Set up Kaltura LMS Extensions LTI 1.3 in Canvas

Content updated: 03/14/2022

This article is designated for administrators.

About

This article explains how to install and set up **Kaltura LMS Extensions LTI 1.3 in Canvas**. The integration connects Kaltura's video tools with Canvas through a secure LTI Developer Key and a set of configured external tools.

Once the setup is complete, users can access **My Media**, **Media Gallery**, and **Browse, Search, and Embed** directly within Canvas.

The integration is managed through the KAF Configuration Management console, where administrators enable LTI 1.3 authentication and connect the LMS to Kaltura.

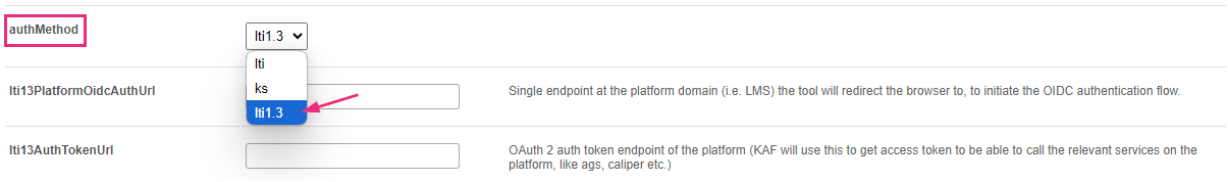
- In May 2026, Instructure updated support for inherited API Developer Keys in Canvas. As a result, Kaltura deprecated the use of the Kaltura Inherited API Developer Key for Canvas integrations.
- If you're already using LTI 1.3 and only need to **migrate from an inherited API Developer Key to a Scoped 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
- A KAF for Canvas, version 5.99.46 or later
- A Canvas administrator account

Step 1 - 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 the dropdown.



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An additional section displays.

3. Confirm that the three fields listed below are auto-populated.
   - **lti13PlatformOidcAuthUrl** = https://sso.canvaslms.com/api/lti/authorize_redirect
   - **lti13AuthTokenUrl** = https://sso.canvaslms.com/login/oauth2/token
   - **lti13KeysUrl** = https://sso.canvaslms.com/api/lti/security/jwks

   If the fields are **NOT auto-populated** then you need to set them as follows:

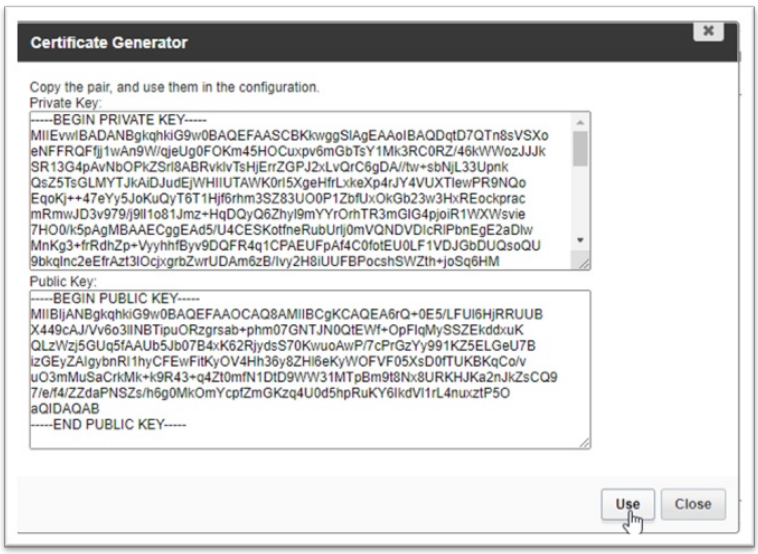
   - **lti13PlatformOidcAuthUrl** = https://{*your_Canvas_Domain*}/api/lti/authorize_redirect
   - **lti13AuthTokenUrl** = https://{*your_Canvas_Domain*}/login/oauth2/token
   - **lti13KeysUrl** = https://{*your_Canvas_Domain*}/api/lti/security/jwks

   Make sure the URL you enter has no spaces before, after, or within it.

4. Scroll down to the **LTI3ServicePrivateKey** section and click the **Generate key pair here**. This will generate the keys.



5. In the **Certificate Generator** frame, 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**.

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Step 2 - Generate LTI Developer Key JSON

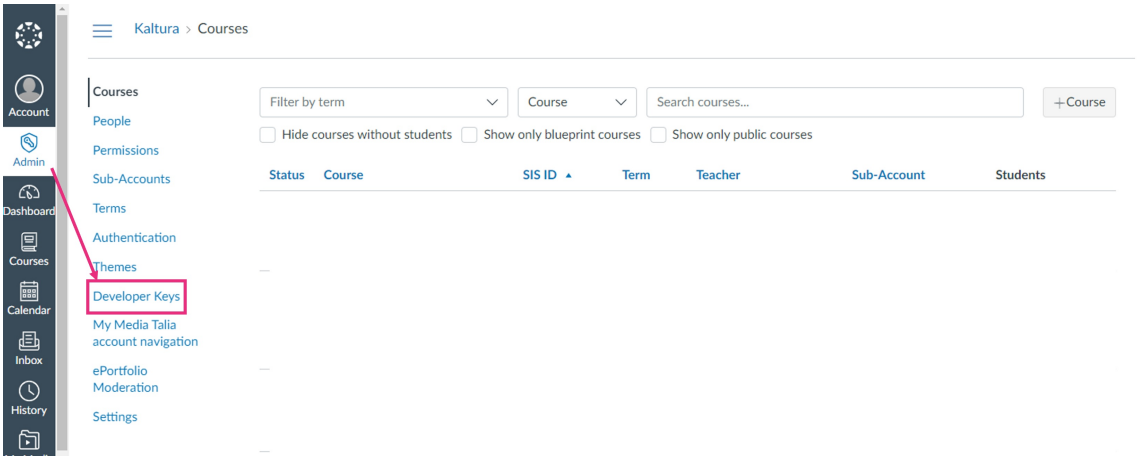
Enter the following URL in your browser: `https://{your_KAF_URL}/canvas/config/create-json-for-instance` Example:*https://12345.kaf.kaltura.com/canvas/config/create-json-for-instance*

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.

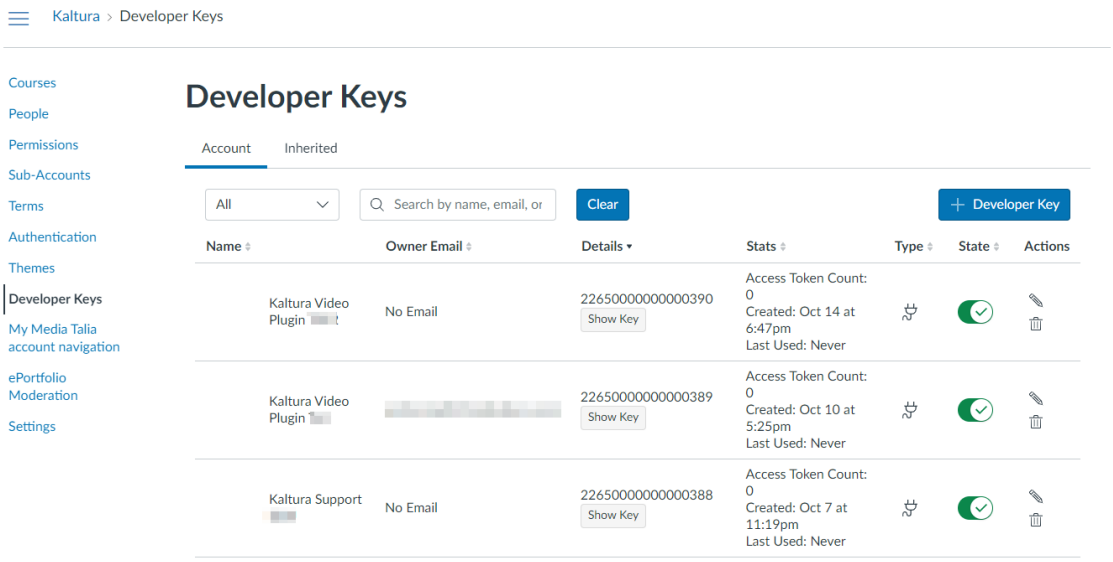
Step 3 - Create LTI Developer Key

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

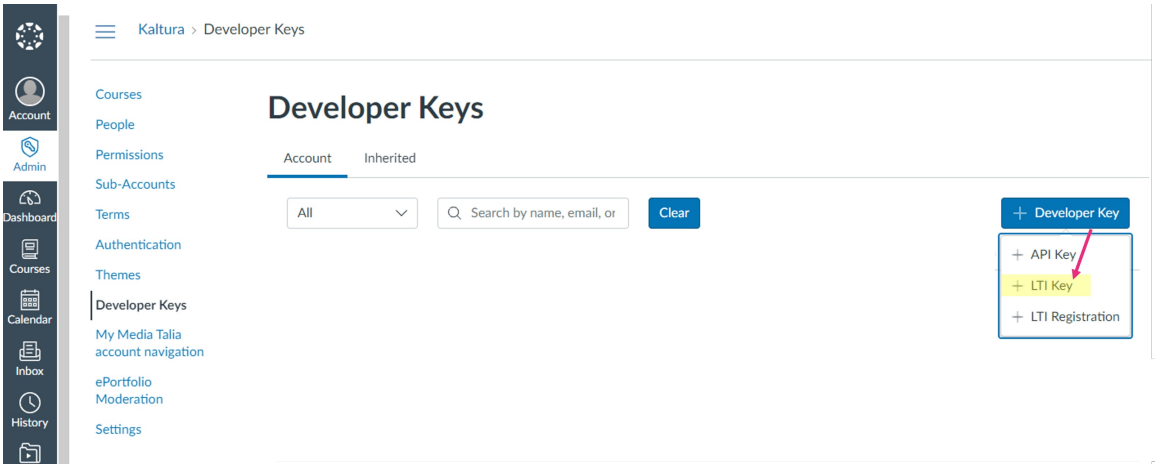


The **Developer Keys** page displays.

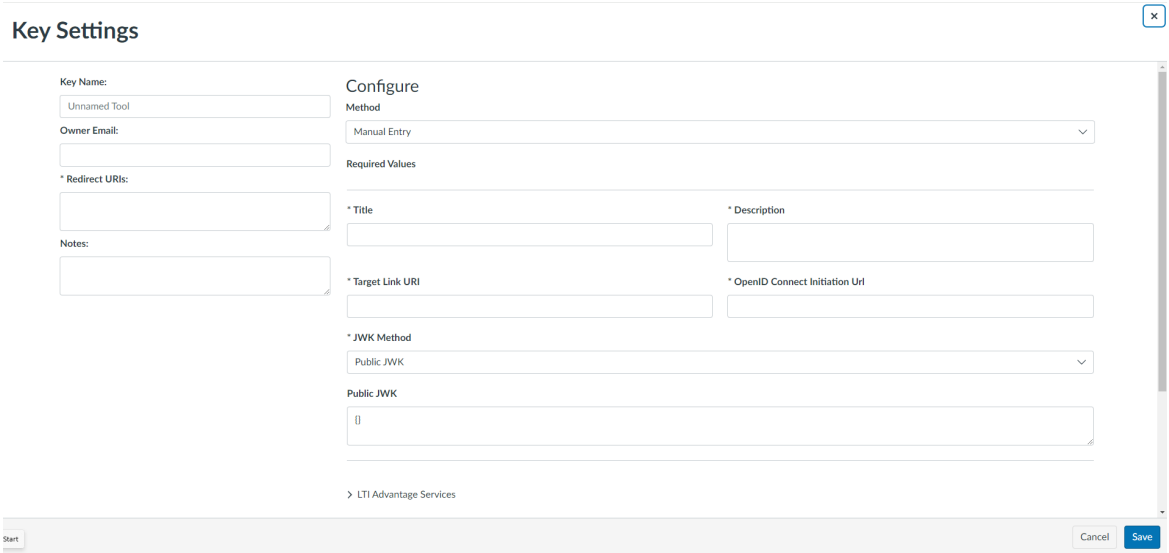
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4. Click **+Developer Key** and select **+ LTI Key** from the drop-down list.



The **Key Settings** page displays.



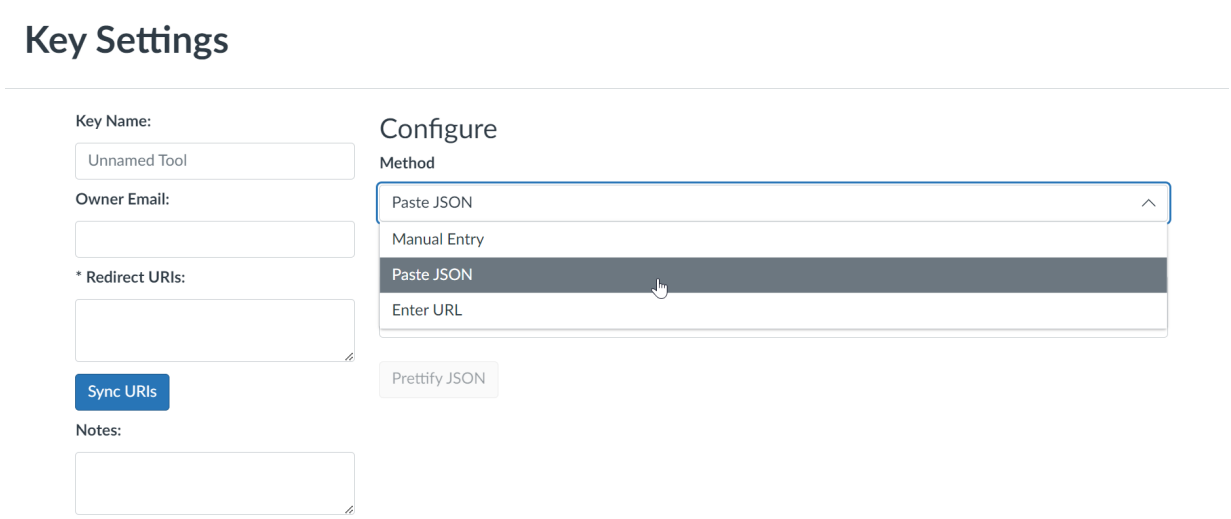
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5. Configure the following:

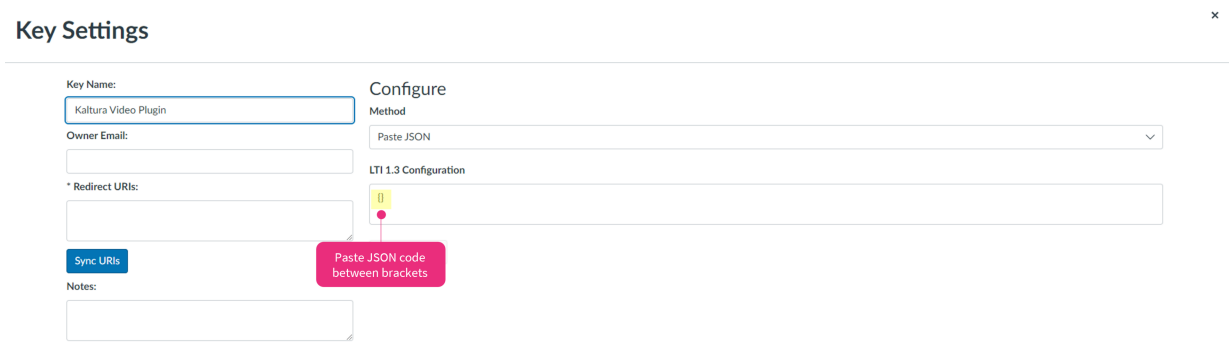
- **Key Name** - Enter Kaltura Video Plugin.
- **Owner email** - optional
- **Redirect URIs** - Enter `https://{your_KAF_URL}/hosted/index/oauth2-launch`
  Example: *https://12345.kaf.kaltura.com/hosted/index/oauth2-launch*

> 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.



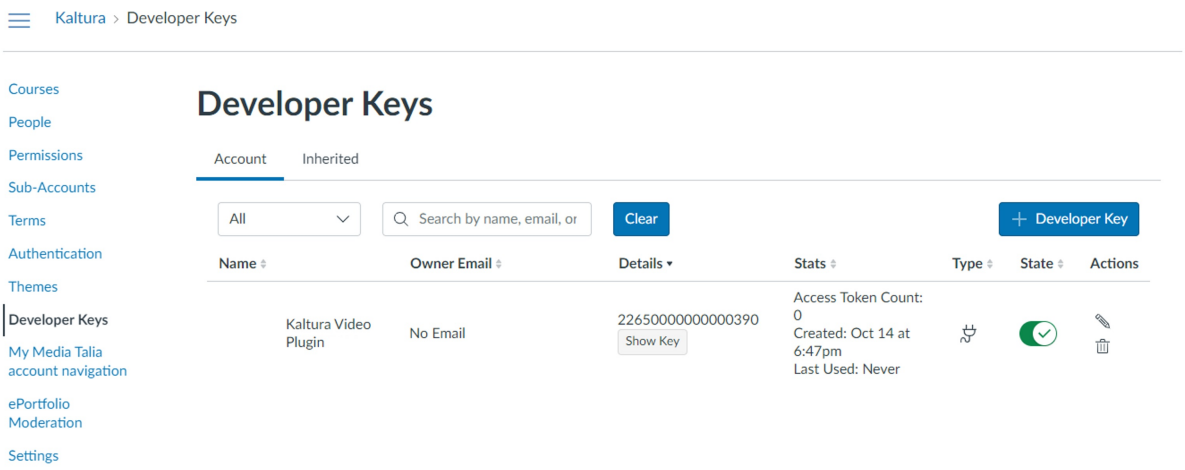
6. In the **LTI 1.3 Configuration** field, copy the JSON code (not including the brackets) from the previous section (Generate LTI Developer Key JSON) and paste it between the brackets.



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

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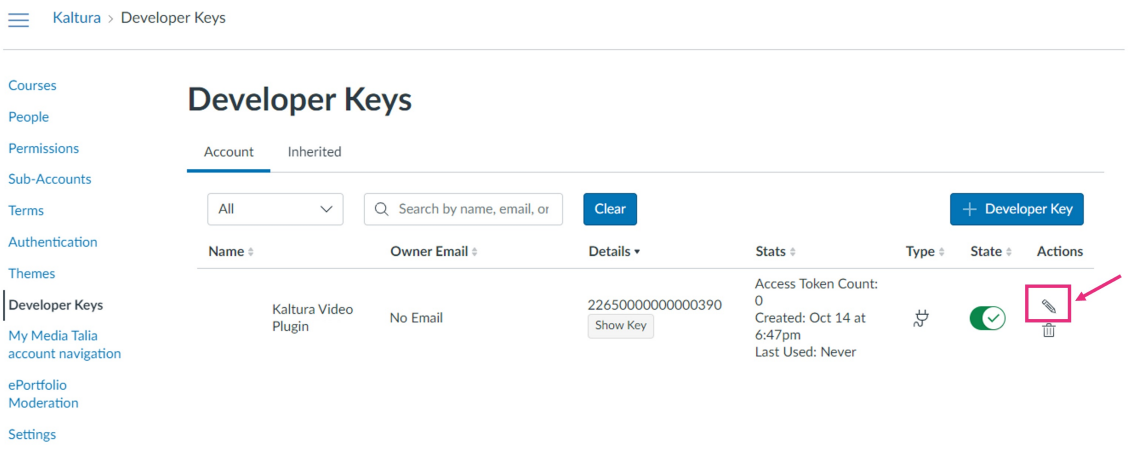
The new LTI Developer Key will now be listed on the Developer Keys page. If the **State** toggle is red, the key is disabled. Click the toggle to enable the key. When enabled, the toggle is green.



Step 4 - Configure LTI Developer Key LTI Advantage services

In order for the LTI Developer Key to work properly, certain LTI Advantage services must be enabled.

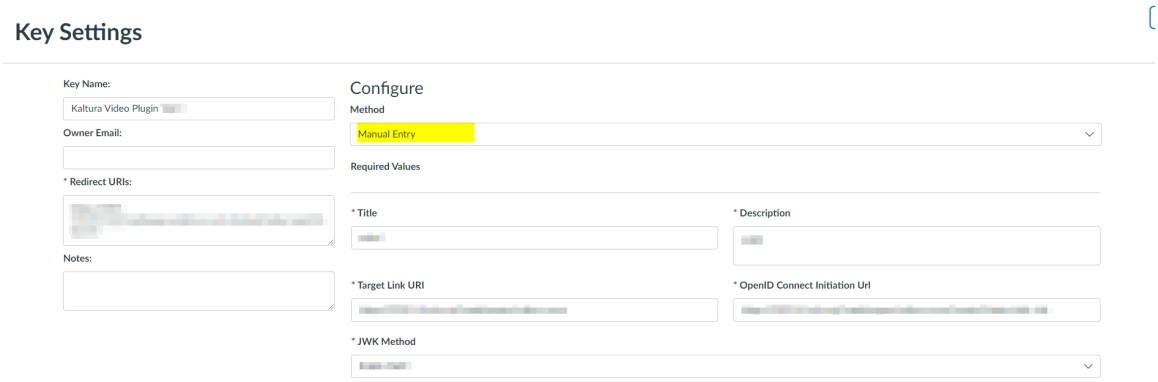
1. Edit the LTI Developer Key you created by clicking on the **pencil icon** to the far right of the key.



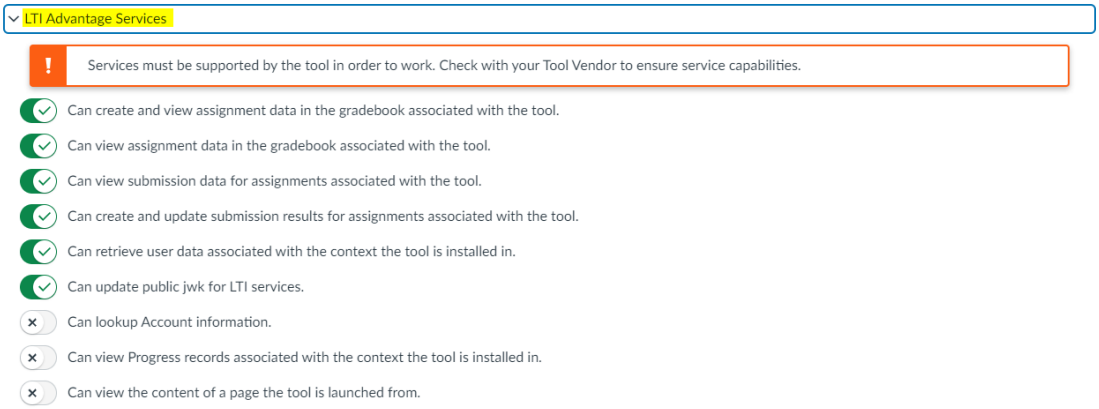
   The **Key Settings** page displays.

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:

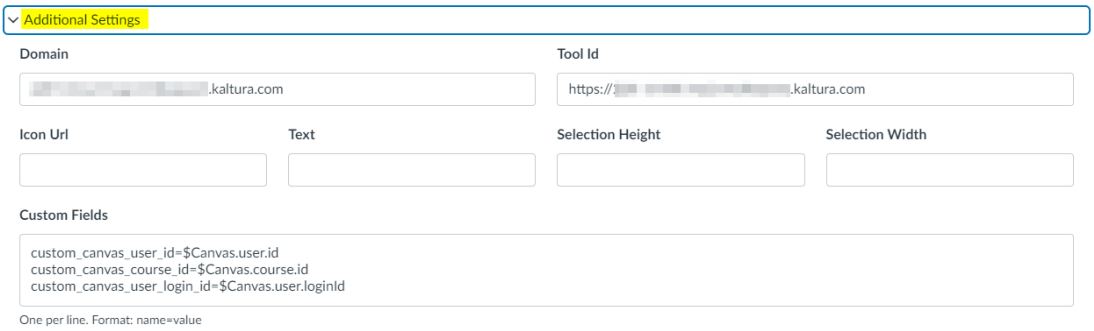
- Can create and view assignment data in the gradebook associated with the tool.
- Can view assignment data in the gradebook associated with the tool.
- Can view submission data for assignments associated with the tool.
- Can create and update submissions for assignments associated with the tool.
- Can 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 5 - Confirm values in LTI Developer Key additional settings

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

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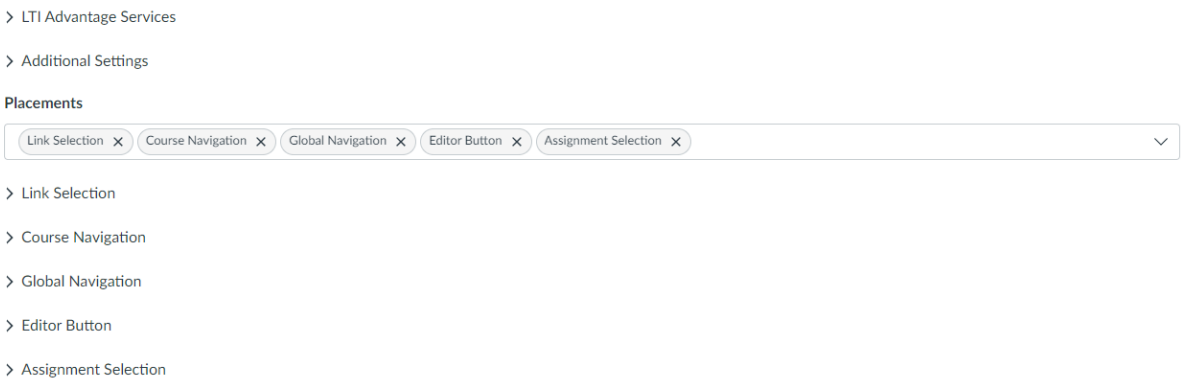


2. Review the following fields:

- **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 custom parameters:
  - `custom_canvas_user_id=$Canvas.user.id`
  - `custom_canvas_course_id=$Canvas.course.id`
  - `custom_canvas_user_login_id=$Canvas.user.loginId`
  - `custom_canvas_post_message_token=$com.instructure.PostMessageToken` (Note: This field is optional but recommended for enabling the Kaltura player to automatically adjust the Canvas iframe height when the player size changes. If omitted, media will still play correctly but iframe sizing will be static.)

Step 6 - 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

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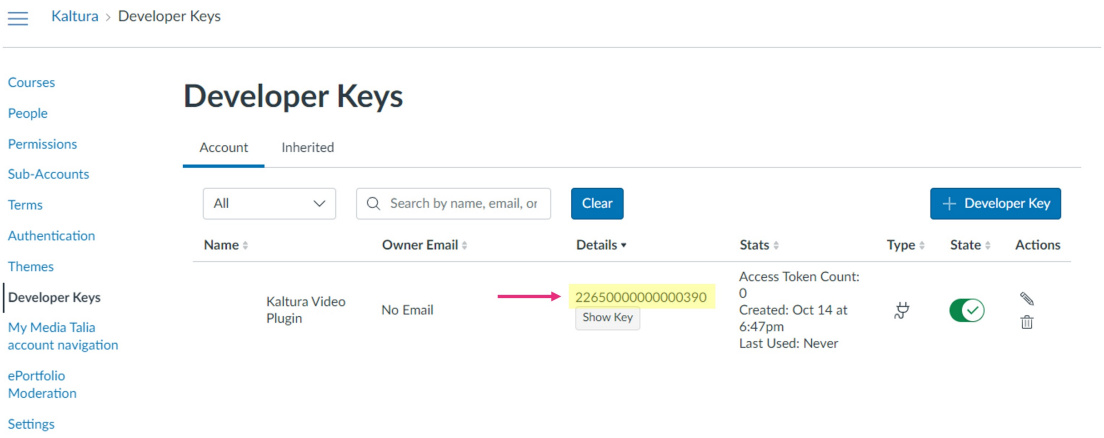
generated by Kaltura includes five placements.

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.

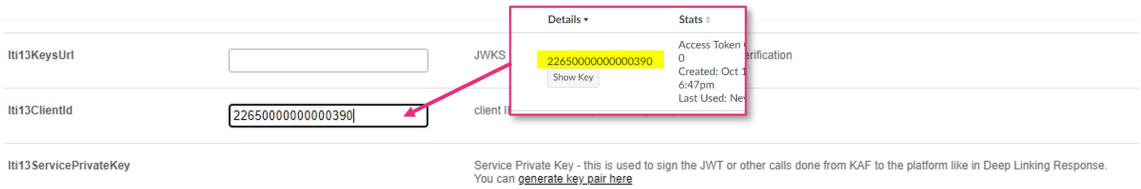
Step 7 - Set 'lti13ClientID' value for LTI Developer Key

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 3 - 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**.

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

Step 8 - 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.

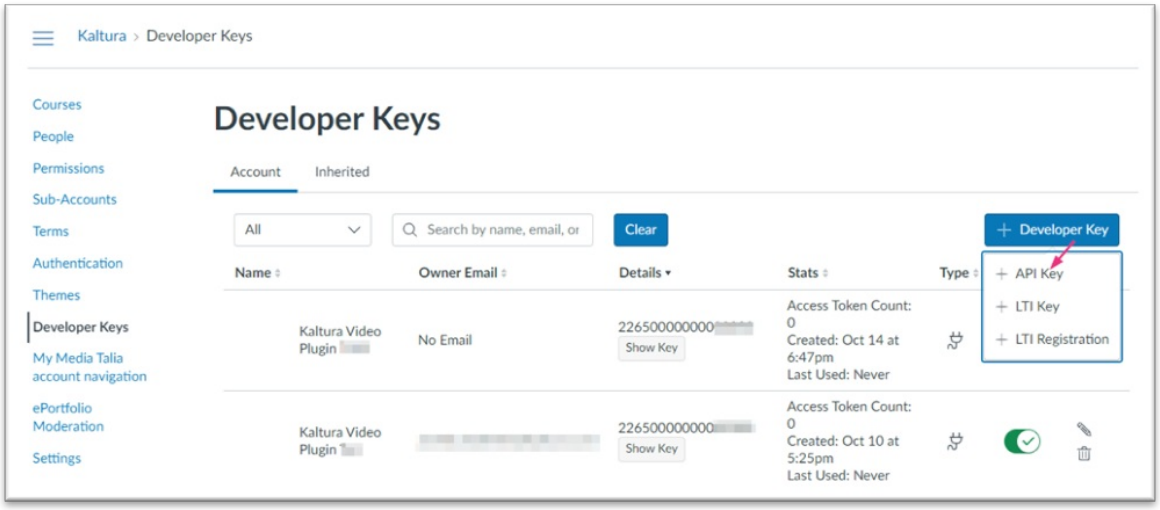
Kaltura uses a custom parameter in Canvas to store the User ID value. To set this up:

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**.

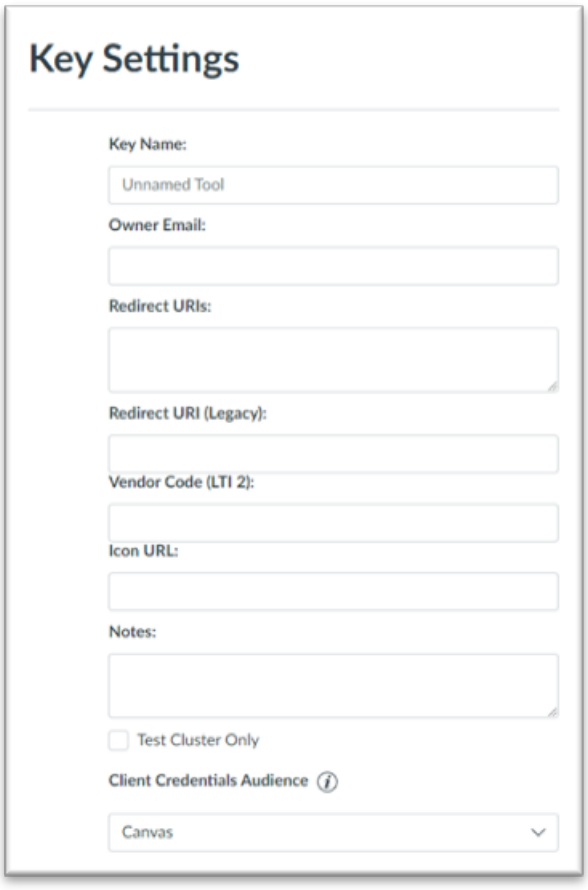
Step 9 - Set API Developer Key

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 menu.

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The 'Key Settings' page displays.



4. Configure the following:

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

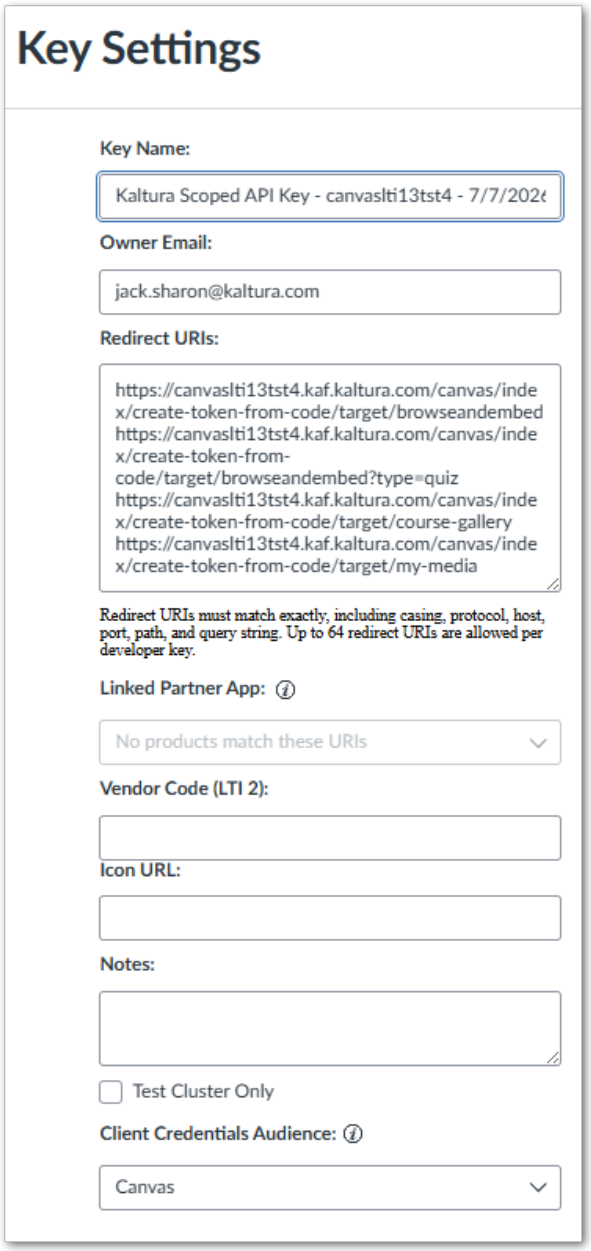
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- For the {your_KAF_base_URL}, use your PID-based KAF domain or your KAF domain alias or vanity domain, if applicable.
- Make sure there is no / (slash) at the end of the URL.

  - 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** - Select **Canvas**

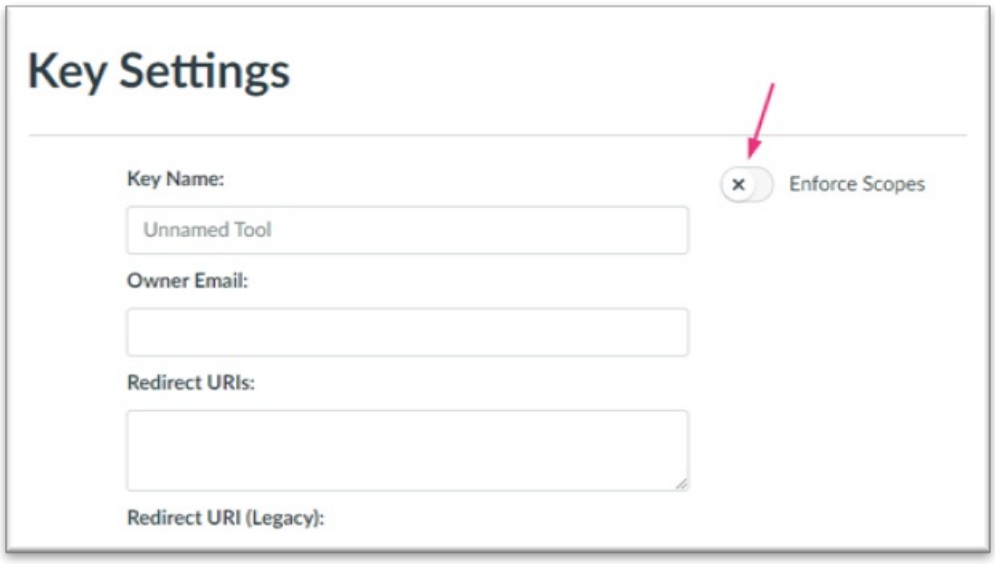
Your Key Settings will now look similar to the following:

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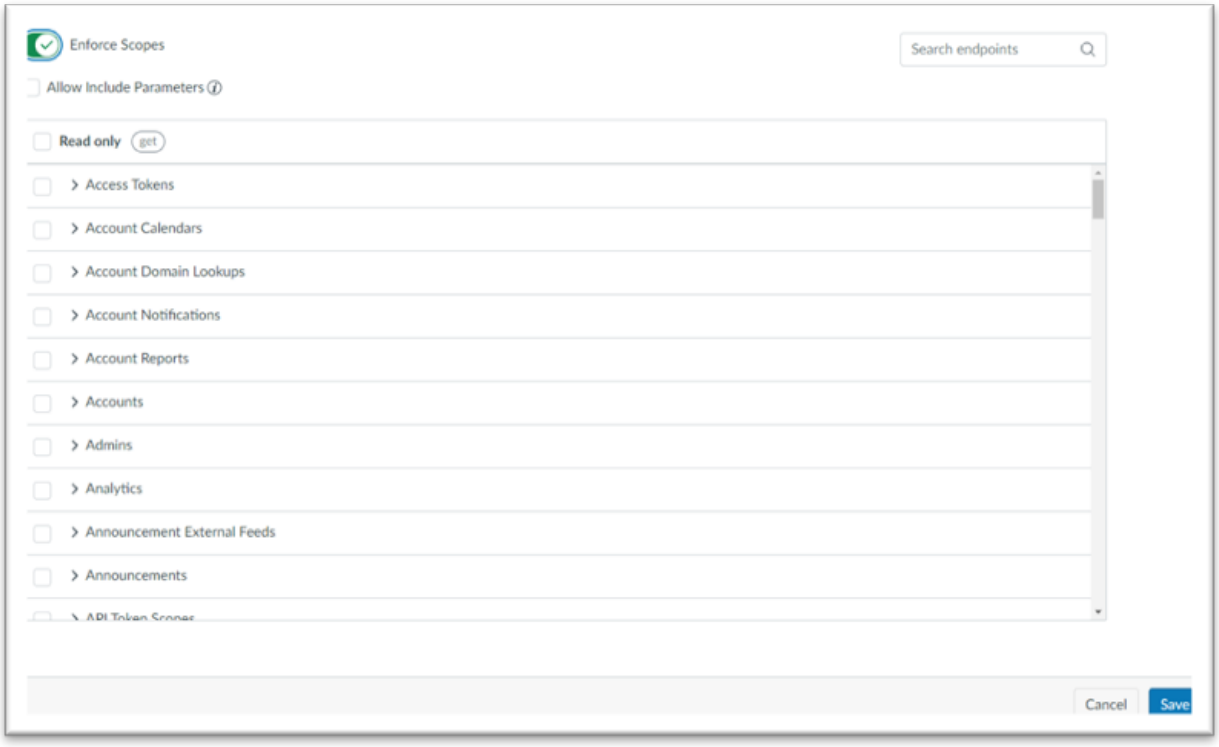


5. Scroll to the top of the page. If **Enforce Scopes** is not enabled (the toggle is not green and checked), click the toggle to enable it.

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The Enforce Scopes section expands.



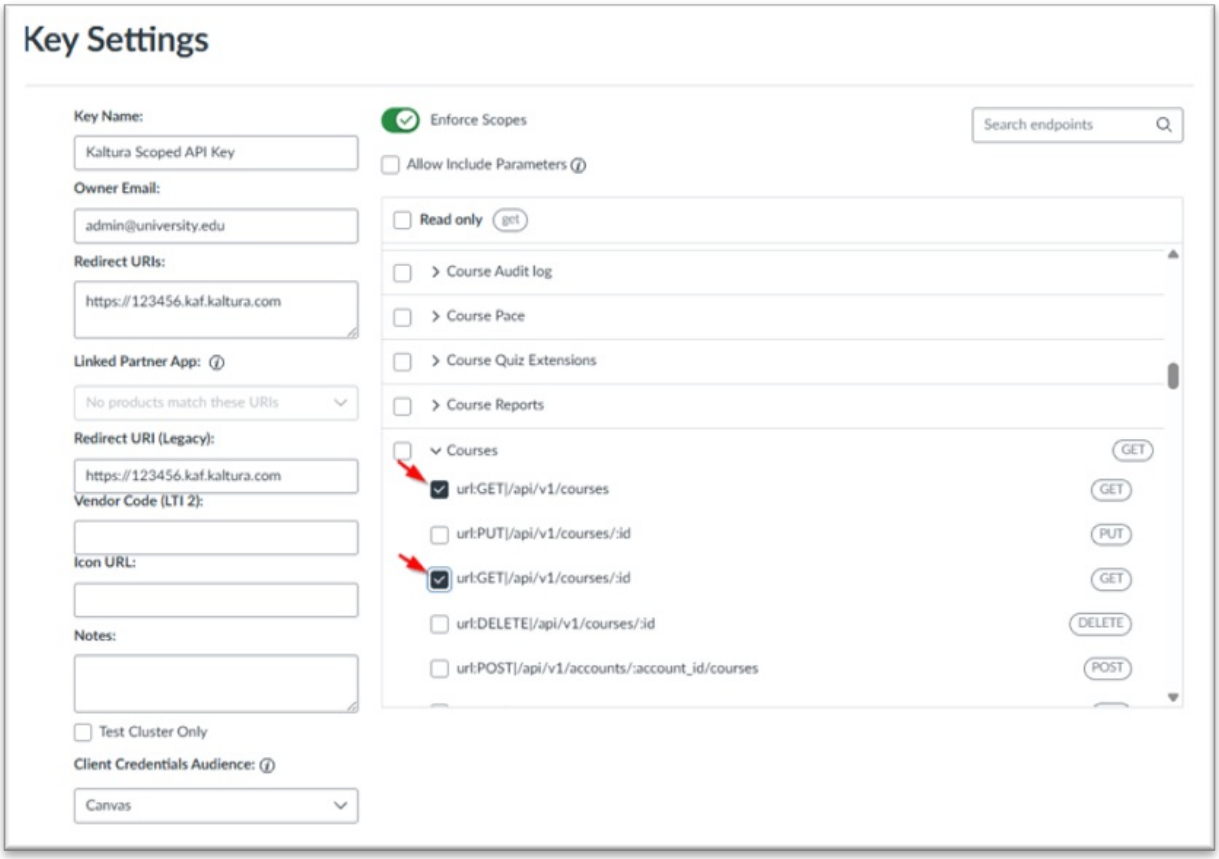
Leave **Allow Include Parameters** unchecked.

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

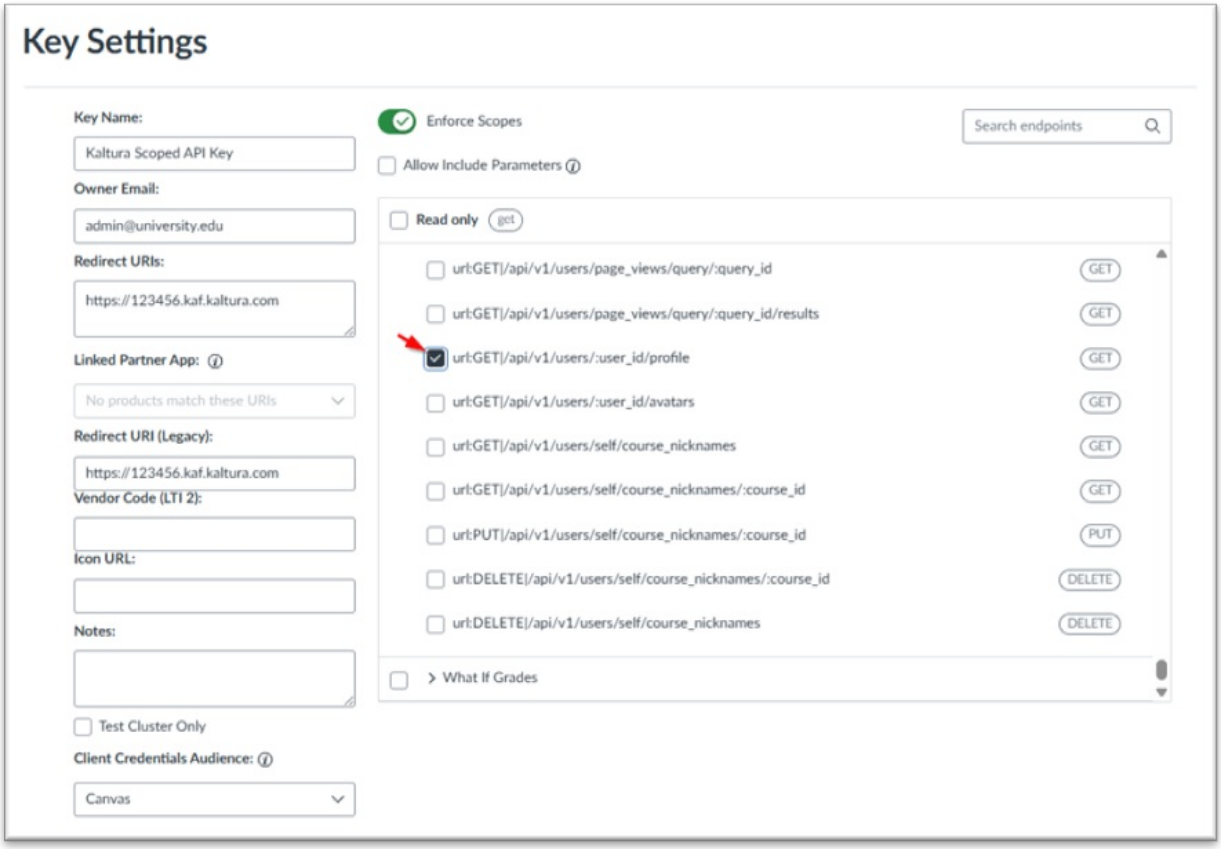
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8. Scroll down to **Users** and click to expand.
9. Check the following scope:

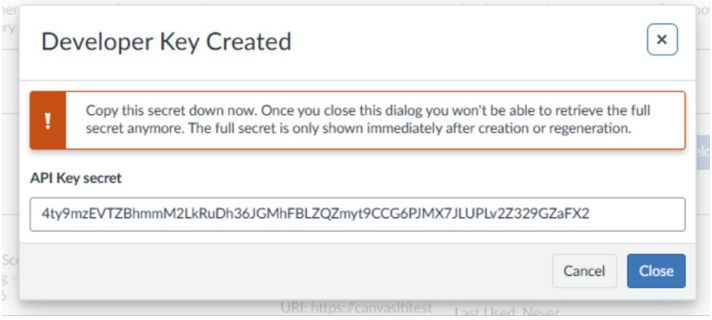
- `url:GET|/api/v1/users/:user_id/profile`

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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.

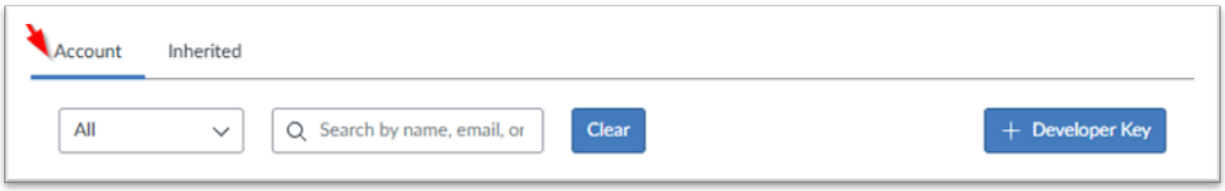
Make sure to copy the API Developer Key before closing the dialog box. After the dialog box is closed, the key can no longer be viewed.

12. Click **Close**.

The Developer Keys page displays.

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13. Select the **Account** tab.



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

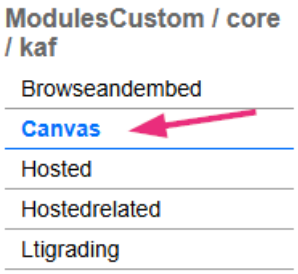
A confirmation message appears.

15. Click **Switch to On**.

When enabled, the toggle turns green.

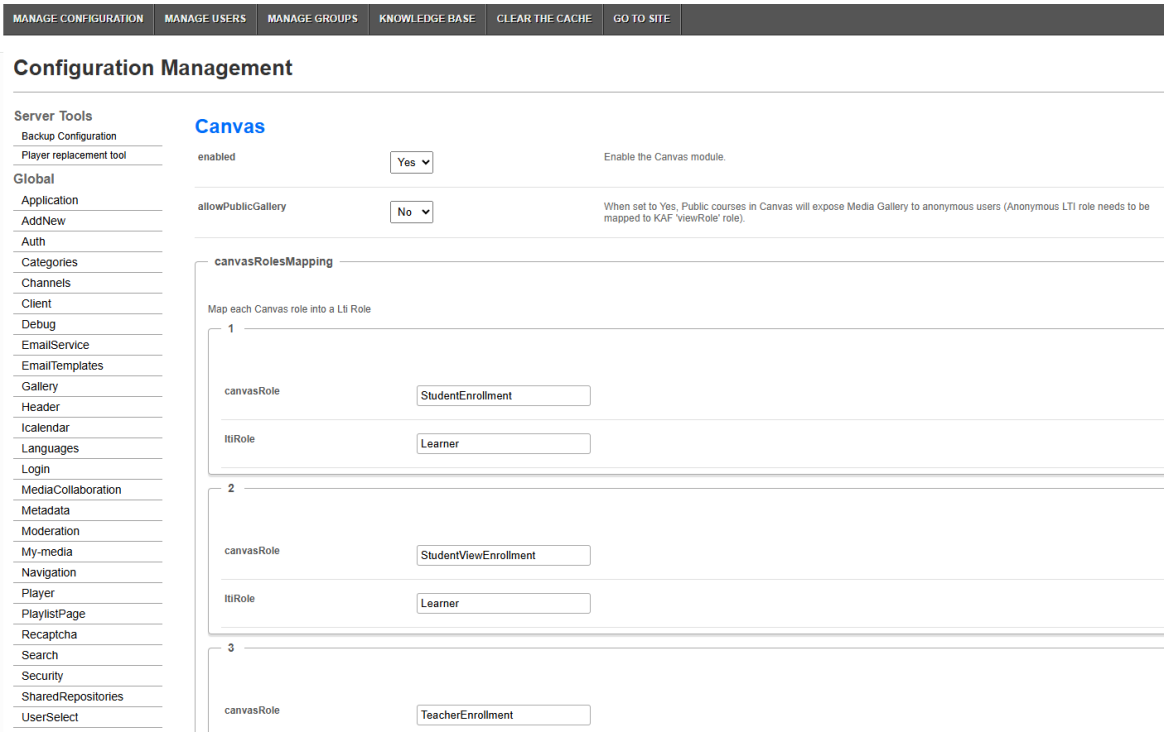
Step 10 - Set API Developer Key in Canvas module

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).



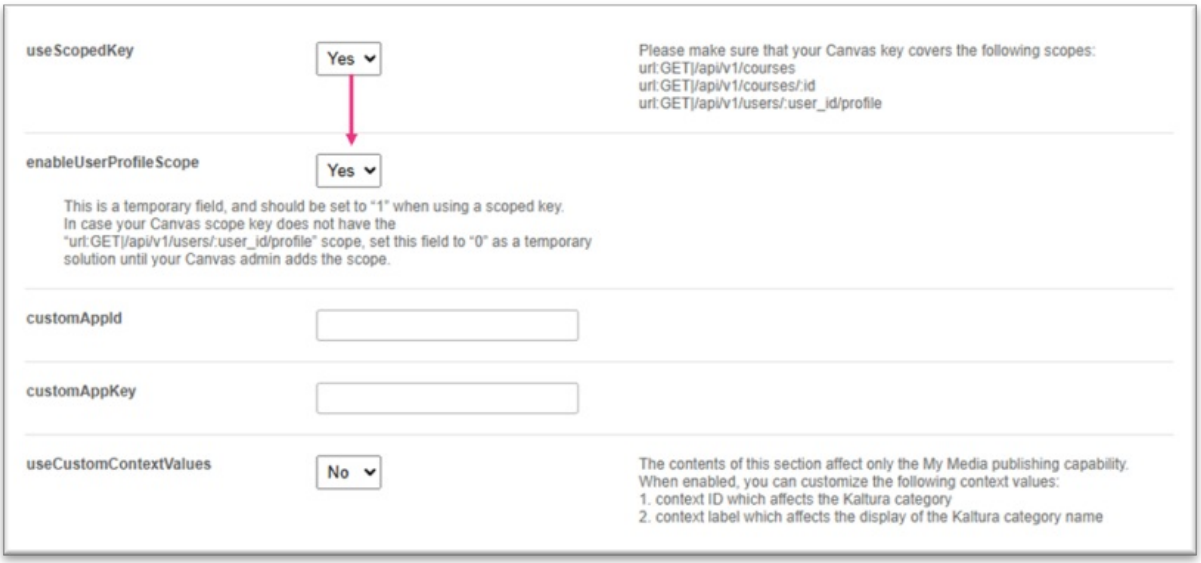
The Canvas page displays.

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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.



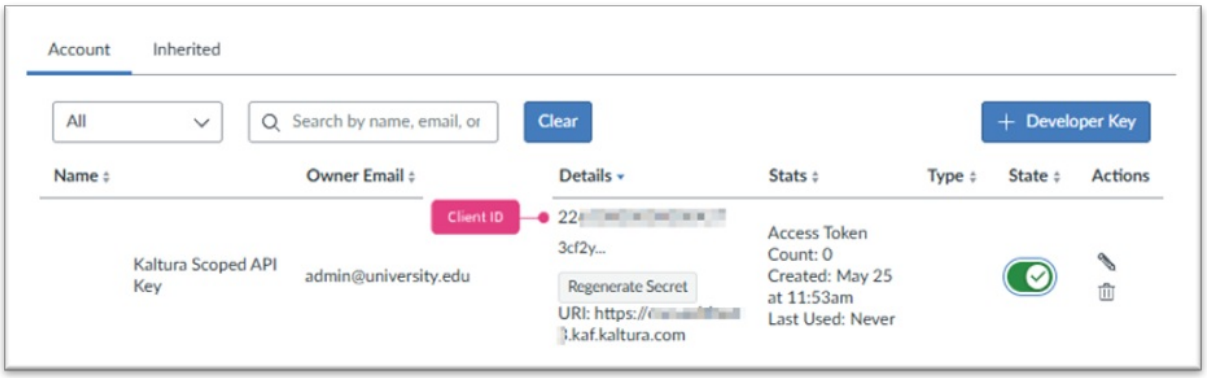
3. Set the **enableUserProfileScope** field to 'Yes'.

   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.

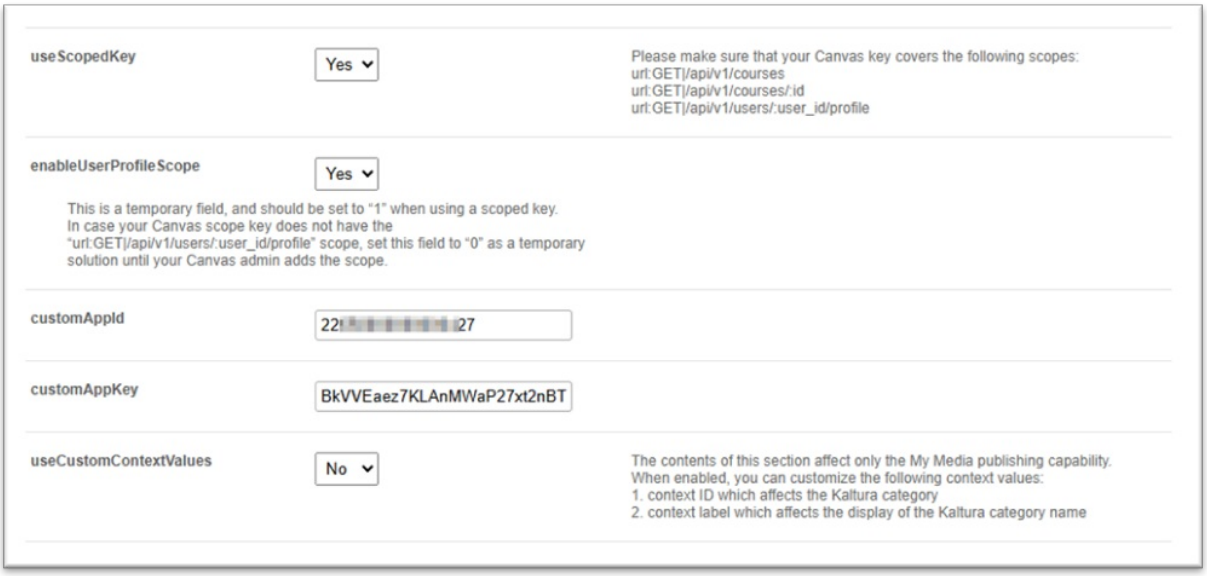
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- In Canvas, navigate to the **Developer Keys** page and locate the Canvas API Developer Key you created.
- Copy the **Client ID** and paste it into the **customAppId** field in the Canvas module.



- 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:



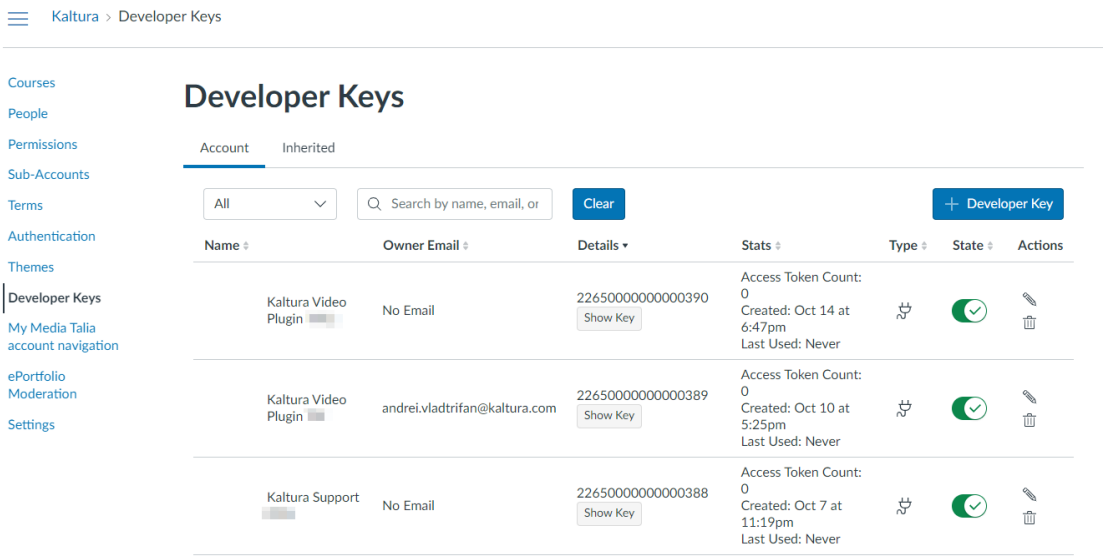
5. Scroll to the bottom of the Canvas module and click **Save**.

Step 11 - Add Kaltura tools

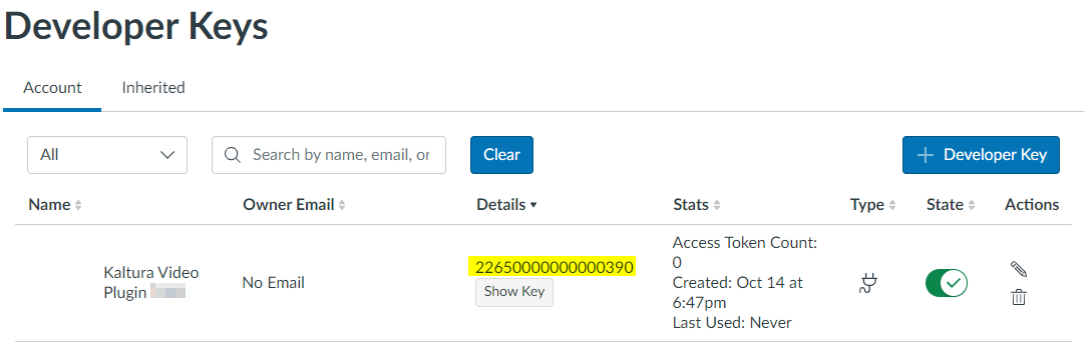
Once you've completed the previous steps, you can add the Kaltura external tools.

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

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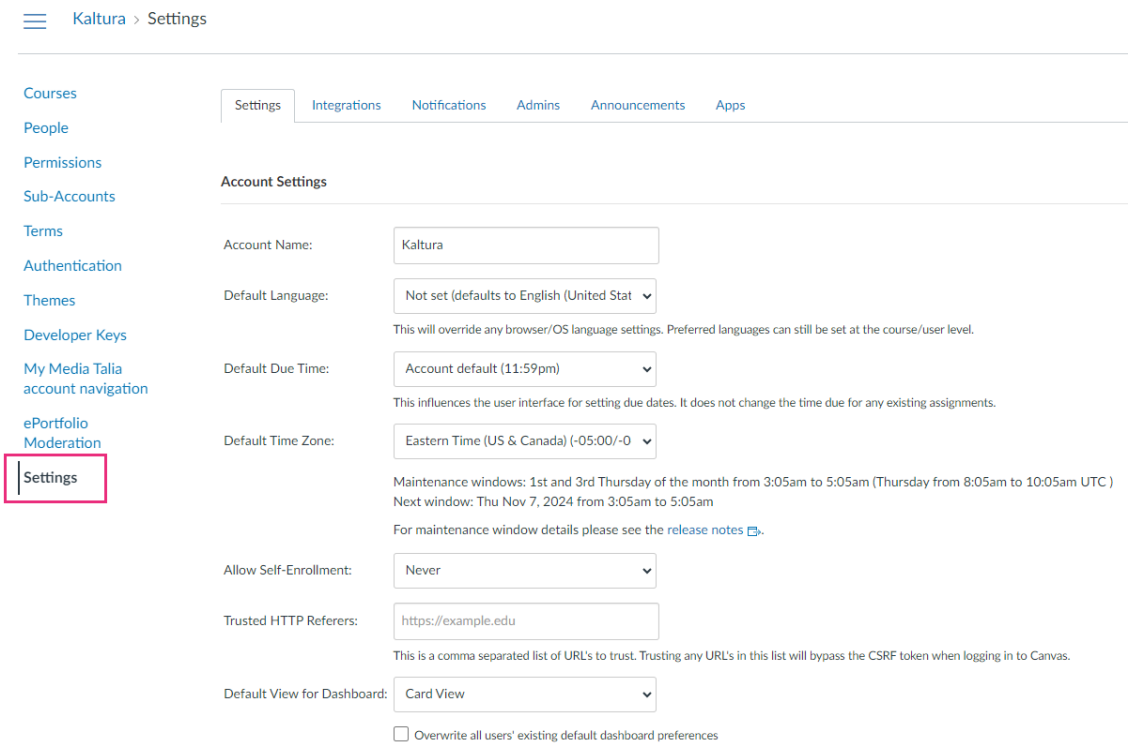


2. On the **Developer Keys** page, locate the LTI Developer Key you created and copy the **Client ID** from the **Details** column.



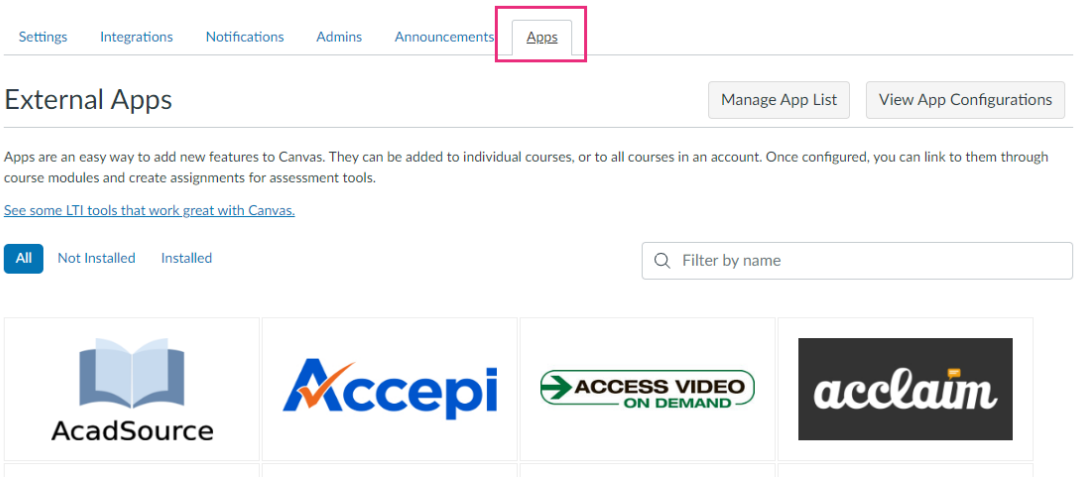
3. In the left-hand navigation, click the **Settings tab** (`https://{your_Canvas_base_URL}/accounts/1/settings#tab-settings`).

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The Settings page displays.

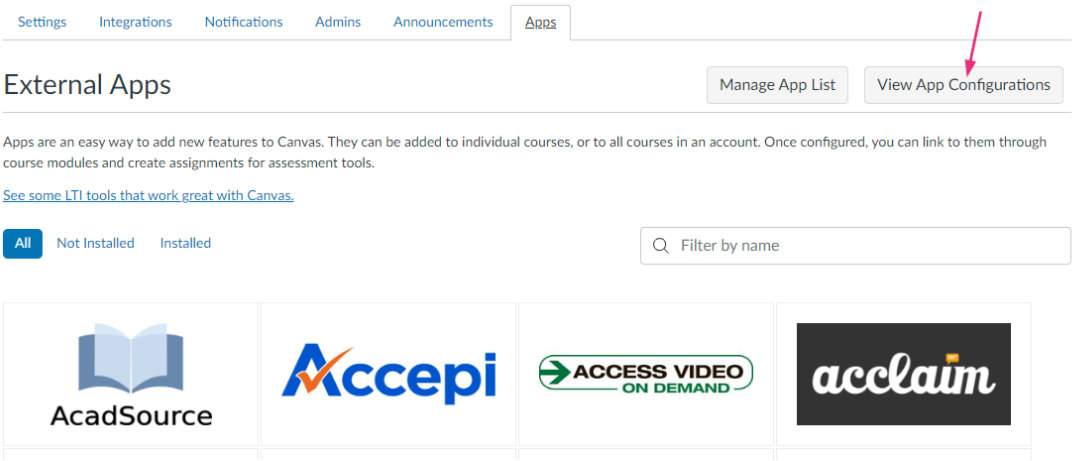
4. On the Settings page, click the **Apps** tab.



The External Apps page displays.

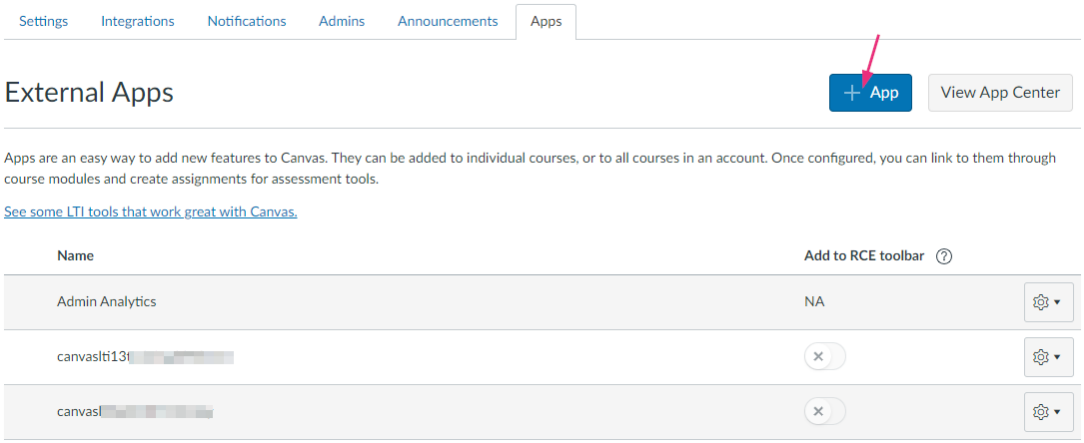
5. Click **View App Configurations**.

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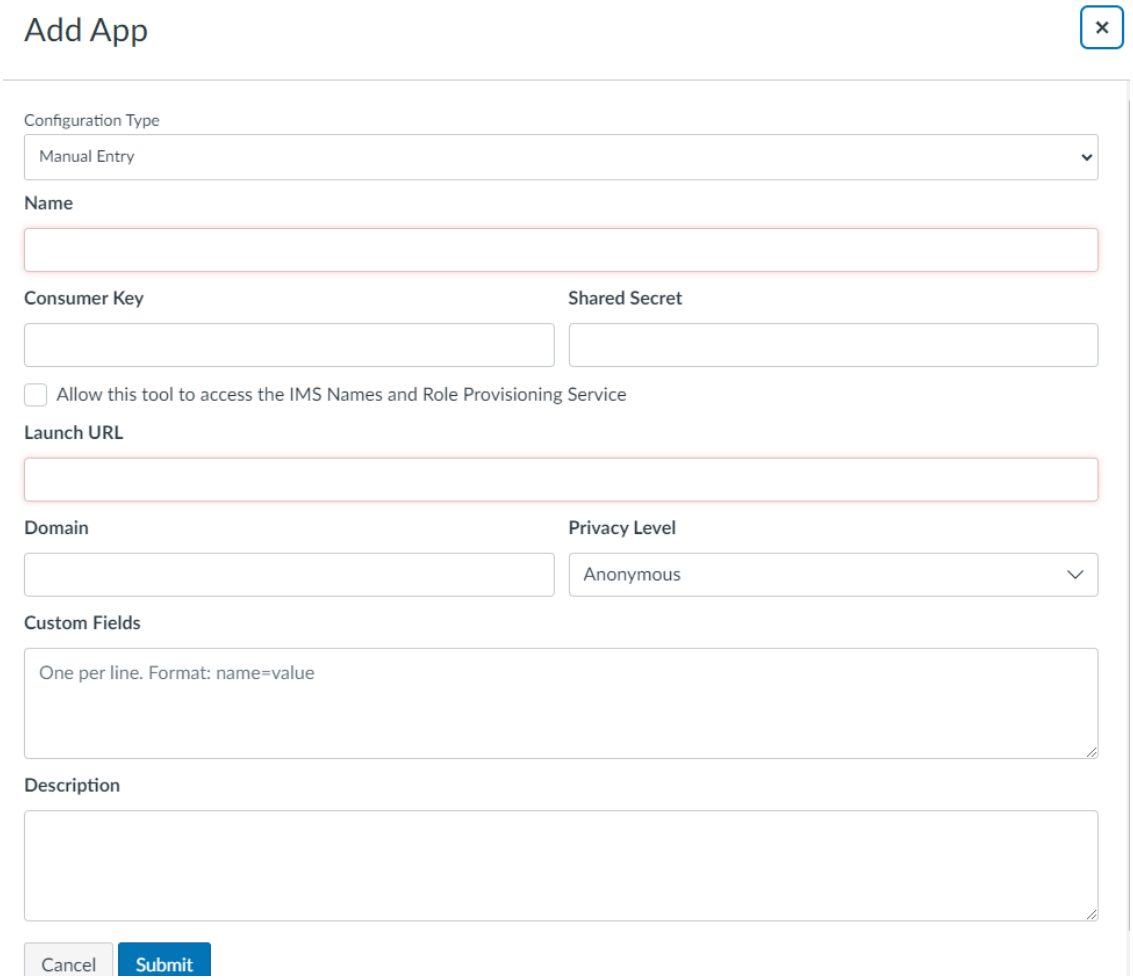
A list of apps displays.

6. Click **+App**.

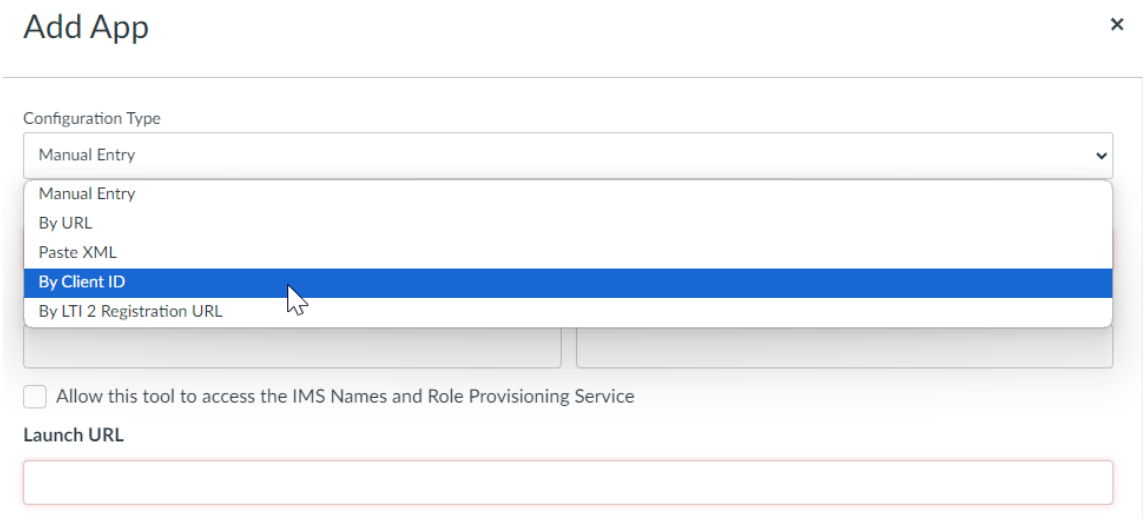


The **Add App** page displays.

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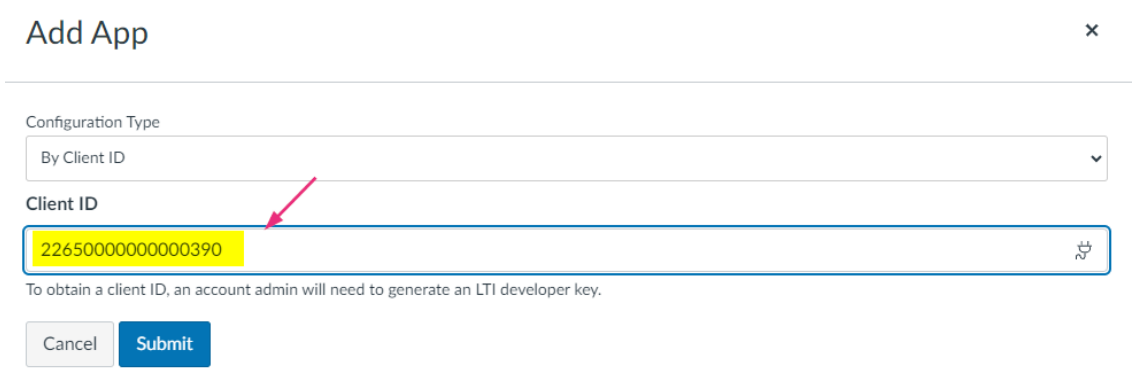


7. Click on the **Configuration Type** drop-down menu and select **By Client ID**.



8. Paste the Client ID copied in Step 3 - Create LTI Developer Key into the **Client ID** field.

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9. Click **Submit**.

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 11 - Add Kaltura tools.

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