

Moodle

Moodle Integration code



Useful Tutorials

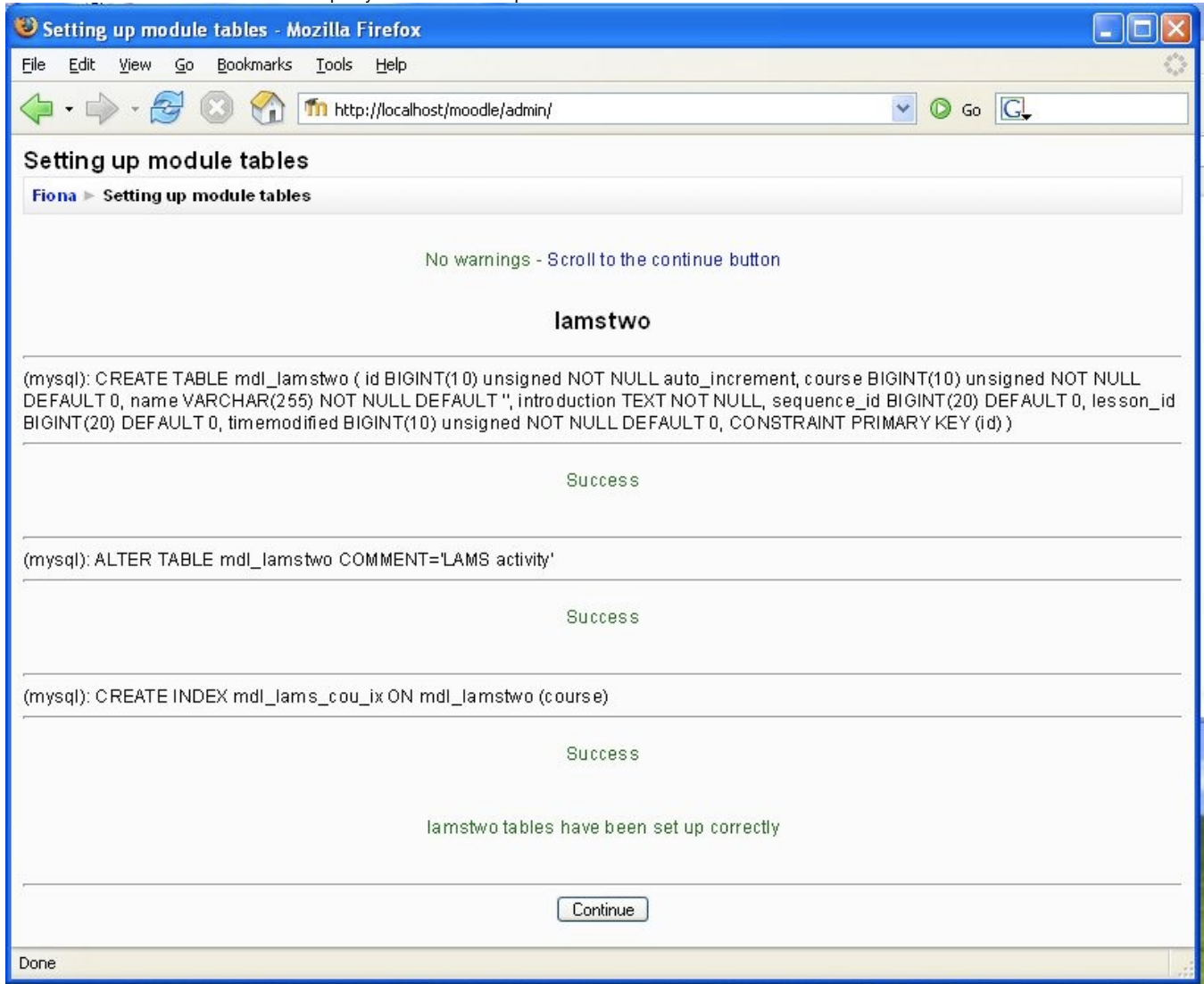
Before you begin the LAMS2.0 and Moodle 1.6.3+ integration, have a quick look at these animations:

- [Using LAMS within Moodle Tutorial](#) (recommended for teachers and users)
- [Installing and integration the LAMS Moodle Module](#) (recommended for administrator)

Installation instructions

1. [Download the LAMS Moodle module](#)
2. Unzip the file
3. Move the lamstwo directory to moodle/mod/
4. Move the lamstwo.php file to moodle/lang/en_utf8/
5. Login as admin and go to admin, LAMS tables will be created automatically. In Moodle 1.7, you can go to the admin screen by changing the url to "http://<moodleserver>/moodle/admin/" (if you access Moodle as "http://<moodleserver>/moodle/") or "http://<moodleserver>/admin/" (if you access Moodle as "http://<moodleserver>/").
6. Go to modules and click settings for LAMS2 module and put the proper values in (as shown below)

When the Moodle module is installed in step 4, you should see output like:



Quick visual walkthru LAMS Integration with Moodle

Here are the steps you need to take to get LAMS and your LMS (in this case Moodle) to be integrated. In this example they are on the same server (my local PC) but that was only because it is easy for me to create a screenshot on my own PC. I have LAMS installed on port 8080 and Moodle 1.7 installed on port 80.

OK, now let's get it on with the integration:

In the LAMS side

1. login in LAMS as a sysadmin (the user that you created at installation time)
2. Select the "Sys Admin" link.
3. Select "Maintain Integrated Servers".
4. Setup the fields as appropriate.
 - **Id:** this is the server identification string that we will use to individually identify the LMS server that will be "talking" to LAMS.
 - **Key:** this is the secret key that both systems will be used to encrypt the hash when doing authentication. **Make sure you keep your server key private**
 - **Name:** the server name
 - **Description:** a meaningful server description
 - **Prefix:** the prefix that the usernames will have in LAMS. (usually just one or two letters will do)
 - **Organisation:** Either use an existing Group within LAMS (from the Group Administration screens) or create a new Group.

- **User Information URL:** This is the callback userinfo URL that is used by LAMS to retrieve personal information about the user from the LMS.
- **Timeout URL:** A webpage that should be displayed if the LAMS/Moodle timeout trying to talk to each other.
- **User Information URL:** If you run Moodle using "http://<moodle_server>/moodle/" then the URL is "http://<moodle_server>/moodle/mod/lamstwo/userinfo.php?ts=%timestamp%&un=%username%&hs=%hash%". If you run Moodle using "http://<moodle_server>/" then the URL is "http://<moodle_server>/mod/lamstwo/userinfo.php?ts=%timestamp%&un=%username%&hs=%hash%".

Maintain LAMS : Maintain integrated servers : Edit integrated server

?

Id: *

Key: *

Name: *

Description:

Prefix: *

Disabled:

Organisation: Or Create new one *

User Information URL: *

Timeout URL: *

On the LMS side

1. Go to your configuration menu and click on the LAMS settings
2. Enter the LAMS server URL, server_id, server_key and request_source.

When a teacher runs the LAMS authoring client (when adding an activity) and the teacher saves a sequence, the "Saved" message will have a button "Close and return to {request_source}". If this button is clicked, then the LAMS authoring client will close and the list of sequences on the add activity screen will update automatically. So the request_source should be set to a name that your users understand e.g. "Moodle", "the add LAMS activity screen". This feature will be added in LAMS 2.0.1 - you will *not* see the message in LAMS 2.0. Have a look at [MoodleSaved.jpg](#) to see how the message appears.

Site Administration

- Notifications
- ☐ Users
- ☐ Courses
- ☐ Location
- ☐ Language
- ☐ Modules
 - Activities
 - Blocks
 - Filters
- ☐ Security
- ☐ Appearance
- ☐ Server
- ☐ Reports
- ☐ Miscellaneous

Admin bookmarks

[bookmark this page](#)

LAMS v2

Be careful modifying these settings - strange values could cause problems.

server_url:	<input type="text" value="http://localhost:8080/lams"/>	Enter the basic URL used to access the LAMS server. For example http://localhost:8080/lams
server_id:	<input type="text" value="moodle"/>	Enter the server ID
server_key:	<input type="text" value="moodle"/>	Enter the server key
request_source:	<input type="text" value="Moodle"/>	This will be used in the message "Close and return to {request_source}" in the authoring module in LAMS.

Make sure you keep your sever_key private as that is the key used for authentication

3. Click the "Validate" button to make sure it is configured correctly. LAMS should already be running - the validation test will call LAMS to ensure that the two systems can communicate.
4. If it validates okay, then click Save changes.

That's it. You are done.

Now you can go and add sequences and activities to your Moodle courses!

Latest Changes

Fixes

- [LDEV-1492](#): When Moodle/PHP debugging is turned on, the integration is broken **Fixed** ✔ 07-Jan-2008
 - [Further information](#)

Troubleshooting, Problems and Comments?

Post them in the [Tech Forum](#) in the LAMS Community

LAMS is unable to get user data from Moodle

When a user tries to create access LAMS from within Moodle for the first time, such as to create new learning design, LAMS calls back to Moodle to get the user's details. This could fail for a number of reasons and you might get an error like:

```
soapenv:Server.userException: java.rmi.RemoteException: Fail to fetch
user data from
external server:moodle - Unexpected return HTTP Status:404; nested
exception is:
org.lamsfoundation.lams.integration.UserInfoFetchException: Fail to
fetch user data from
external server:moodle - Unexpected return HTTP Status:404
```

- Check that the configuration on both ends is done - you need to configure URLs in both Moodle and LAMS. On the LAMS side, double check that the User Information URL is correct. You may need to add or remove a "moodle/" from the path - see the User Info URLs table earlier on this page.

- Turn on [debugging](#) in LAMS, try accessing LAMS again then look in the lams.log in the LAMS log directory (<jboss>/server/default/log) and look for a URL like the one in the User Information URL field. It should be the same except the %blah% bits will have been replaced with real values. Then copy this URL into a browser and test it there. You should get some comma separated data back.
- Do you have the Moodle web page protected with an .htaccess/.htpasswd scheme? If so, this will stop LAMS being able to call Moodle.

3rd party users on servers updated from 2.0

One of the changes from 2.0 relating to integrated users is that their LAMS organisations changed from groups to subgroups. This means that under their 'My Groups' workspace, they have folders for the subgroups. Whereas on a freshly installed 2.0.1+ installed server, 3rd party users should only have a folder for the main integration group. Apart from the fact that 3rd party users on a server updated from 2.0 will have more folders, this isn't a problem.

If you updated your (integrated) LAMS 2.0, then you may notice that existing 3rd party users don't have access to the main integration group folder. Users who start using LAMS after the update applied do have access. This can be easily fixed by logging into LAMS directly and giving the author role to all 3rd party users in the main integration group.

Users can create sequences but not start lessons.

Check to see if the lamstwo table exists. If the strict_trans_tables option is turned on in MySQL, then the database create script will fail.

To fix, find the script in the lamstwo/db directory. If it looks like this:

```
CREATE TABLE prefix_lamstwo (
  id int(10) unsigned NOT NULL auto_increment,
  course int(10) unsigned NOT NULL default '0',
  name varchar(255) NOT NULL default '',
  introduction text NOT NULL default '',
  sequence_id bigint(20) default '0',
  lesson_id bigint(20) default '0',
  timemodified int(10) unsigned NOT NULL default '0',
  PRIMARY KEY (id),
  KEY course (course)
)COMMENT='LAMS2 activity';
```

then remove the NOT NULL default "" from the introduction line, change "prefix" to the prefix used in your db e.g. mdl then run the CREATE TABLE statement on your database. This will create the table. See [LDEV-1435](#)

"All the LAMS module settings have not been set up!" Error and LAMS Course Format

If you try using the LAMS Course Format, you will probably see an error message "All the LAMS module settings have not been set up!". The LAMS Course format is not supported by the LAMSV2 module - it was only used in the original LAMS Moodle module.