Upgrade Kaltura LMS Extensions for Canvas from LTI 1.1 to LTI 1.3

Content updated: 05/11/2022

This article is designated for administrators.

About

This article explains how to upgrade the **Kaltura LMS Rich Media Extensions** 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.

As of May 2026, Instructure made updates to support for inherited API Developer Keys in Canvas. As a result, Kaltura deprecated the use of the inherited API Developer Key for Canvas integrations.

This article includes the updated Scoped API Developer Key configuration required when upgrading to LTI 1.3.

If you're already using LTI 1.3 and only need to migrate from an inherited API Developer Key to a Scoped API Developer Key, see Migrate a Canvas integration from an inherited API Developer Key to a Scoped API Developer Key.

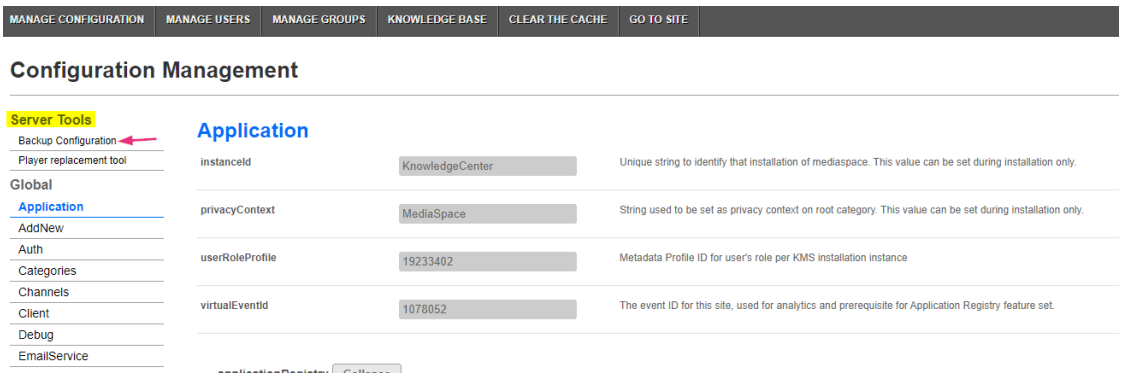
Prerequisites

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

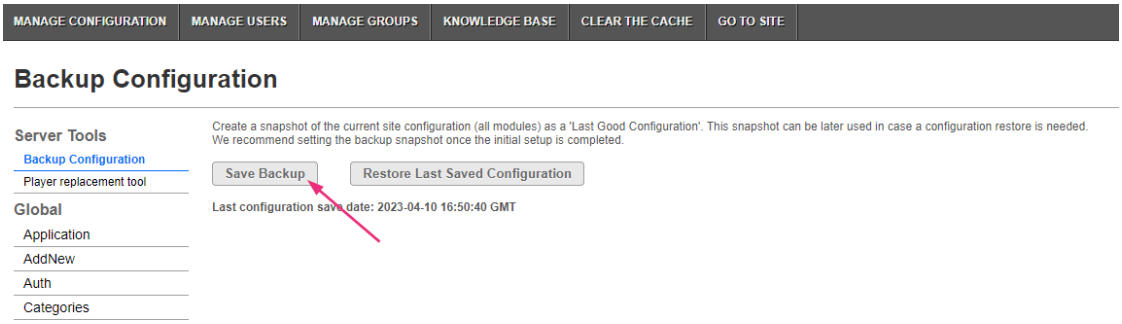
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Step 1 - Backup your configuration

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



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



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.*

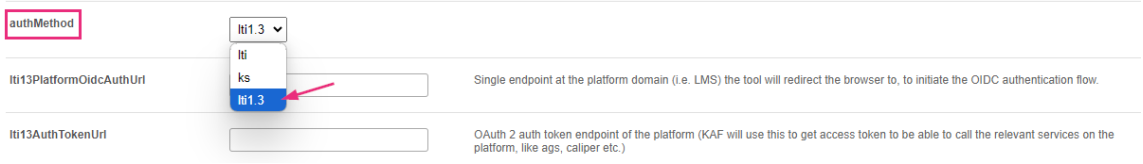
> The backup page will display the 'last configuration save date', which reflects the date when the configuration settings were last modified, not the date the backup was performed.

Step 2 - Enable LTI 1.3

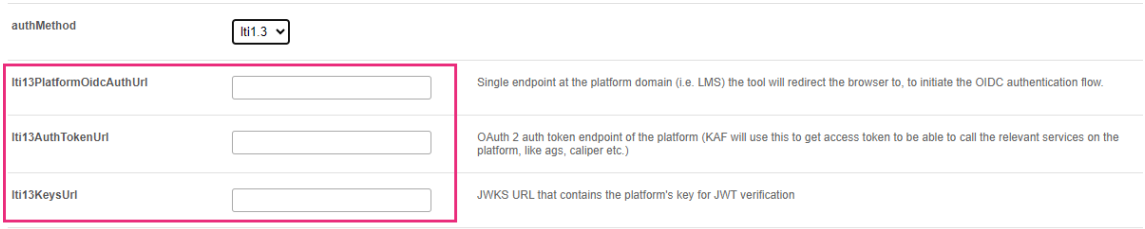
1. In your KAF Configuration Management console, navigate to the Hosted module.
2. On the Hosted module page, locate the **authMethod** field and select **lti1.3** from

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the dropdown.



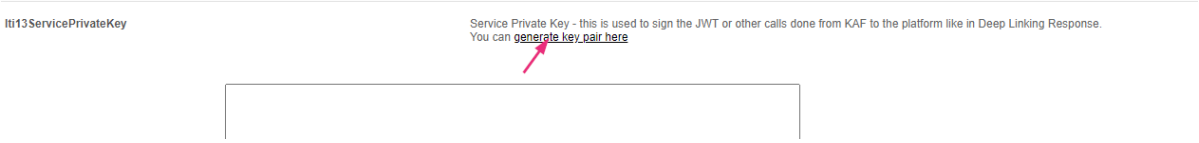
An additional section displays.



3. Configure the following fields:

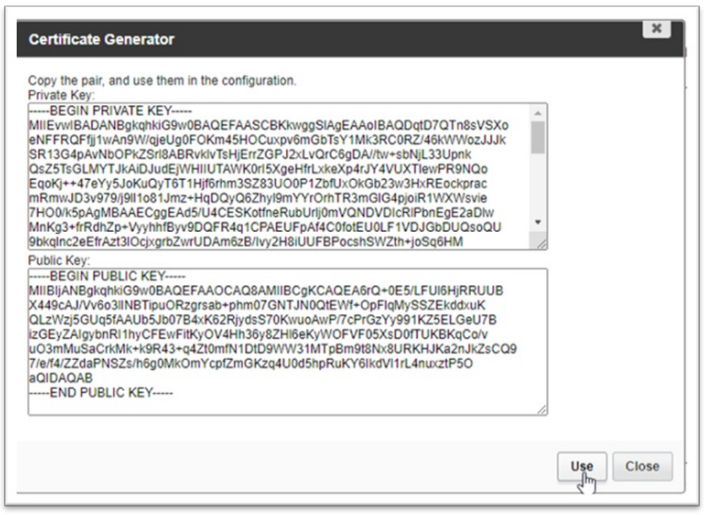
- **lti13PlatformOidcAuthUrl** = https://{your_Canvas_Domain}/api/lti/authorize_redirect
- **lti13AuthTokenUrl** = https://{your_Canvas_Domain}/login/oauth2/token
- **lti13KeysUrl** = https://{your_Canvas_Domain}/api/lti/security/jwks

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.



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6. Scroll to the bottom of the Hosted module page and click **Save**.

Step 3 - Generate LTI developer key JSON

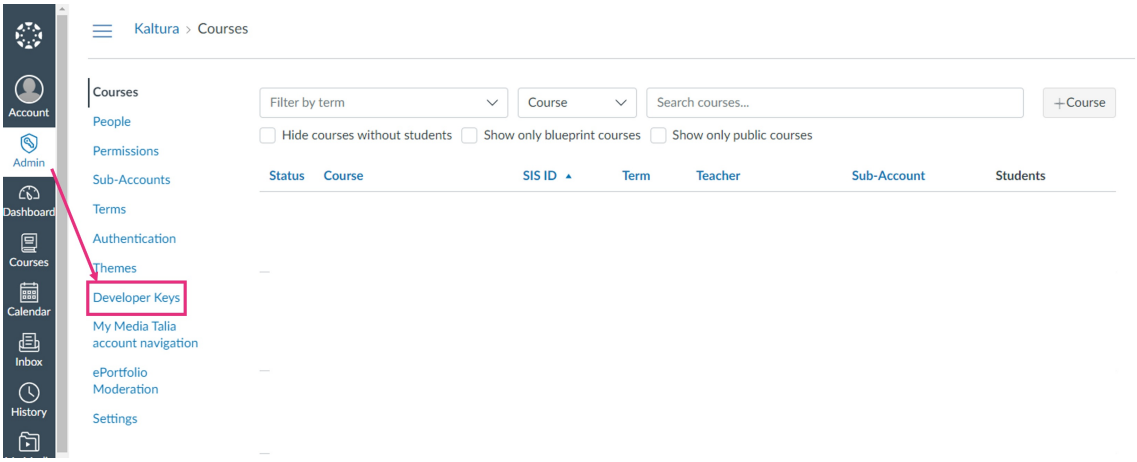
Enter the following URL in your browser: `https://{your_KAF_URL}/canvas/config/create-json-for-instance` Example: *https://12345.kaf.kaltura.com/canvas/config/create-json-for-instance*

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.

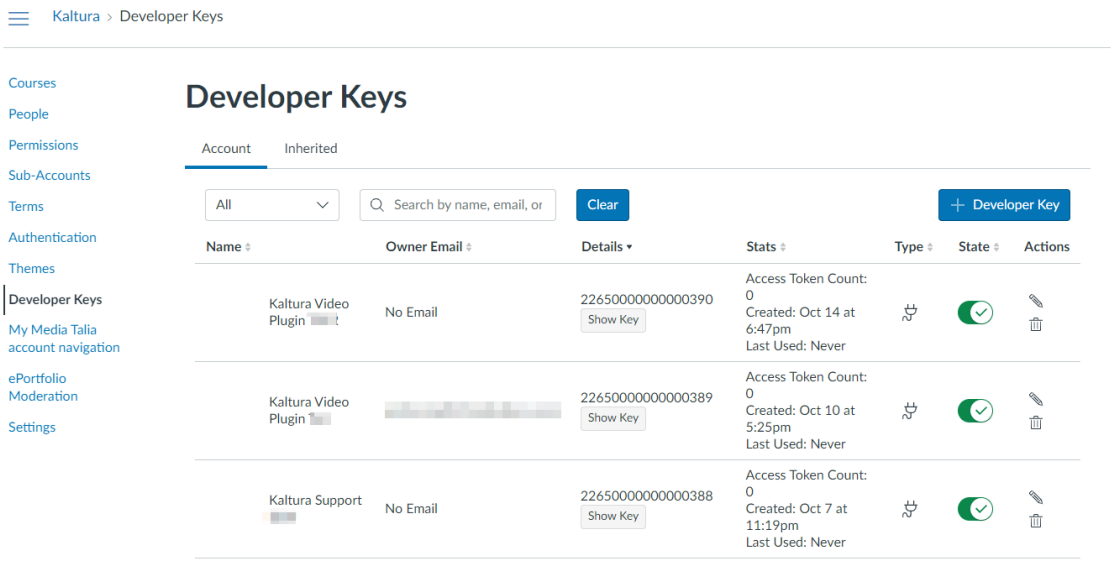
Step 4 - Create LTI developer key

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

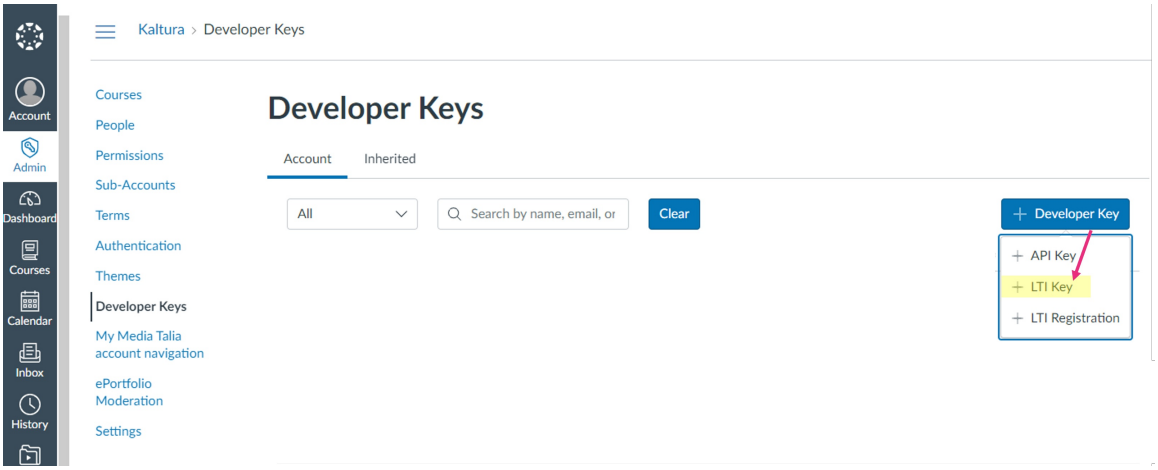


The **Developer Keys** page displays.

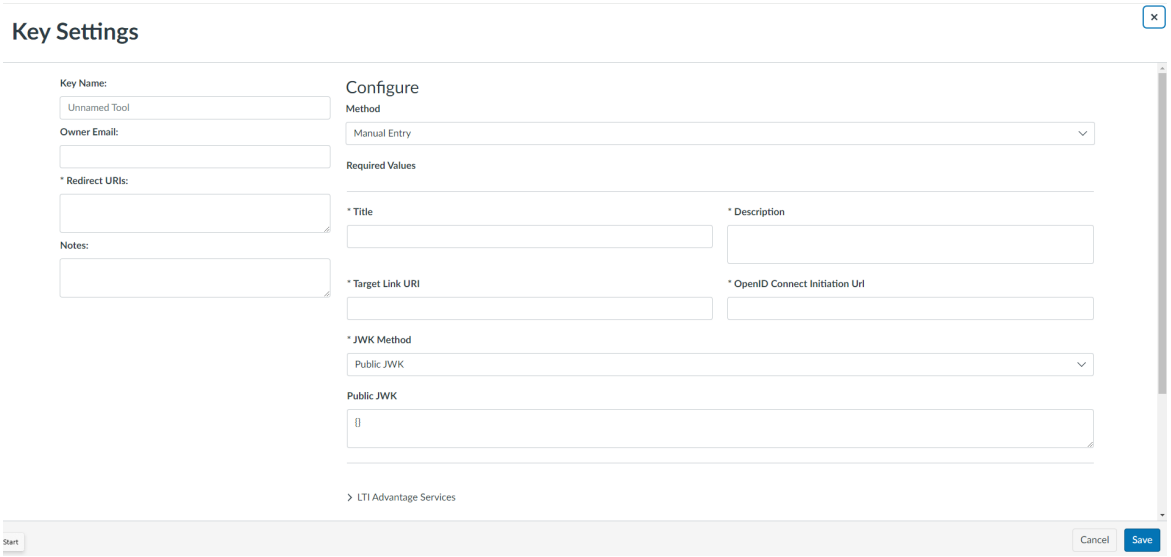
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4. Click **+Developer Key** and select **+ LTI Key** from the drop-down list.



The **Key Settings** page displays.



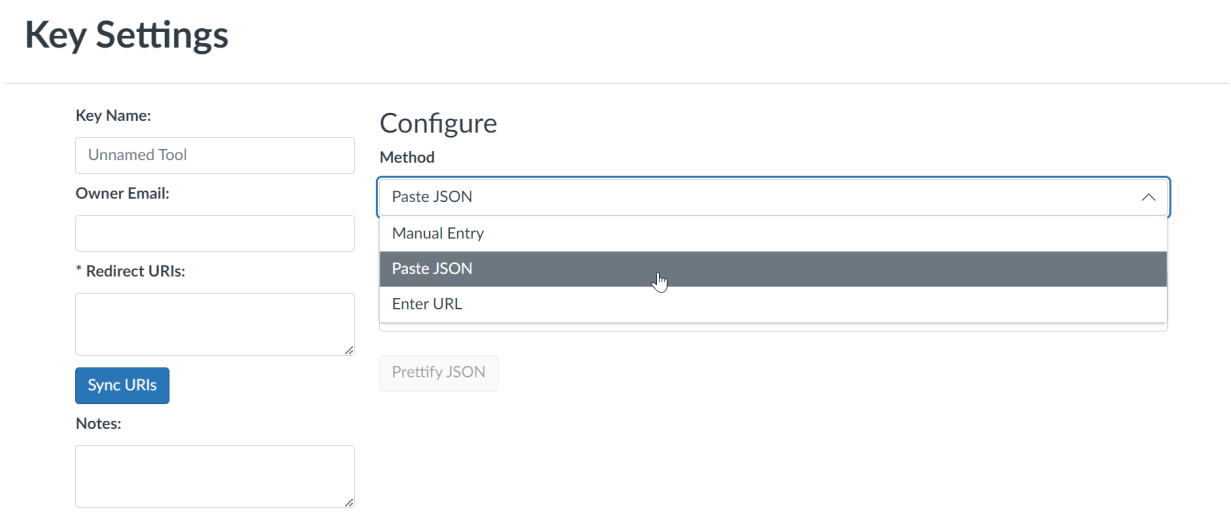
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5. Configure the following:

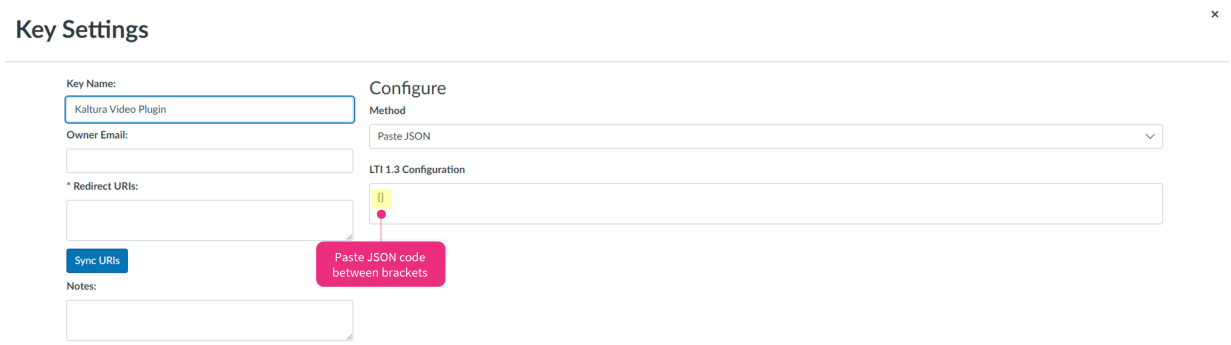
- **Key Name** - Enter Kaltura Video Plugin.
- **Owner email** - optional
- **Redirect URIs** - Enter `https://{your_KAF_URL}/hosted/index/oauth2-launch`
  Example:*https://12345.kaf.kaltura.com/hosted/index/oauth2-launch*

>
> 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.



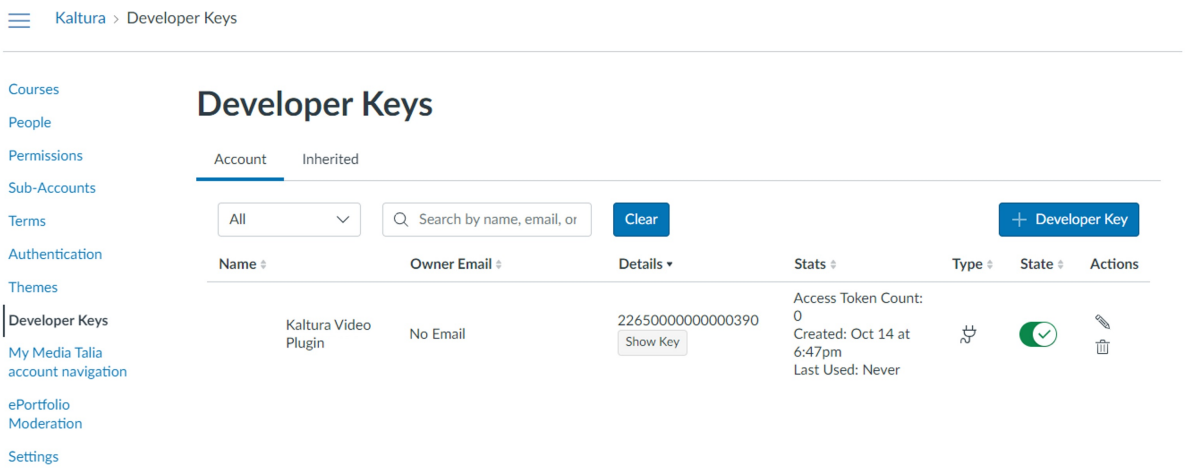
6. In the **LTI 1.3 Configuration** field, copy the JSON code (not including the brackets) from the previous section (Generate LTI Developer Key JSON) and paste it between the brackets.



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

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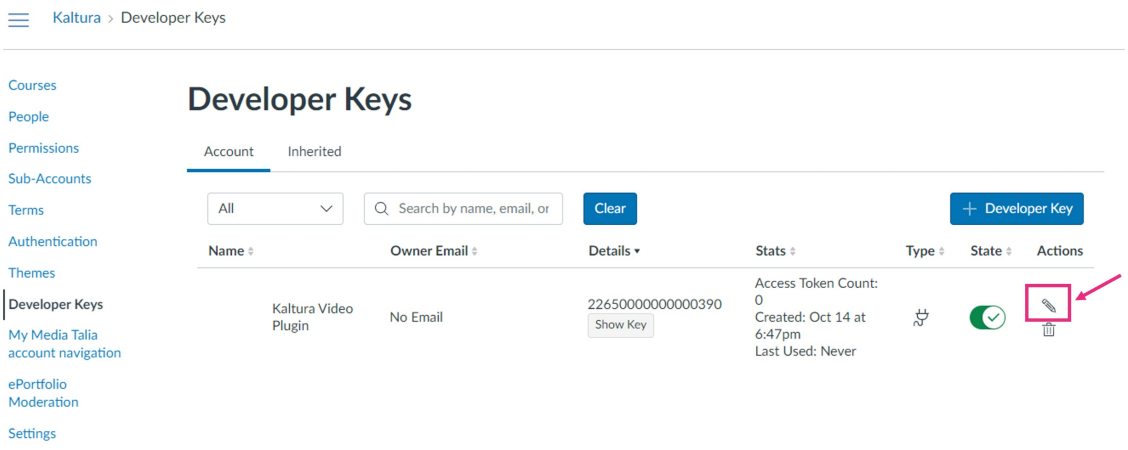
The new LTI developer key will now be listed on the Developer Keys page. If the **State** is set to off (red), it means the key is disabled. To enable the key, click the toggle (green).



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.

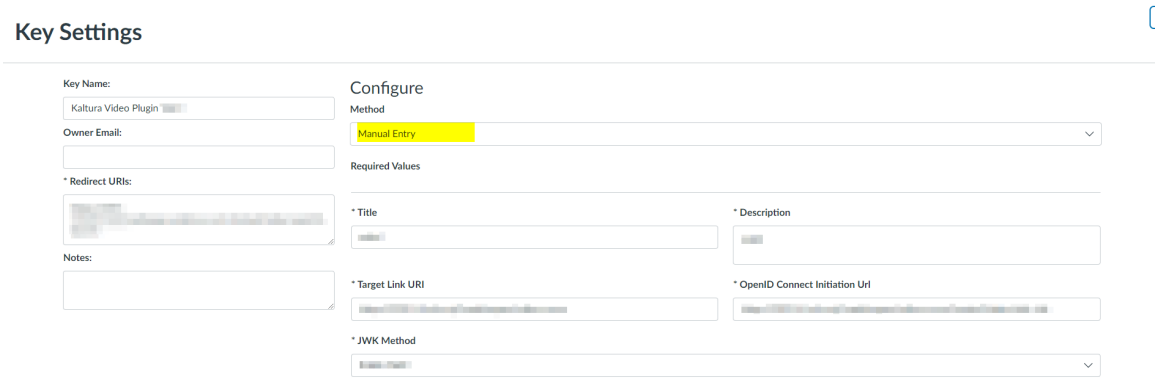
1. Edit the LTI developer key you created by clicking on the **pencil icon** to the far right of the key.



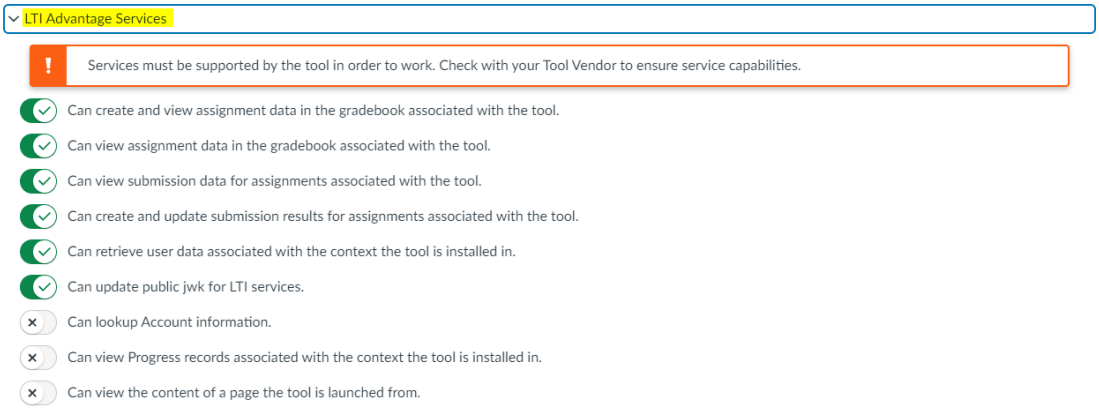
   The **Key Settings** page displays.

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

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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:

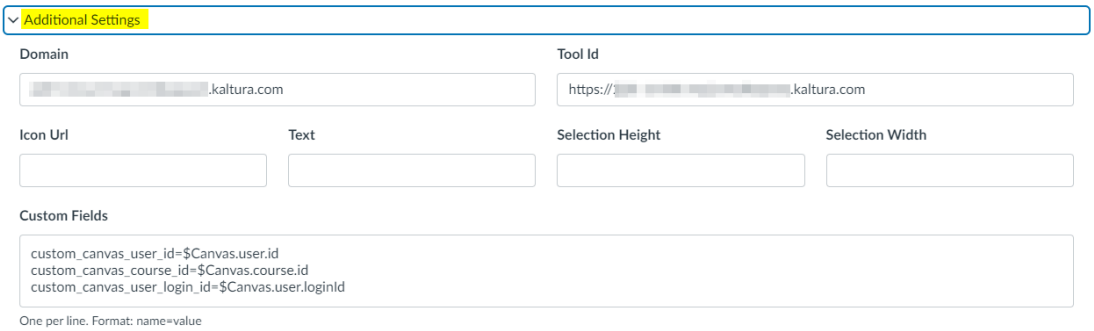
- Can create and view assignment data in the gradebook associated with the tool.
- Can view assignment data in the gradebook associated with the tool.
- Can view submission data for assignments associated with the tool.
- Can create and update submissions for assignments associated with the tool.
- Can 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.

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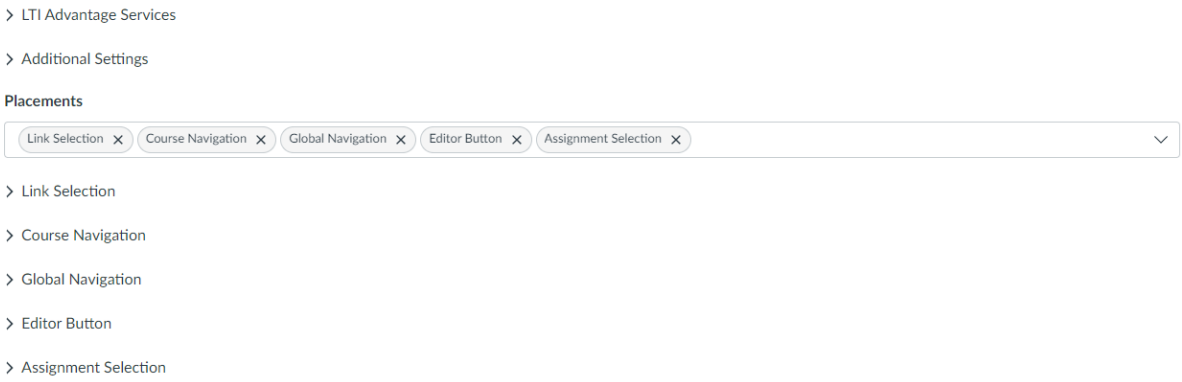


2. Review the following fields:

- **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

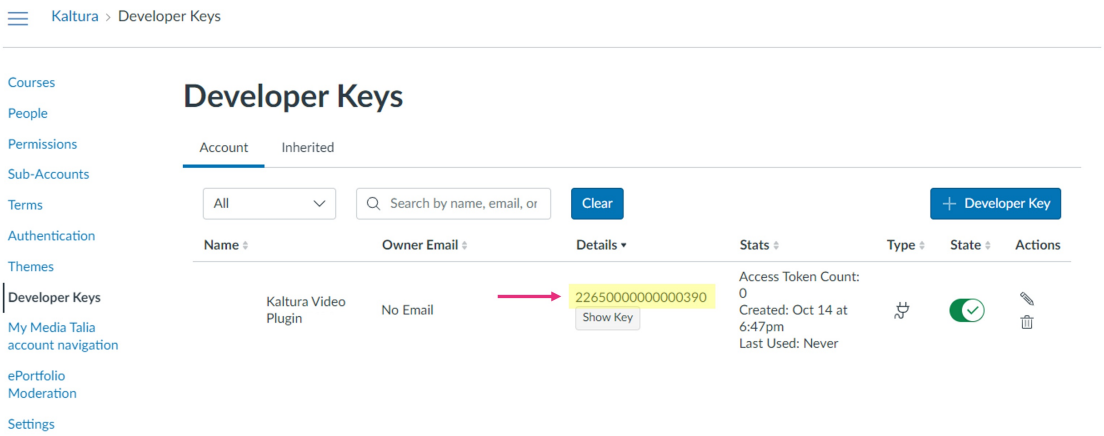
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video pages.

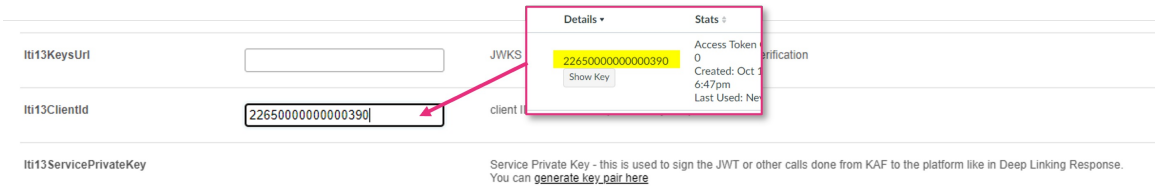
- **Course Navigation**: For the Kaltura Course Media Gallery.
- **Global Navigation**: For the Kaltura My Media tool in the global left-hand navigation.
- **Editor Button**: For the Kaltura Browse Search and Embed tool in the Canvas Rich Content Editor.
- **Assignment Selection**: For the Kaltura Interactive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

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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.

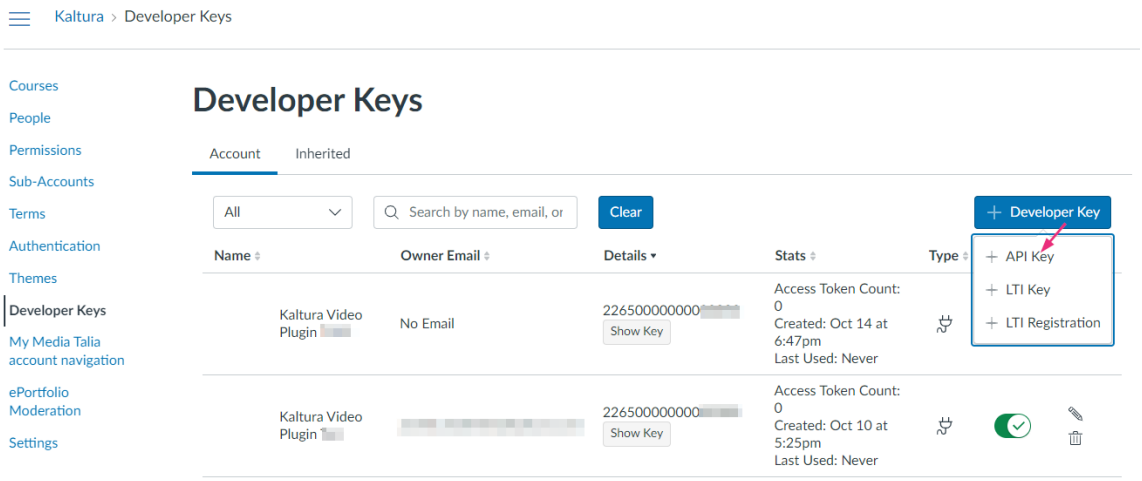
With the Kaltura LMS integration, user ID records are passed from the LMS to Kaltura during the LTI Launch. When using LTI 1.3 authentication, admins can configure which LTI attribute to use for the user ID in the KAF Hosted module.

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**.

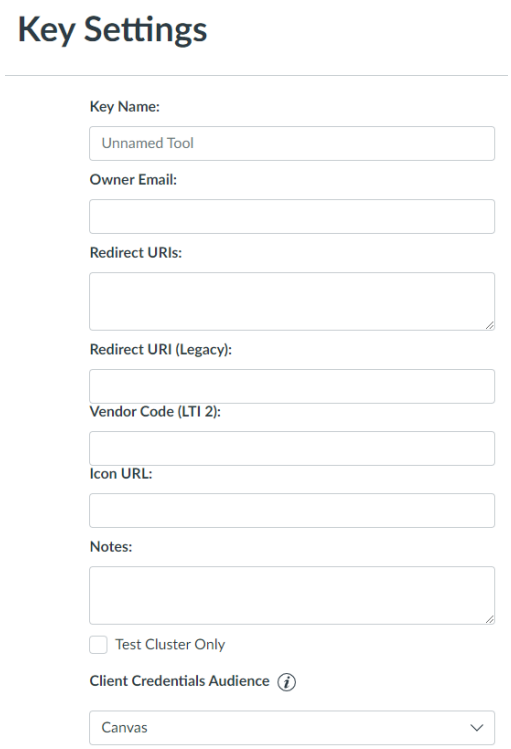
Step 10 - Create a Scoped API Developer Key

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



The **Key Settings** page displays.

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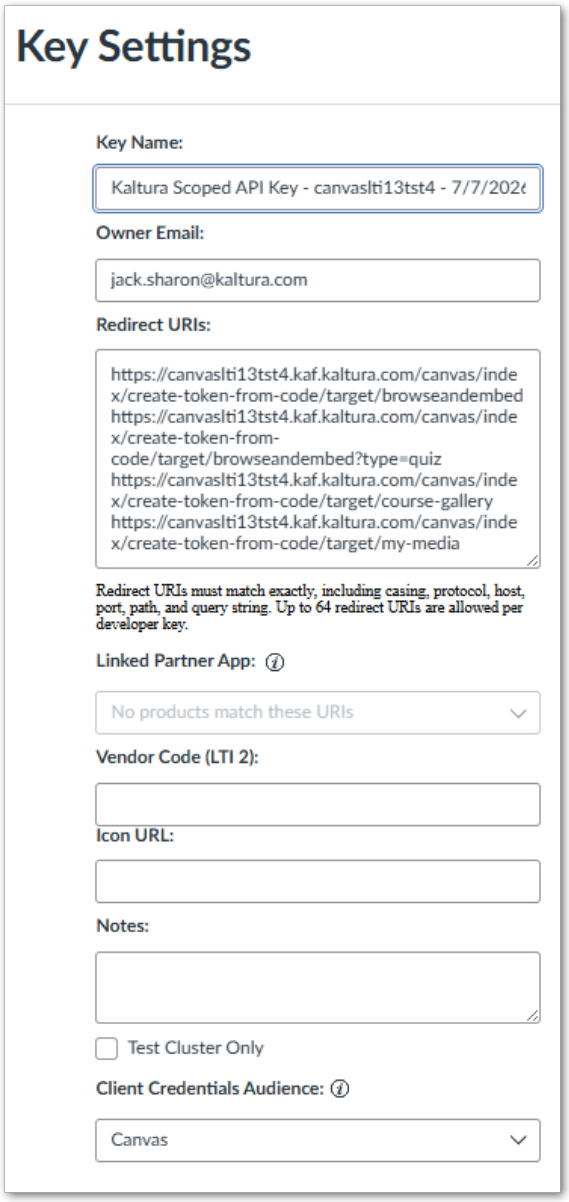
4. Configure the following:
   - **Key Name** - Kaltura Scoped API Key
   - **Owner Email** - Optional
   - **Redirect URLs** - Enter the following four KAF URLs:

     - For the {your_KAF_base_URL}, use your PID-based KAF domain or your KAF domain alias or vanity domain, if applicable.
     - Make sure there is no / (slash) at the end of the URL.

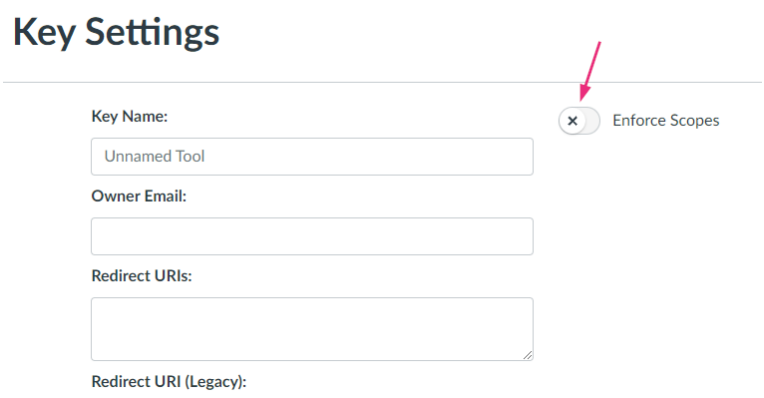
     - https://{your_KAF_base_URL}/canvas/index/create-token-from-code/target/browseandembed
     - https://{your_KAF_base_URL}/canvas/index/create-token-from-code/target/browseandembed?type=quiz
     - https://{your_KAF_base_URL}/canvas/index/create-token-from-code/target/course-gallery
     - https://{your_KAF_base_URL}/canvas/index/create-token-from-code/target/my-media
   - **Vendor Code (LTI 2)** - Leave blank.
   - **Icon URL** - Optional
   - **Notes** - Optional
   - **Test Cluster Only** – Leave unchecked.
   - **Client Credentials Audience** – Canvas should be selected.

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Your Key Settings will now look similar to the following:

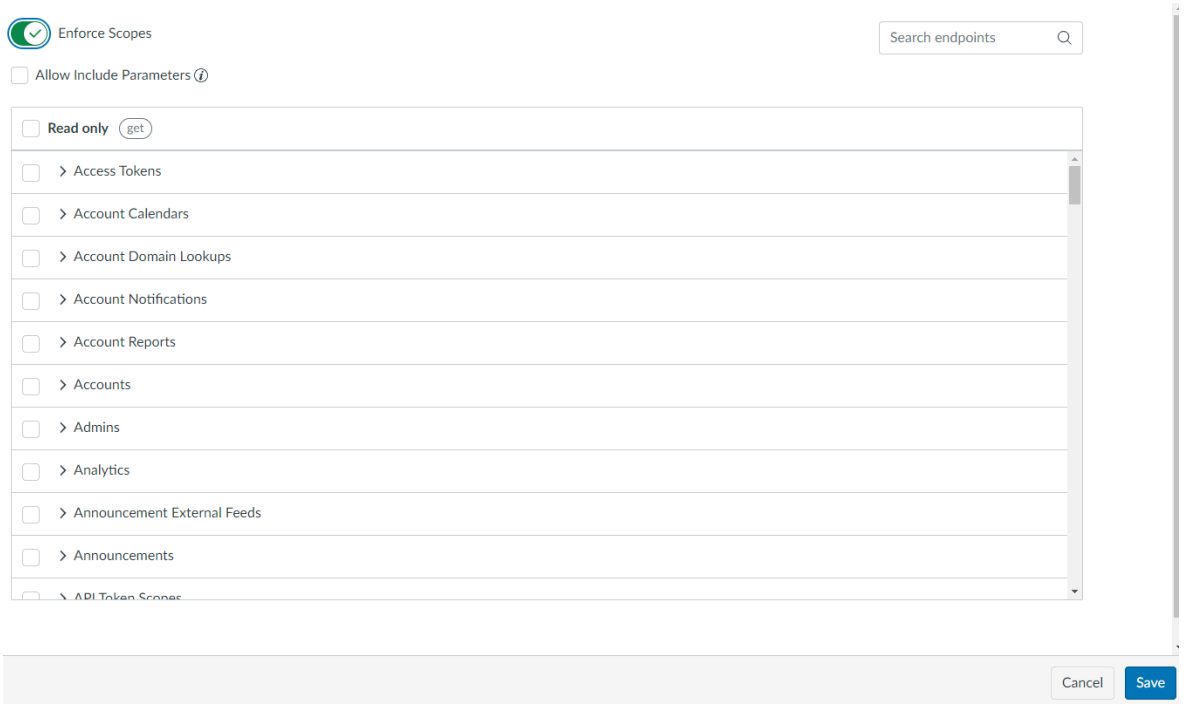


5. Scroll to the top of the page. If **Enforce Scopes** is not enabled (the toggle is not green and checked), click the toggle to enable it.



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The Enforce Scopes section expands.



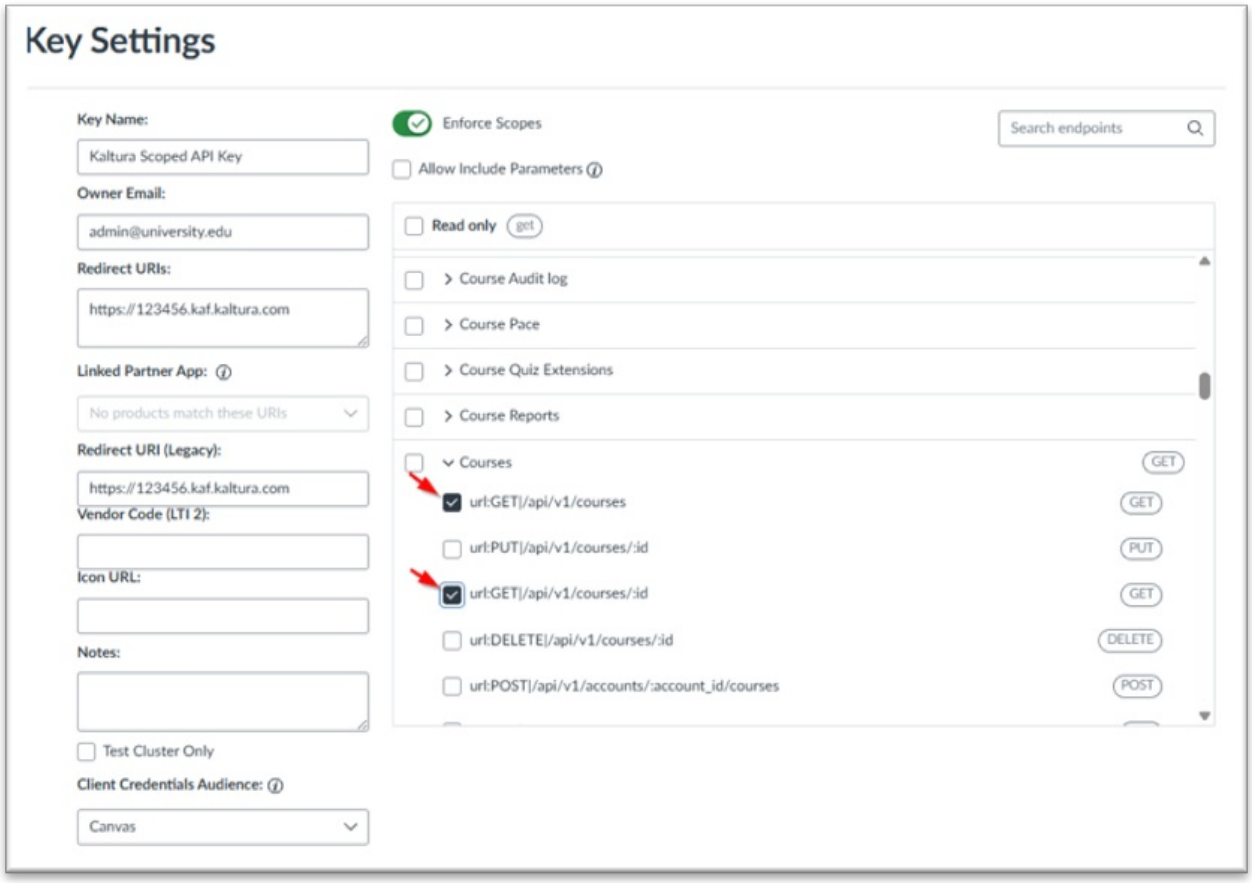
Leave **Allow Include Parameters** unchecked.

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`

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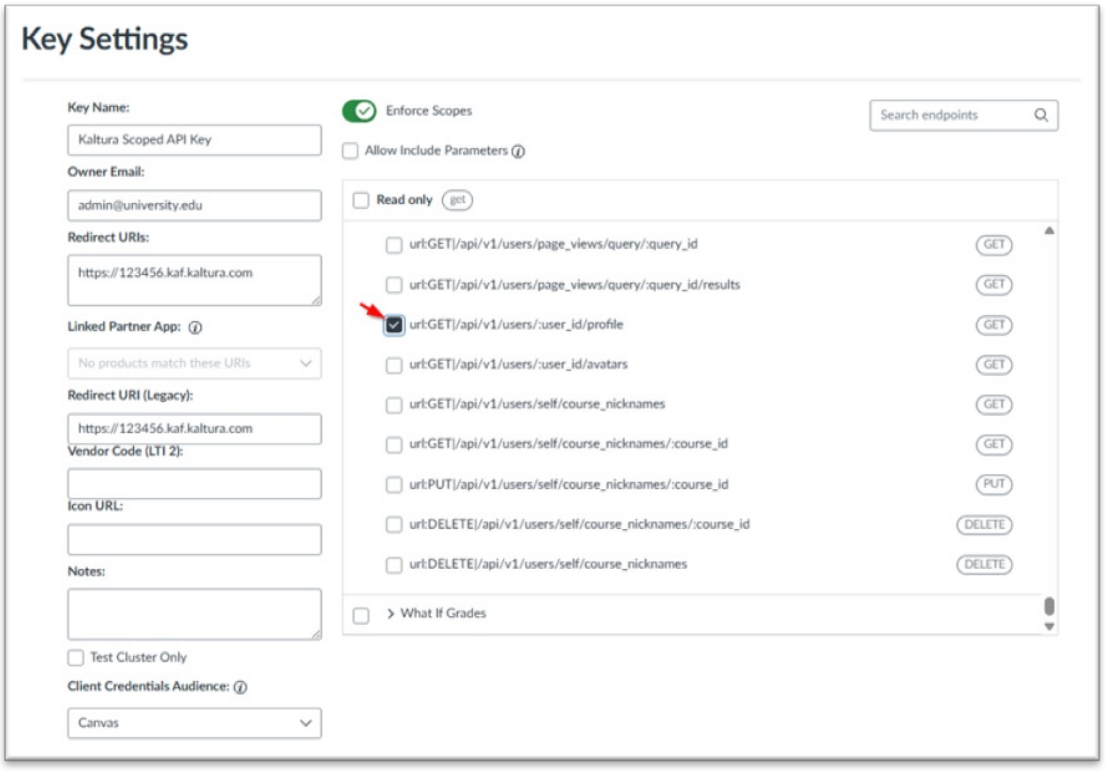


8. Scroll down to **Users** and click to expand.

9. Check the following scope:

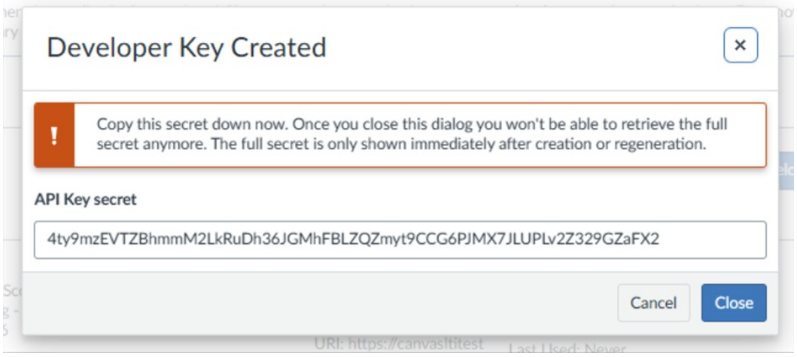
- `url:GET|/api/v1/users/:user_id/profile`

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10. Click **Save**.

The Developer Key Created message displays:



11. Copy the API Developer Key secret and store it in a secure location.

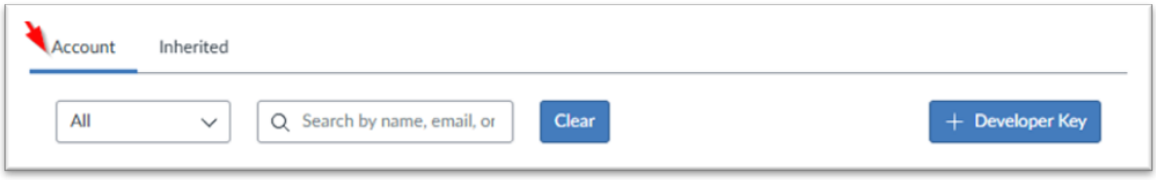
Make sure to copy the API Developer Key secret before closing the dialog box. After the dialog box is closed, the key can no longer be viewed.

12. Click **Close**.

The 'Developer Keys' page displays.

13. Select the **Account** tab.

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14. Locate the Scoped API Developer Key you created and click the **State** toggle to turn on the key.

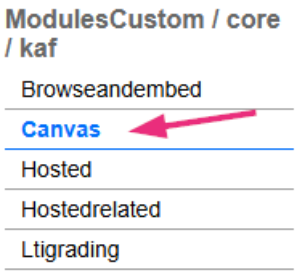
A confirmation message appears.

15. Click **Switch to On**.

When enabled, the toggle turns green.

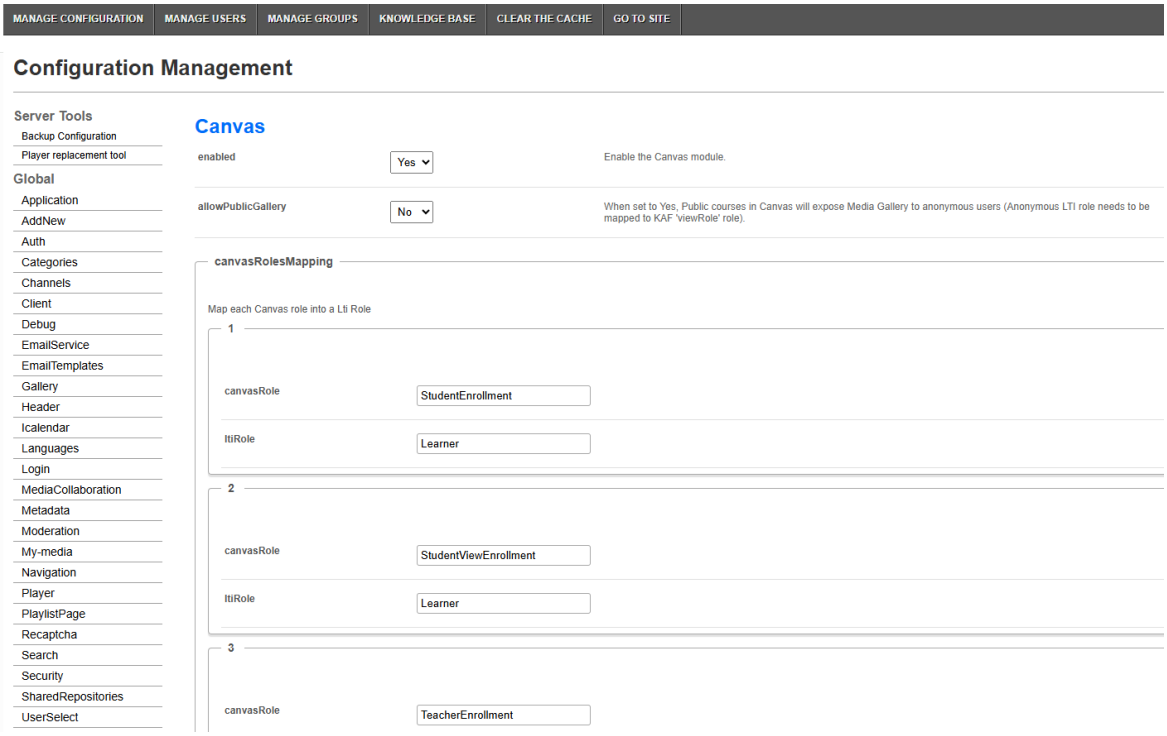
Step 11 - Set API Developer Key in Canvas module

1. Log into your KAF Configuration Management console and open the **Canvas** module. You can also navigate directly: (https://{your_KAF_base_URL}/admin/config/tab/canvas).



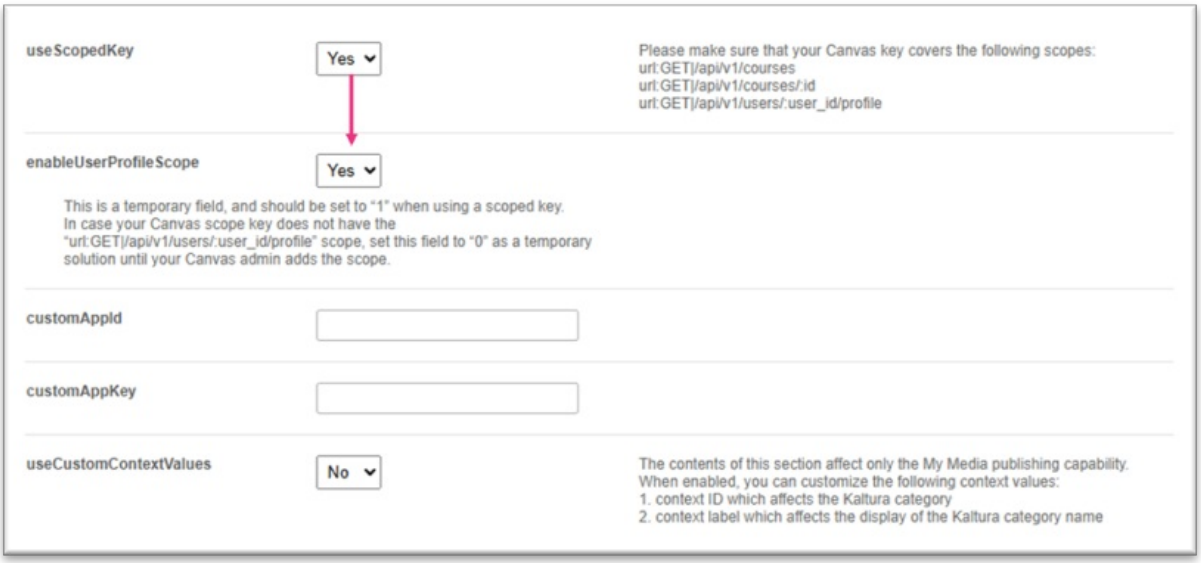
The 'Canvas' page displays.

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2. Scroll down to the **useScopedKey** field and set it to 'Yes'.

   This exposes the Canvas Account API Developer Key settings.



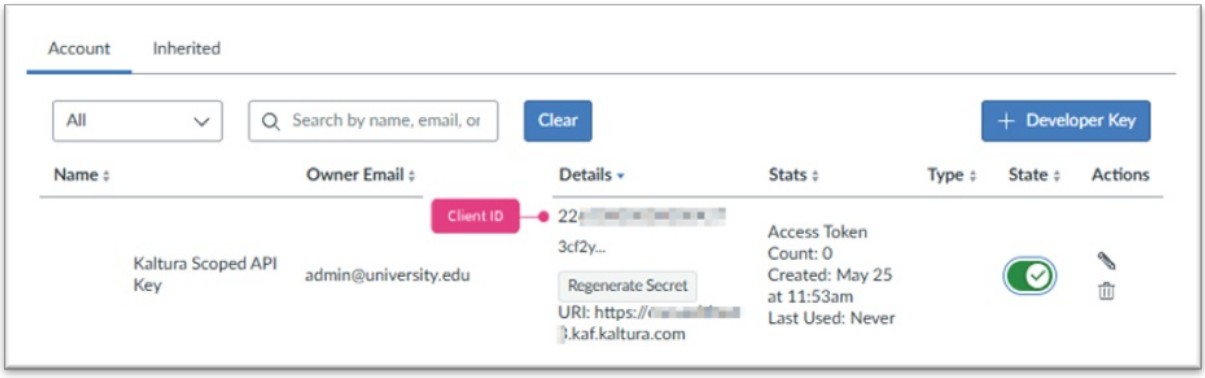
3. Set the **enableUserProfileScope** field to 'Yes'.

   This setting works with the Canvas user profile scope configured when creating the Scoped API Developer Key and helps prevent repeated authorization prompts when users switch between Canvas environments or Kaltura tools.

4. Fill in the **customAppId** and **customAppKey** fields using the Client ID and API Developer Key secret for the Scoped API Developer Key you created above:

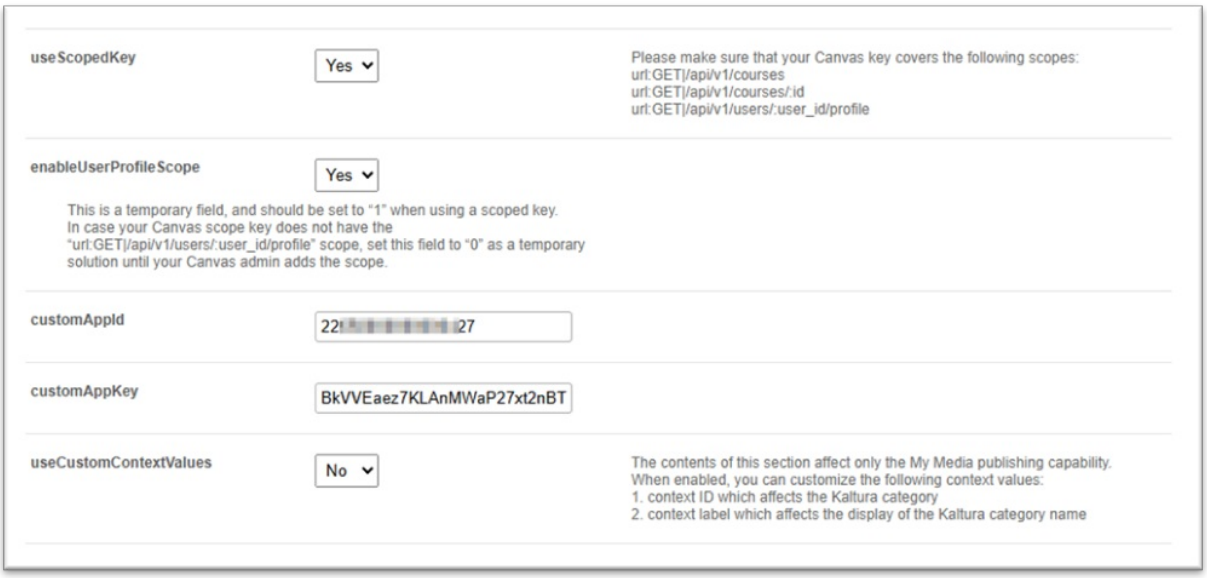
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- In Canvas, navigate to the **Developer Keys** page and locate the Canvas API Developer Key you created.
- Copy the **Client ID** and paste it into the **customAppId** field in the Canvas module.



- Copy the API Developer Key secret that you saved when creating the Scoped API Developer Key and paste it into the **customAppKey** field in the Canvas module.

  The Canvas module **useScopedKey** section should now look like this:



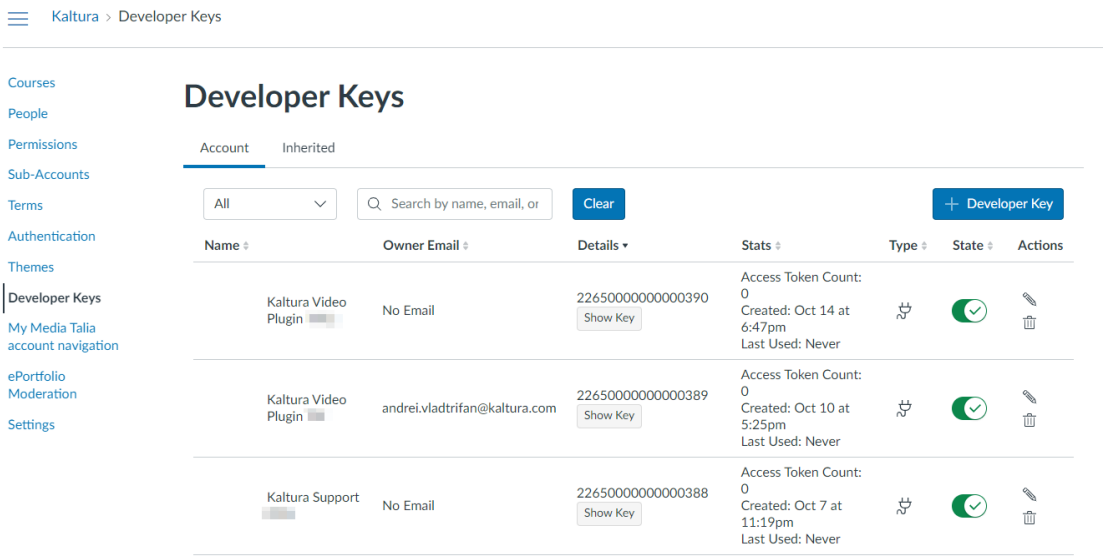
5. Scroll to the bottom of the Canvas module and click **Save**.

Step 12 - Add Kaltura tools

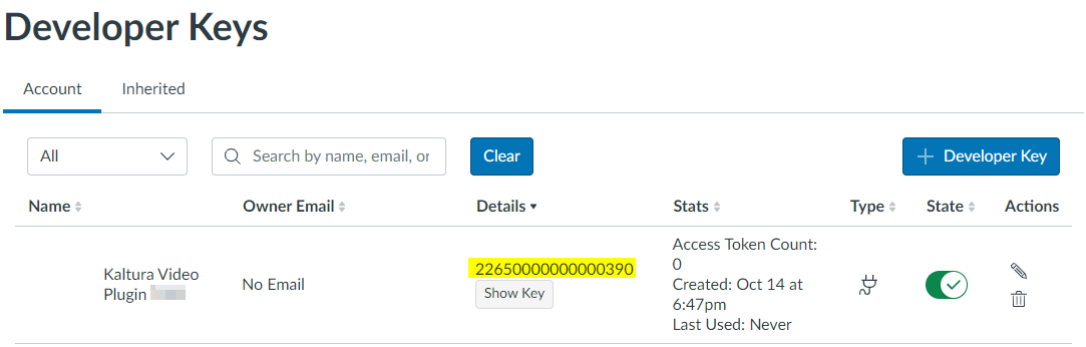
Once you've completed the previous steps, you can add the Kaltura tools.

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

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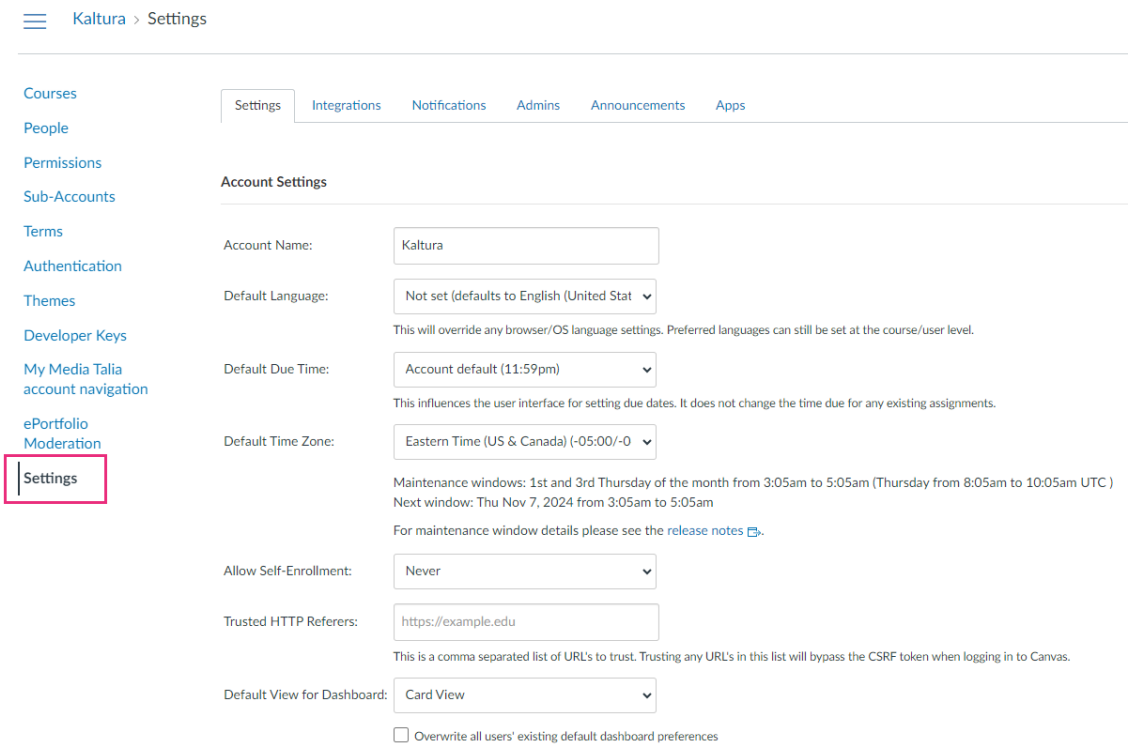


2. On the **Developer Keys** page, locate the LTI developer key you created and copy the **Client ID** from the **Details** column.



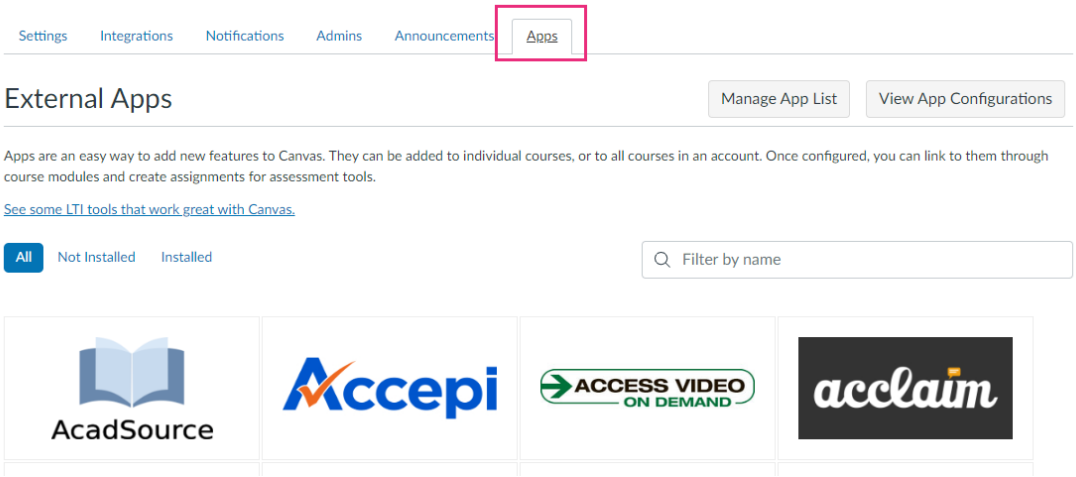
3. In the left-hand navigation, click the **Settings tab** (https://{your_Canvas_base_URL}/accounts/1/settings#tab-settings).

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The Settings page displays.

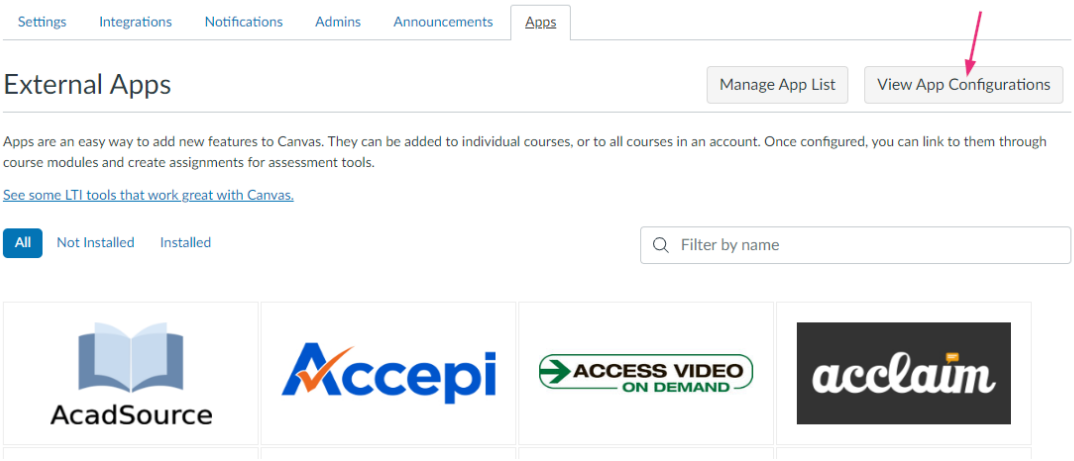
4. On the Settings page, click the **Apps** tab.



The External Apps page displays.

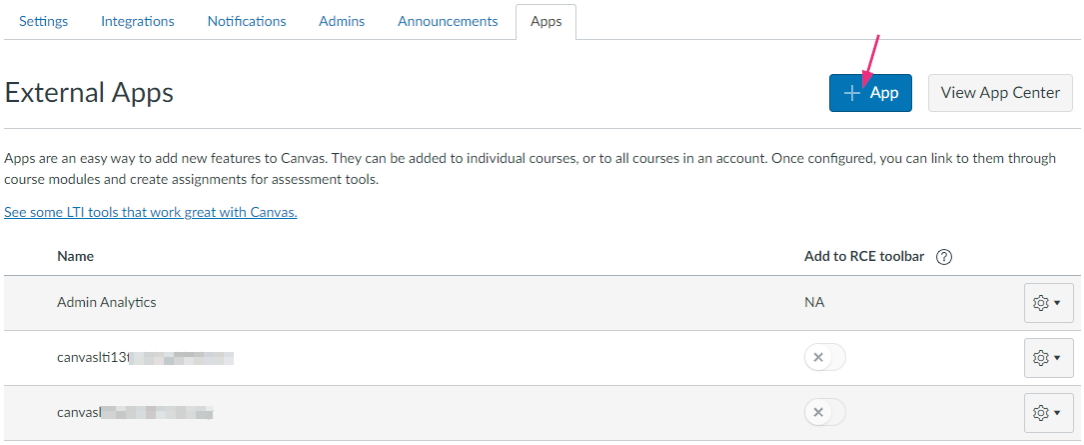
5. Click **View App Configurations**.

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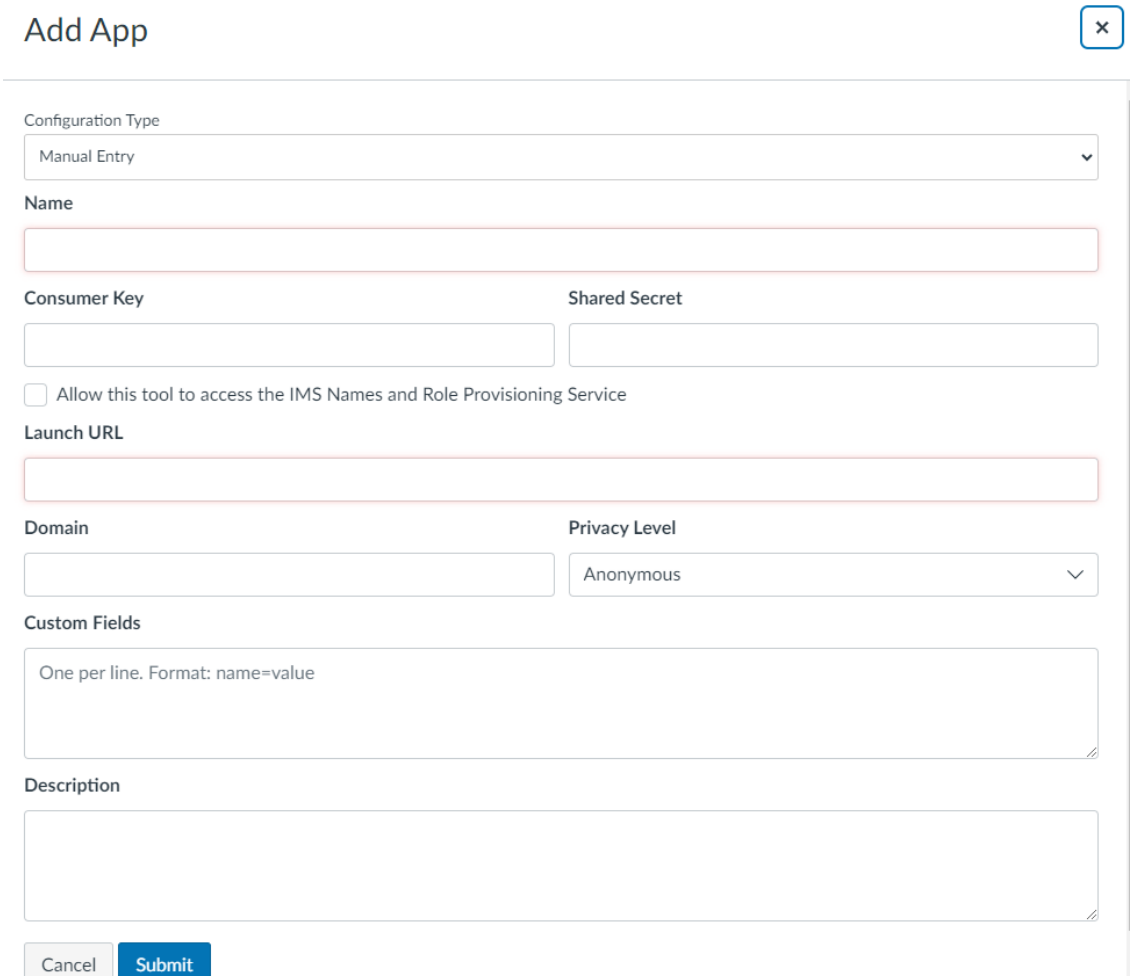
A list of apps displays.

6. Click **+App**.

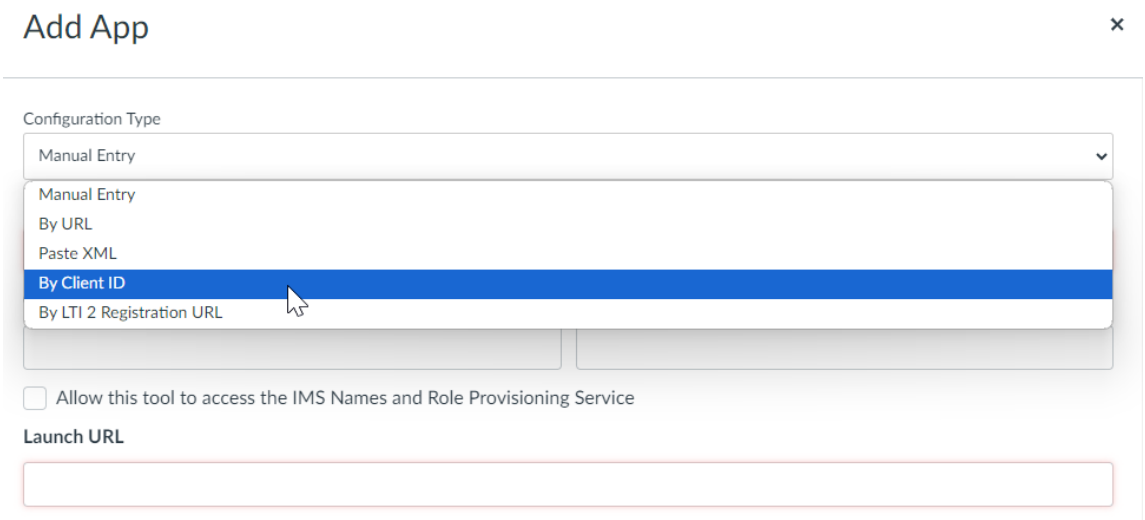


The **Add App** page displays.

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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.

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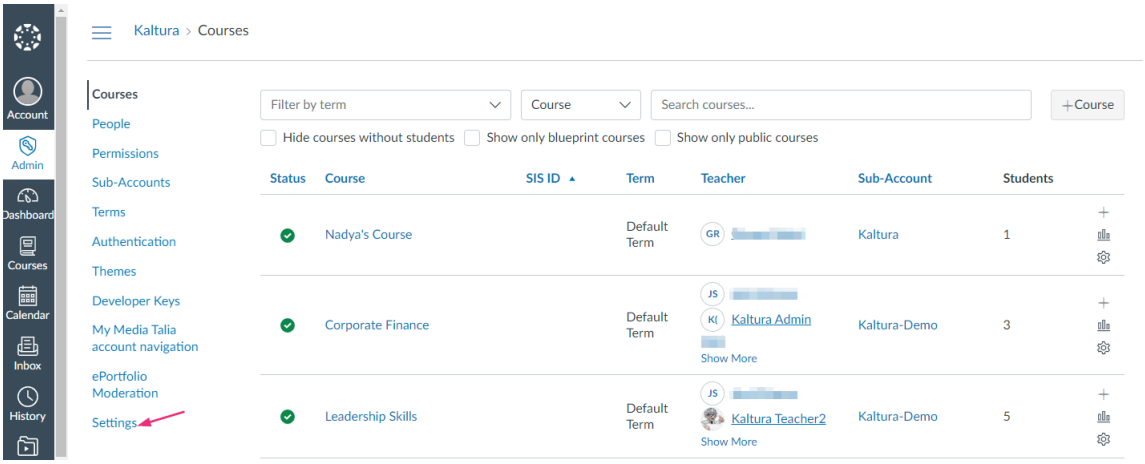


9. Click **Submit**.

After the upgrade - Remove LTI 1.1 tools

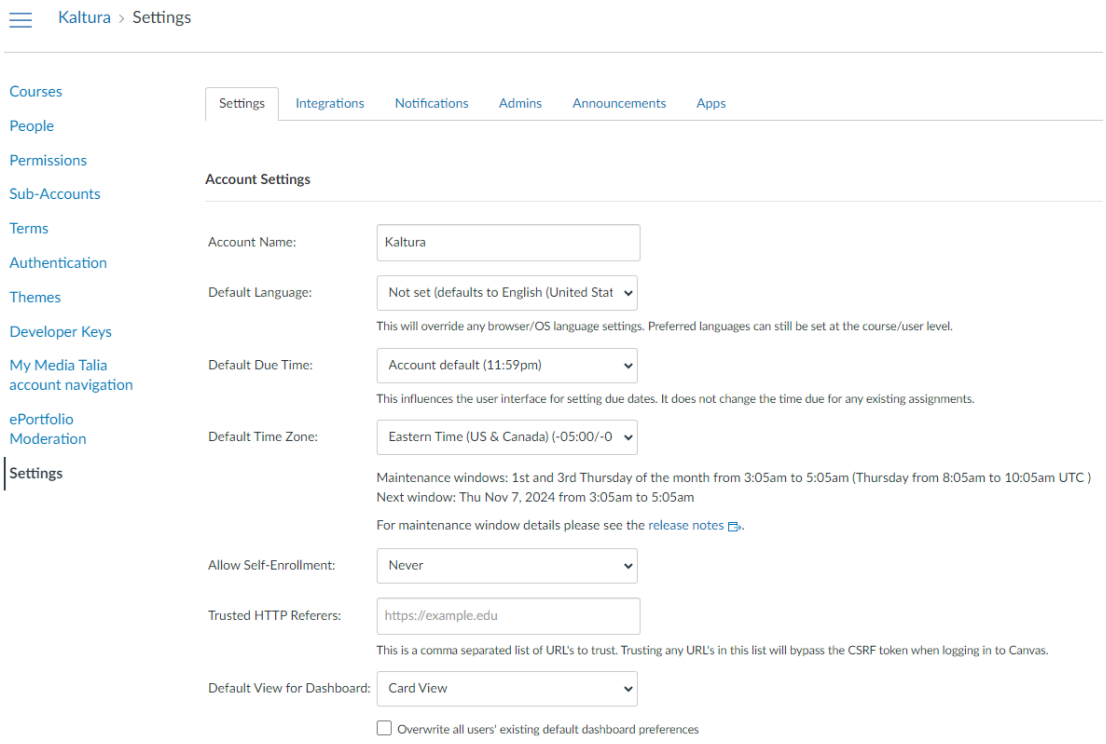
Once you've upgraded to LTI 1.3 and have tested the Kaltura LMS Integration, remove the old LTI 1.1 tools.

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.

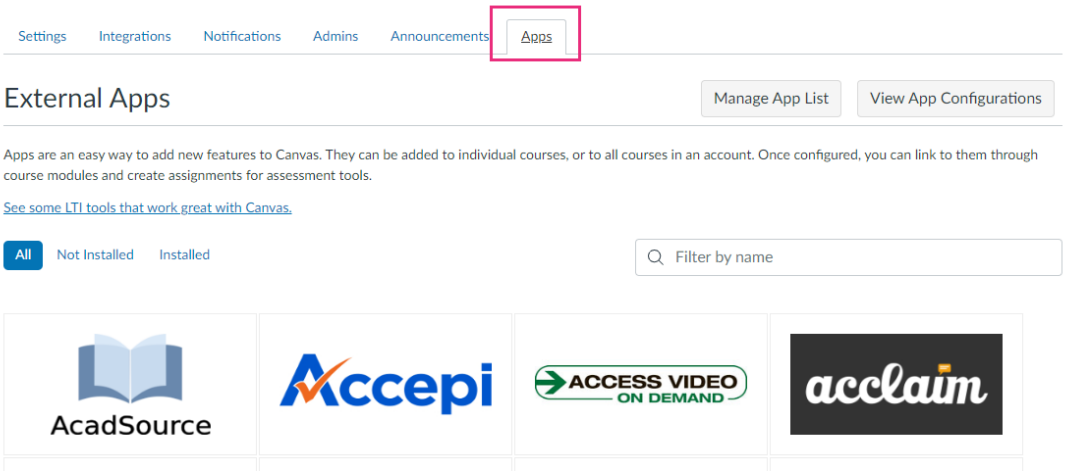


4. The **Settings** page displays.

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5. Click the **Apps** tab.

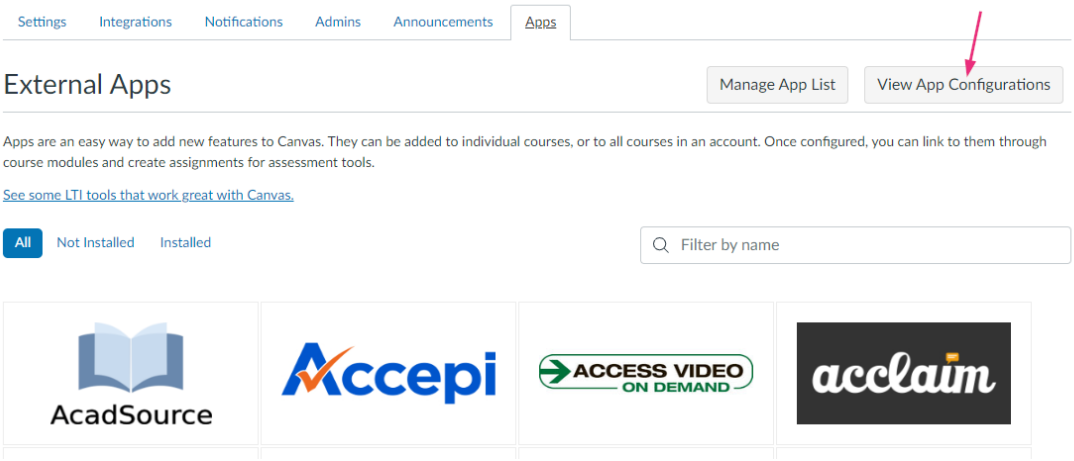


On the 'External Apps' page, you'll see a list of the Kaltura External apps that have been implemented.

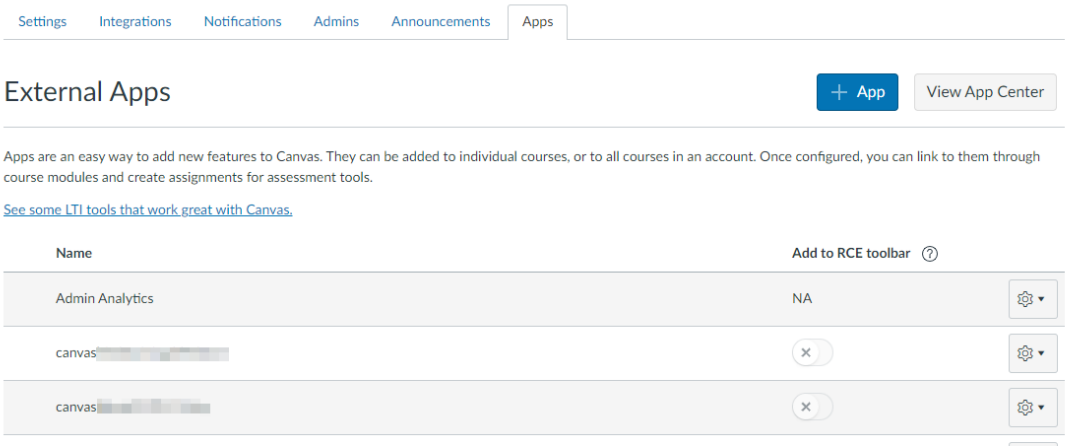
> Your list may look different based on the external learning tools implemented at your institution and the name used when the tool was implemented.

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

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The list of apps displays.



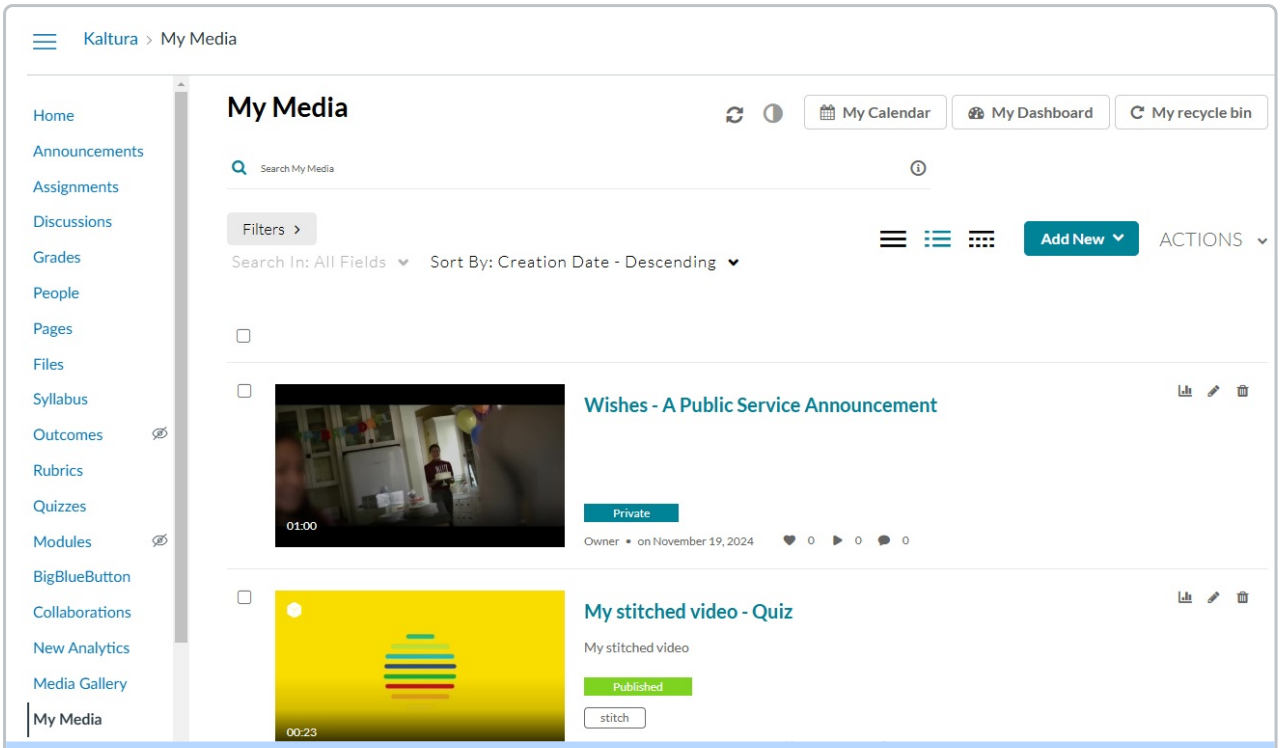
7. Find the Kaltura LTI 1.1 apps, click the gear icon next to each app, and select Delete.
8. Confirm the deletion in the pop-up message. The app and its placement will be removed.

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.

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Example of **My Media** and **Media Gallery** in a Canvas navigation menu

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