

# Kaltura LMS integration for Moodle 4.x installation guide

Last Modified on 04/03/2025 1:23 pm IDT

## Overview

This document details the steps required to install the Kaltura Video Package for Moodle 4.0 and later. Moodle 4.x supports using Kaltura Video package with both LTI 1.1 and LTI 1.3, so you can upgrade your Moodle version into 4.x separately from upgrading the version of your LTI integration.

\* If you are using Moodle 3.x, follow the instructions in the [Kaltura Video Package for Moodle 3.x Installation Guide](#).

\* If you want to upgrade your Moodle 4.x integration from LTI 1.1 to LTI 1.3 please follow the [Kaltura Video Package for Moodle 4.x upgrade for LTI 1.3 guide](#).

## Prerequisites

- A Kaltura account:
  - Partner ID (“pid”), e.g.,
  - Admin secret, e.g.,
  - Client ID from Hosted module (for LTI 1.3 only)
- A Kaltura Application Framework (KAF) instance URL, e.g.,  
`https://12345.kaf.kaltura.com`
- Minimum Moodle version 4.x

## KAF pre-configurations

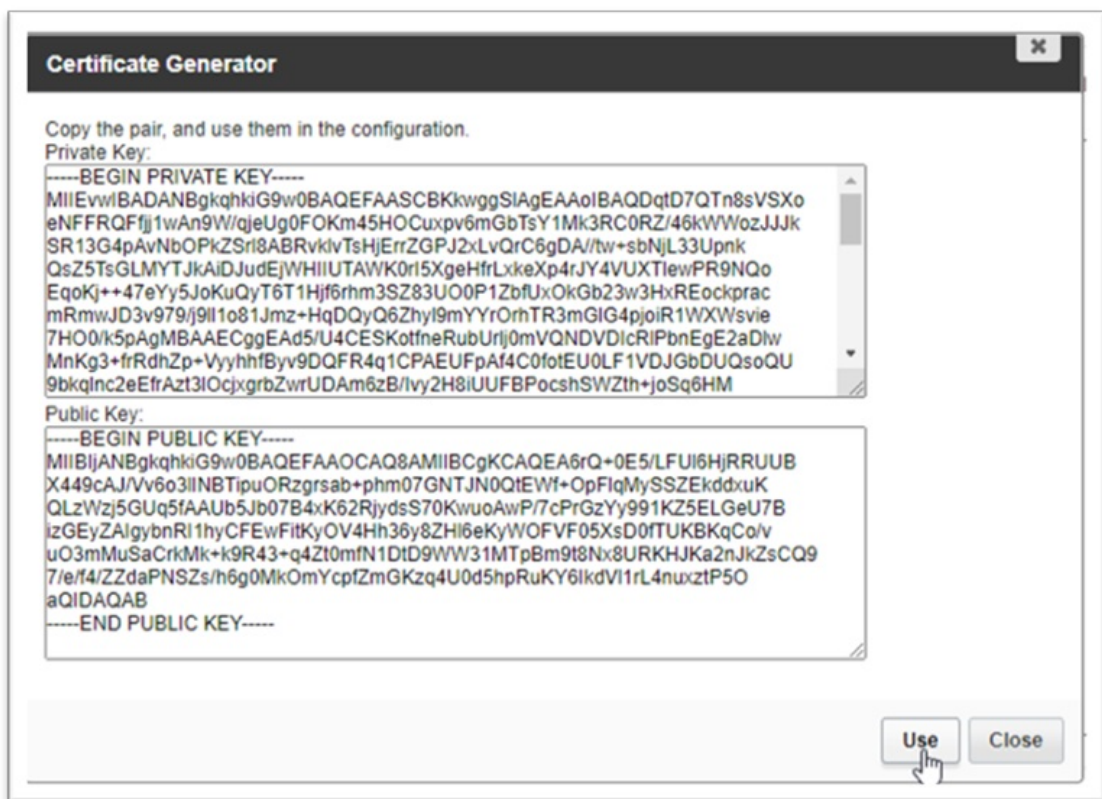
1. Login to your KAF Configuration Management page  
(`https://{your_KAF_base_URL}/admin`).
2. Navigate to the Hosted module  
(`https://{your_KAF_base_URL}/admin/config/tab/hosted`).
3. Please select the LTI version you'd like to use and set the KAF configurations according to that.
  - a. Configurations for LTI 1.1 (if you wish to use LTI 1.3 please skip this step):
    - a. Set the **authMethod** field = “lti”.
  - b. Configurations for LTI 1.3 (if you wish to use LTI 1.1 please skip this step):
    - a. Set the **authMethod** field = “lti1.3”. This displays the fields listed in steps 2 – 6.
    - b. Set **lti13PlatformOidcAuthUrl** =  
`https://{your_Moodle_domain}/local/kaltura/auth.php`

- c. Set **Iti13AuthTokenUrl** = `https://{your_Moodle_domain}/mod/lti/token.php`
- d. Set **Iti13KeysUrl** = `https://{your_Moodle_domain}/mod/lti/certs.php`
- e. Scroll down to the LTI3service section and click the Generate key pair here.

This generates the keys.



- f. In the Certificate Generator frame, click **Use** to have the key pairs saved to the Iti13ServicePrivateKey and Iti13ServicePublicKey fields.



4. Scroll to the bottom of the Hosted module settings and click **Save**.

## Installation Background

1. Local plug-in used to:
  - a. Store configuration data and the Kaltura PHP client library (local/kaltura)
  - b. Display the user's My Media repository (local/mymedia)
2. Video assignment module, equivalent to the video assignment type for the Kaltura plug-in for Moodle 4.x
3. Video resource module, equivalent to the video resource type for the Kaltura plug-in for Moodle 4.x

#### 4. Filter plug-in, used to display Kaltura video embed inside rich-text markups

### Installation Process

To install the Kaltura Video Package 4.4.6

1. Download the latest Kaltura Video Package to your Moodle root directory from [here](#).
2. Unzip the downloaded file into Moodle root directory.
3. Browse to the Moodle home screen and follow the Moodle installation wizard.
  - a. Click Continue at the bottom of the welcome screen.

#### Installation

##### Moodle - Modular Object-Oriented Dynamic Learning Environment

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

##### Confirm

Have you read these conditions and understood them?

- b. Click Continue after server check.

#### Installation - Moodle 4.0+ (Build: 20220423)

##### Moodle 4.0+ (Build: 20220423)

For information about this version of Moodle, please see the online [Release Notes](#)

##### Server checks

Name	Information	Report	Plugin	Status
unicode		must be installed and enabled <a href="#">↗</a>		
database	mariadb (5.5.5-10.4.12-MariaDB)	version 10.2.29 is required and you are running 10.4.12 <a href="#">↗</a>		
php		version 7.3.0 is required and you are running 7.4.29 <a href="#">↗</a>		
pcrcnunicode		should be installed and enabled for best results <a href="#">↗</a>		
php_extension	iconv	must be installed and enabled <a href="#">↗</a>		
php_extension	mbstring	must be installed and enabled <a href="#">↗</a>		
php_extension	curl	must be installed and enabled <a href="#">↗</a>		
php_extension	openssl	must be installed and enabled <a href="#">↗</a>		
php_extension	tokenizer	should be installed and enabled for best results <a href="#">↗</a>		
php_extension	xmlrpc	should be installed and enabled for best results <a href="#">↗</a>		
php_extension	soap	should be installed and enabled for best results <a href="#">↗</a>		
php_extension	ctype	must be installed and enabled <a href="#">↗</a>		
php_extension	zip	must be installed and enabled <a href="#">↗</a>		
php_extension	zlib	must be installed and enabled <a href="#">↗</a>		
php_extension	gd	must be installed and enabled <a href="#">↗</a>		
php_extension	simplexml	must be installed and enabled <a href="#">↗</a>		
php_extension	spl	must be installed and enabled <a href="#">↗</a>		
php_extension	pcrc	must be installed and enabled <a href="#">↗</a>		
php_extension	dom	must be installed and enabled <a href="#">↗</a>		
php_extension	xml	must be installed and enabled <a href="#">↗</a>		
php_extension	xmlreader	must be installed and enabled <a href="#">↗</a>		
php_extension	intl	must be installed and enabled <a href="#">↗</a>		
php_extension	json	must be installed and enabled <a href="#">↗</a>		
php_extension	hash	must be installed and enabled <a href="#">↗</a>		
php_extension	fileinfo	must be installed and enabled <a href="#">↗</a>		
php_extension	sodium	should be installed and enabled for best results <a href="#">↗</a>		
php_extension	exif	should be installed and enabled for best results <a href="#">↗</a>		
php_setting	memory_limit	recommended setting detected <a href="#">↗</a>		
php_setting	file_uploads	recommended setting detected <a href="#">↗</a>		
php_setting	opcache.enable	recommended setting detected <a href="#">↗</a>		

Your server environment meets all minimum requirements. ✕

- c. Please wait while installation is processed. When finished, the Continue button is

displayed.

<b>tinymce_moodleimage</b>
Success
<b>tinymce_moodlemedia</b>
Success
<b>tinymce_moodlenolink</b>
Success
<b>tinymce_pdw</b>
Success
<b>tinymce_spellchecker</b>
Success
<b>tinymce_wrap</b>
Success
<b>logstore_database</b>
Success
<b>logstore_legacy</b>
Success
<b>logstore_standard</b>
Success

[Continue](#)

d. Fill in the relevant information and click Update Profile.

## Installation

On this page you should configure your main administrator account which will have complete control over the site. Make sure you give it a secure username and password as well as a valid email address. You can create more admin accounts later on.

[Expand all](#)

**General**

Username

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 as !, -, or #

New password

Force password change

First name

Surname

Email address

Email display

City/town

Select a country

Timezone

Description

**Additional names**

**Optional**

e. Fill in settings for the front page. Click 'Save changes'.

## Installation

### New settings - Site home settings

Full site name

Short name for site (eg single word)

Site home summary

This summary can be displayed on the site home using the course/site summary block.

### New settings - Location settings

Default timezone  Default: Europe/London

This is the default timezone 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  Default: Disable

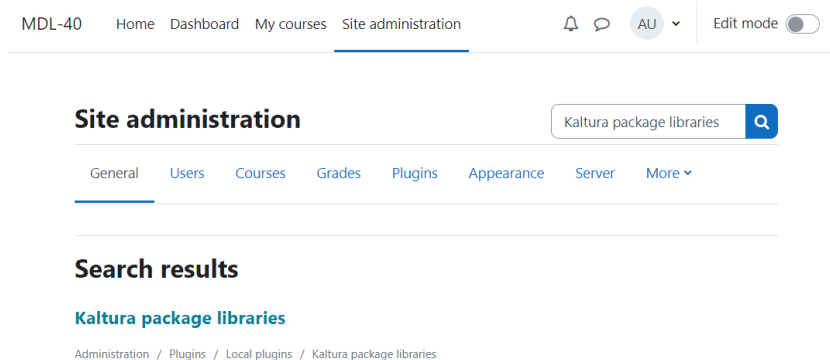
If an authentication plugin, such as email-based self-registration, is selected, then it enables potential users to register themselves and create accounts. This results in the possibility of spammers creating accounts in order to use forum posts, blog entries etc. for spam. To avoid this risk, self-registration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

### New settings - Support contact

Support email

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.

4. Enter the Kaltura credentials (or verify that they were entered correctly) by going to the "Site Administration" area. Then search for "Kaltura package libraries" at the bar on your right-hand side. Click "Kaltura package libraries" in the search results.



5. Enter the following information:
  - a. **KAF URI:** It should have the format `https://{your_KAF_URL}`. For example, `https://123456.kaf.kaltura.com`, or `https://123456-1.kaf.kaltura.com`, or `https://kaltura.kaf.university.edu`  
PLEASE NOTE: The "https://" is required. Do not include an ending "/".
  - b. **Server URI:** By default this should be `www.kaltura.com`. For most use cases, this should not need to change.
  - c. **Partner ID:** This is your Kaltura account number also referred to as a Partner ID (PID). The PID can be found on the [Integration Settings](#) page of the [Kaltura Management Console](#). For more information, see [Integration Settings](#).
  - d. Please select the LTI version you'd like to use and set the following configurations according to that:
    - a. **Configurations for LTI 1.1** (if you wish to use LTI 1.3 please skip this step):  
**Admin Secret:** This is an alphanumeric string used for integrations. The admin secret can be found on the Integration Settings page of the Kaltura Management Console. For more information, see [Integration Settings](#).
    - b. **Configurations for LTI 1.3** (if you wish to use LTI 1.1 please skip this step):  
Copy the **Client ID** value and paste it into the KAF Hosted module's **Iti13ClientId** setting, scroll to the bottom of the Hosted module settings and click **Save**.
  - e. **Enable Trace Logging:** Checked
  - f. **Enable Clone Submission:** Unchecked (unless needed)
  - g. Click **Save changes**.

### Kaltura package libraries

**KAF configuration**

https://[redacted].kaf.kaltura.com/admin

**KAF URI**  
local\_kaltura | kaf\_uri  
 Default: Empty  
Type in the server URI of your KAF instance.

**Server URI**  
local\_kaltura | uri  
 Default: www.kaltura.com  
Type in the server URI you want to connect to. Otherwise just type in the default settings (This setting is used for migration purposes).

**LTI Version**  
local\_kaltura | lti\_version  
 Default: LTI 1.0/1.1  
Choose which LTI version the account works with

**Partner id**  
local\_kaltura | partner\_id  
 Default: Empty  
Enter the partner id for your account.

**Client ID**  
  
Should be used in the KAF hosted module

**Enable trace logging**  
local\_kaltura | enable\_logging  
 Default: No  
If enabled, all requests and responses to and from Kaltura are logged. These logs can be used by Kaltura support to diagnose any problems encountered. Enabling this setting may affect Moodle performance. You may download a CSV file of the logs from [here](#).

**Clone Submissions**  
local\_kaltura | enable\_submission  
 Default: No  
If enabled, any media submitted via the Kaltura Video Submission flow will be cloned under a different user name to prevent editing and deletion.

[Save changes](#)

## Set Up the Filter Plugin

To set up the filter plug in:

1. After the installation is complete, navigate to Site Administration > Plugins > Filters > Manage Filters.
2. Enable the Kaltura Media filter and click the Settings link.

### Manage filters

Filter	Active?	Order	Apply to	Settings	Uninstall
Multimedia plugins	<input type="text" value="On"/>	↑	<input type="text" value="Content"/>	<a href="#">Settings</a>	<a href="#">Uninstall</a>
Database auto-linking	<input type="text" value="Disabled"/>		<input type="text" value="Content"/>		<a href="#">Uninstall</a>
<b>Kaltura Media</b>	<input type="text" value="Disabled"/>		<input type="text" value="Content"/>	<a href="#">Settings</a>	<a href="#">Uninstall</a>
Multi-Language Content	<input type="text" value="Off but available"/>		<input type="text" value="Content"/>	<a href="#">Settings</a>	<a href="#">Uninstall</a>
TeX notation	<input type="text" value="Disabled"/>		<input type="text" value="Content"/>	<a href="#">Settings</a>	<a href="#">Uninstall</a>

3. Navigate to Site Administration > Plugins > Filters > Kaltura Media.
4. Ensure that Embed Kaltura Video Links is checked. If not, check it.

## Kaltura Media

**Embed Kaltura Video Links**  Default: Yes  
filter\_kaltura\_enable

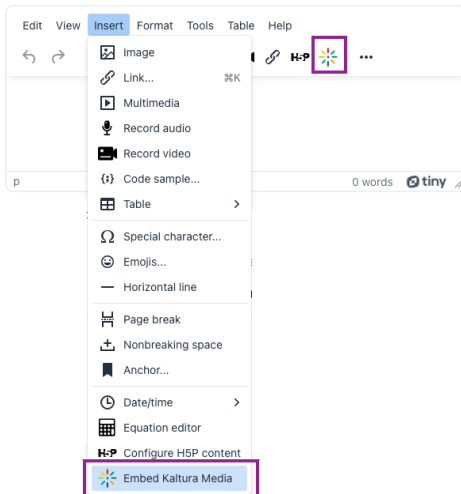
[Convert Kaltura video links to embed code](#)

5. Click Save.

## Adding Kaltura Embed Button to text editors

### TinyMCE text Editor:

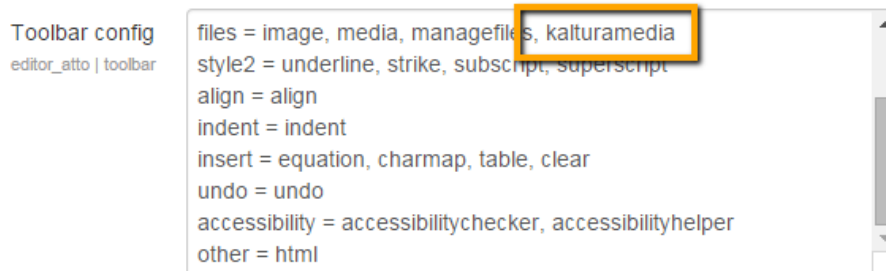
The Kaltura Embed Buttons are being automatically added to the TinyMCE text editor in two places:



## Atto text Editor:

To add the Kaltura embed button to the Atto text editor (Moodle 4.x)

1. Login as administrator.
2. Go to Site administration > Plugins > Text editors > Atto HTML editor > Atto toolbar settings.
3. Under Toolbar config, add “**kalturamedia**” at the end of the "files" buttons line separated with a comma. For example:



4. Click on "Save changes" at the bottom of the page.  
The “Embed Kaltura Video” is added to the Atto editor.





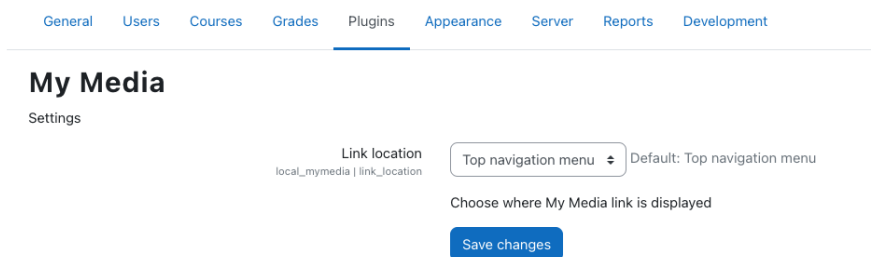
## My Media

You can determine where to place the Kaltura My Media link. The link may be in one of the following locations:

- Top Navigation menu
- Side Navigation menu
- User Navigation menu

To choose where to place the Kaltura My Media link:

1. Login as administrator.
2. Go to Site administration > Plugins > Local Plugins and select Kaltura My Media



3. Select where you want the Kaltura My Media link to display.

## Boost Theme Support

The Boost theme may not have the 'Navigation' tab. The Kaltura Media Gallery will be available in other locations.

You can determine where to place the Kaltura Media Gallery link. The link may be in one of the following locations:

- Navigation Block
- Course setting menu

To add the link to Kaltura Media Gallery

1. Login as administrator.
2. Go to Site administration > Plugins > Local Plugins and select Kaltura Media Gallery.

Local plugins / Kaltura Media Gallery

**Moodle**

Search

General Users Courses Grades Plugins Appearance Server More

**Kaltura Media Gallery**

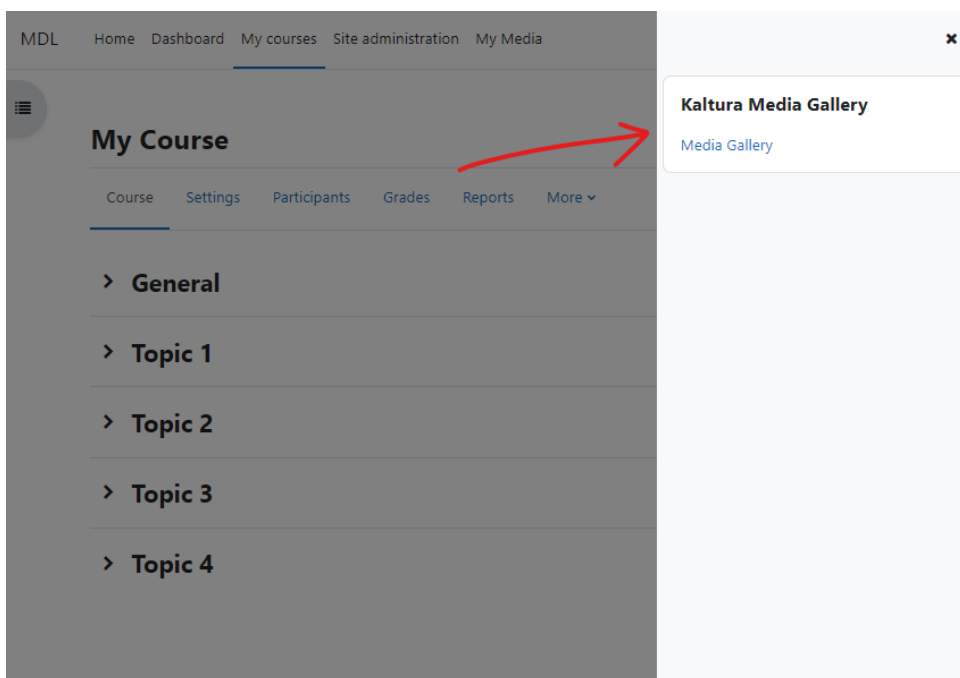
Settings

Link location <small>local_kalturamedialogallery   link_location</small>	Course settings	Default: Navigation block
	Navigation block	
	Course settings	Gallery link is displayed
	Save changes	

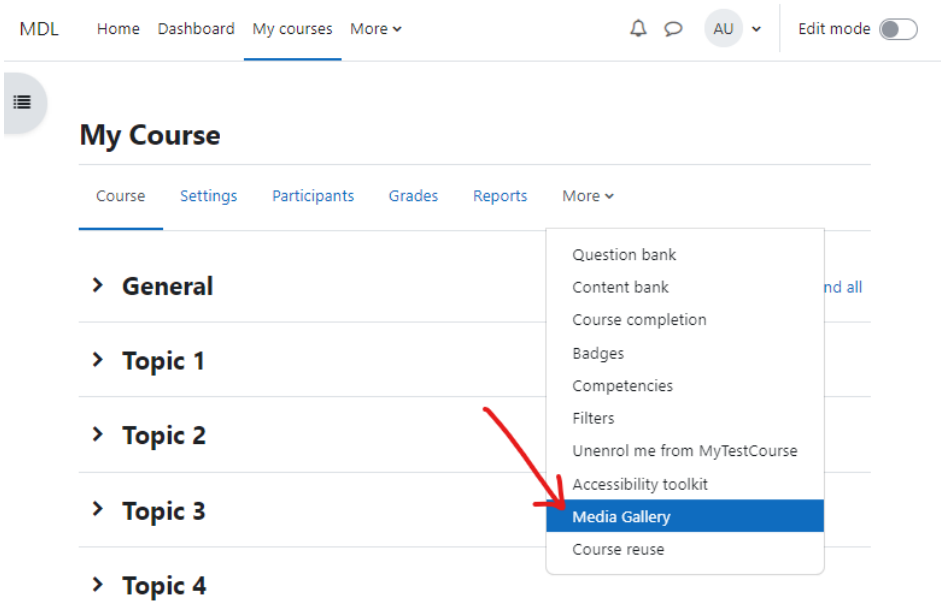
3. Select where you want the Kaltura Media Gallery link to display.

**Navigation Block:**

Select the Navigation block for the link to appear on the left Navigation block.

**Course Setting Menu:**

Select Course settings for the link to appear on the course Admin settings menu:



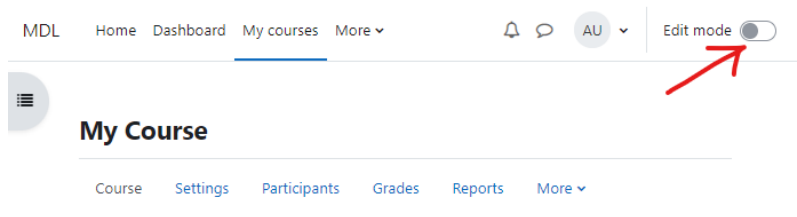
The default display is in the Navigation block.

## Adding a Block

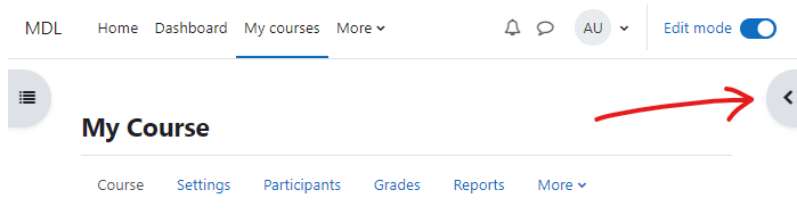
If you have permission to add blocks to a course, you can add the Kaltura Media Gallery Block. The link to the Kaltura Media Gallery will be added to the course side pane.

To add the Kaltura Media Gallery block

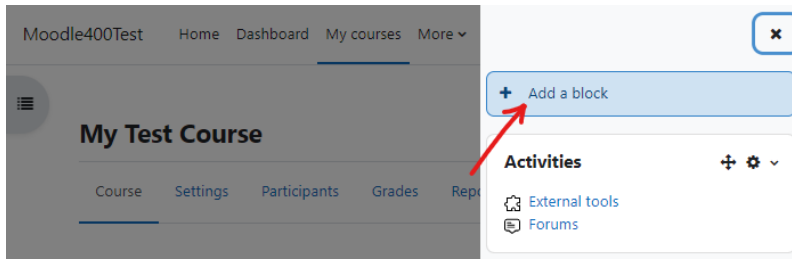
1. Navigate to the site administration.
2. Click Blocks editing on.



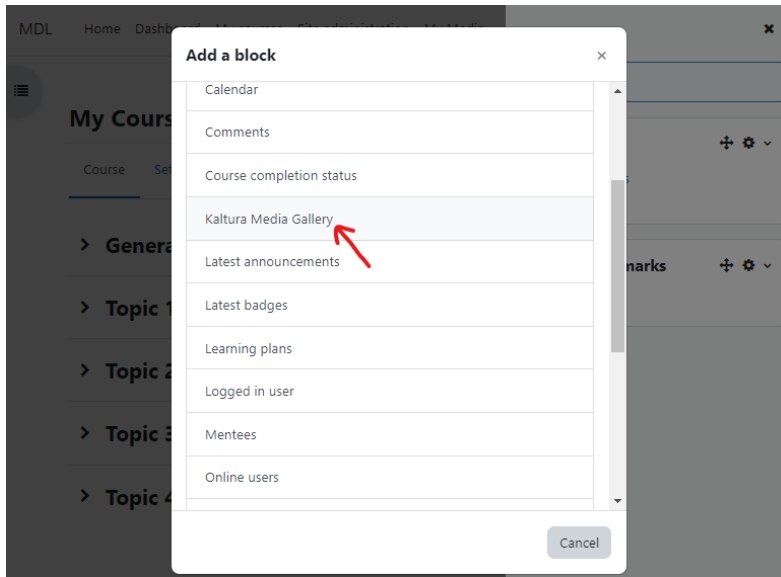
3. Navigate to a course, and click on the block drawer button.



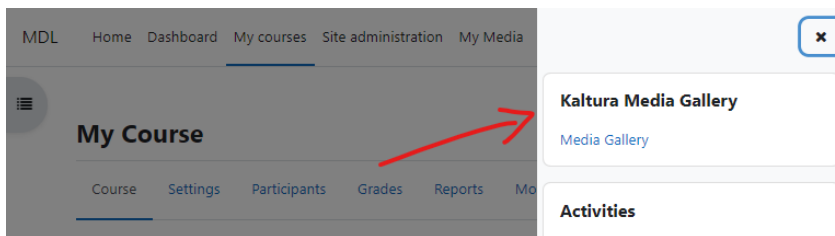
4. Locate the Add a block button.



5. Under the list of blocks, choose the Kaltura Media Gallery.



The results after adding the Kaltura Media Gallery block are as follows:



## Roles - Setting Permissions

This section provides information on how to set roles and permissions for users to use the Kaltura features.

The following provides steps on how to set up Kaltura permissions for each of the Moodle roles.

To define roles

1. Log in as Moodle admin.
2. Go to Site Administration > Users > Permissions > Define Roles.

## Site administration

- General
- Users**
- Courses
- Grades
- Plugins
- Appearance
- Server
- More ▾

### Users

#### Accounts

- Browse list of users
- Bulk user actions
- Add a new user
- User management
- User default preferences
- User profile fields
- Cohorts
- Upload users
- Upload user pictures

#### Permissions

- User policies
- Site administrators
- Define roles
- Assign system roles
- Check system permissions
- Capability overview
- Assign user roles to cohort
- Unsupported role assignments

A list all of the standard roles and all custom roles is displayed.

To edit the permissions for each role

1. Select the Manage roles tab.
2. For EACH role that should be able to use the Kaltura Video Extension for Moodle, select the Gear icon to edit the role.

Permissions / Define roles

## Site Administration

- General
- Users**
- Courses
- Grades
- Plugins
- Appearance
- Server
- Reports
- Development

- Manage roles**
- Allow role assignments
- Allow role overrides
- Allow role switches
- Allow role to view

Role	Description	Short name	Edit
Manager	Managers can access courses and modify them, but usually do not participate in them.	manager	↓ ⚙️ 🗑️
Course creator	Course creators can create new courses.	coursecreator	↑ ↓ ⚙️ 🗑️
Teacher	Teachers can do anything within a course, including changing the activities and grading students.	editingteacher	↑ ↓ ⚙️ 🗑️
Non-editing teacher	Non-editing teachers can teach in courses and grade students, but may not alter activities.	teacher	↑ ↓ ⚙️ 🗑️
Student	Students generally have fewer privileges within a course.	student	↑ ↓ ⚙️ 🗑️
Guest	Guests have minimal privileges and usually can not enter text anywhere.	guest	↑ ↓ ⚙️ 🗑️
Authenticated user	All logged in users.	user	↑ ↓ ⚙️ 🗑️
Authenticated user on site home	All logged-in users in the site home course.	frontpage	↑ ⚙️ 🗑️

Add a new role

3. Scroll down the Edit page until you see the list of permissions (there are a many permissions).

4. Use the Filter field at the top of the permission list and type “Kaltura”. There are a several permissions related to the Kaltura extension.
5. Set the permissions to Allow for each string that contains Kaltura and Save.

The following lists the available features/permissions:

- Block: Kaltura Media Gallery
  - Add a new Kaltura Media Gallery block to Dashboard
- Kaltura package libraries (recommended for admins only)
  - Download Kaltura trace logs
  - Migrate Kaltura Data
- Kaltura Media Gallery
  - View Kaltura Media Gallery
- Activity: Kaltura Media Assignment
  - Add a Kaltura Media Assignment
- Activity: Kaltura Video Resource
  - Add a Kaltura Video Resource
- Activity: Kaltura Media Assignment
  - Grade video submissions
  - Submit videos
- Block: Kaltura Media Gallery
  - Add a new Kaltura Media Gallery block
- My Media
  - View My Media page

Filter

Clear

Capability	Permission <span style="font-size: 0.8em;">ⓘ</span>	Risks
<b>Block: Kaltura Media Gallery</b>		
Add a new Kaltura Media Gallery block to Dashboard <small>block/kalturamediagallery:myaddinstance</small>	<input type="checkbox"/> Allow	
<b>Kaltura package libraries</b>		
Download Kaltura trace logs <small>local/kaltura:download_trace_logs</small>	<input checked="" type="checkbox"/> Allow	
Migrate Kaltura Data <small>local/kaltura:migrate_data</small>	<input checked="" type="checkbox"/> Allow	
<b>Kaltura Media Gallery</b>		
View Media Gallery <small>local/kalturamediagallery:view</small>	<input type="checkbox"/> Allow	
<b>Activity: Kaltura Media Assignment</b>		
Add a Kaltura Media Assignment <small>mod/kalvidassign:addinstance</small>	<input type="checkbox"/> Allow	<span style="color: red;">⚠</span>
<b>Activity: Kaltura Video Resource</b>		
Add a Kaltura Video Resource <small>mod/kalvidres:addinstance</small>	<input type="checkbox"/> Allow	<span style="color: red;">⚠</span>
<b>Block: Kaltura Media Gallery</b>		
Add a new Kaltura Media Gallery block <small>block/kalturamediagallery:addinstance</small>	<input type="checkbox"/> Allow	<span style="color: red;">⚠</span> <span style="color: blue;">!</span>

Save changes
Cancel

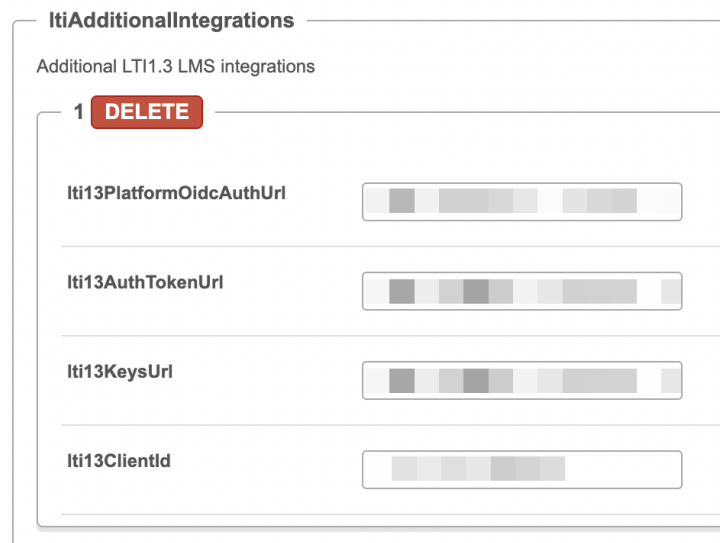
## Video Quiz Integration with Gradebook

To complete your Kaltura deployment, please select the LTI version you'd like to use and follow the right deployment guide:

- for LTI 1.1 please refer to [Kaltura Video Quiz Moodle Gradebook Integration with LTI 1.1 Deployment Guide](#).
- for LTI 1.3 please refer to [Kaltura Video Quiz Moodle Gradebook Integration with LTI 1.3 Deployment Guide](#).

Configure LTI Additional Integrations (**NOTE: This setting is relevant for the Moodle Video Quiz Integration only**)

1. Go to your KAF instance and click on the Hosted module.
2. Locate the ItiAdditionalIntegrations section.
3. Click on +Add “ItiAdditionalIntegrations”.
4. Fill in the Iti13PlatformOidcAuthUrl, Iti13AuthTokenUrl, Iti13KeysUrl, and Iti13ClientId.
5. Click **Save**.



**ItiAdditionalIntegrations**

Additional LTI1.3 LMS integrations

1 **DELETE**

**Iti13PlatformOidcAuthUrl** [blurred]

**Iti13AuthTokenUrl** [blurred]

**Iti13KeysUrl** [blurred]

**Iti13ClientId** [blurred]