Set up Kaltura LMS Video integration for Moodle 4.x

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> (A) **This article is designated for administrators.**

About

This guide covers plugin installation, connection to Kaltura, and configuration of Kaltura features for **Moodle version 4.x** (4.0-4.5).

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>
> Moodle 4.x supports the Kaltura LMS Video integration using either **LTI 1.1** or **LTI 1.3**.

Before you start

Make sure the following is already in place:

- A Kaltura account with:
  - a Partner ID (PID)
  - an Admin secret (required for LTI 1.1 only)
- A KAF (Kaltura Application Framework) instance URL, e.g., https://12345.kaf.kaltura.com
- Moodle version **4.x** (4.0–4.5)
- Access to your KAF Configuration Management console

Install the Kaltura Video plugin for Moodle

Installing the **Kaltura Video plugin** is required before configuration. This step does not affect active Moodle users and can be completed anytime in advance.

When you install the Kaltura Video plugin, the following features become available in Moodle:

- My Media (personal media library)
- Media Gallery (course media repository)
- Kaltura Media Assignment*
- Kaltura Video Resource
- Kaltura Media embedding in text editors

> ℹ️
>
> *In **Moodle 4.5 and later**, video assignments can also be created using the <u>native Moodle Assignment activity</u> with Kaltura Media enabled as a submission type. For instructions, see Create a video assignment in Moodle.

To install the plugin:

1. Download the latest Kaltura Video Plugin to your Moodle root directory from here.
2. Unzip the downloaded package and when prompted to choose an extraction location, select the Moodle root directory (the folder that contains the admin, mod, and local folders).
3. Log in to your Moodle site in a web browser as an administrator. If Moodle detects the new plugin files, it automatically displays the plugin installation screen.
4. When prompted, click **Continue** at the bottom of the welcome screen to start the plugin installation.
5. Review the server checks and click **Continue**.
6. Wait for the installation to complete, then click **Continue**.
7. Complete the required fields and click **Update profile**.
8. Configure the front page settings and click **Save changes**.

Configure the Kaltura-Moodle connection and features

After installing the Kaltura Video plugin, complete the following configuration steps to connect Kaltura to Moodle and enable features.

Step 1: Configure the Hosted module

1. Go to your Configuration Management console and click on the **Hosted** module. You can also navigate to it directly using a link: https://{your_site_URL}/admin/config/tab/hosted.

The 'Hosted' page displays.

Configuration Management

Server Tools		
Backup Configuration		
Player replacement tool		

Hosted

enabled	Yes	Enable the Hosted module.
enableLike	Yes	Enable the 'Like' feature for entries.
allowEditPublished	No	Enable editing of published entries
allowDeletePublished	No	Enable deletion of published entries
AllowUnpublishPublished	Yes	Enable unpublishing of published entries
enableEntryDelete	Yes	Enable deleting media
enableViews	No	Enable showing number of views per entry.
showPageTitles	Yes	Show page titles
expandButton	Auto	Player expand button. *Auto* is on only if there are modules providing an entry sidebar.
manPublish	Yes	Enable publish to a list of categories - from the menu, media, and upload. Disable this if you do not have access to the list of categories.
authMethod	lti	
sharedRepositoryCategoryId	235289443	Shared repository category ID. **Click here to disable Shared Repositories**.

2. Scroll down the page to the **authMethod** field and select the LTI version you plan to use.

If you select **LTI 1.3**, additional fields display.

- 3. Configure the following fields:
  - **lti13PlatformOidcAuthUrl** - Enter the Moodle platform OIDC authentication URL:
    https://{your_Moodle_domain}/local/kaltura/auth.php
  - **lti13AuthTokenUrl** - Enter the Moodle OAuth token URL:
    https://{your_Moodle_domain}/mod/lti/token.php
  - **lti13KeysUrl** - Enter the Moodle JWKS
    URL: https://{your_Moodle_domain}/mod/lti/certs.php
  - **lti13ClientId** - Leave this field empty for now. You will populate it after obtaining the Client ID in Step 2.
 - **lti13ServicePrivateKey** - Click the 'generate key pair here' link.

The 'Certificate generator' window opens and displays a private key and a public key.

![Kaltura logo]
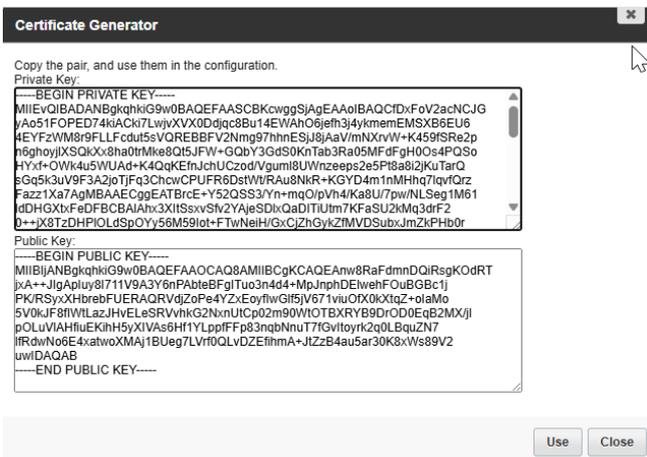
4. In the Certificate Generator, click **Use**.

The private and public keys are automatically copied into the **lti13ServicePrivateKey** and **lti13ServicePublicKey** fields.
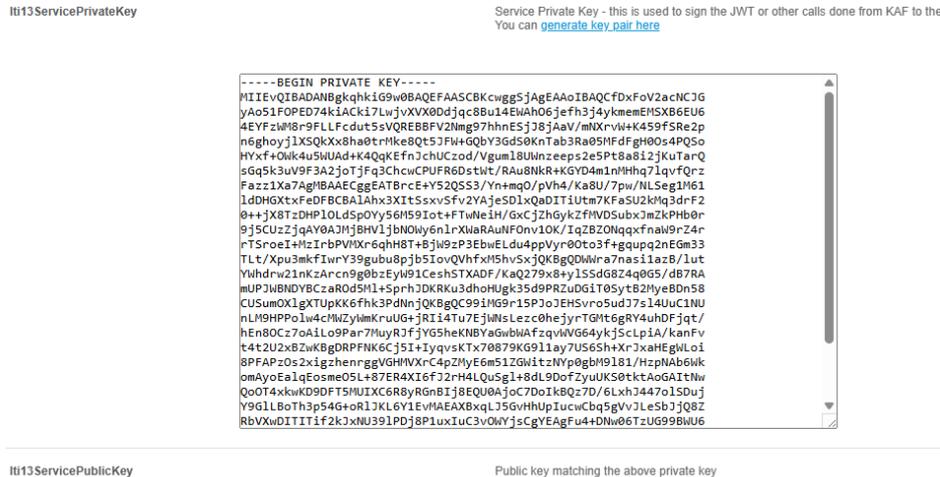
5. Scroll to the bottom of the page and click **Save**.

Step 2: Configure the Kaltura connection in Moodle

1. In Moodle, go to **Site administration**.
2. Use the search field to locate **Kaltura package libraries**.
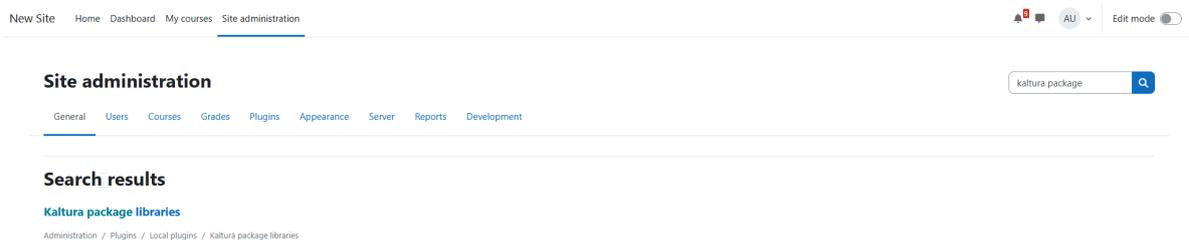
3. Click to open the 'Kaltura package libraries' page.

   The KAF configuration page displays.

   This page contains the KAF connection, LTI, and optional feature settings. (The values shown in the image below are examples only.)

KAF configuration

https://220-22.kaf.nvq2.mediaspace.kaltura.com/admin

KAF URI	https://220-22.kaf.nvq2.mediaspace.l	Default: Empty
local_kaltura | kaf_uri		

Type in the server URI of your KAF instance.

Server URI	www.kaltura.com	Default: www.kaltura.com
local_kaltura | uri		

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	LTI 1.3 ⬍	Default: LTI 1.0/1.1
local_kaltura | lti_version		

Choose which LTI version the account works with

Partner id	220	Default: Empty
local_kaltura | partner_id		

Enter the partner id for your account.

Client ID	▮▮▮▮▮FZGt91
	Should be used in the KAF hosted module

Enable trace logging	☐ Default: No
local_kaltura | enable_logging	

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	☐ Default: No
local_kaltura | enable_submission	

If enabled, any media submitted via the Kaltura Video Submission flow will be cloned under a different user name to prevent editing and deletion.

Guest support	☑ Default: Yes
local_kaltura | guest_support	

If enabled, use Moodle's ability to identify guests and non-logged in users, and provide them with the 'Guest' LTI role.

[Save changes]

Core settings

1. Configure the following required settings:

- **KAF URI** - Enter your KAF instance URL. 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

> ⚠️ The "https://" is required. Do not include an ending "/".

- **Server URI** - Default: www.kaltura.com. In most cases, this does not need to change.
- **LTI version** - Select the LTI version your Moodle site uses with Kaltura. The page updates to show the fields required for that LTI version.
- **Partner ID** - Enter your PID (Kaltura Partner ID). You can find this value on the 'Integrations' page in the Rich Media CMS (Rich Media Content Management System). For information, see Account information in Rich Media CMS.
- **Admin secret** - This field displays if you are using **LTI 1.1**. Enter the admin secret from the 'Integrations' page in the Rich Media CMS. For information, see Account information in Rich Media CMS.
- **Client ID** - This field is populated automatically when using **LTI 1.3**. You will copy this value in Step 3.
- **Enable trace logging** - Checked

Optional settings

- **Enable Clone Submission** - Controls whether Moodle can duplicate assignments that include Kaltura media.

> ⚠️
>
> For assignment cloning to work, the **enableAssignmentSubmission** setting must also be enabled in the Browseandembed module. See Set up Kaltura's media assignment tool for Moodle for configuration steps.

- **Guest support** - Controls access for guest and non-logged-in users. Leave this setting enabled unless you explicitly require guest access.

2. Click **Save changes**.

Step 3: Complete the LTI 1.3 connection (LTI 1.3 only)

This step applies only if you selected LTI 1.3 in the previous steps. If you are using **LTI 1.1**, skip this step and continue to **Step 4**.

1. In Moodle, open the Kaltura package libraries page (see above).
2. Copy the **Client ID** value.

3. Return to the Hosted module in the Configuration Management console, and paste the Client ID into the **lti13ClientId** field (see above).

4. Scroll to the bottom of the page and click **Save**.

The LTI 1.3 connection between Moodle and KAF is now complete.

Step 4: Configure Kaltura features and access

After installing the integration, configure Kaltura features and user access based on how you plan to use Kaltura in Moodle.

Enable the Kaltura media filter

The Kaltura Media filter enables embedded Kaltura media to display correctly in rich-text areas.

1. Go to your Moodle **Site administration** and select **Plugins**.
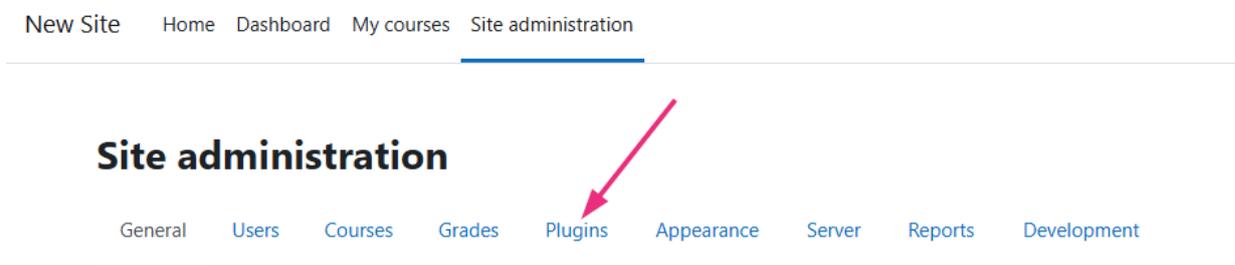
2. Scroll down the page to the **Filters** section and select **Manage filters**.
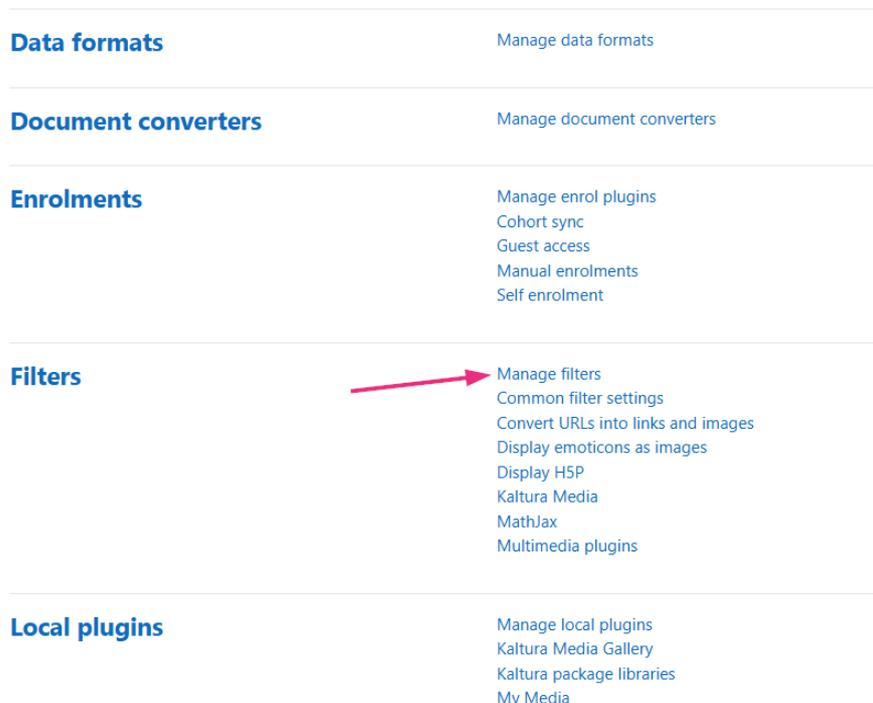
The Manage filters page opens.

3. Locate **Kaltura Media** in the list.

Manage filters

Filter	Active?	Order	Apply to	Settings	Uninstall
Display H5P	On	↓	Content	Settings	Uninstall
Activity names auto-linking	On	↑ ↓	Content		Uninstall
MathJax	On	↑ ↓	Content	Settings	Uninstall
Display emoticons as images	On	↑ ↓	Content	Settings	Uninstall
Convert URLs into links and images	On	↑ ↓	Content	Settings	Uninstall
Multimedia plugins	On	↑	Content	Settings	Uninstall
Algebra notation	Disabled		Content		Uninstall
Code highlighter	Disabled		Content		Uninstall
Database auto-linking	Disabled		Content		Uninstall
Email protection	Disabled		Content		Uninstall
Glossary auto-linking	Disabled		Content		Uninstall
Kaltura Media	Disabled		Content	Settings	Uninstall

4. Enable the **Kaltura Media** filter and click the **Settings** link.

Manage filters

Filter	Active?	Order	Apply to	Settings	Uninstall
Display H5P	On	↓	Content	Settings	Uninstall
Activity names auto-linking	On	↑ ↓	Content		Uninstall
MathJax	On	↑ ↓	Content	Settings	Uninstall
Display emoticons as images	On	↑ ↓	Content	Settings	Uninstall
Convert URLs into links and images	On	↑ ↓	Content	Settings	Uninstall
Multimedia plugins	On	↑ ↓	Content	Settings	Uninstall
Kaltura Media	On	↑	Content	Settings	Uninstall

The Kaltura Media page displays.

Kaltura Media

Embed Kaltura Video Links
filter_kaltura_enable
☑ Default: Yes
Convert Kaltura video links to embed code

Alternate KAF URIs
filter_kaltura_uris

[text box]

Default: Empty

Enter alternate KAF URIs to filter, one per line

[Save changes]

5. In the Kaltura Media settings, make sure **Embed Kaltura Video Links** is selected.

Kaltura Media

Embed Kaltura Video Links
filter_kaltura_enable
☑ Default: Yes

Convert Kaltura video links to embed code

Alternate KAF URIs
filter_kaltura_uris

Default: Empty

Enter alternate KAF URIs to filter, one per line

Save changes

6. Click **Save changes**.

Add the Kaltura embed button to text editors

TinyMCE editor

The Kaltura embed buttons are added automatically to the **TinyMCE** editor in two places. No additional setup is required.
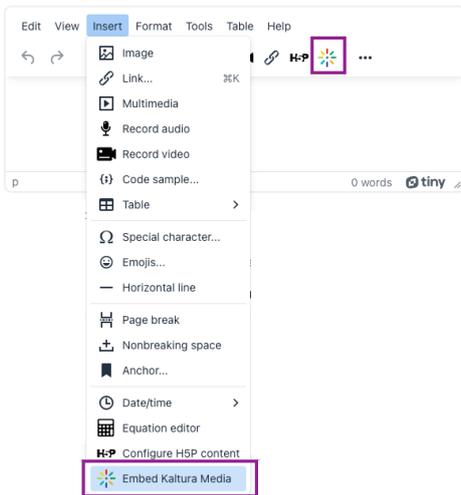
Atto editor

This section applies only if your Moodle site uses the Atto editor. If your site uses only TinyMCE, skip this section.

1. Go to your Moodle **Site administration** and select **Plugins**.

2. On the 'Plugins' page, scroll down to the **Text editors** section and select **Atto HTML editor**.

The 'Atto HTML editor' page displays.

3. Click **Atto toolbar settings**.

The 'Atto toolbar settings' page displays.

Atto toolbar settings

Atto plugins

Name	Version	Toolbar config	Settings	Uninstall
Accessibility checker	2024100700	accessibilitychecker		Uninstall
Screenreader helper	2024100700	accessibilityhelper		Uninstall
Text align	2024100700	align		Uninstall
Background colour	2024100700	backcolor		Uninstall
Bold	2024100700	bold		Uninstall
Insert character	2024100700	charmap		Uninstall
Clear formatting	2024100700	clear		Uninstall
Show/hide advanced buttons	2024100700	collapse	Settings	Uninstall

4. Scroll down the page to the **Toolbar config** section.

5. In the Toolbar config field, locate the line that starts with *files =*.

6. Add `kalturamedia` to the end of the list, separated by a comma.

7. Click **Save changes** at the bottom of the page.

   The Kaltura embed button now appears in the Atto editor toolbar.

Configure My Media placement

My Media is each user's personal media repository in Moodle (based on their Moodle role and permissions). You can control where the My Media link appears in the Moodle interface.

Available locations include:

- Top navigation menu
- Side navigation menu
- User navigation menu

To configure where the 'My Media' link appears:

1. Go to your Moodle **Site administration** and select **Plugins**.
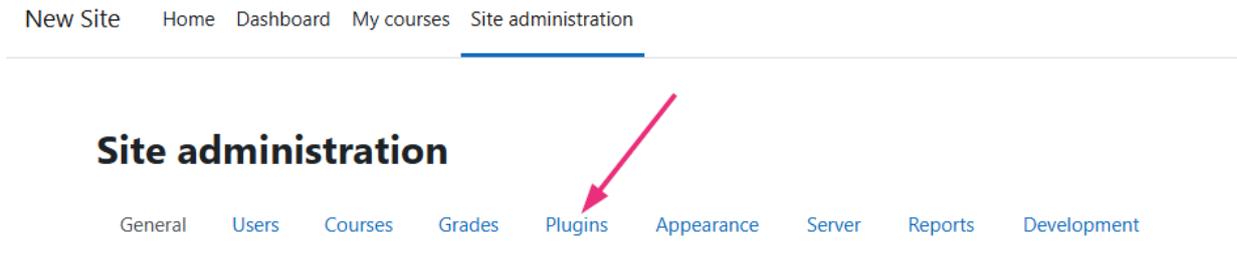
2. On the 'Plugins' page, scroll down to the **Local plugins** section and select **My Media**.
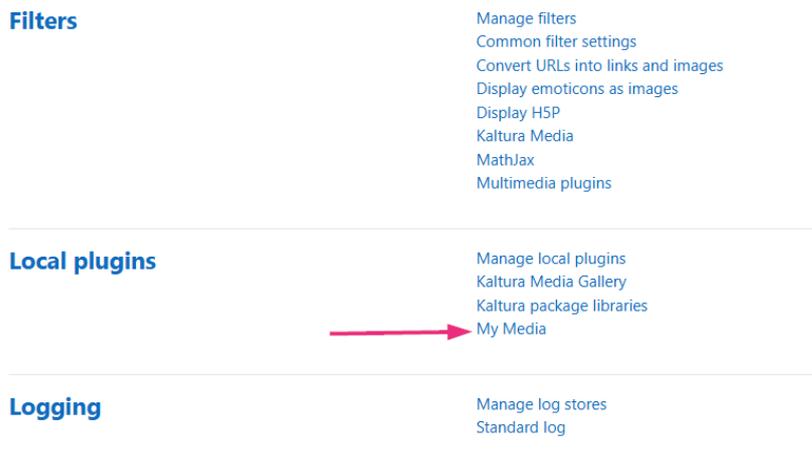
3. In the **Link location** dropdown, select where you want the My Media link to appear.

4. Click **Save changes**.

![Kaltura logo]
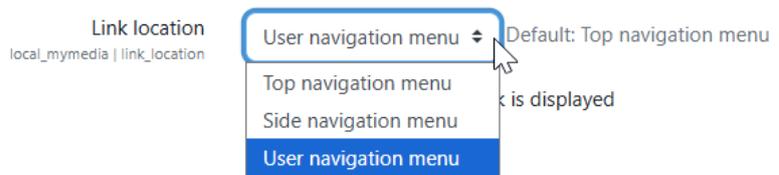
The My Media link is now available to users in the selected location.

Media Gallery

The Media Gallery is a shared media repository for a Moodle course. It allows instructors and students to view and interact with media that is associated with a specific course.

Access to the Media Gallery and available actions are controlled by Moodle roles and permissions.

Media Gallery navigation using Boost theme

Boost is the default Moodle theme in Moodle 4.x. It uses a different navigation layout than older Moodle themes, which can affect where course links appear.

When using the Boost theme, the Media Gallery link may not appear in the standard Navigation menu. Instead, you can display the Media Gallery link in one of the following locations:

- Navigation block
- Course settings menu

To configure where the 'Media Gallery' link appears:

1. Go to your Moodle **Site administration** and select **Plugins**.
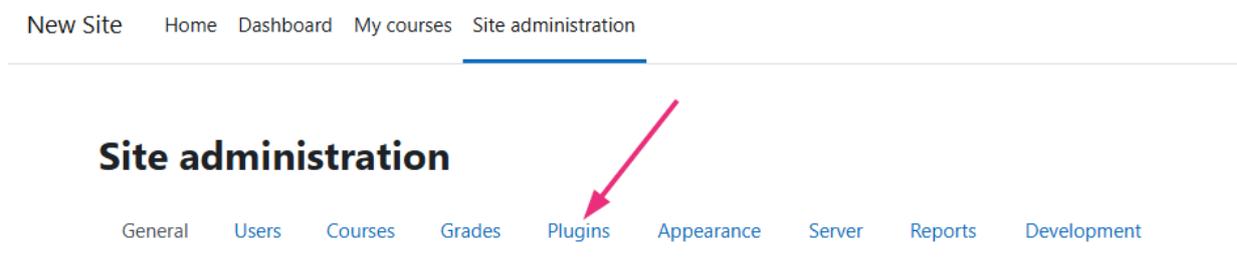
2. On the 'Plugins' page, scroll down to the **Local plugins** section and select **Kaltura Media Gallery**.

Filters	Manage filters
	Common filter settings
	Convert URLs into links and images
	Display emoticons as images
	Display H5P
	Kaltura Media
	MathJax
	Multimedia plugins
Local plugins	Manage local plugins
	Kaltura Media Gallery
	Kaltura package libraries
	My Media
Logging	Manage log stores
	Standard log

3. In the **Link location** dropdown, select where you want the **Kaltura Media Gallery** link to appear.

4. Click **Save changes**.

Example of the Media Gallery link displayed in the course settings menu when the Course settings menu option is selected
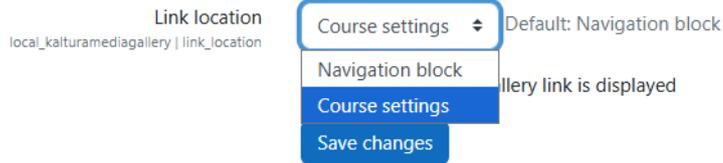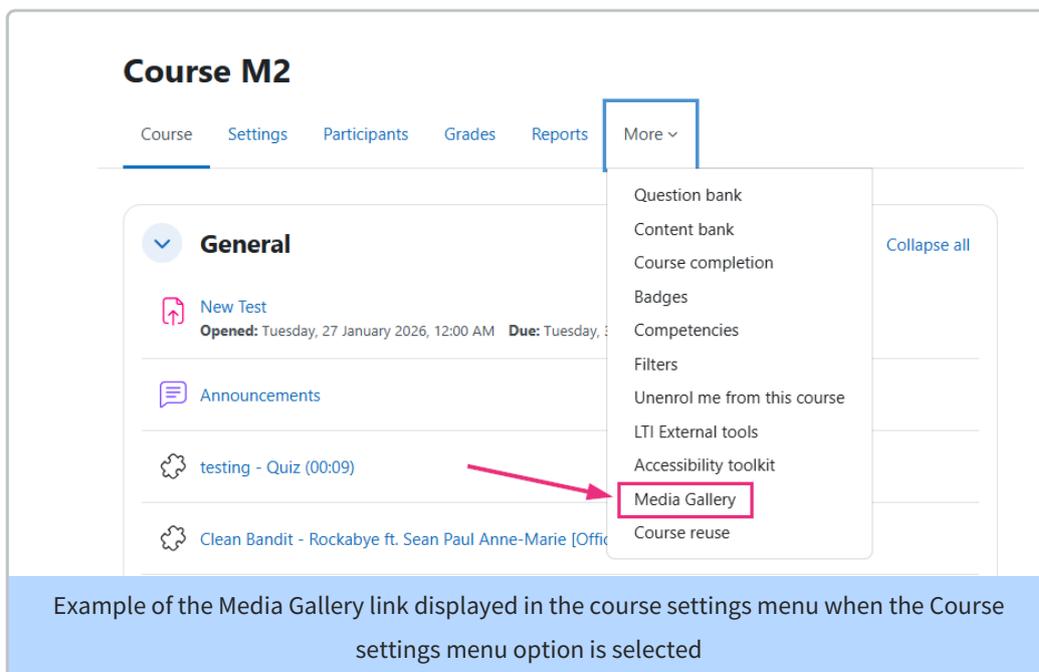
Add the Media Gallery as a separate block

In addition to displaying the Media Gallery link in navigation, you can add the Media Gallery as its own block within a course that appears in the course side panel.

> ℹ️
> Adding the block can be done regardless of the Media Gallery link location you selected.

1. Open the course where you want the Media Gallery block to appear (you must have editing permissions for the course).
2. In the top-right corner of the course page, toggle on **Edit mode**.
3. Click the arrow on the right side of the page to open the block drawer.
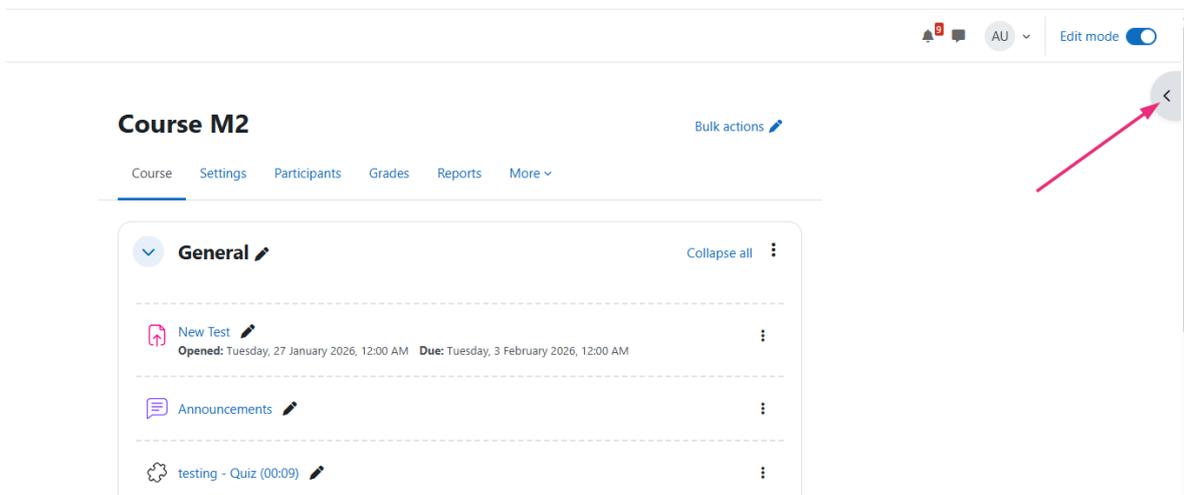
4. Click **Add a block**.
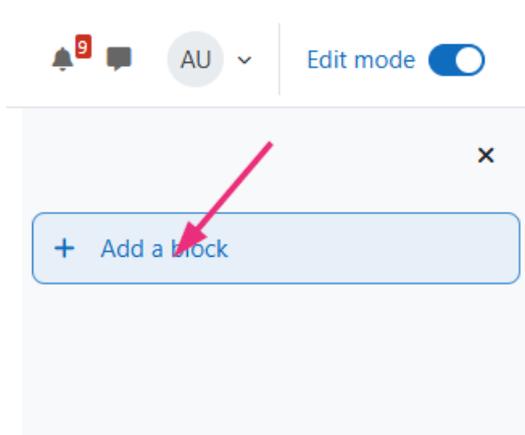
The 'Add a block' window opens.

5. Select **Kaltura Media Gallery**.

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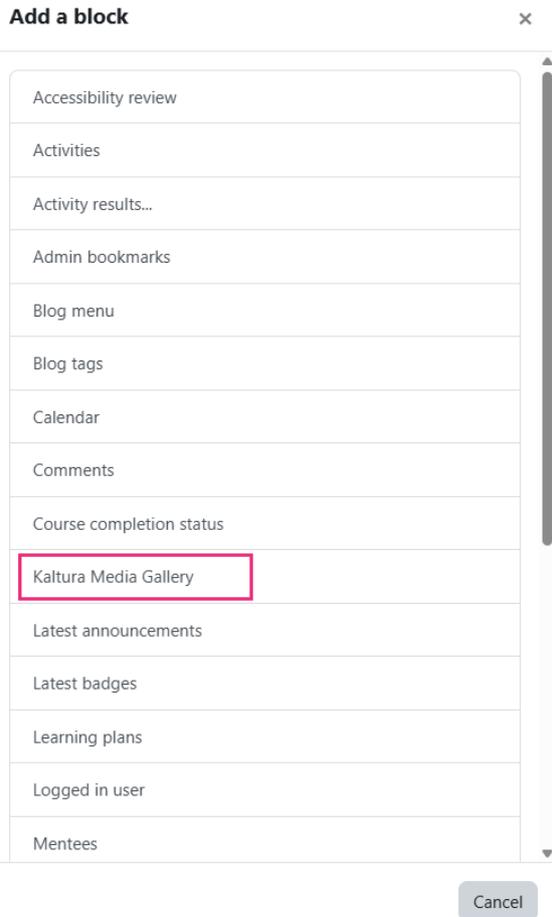
6. Select **Kaltura Media Gallery**.

   The new block appears in the course side panel.
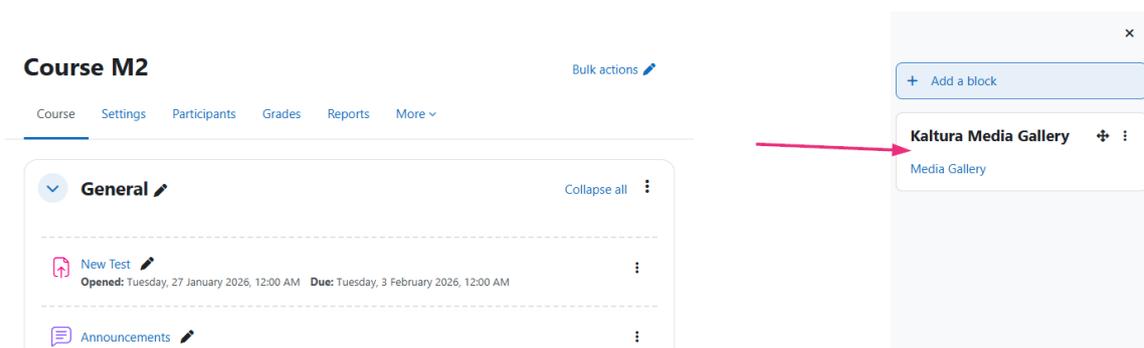
Roles and permissions

Moodle roles control access to Kaltura features and allowed actions.

To define roles:

1. Go to your Moodle **Site administration** and select **Users**.

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2. On the 'Users' page, scroll down to **Permissions** and select **Define roles**.

The 'Roles' page displays with a list of the standard roles and custom roles.

3. Locate the role you want to update and click the **pencil icon** at the end of the row.

The edit role page opens.

4. Scroll down to the **Capability** section.

Capability	Permission ❓	Risks
Block: Admin bookmarks		
Add a new admin bookmarks block to Dashboard block/admin_bookmarks:myaddinstance	☐ Allow	
Block: Latest badges		
Add a new Latest badges block to Dashboard block/badges:myaddinstance	☐ Allow	⚠
Block: Calendar		
Add a new calendar block to Dashboard block/calendar_month:myaddinstance	☐ Allow	
Block: Upcoming events		
Add a new upcoming events block to Dashboard block/calendar_upcoming:myaddinstance	☐ Allow	
Block: Comments		
Add a new comments block to Dashboard block/comments:myaddinstance	☐ Allow	
Block: Courses		
Add a new courses block to Dashboard block/course_list:myaddinstance	☐ Allow	
Block: Global search		
Add a new global search block to Dashboard block/globalsearch:myaddinstance	☐ Allow	
Block: Random glossary entry		
Add a new random glossary entry block to Dashboard block/glossary_random:myaddinstance	☐ Allow	
Block: Text		
Add a new text block to Dashboard block/html:myaddinstance	☐ Allow	

5. In the **Filter** field, type *Kaltura*.

6. Review the permissions related to the Kaltura LMS Video integration.

7. Set the required permissions to **Allow**.
8. Click **Save changes**.

Available Kaltura permissions include:

- **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

Video Quiz Integration with Gradebook

To complete your Kaltura LMS Video integration, you must configure Video Quiz gradebook integration based on the LTI version you are using. Follow the appropriate guide:

- for LTI 1.1, see Kaltura Video Quiz Moodle Gradebook Integration with LTI 1.1 Deployment Guide.
- for LTI 1.3, see Kaltura Video Quiz Moodle Gradebook Integration with LTI 1.3 Deployment Guide.