Upgrade Kaltura LMS Video integration for Canvas from LTI 1.1 to LTI 1.3

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> ⊛ **This article is designated for administrators.**

About

This article explains how to upgrade the Kaltura LMS Video integration for Canvas from LTI 1.1 to LTI 1.3.

The integration is implemented using LTI external tools, added via an LTI Developer Key in Canvas.

Changes in user experience

Canvas does not support multiple tools by the same vendor in the same tool placement. With LTI 1.3, you can no longer have both My Media and Media Gallery together in the course navigation as was possible with LTI 1.1.

For more information, see section Canvas LTI tool placements below.

> ✓ Existing embedded videos created under LTI 1.1 will continue to work.

Prerequisites

- A Kaltura administrator account
- Kaltura LMS Video integration for Canvas, minimum version 5.99.46
- A Canvas administrator account

Step 1 - Backup your configuration

1. Log into your Configuration Management console (https://{your_KAF_base_URL}/admin).
2. Under **Server Tools**, click **Backup Configuration**.

Configuration Management

3. On the 'Backup Configuration' page, click **Save Backup**.

Backup Configuration

A confirmation message displays: *Are you sure you want to save current configuration? Remember that previous backups will be deleted.*

4. Click **Yes**, **Save.**

Once the backup is complete, you'll see a confirmation message: *Configuration file was saved successfully.*

> ℹ️ The backup page will display the 'last configuration save date', which reflects the date when the configuration settings were last modified, not the date the backup was performed.
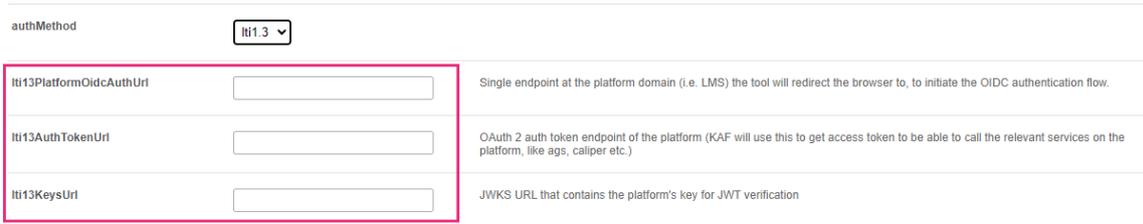
Step 2 - Enable LTI 1.3

1. In your Configuration Management console, navigate to the Hosted module.
2. On the Hosted module page, locate the **authMethod** field and select **lti1.3** from

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![Kaltura logo]

the dropdown.
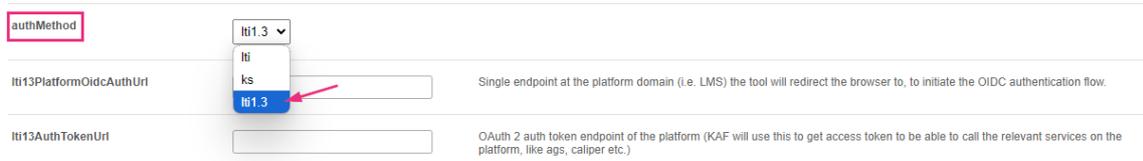
An additional section displays.

3. Configure the following fields:

- **lti13PlatformOidcAuthUrl** =
https://{your_Canvas_Domain}/api/lti/authorize_redirect
- **lti13AuthTokenUrl** = https://{your_Canvas_Domain}/login/oauth2/token
- **lti13KeysUrl** = https://{your_Canvas_Domain}/api/lti/security/jwks

4. Scroll down to the **LTI3service** section and click **Generate key pair here.**

This generates the keys.

5. In the Certificate Generator window, click **Use** to have the key pairs saved to the **lti13ServicePrivateKey** and **lti13ServicePublicKey** fields.
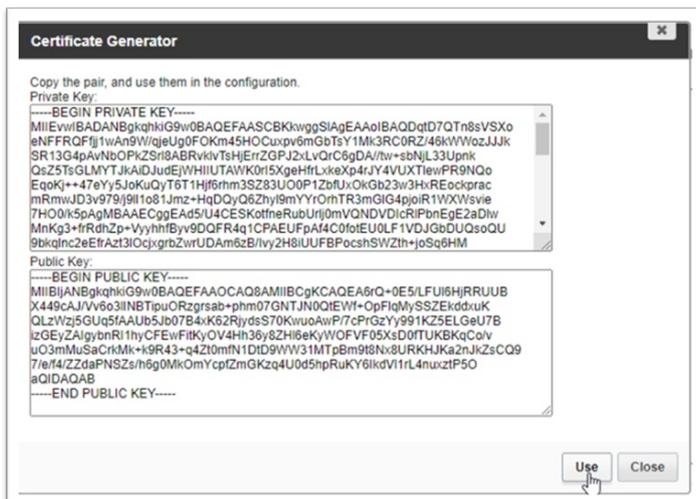
6. Scroll to the bottom of the Hosted module page and click **Save**.

Step 3 - Generate LTI developer key JSON

Enter the following URL in your browser: https://{your_KAF_URL}/canvas/config/create-json-for-instance Example:*https://12345.kaf.kaltura.com/canvas/config/create-json-for-instance*
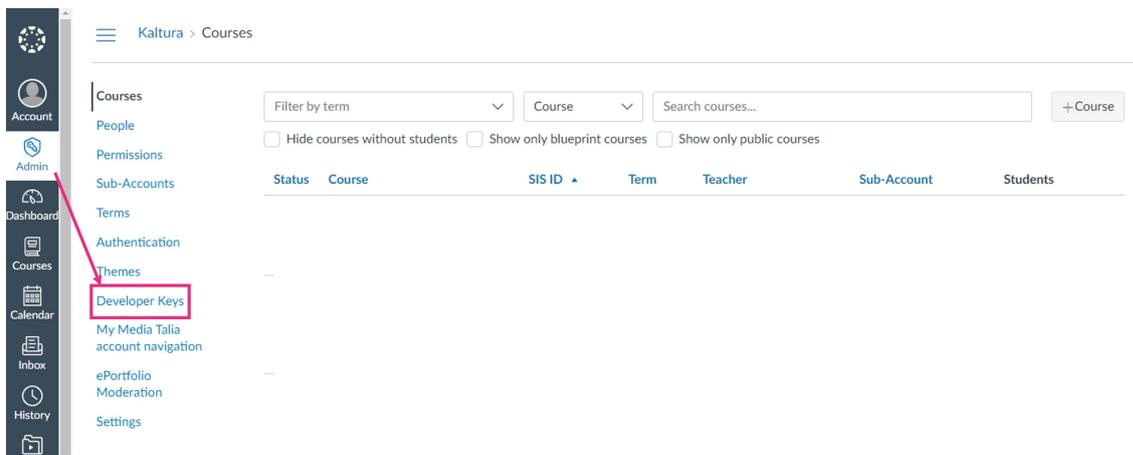
> ⚠️
>
> If you're using a KAF domain other than .kaltura.com, make sure to use it as the input for your_KAF_URL.

The JSON will be used in the next step to create the LTI developer key.

Step 4 - Create LTI developer key

1. Log into your Canvas instance as an administrator.
2. Click the **Admin** tab.
3. Click the **Developer Keys** tab.

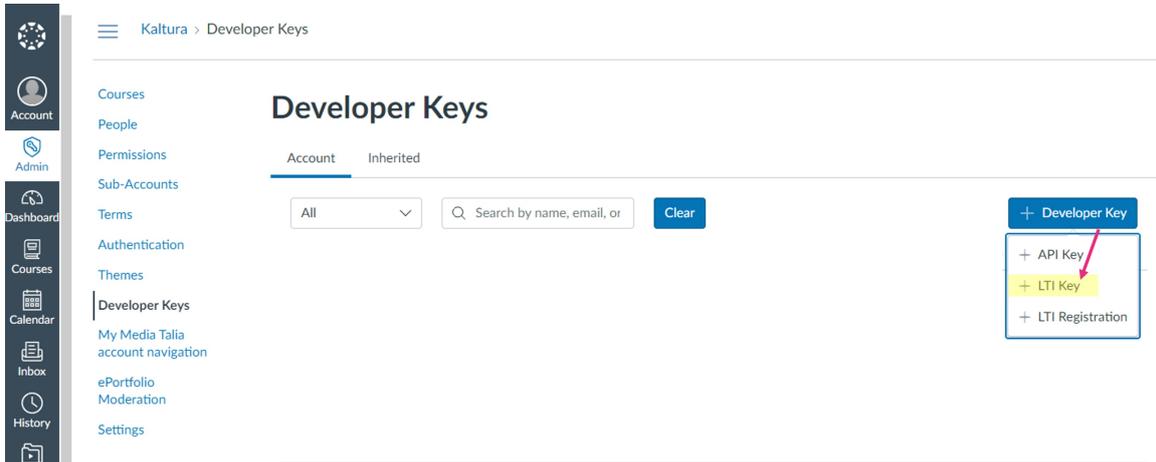The **Developer Keys** page displays.

4. Click **+Developer Key** and select **+ LTI Key** from the drop-down list.
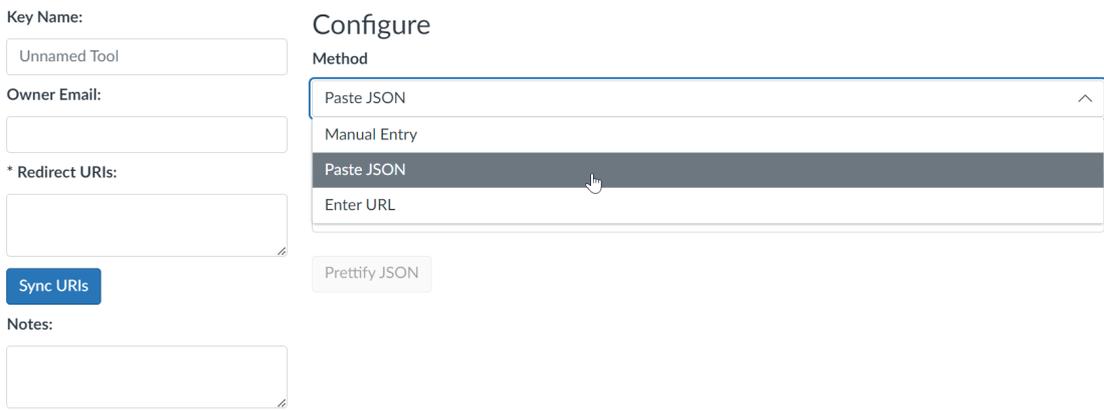

The **Key Settings** page displays.

5. Configure the following:

- **Key Name** - Enter 'Kaltura Video Plugin'.
- **Owner email** - optional
- **Redirect URIs** - Enter https://{your_KAF_URL}/hosted/index/oauth2-launch

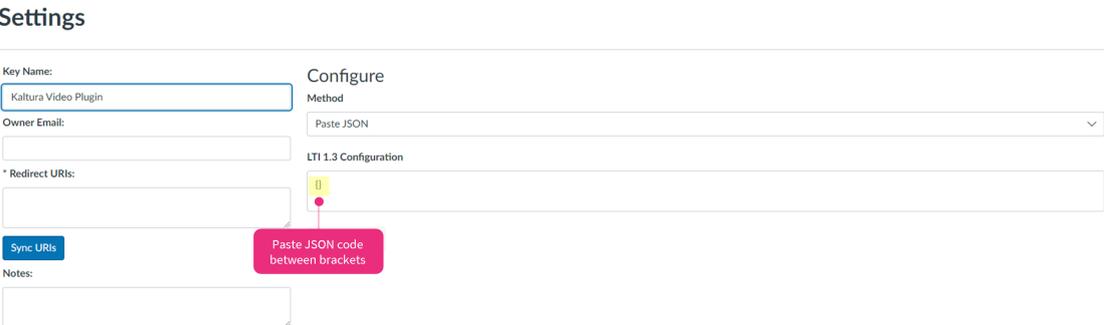 Example:*https://12345.kaf.kaltura.com/hosted/index/oauth2-launch*

> ⚠️ If you're using a KAF domain other than .kaltura.com, make sure to use it as the input for your_KAF_URL.

- **Notes** - optional
- **Method** - Select **Paste JSON** from the drop-down list.

Key Settings

Key Name:		Configure
Unnamed Tool		Method
Owner Email:		Paste JSON ∧
		Manual Entry
* Redirect URIs:		Paste JSON
		Enter URL
Sync URIs		Prettify JSON
Notes:		

6. In the **LTI 1.3 Configuration** field, copy the JSON code from the previous section (Generate LTI Developer Key JSON) and paste it between the brackets.

Key Settings   ✕

Key Name:	Configure
Kaltura Video Plugin	Method
Owner Email:	Paste JSON
	LTI 1.3 Configuration
* Redirect URIs:	[]
Sync URIs	Paste JSON code between brackets
Notes:	

7. Scroll down and click **Save**.

The new LTI developer key will now be listed on the Developer Keys page. If the **State**

is set to off (red), it means the key is disabled. To enable the key, click the toggle (green).

Step 5 - Configure LTI developer key LTI advantage services

In order for the LTI developer key to work properly, certain LTI advantage services must be enabled.

1. Edit the LTI developer key you created by clicking on the **pencil icon** to the far right of the key.

The **Key Settings** page displays.

2. In the **Method** field, change to **Manual entry**.

Key Settings

Key Name:
Kaltura Video Plugin [redacted]

Owner Email:

Configure

Method
Manual Entry

Required Values

* Redirect URIs:
[redacted]

Notes:

* Title
[redacted]

* Description
[redacted]

* Target Link URI
[redacted]

* OpenID Connect Initiation Url
[redacted]

* JWK Method
[redacted]

3. Scroll down to the **LTI Advantage Services** section and click to expand the section.

4. Make sure the following **LTI Advantage Services** are turned on in addition to others that are enabled:

- Can create and view assignment data in the gradebook associated with the tool.
- Can view assignment data in the gradebook associated with the tool.
- Can view submission data for assignments associated with the tool.
- Can create and update submissions for assignments associated with the tool.
- Can retrieve user data associated with the context the tool is installed in.
- Can update publish jwk for LTI services.

5. Click **Save** if you have made any changes.

Step 6 – Confirm values in LTI developer key additional settings

1. Click **Additional Settings** to expand the section.

2. Review the following fields:

- **Domain** - your KAF domain without the `https://`
- **Tool Id** - your KAF URL including `https://`
- **Icon Url, Text**, **Selection Height**, **Selection Width** – leave blank
- **Custom Fields** - include the following three custom parameters:
  - `custom_canvas_user_id=$Canvas.user.id`
  - `custom_canvas_course_id=$Canvas.course.id`
  - `custom_canvas_user_login_id=$Canvas.user.loginId`

Step 7 - Confirm or edit LTI developer key placement settings

> ⚠️ Clicking on the bubble in the placements box will delete the placement. To edit a placement, click on the `>` icon to the left of each placement listed.

Canvas only allows each placement to be used once per developer key. The JSON file generated by Kaltura includes five placements.

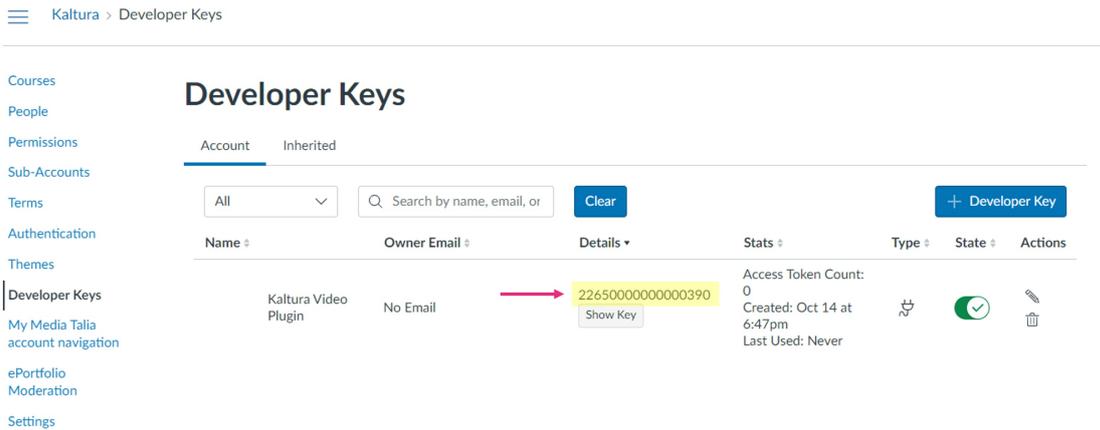Review and edit the **Text** field for each tool placement as needed:

- **Link Selection**: For the Kaltura Browse Search and Embed tool, used to create

video pages.

- **Course Navigation**: For the Kaltura Course Media Gallery.
- **Global Navigation**: For the Kaltura My Media tool in the global left-hand navigation.
- **Editor Button**: For the Kaltura Browse Search and Embed tool in the Canvas Rich Content Editor.
- **Assignment Selection**: For the Kaltura Interactive Video Quiz in the Canvas Assignment tool.

Step 8 - Set 'lti13ClientID' value for LTI developer key

1. In Canvas, navigate to the Developer Keys page (https://{your_Canvas_base_URL}/accounts/1/developer_keys) .

2. On the **Developer Keys** page, locate the listing for the developer key you created in Step 4 - Create LTI Developer Key and copy the **Client ID** from the **Details** column.

3. Log into your Configuration Management page (https://{your_KAF_base_URL}/admin).

4. Navigate to the Hosted module (https://{your_KAF_base_URL}/admin/config/tab/hosted).

5. Scroll down to the **lti13ClientID** field and paste in the **Client ID**.
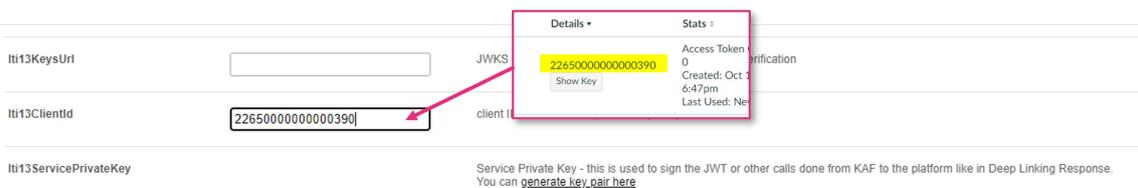
6. Scroll to the bottom of the Hosted module and click **Save**.

Step 9 - Configure Kaltura user ID value

> ⚠️ The default Kaltura User ID is your Canvas User ID, which is often the same as the user's email address. If your organization uses a different value for User IDs, please refer to Configuring the Kaltura User ID Value to Use with Your LMS Integration before proceeding.

With the Kaltura LMS integration, user ID records are passed from the LMS to Kaltura during the LTI Launch. When using LTI 1.3 authentication, admins can configure which LTI attribute to use for the user ID in the KAF Hosted module.

Kaltura uses a custom parameter in Canvas to store the User ID value. To set this up:

1. Log into your 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. Scroll down to the **ltiUserIdAttribute** setting.
4. Set **ltiUserIdAttribute** to **custom_canvas_user_login_id**.
5. Scroll to the bottom of the Hosted module and click **Save**.

Step 10 - Set API developer key

Option 1 – Inherited API Key

> ℹ️ If your KAF domain is on *.kaltura.com, you can use the existing inherited Kaltura key without creating a new API key. You may, however, prefer to use a Scoped API Developer Key. In that case, jump to **Option 2** below.

1. Log into Canvas as an administrator.
2. Navigate to the Developer Keys page.
3. On the **Developer Keys** page, click the **Inherited** tab.

4. Scroll down and click **Show All Keys**.

5. Scroll to the listing for the Kaltura key and click the toggle to enable it.

6. A confirmation message displays: *Are you sure you want to change the state of the developer key [name]?*

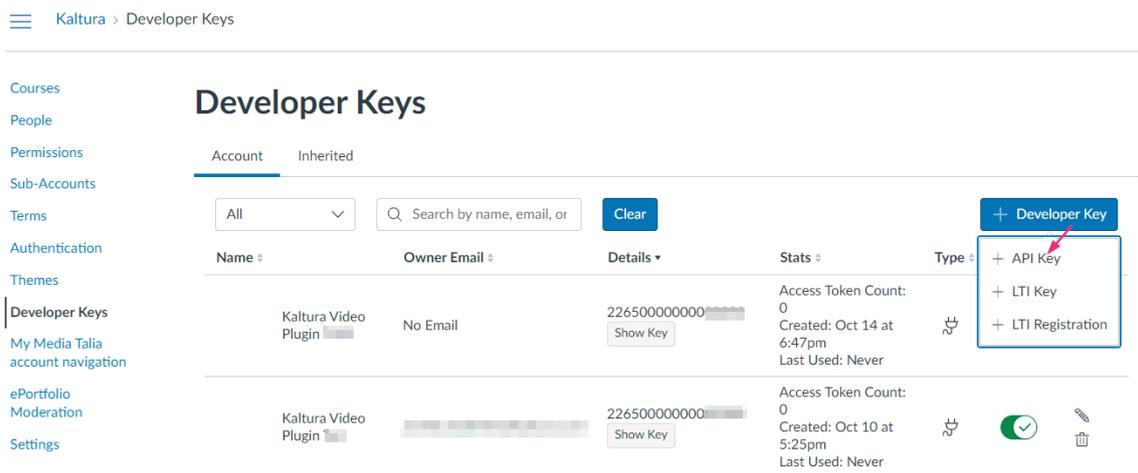7. Click **Switch to On**. When the key is enabled, it turns green.

Go to Step 12 - Add Kaltura tools.

Option 2 – Scoped API developer key

> ℹ️ If your KAF domain is not on *.kaltura.com, or you prefer added security, you'll need to create a Scoped API Developer Key.

1. Log into Canvas as an administrator.
2. Navigate to the Developer Keys page.
3. On the **Developer Keys** page, click on **+ Developer Key** and select **+ API Key** from the drop-down list.

The **Key Settings** page displays.

![Kaltura logo]

Key Settings

Key Name:

`Unnamed Tool`

Owner Email:

Redirect URIs:

Redirect URI (Legacy):

Vendor Code (LTI 2):

Icon URL:

Notes:

☐ Test Cluster Only

Client Credentials Audience ⓘ

`Canvas` ⌄

4. Enter the following:
   - **Key Name** - 'Kaltura Scoped Key'
   - **Owner Email** - Optional
   - **Redirect URLs** - Enter your KAF URL starting with `https://` .Use your vanity domain if you have implemented one.
   - **Redirect URL (Legacy)** - Enter your KAF URL starting with `https://` .Use your vanity domain if you have implemented one (the value should be the same as used in the **Redirect URLs** field).
   - **Vendor Code (LTI 2)** - Leave blank.
   - **Icon URL** - Optional
   - **Notes** - Optional
   - **Test Cluster Only** – Leave unchecked.
   - **Client Credentials Audience** – Canvas should be selected.
5. Scroll to the top and click on **Enforce Scopes** to display all the available scopes.

Key Settings

Key Name:

Unnamed Tool

Owner Email:

Redirect URIs:

Redirect URI (Legacy):

The Enforce Scopes section expands.

Leave **Allow Include Parameters** unchecked.

6. Scroll down to **Courses** and click to expand.

7. Check the following scopes:

- url:GET|/api/v1/courses
- url:GET|/api/v1/courses/:id

8. Scroll down to **Users** and click to expand.

9. Check the following scope:

- url:GET|/api/v1/users/:user_id/profile - required for Kaltura to retrieve the user profile. If this scope isn't enabled, users may be prompted to reauthorize when switching between multiple Canvas environments or Kaltura tools in the same Canvas account.

10. Click **Save**.

11. Click the toggle to enable the key.

A confirmation message displays: *Are you sure you want to change the state of the developer key [name]?*

12. Click **Switch to On**. When the key is enabled, it's green.

Step 11 – Set API developer key in Canvas module

The lti13ClientID value in the Hosted module tells KAF which Canvas LTI developer key to connect to.

> ⚠️
> Only complete this step if you used Option 2 - Scoped API Developer Key above.

1. Log into your Configuration Management console (https://{your_KAF_base_URL}/admin).
2. Navigate to the Canvas module (https://{your_KAF_base_URL}/admin/config/tab/canvas).
3. In the **useScopedKey** field, set to 'Yes'.

   This exposes the **Canvas Account API Developer Key** settings.

4. Set the **enableUserProfileScope** setting to 'Yes'.
5. Fill in the **customAppId** and **customAppKey** fields using the Key ID and Key for the API Developer Key you created in Option 2 above, as follows:

   a. Navigate to the Developer Keys page and locate the Canvas API developer key you created.

Developer Keys

b. Copy the **Client ID** and paste it into the **customAppId** field in the Canvas module.

c. Click **Show Key**, copy the key and paste it into the **customAppKey** field in the Canvas module.

6. The Canvas module should now look like this:

7. Scroll to the bottom of the Canvas module and click **Save**.

Step 12 - Add Kaltura tools

Once you've completed the previous steps, you can add the Kaltura external tools.

1. Log into Canvas as an administrator and navigate to the Developer Keys page.

![Kaltura logo]

Kaltura › Developer Keys

Developer Keys

Account | Inherited

Name	Owner Email	Details ▾	Stats	Type	State	Actions
Kaltura Video Plugin ▢	No Email	22650000000000390 [Show Key]	Access Token Count: 0 Created: Oct 14 at 6:47pm Last Used: Never	🔌	✅	✏️ 🗑️
Kaltura Video Plugin ▢	andrei.vladtrifan@kaltura.com	22650000000000389 [Show Key]	Access Token Count: 0 Created: Oct 10 at 5:25pm Last Used: Never	🔌	✅	✏️ 🗑️
Kaltura Support ▢	No Email	22650000000000388 [Show Key]	Access Token Count: 0 Created: Oct 7 at 11:19pm Last Used: Never	🔌	✅	✏️ 🗑️

2. On the **Developer Keys** page, locate the LTI developer key you created and copy the **Client ID** from the **Details** column.

Developer Keys

Account | Inherited

Name	Owner Email	Details ▾	Stats	Type	State	Actions
Kaltura Video Plugin ▢	No Email	==22650000000000390== [Show Key]	Access Token Count: 0 Created: Oct 14 at 6:47pm Last Used: Never	🔌	✅	✏️ 🗑️

3. In the left-hand navigation, click the **Settings tab** (https://{your_Canvas_base_URL}/accounts/1/settings#tab-settings).

The Settings page displays.

4. On the Settings page, click the **Apps** tab.

The External Apps page displays.

5. Click **View App Configurations**.
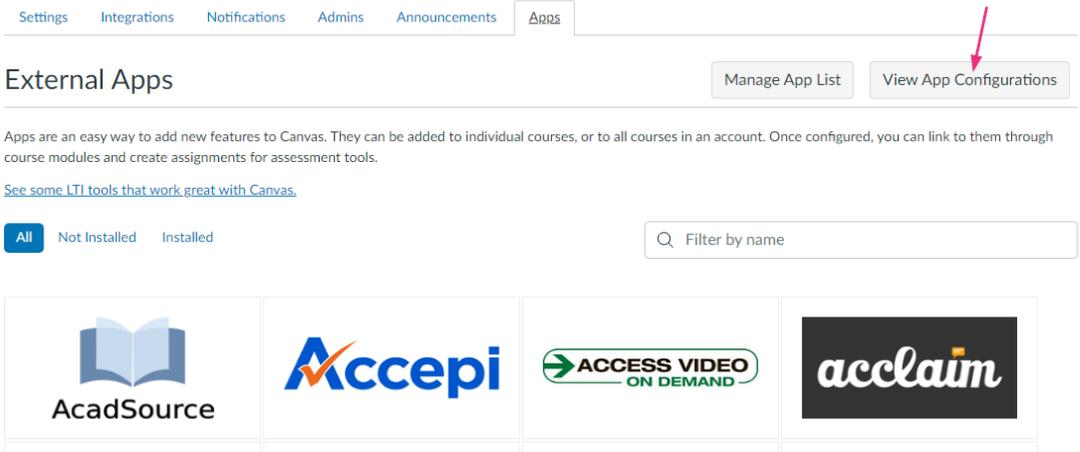
A list of apps displays.

6. Click **+App**.

The **Add App** page displays.

7. Click on the **Configuration Type** drop-down menu and select **By Client ID**.

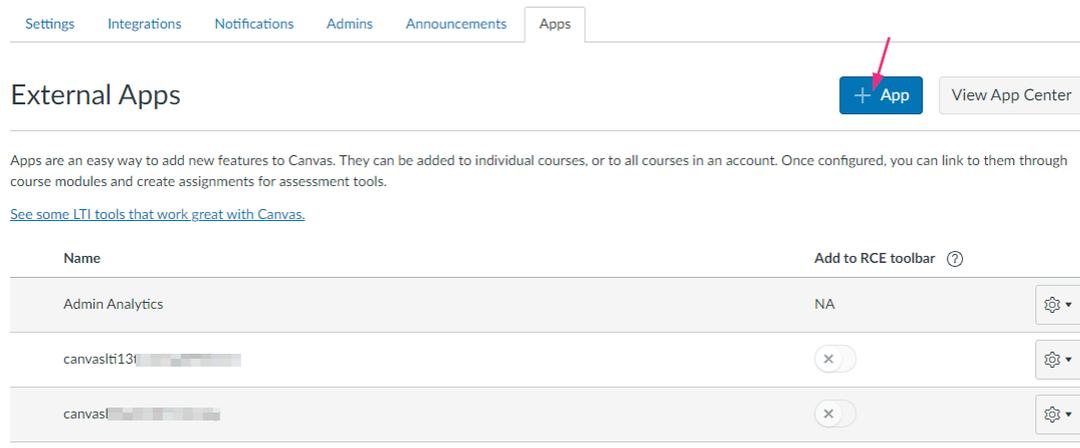8. Paste the Client ID copied in Step 4 - Create LTI developer key into the **Client ID** field.

Add App   ✕

Configuration Type

By Client ID

Client ID

22650000000000390

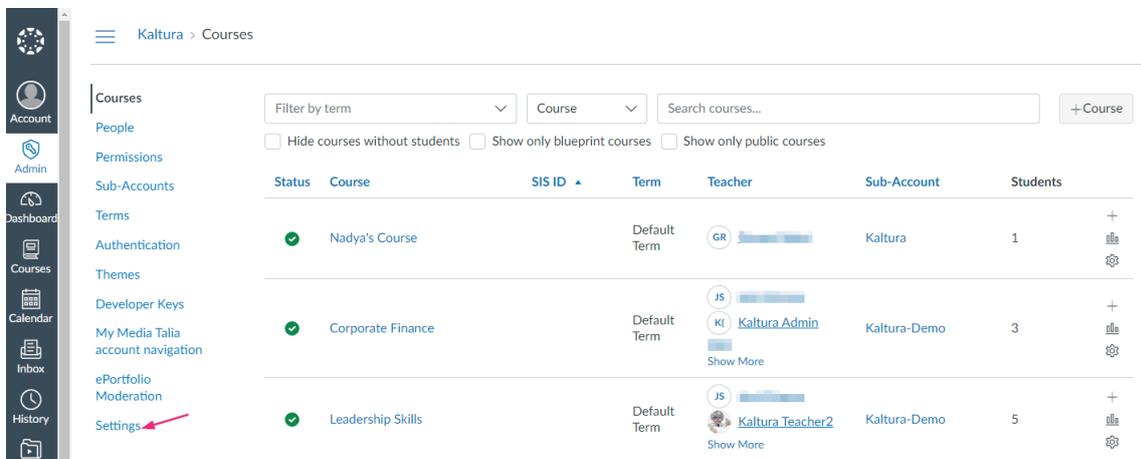To obtain a client ID, an account admin will need to generate an LTI developer key.

Cancel   Submit

9. Click **Submit**.

After the upgrade – Remove LTI 1.1 tools

Once you've upgraded to LTI 1.3 and have tested the Kaltura LMS Integration, remove the old LTI 1.1 tools.

1. Log into Canvas as an administrator.
2. On the **Admin** tab in the navigation menu, select the account level where the Kaltura External Learning tools – LTI 1.1 are installed.
3. In the left-hand navigation, click the **Settings** tab.

4. The **Settings** page displays.

Kaltura

Kaltura › Settings

| Courses | Settings | Integrations | Notifications | Admins | Announcements | Apps |

Courses
People
Permissions
Sub-Accounts
Terms
Authentication
Themes
Developer Keys
My Media Talia
account navigation
ePortfolio
Moderation
Settings

Account Settings

Account Name: Kaltura

Default Language: Not set (defaults to English (United Stat)

This will override any browser/OS language settings. Preferred languages can still be set at the course/user level.

Default Due Time: Account default (11:59pm)

This influences the user interface for setting due dates. It does not change the time due for any existing assignments.

Default Time Zone: Eastern Time (US & Canada) (-05:00/-0)

Maintenance windows: 1st and 3rd Thursday of the month from 3:05am to 5:05am (Thursday from 8:05am to 10:05am UTC)
Next window: Thu Nov 7, 2024 from 3:05am to 5:05am

For maintenance window details please see the release notes 🗐.

Allow Self-Enrollment: Never

Trusted HTTP Referers: https://example.edu

This is a comma separated list of URL's to trust. Trusting any URL's in this list will bypass the CSRF token when logging in to Canvas.

Default View for Dashboard: Card View

☐ Overwrite all users' existing default dashboard preferences

5. Click the **Apps** tab.
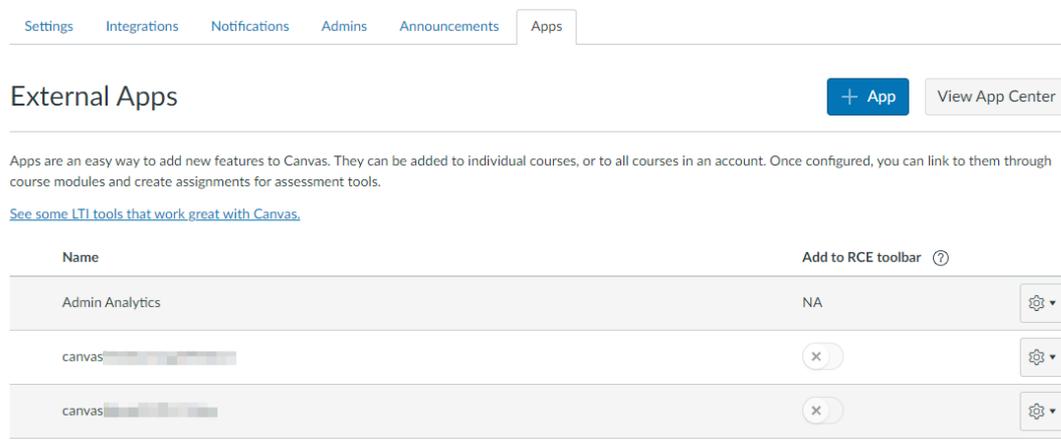

On the **External Apps** page, you'll see a list of the Kaltura External apps that have been implemented.

> ℹ️
>
> Your list may look different based on the external learning tools implemented at your institution and the name used when the tool was implemented.

6. On the **External Apps** page, click **View App Configurations**.
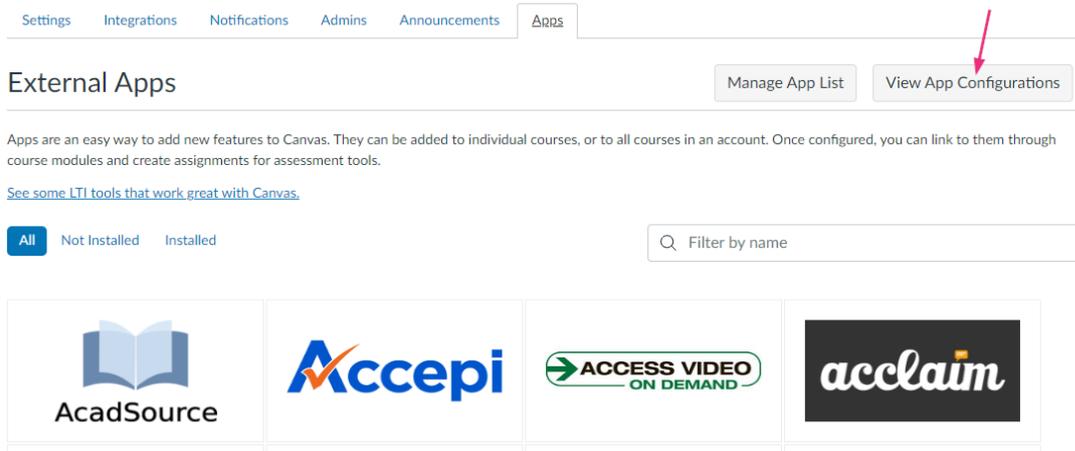

![Kaltura logo]

The list of apps displays.

7. Find the Kaltura LTI 1.1 apps, click the gear icon next to each app, and select Delete.

8. Confirm the deletion in the pop-up message. The app and its placement will be removed.

Canvas LTI tool placements

Instructure provides multiple placements for external tools in Canvas. The recommended Kaltura placements align with those used in earlier LTI versions.

Note that placement limitations may apply depending on where the Kaltura tools are added within the Canvas account structure (account, sub-account, course). See Step 12 - Add Kaltura tools.
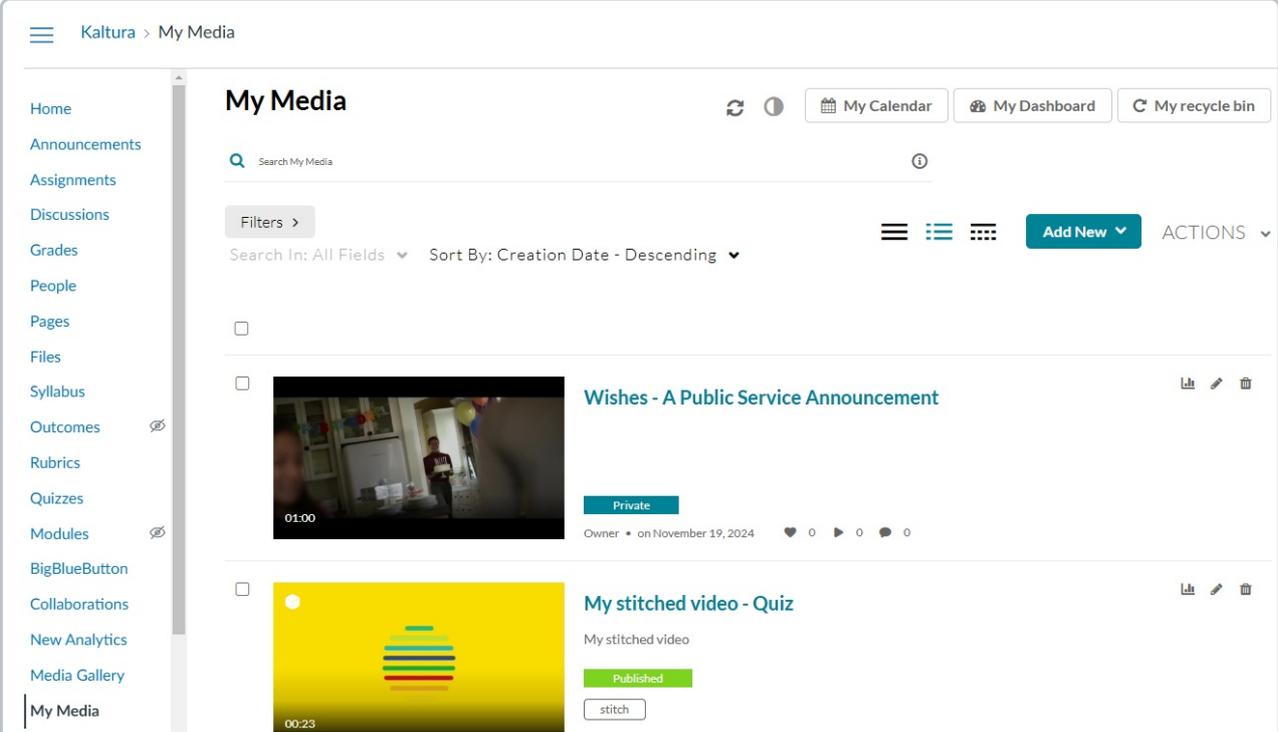
Example of **My Media** and **Media Gallery** in a Canvas navigation menu