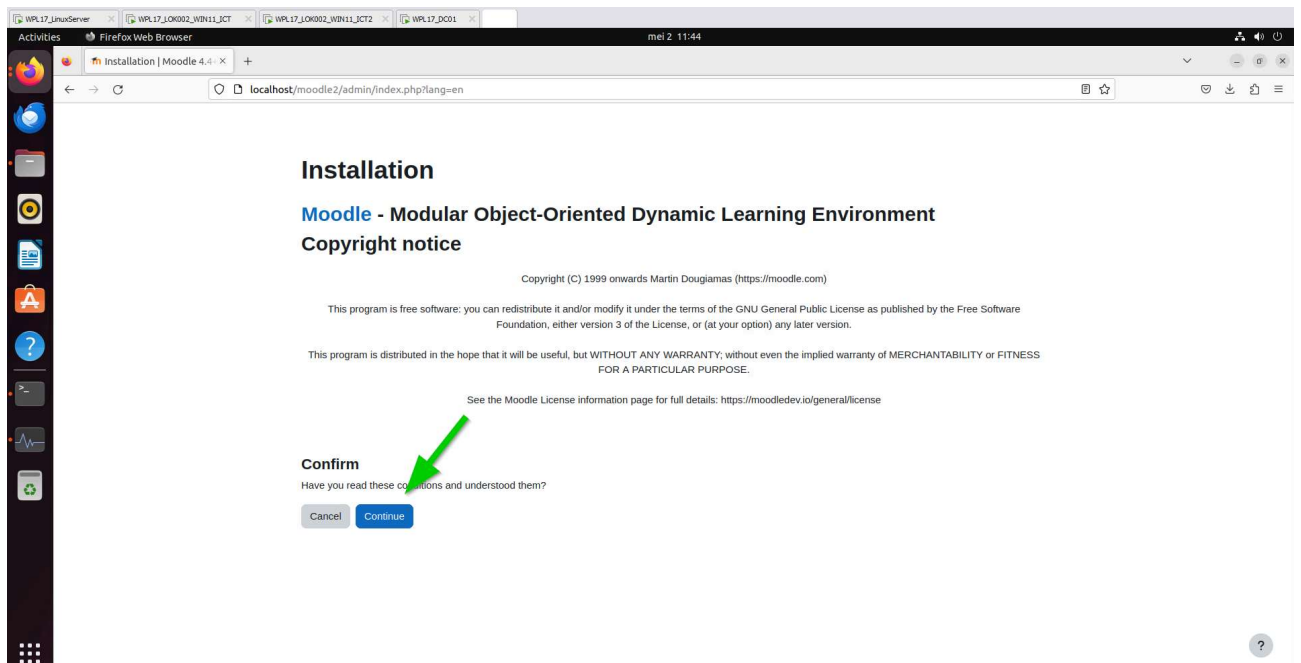
$CFG->directorypermissions = 0777;

require_once(__DIR__ . '/lib/setup.php');

// There is no php closing tag in this file,
// it is intentional because it prevents trailing whitespaces problems!
```

« Previous Next »

moodle



Instal x

Transiti

Transiti

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admin/

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localhost/moodle2/user/editadvanced.php?id=2

📄 ☆

📧 ⬇️ 📁 ☰

Expand all

▼ General

Username

?

admin

Choose an authentication method

?

Manual accounts

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 special character(s) such as *, -, or #

New password

!

?

.....

✎

👁

☐ Force password change

?

First name

!

Admin

Last name

!

User

Email address

!

jelte.swinnen@student.pxl.be

Email visibility

?

Hidden

⬆

City/town

Hasselt

Select a country

Belgium

⬆

Timezone


Europe/Brussels


⬆

?

Maak de administrator gebruiker aan.

localhost/moodle2/user/editadvanced.php?id=2


Email address 

Email visibility 

City/town

Select a country



Timezone

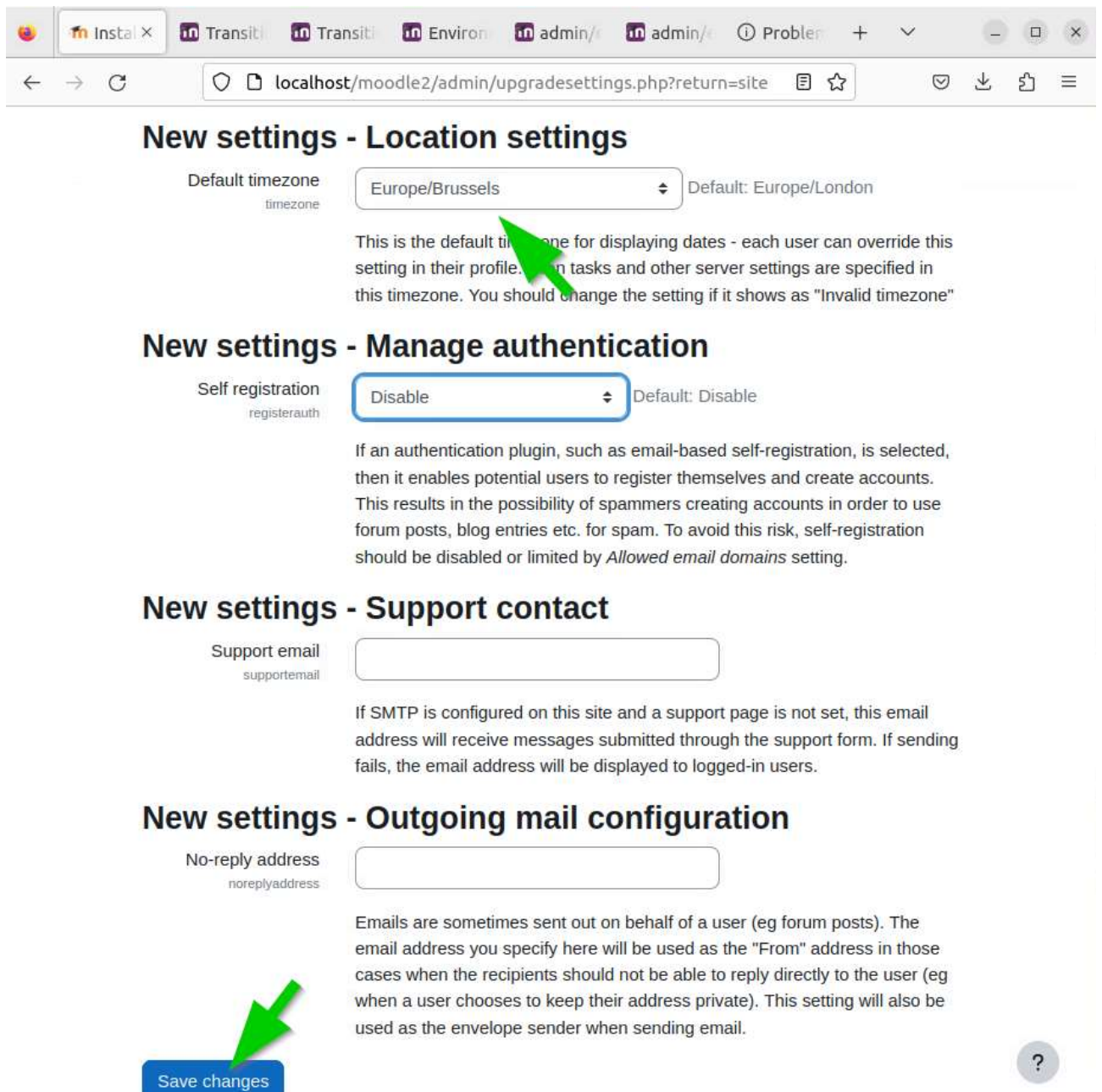
Description 

HTML format

> Additional names

> Optional

 Required 



New settings - Location settings

Default timezone timezone Default: Europe/London

This is the default time zone for displaying dates - each user can override this setting in their profile. Cron tasks and other server settings are specified in this timezone. You should change the setting if it shows as "Invalid timezone"

New settings - Manage authentication

Self registration registerauth Default: Disable

If an authentication plugin, such as email-based self-registration, is selected, then it enables potential users to register themselves and create accounts. This results in the possibility of spammers creating accounts in order to use forum posts, blog entries etc. for spam. To avoid this risk, self-registration should be disabled or limited by *Allowed email domains* setting.

New settings - Support contact

Support email supportemail

If SMTP is configured on this site and a support page is not set, this email address will receive messages submitted through the support form. If sending fails, the email address will be displayed to logged-in users.

New settings - Outgoing mail configuration

No-reply address noreplyaddress

Emails are sometimes sent out on behalf of a user (eg forum posts). The email address you specify here will be used as the "From" address in those cases when the recipients should not be able to reply directly to the user (eg when a user chooses to keep their address private). This setting will also be used as the envelope sender when sending email.

[Save changes](#)

Firewall voor apache configureren

```
sudo ufw allow "Apache Full"
```

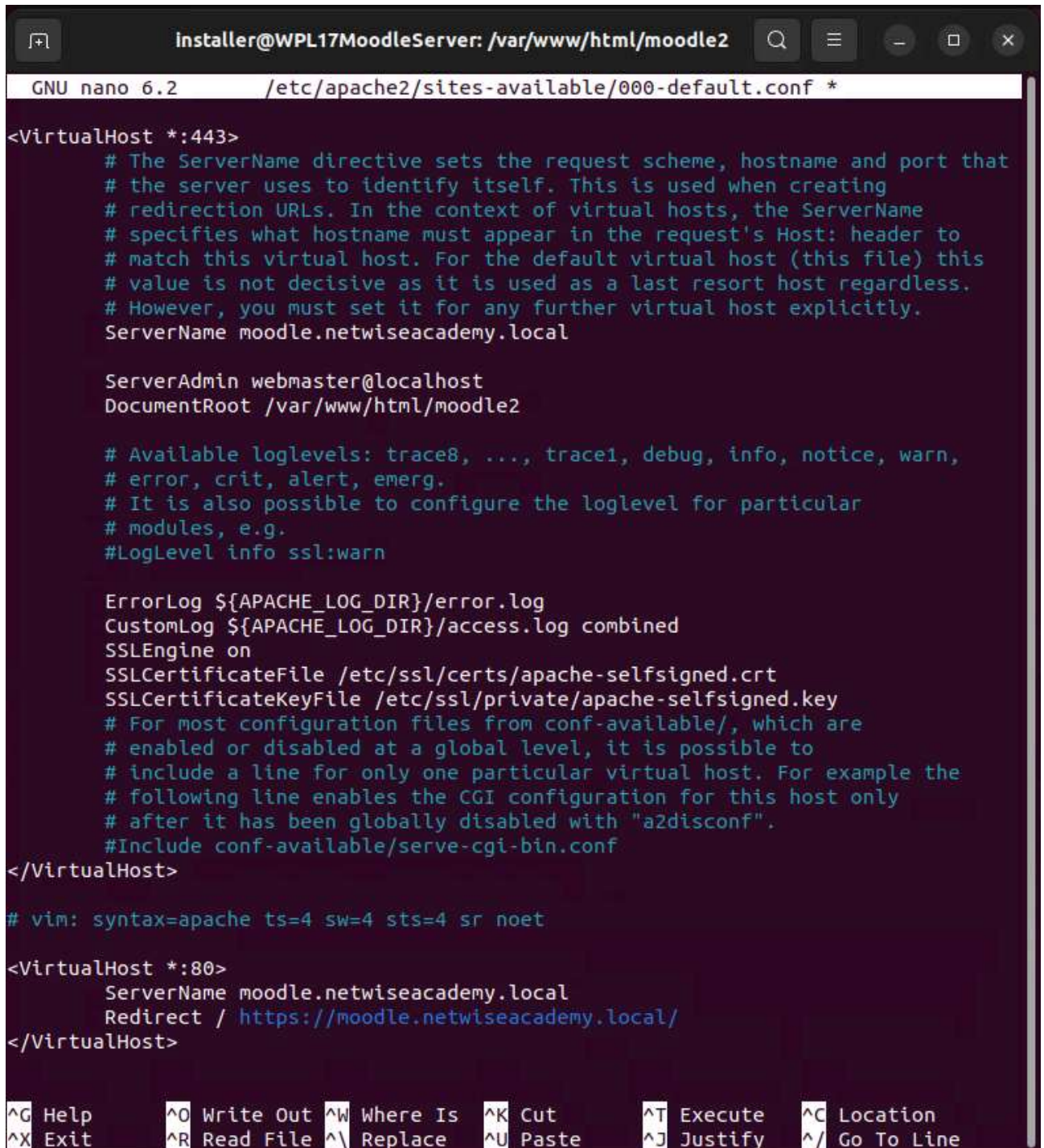
Dit commando zet poort 80 en 443 open voor deze server.

HTTPS voor Moodle.

Certificaat aanmaken.

```
sudo openssl req -x509 -nodes -days 365 -newkey rsa:2048 -keyout /etc/ssl/private/apache-selfsigned.key  
-out /etc/ssl/certs/apache-selfsigned.crt
```

Configuratie virtual host.



```
Installer@WPL17MoodleServer: /var/www/html/moodle2
GNU nano 6.2 /etc/apache2/sites-available/000-default.conf *

<VirtualHost *:443>
    # The ServerName directive sets the request scheme, hostname and port that
    # the server uses to identify itself. This is used when creating
    # redirection URLs. In the context of virtual hosts, the ServerName
    # specifies what hostname must appear in the request's Host: header to
    # match this virtual host. For the default virtual host (this file) this
    # value is not decisive as it is used as a last resort host regardless.
    # However, you must set it for any further virtual host explicitly.
    ServerName moodle.netwiseacademy.local

    ServerAdmin webmaster@localhost
    DocumentRoot /var/www/html/moodle2

    # Available loglevels: trace8, ..., trace1, debug, info, notice, warn,
    # error, crit, alert, emerg.
    # It is also possible to configure the loglevel for particular
    # modules, e.g.
    #LogLevel info ssl:warn

    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined
    SSLEngine on
    SSLCertificateFile /etc/ssl/certs/apache-selfsigned.crt
    SSLCertificateKeyFile /etc/ssl/private/apache-selfsigned.key
    # For most configuration files from conf-available/, which are
    # enabled or disabled at a global level, it is possible to
    # include a line for only one particular virtual host. For example the
    # following line enables the CGI configuration for this host only
    # after it has been globally disabled with "a2disconf".
    #Include conf-available/serve-cgi-bin.conf
</VirtualHost>

# vim: syntax=apache ts=4 sw=4 sts=4 sr noet

<VirtualHost *:80>
    ServerName moodle.netwiseacademy.local
    Redirect / https://moodle.netwiseacademy.local/
</VirtualHost>

^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute   ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify   ^_ Go To Line
```

De poort heb ik aangepast naar 443 voor https. Ook de document root aangepast zodat je gewoon naar de server kan surfen zonder /moodle2 te typen. SSL instellingen heb ik ook toegevoegd. En op het einde een virtual host aangemaakt op poort 80 om http naar https te redirecten.

Moodle config aanpassen.



```
installer@WPL17MoodleServer: /var/www/html/moodle2
GNU nano 6.2 config.php
<?php // Moodle configuration file

unset($CFG);
global $CFG;
$CFG = new stdClass();

$CFG->dbtype      = 'mysqli';
$CFG->dblibrary   = 'native';
$CFG->dbhost      = 'localhost';
$CFG->dbname       = 'moodle';
$CFG->dbuser       = 'moodledude';
$CFG->dbpass      = 'passwordformoodledude';
$CFG->prefix      = 'mdl_';
$CFG->dboptions   = array (
    'dbpersist' => 0,
    'dbport'    => '',
    'dbsocket'   => '',
    'dbcollation' => 'utf8mb4_unicode_ci',
);

$CFG->wwwroot     = 'https://moodle.netwiseacademy.local';
$CFG->dataroot    = '/var/moodledata';
$CFG->admin       = 'admin';

$CFG->directorypermissions = 0777;

require_once(__DIR__ . '/lib/setup.php');

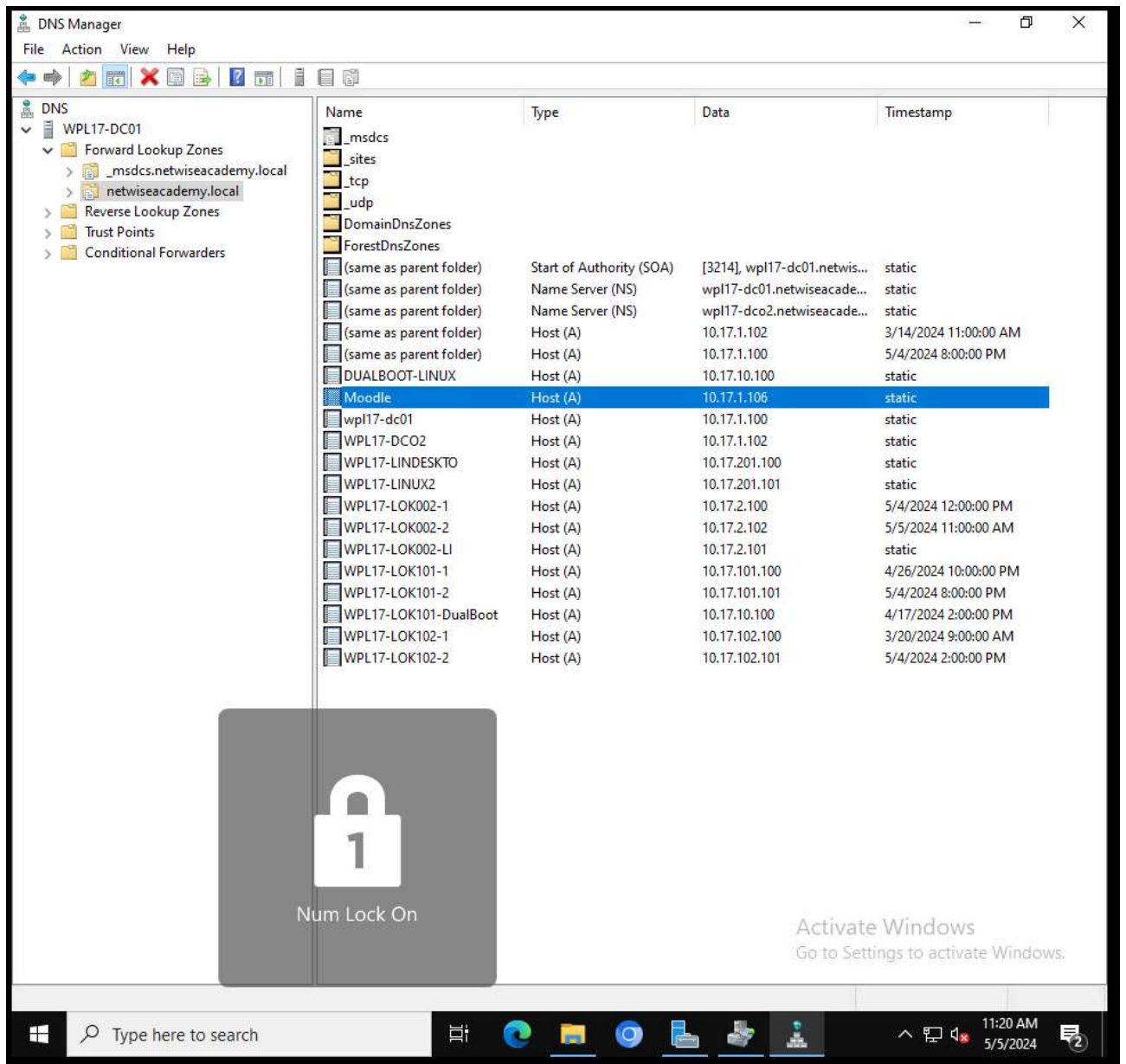
// There is no php closing tag in this file,
// it is intentional because it prevents trailing whitespace problems!
```

[Read 30 lines]

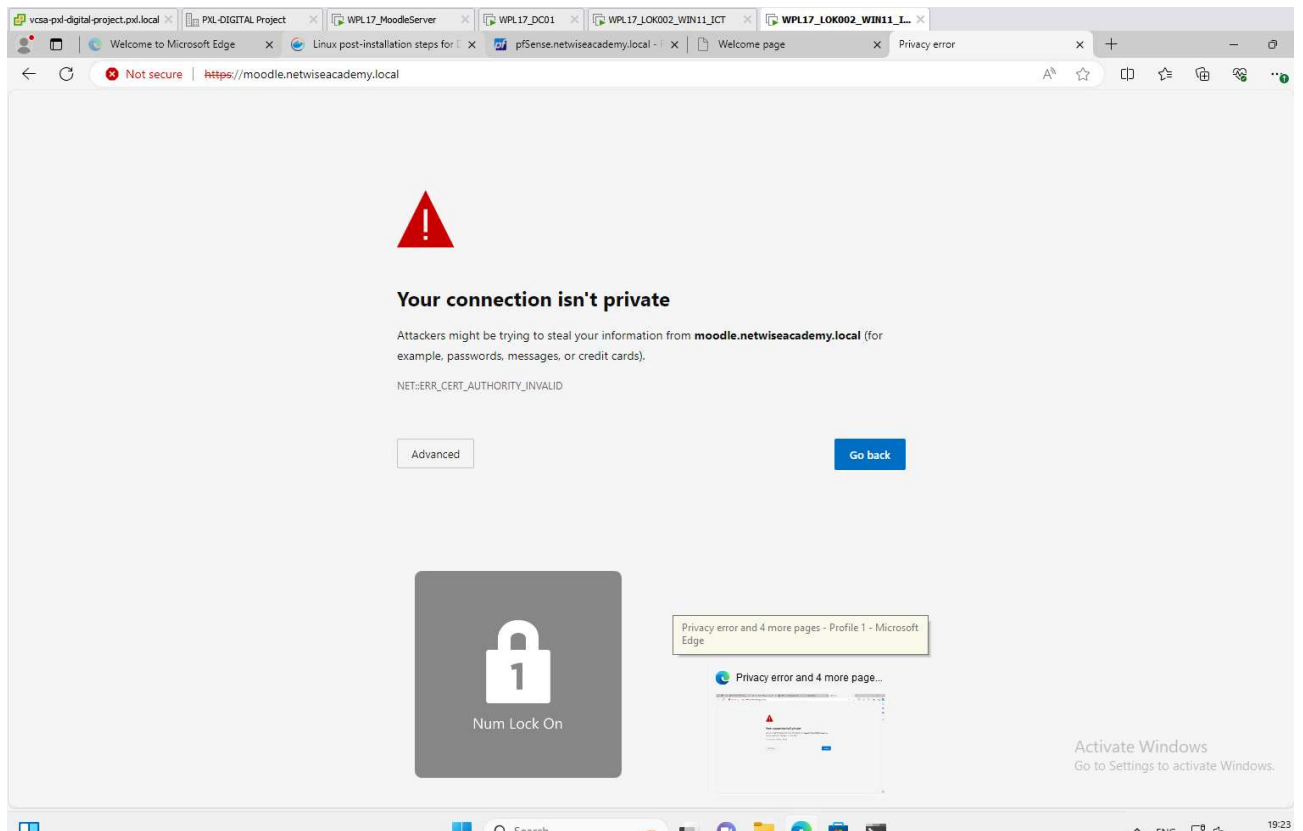
^G Help	^O Write Out	^W Where Is	^K Cut	^T Execute	^C Location
^X Exit	^R Read File	^_ Replace	^U Paste	^J Justify	^_ Go To Line

Http heb ik naar https veranderd en de wwwroot de dns naam van de server gezet.

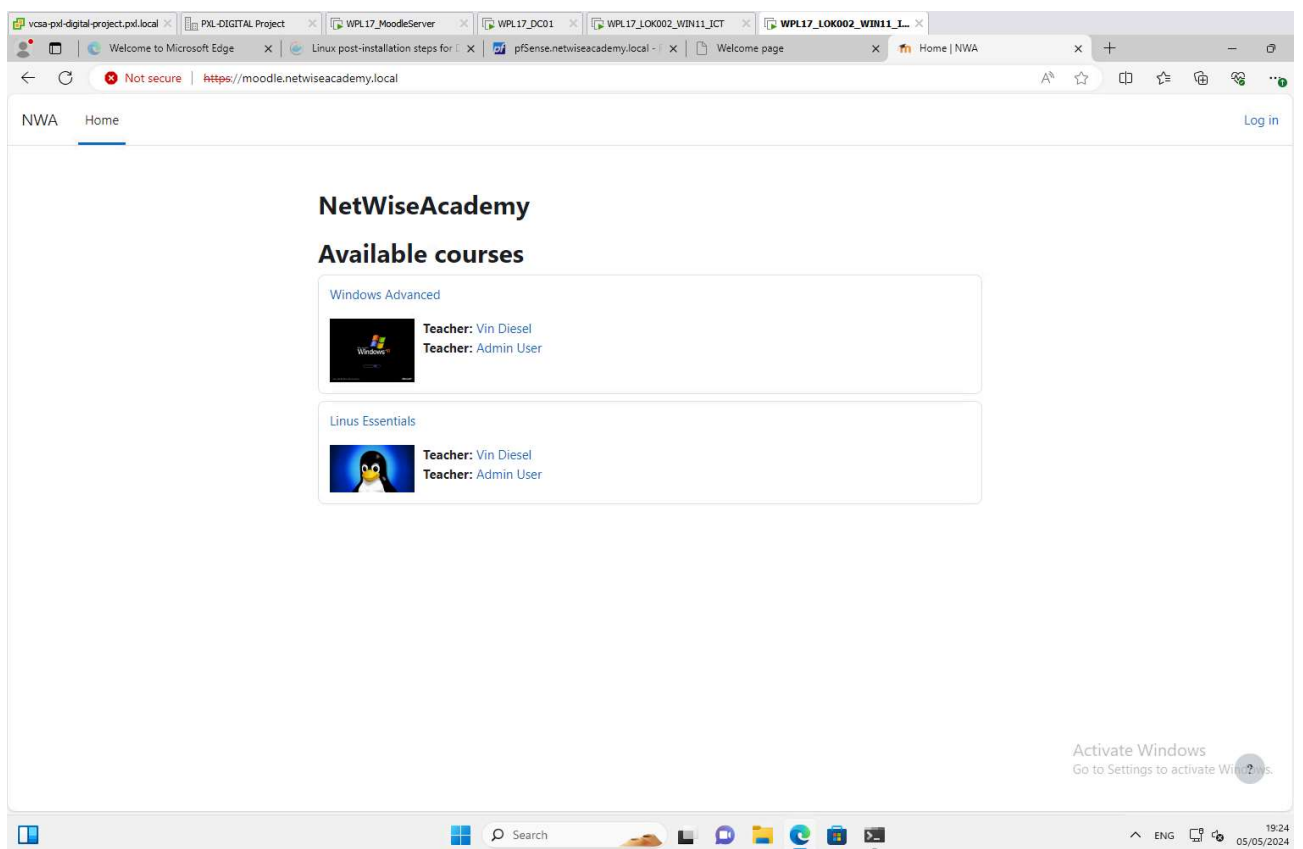
Moodle server toevoegen aan de dns instellingen van de domain controllers.



Vanop een andere pc kunnen we nu proberen of moodle werkt.



Accepteer het certificaat.



Moodle werkt!