Set up Kaltura LMS Video integration (LTI 1.3) in Canvas

Last Modified on 02/17/2026 12:09 pm IST

This article is designated for administrators.

About

This article explains how to install and set up the Kaltura LMS Video integration for Canvas using LTI 1.3. 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.

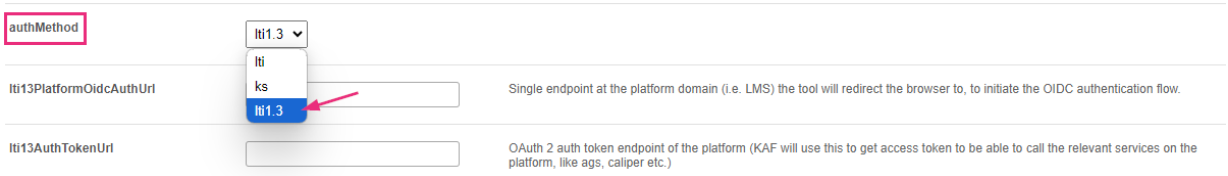
The integration is managed through the Configuration Management console, where administrators enable LTI 1.3 authentication and connect the LMS to Kaltura.

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 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.



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

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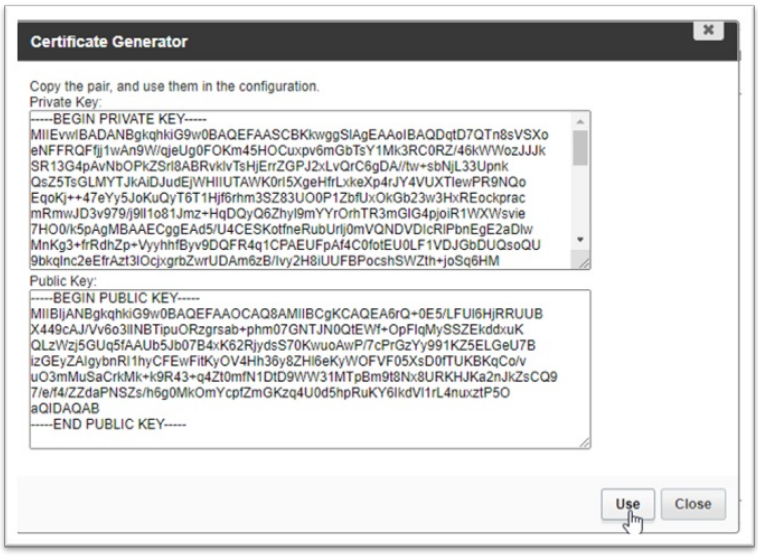
If the fields are **NOT auto-populated** then you need to set them as follows:

- **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**.

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*

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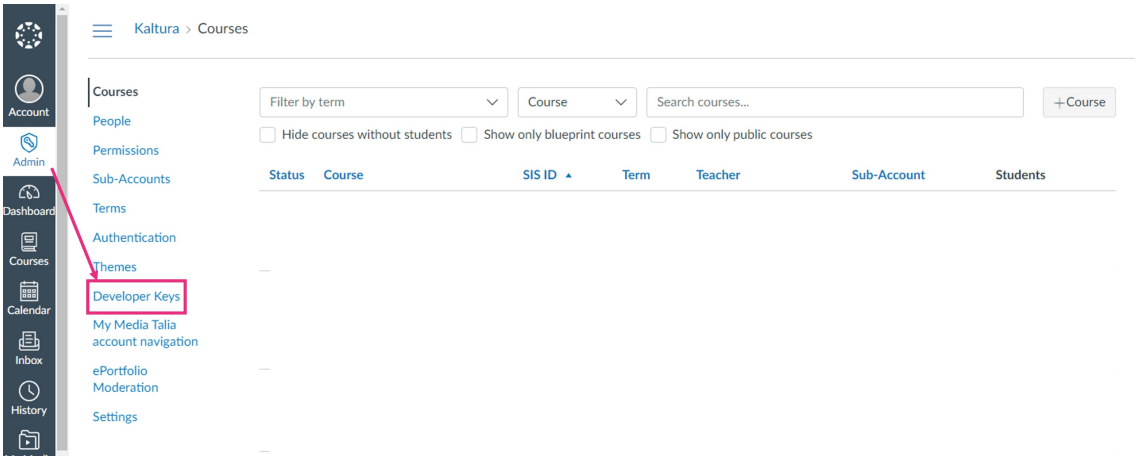
If you're using a KAF domain other than .kaltura.com, make sure to use it as the input for your_KAF_URL.

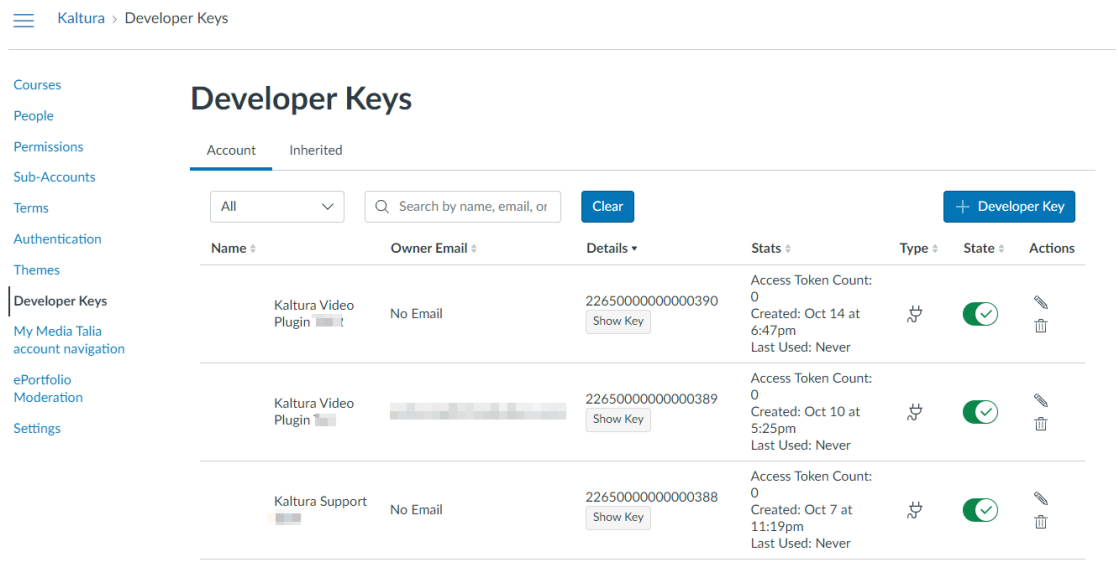
The JSON will be used in the next step to create the LTI developer key.

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.



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

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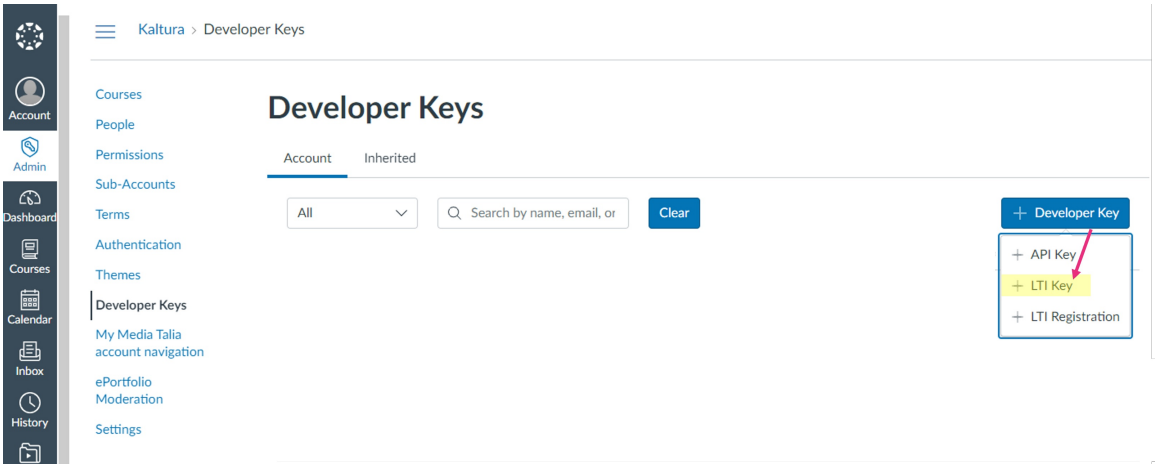
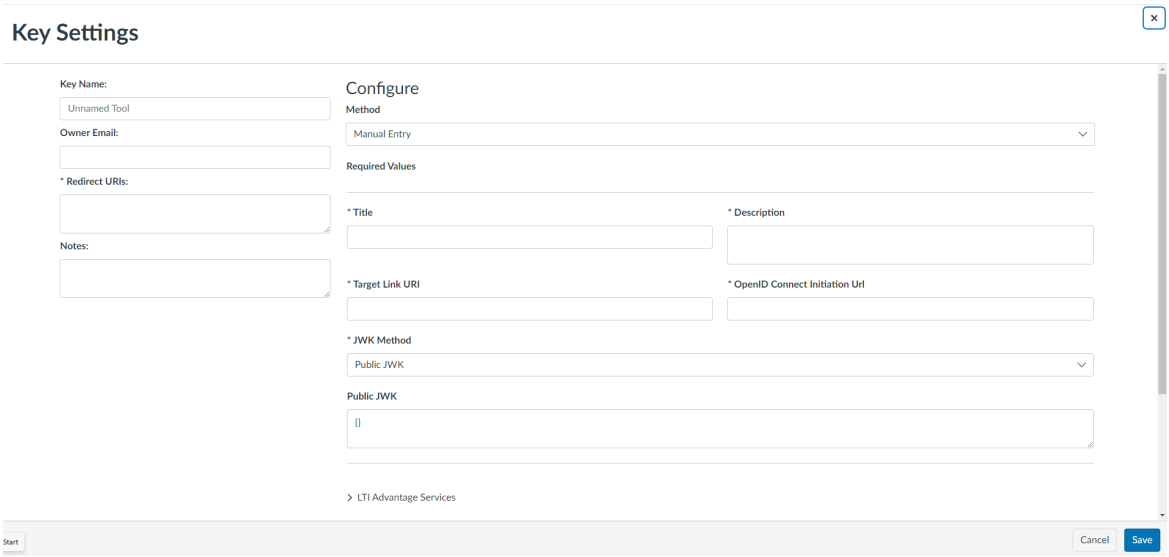


The **Key Settings** page displays.



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.

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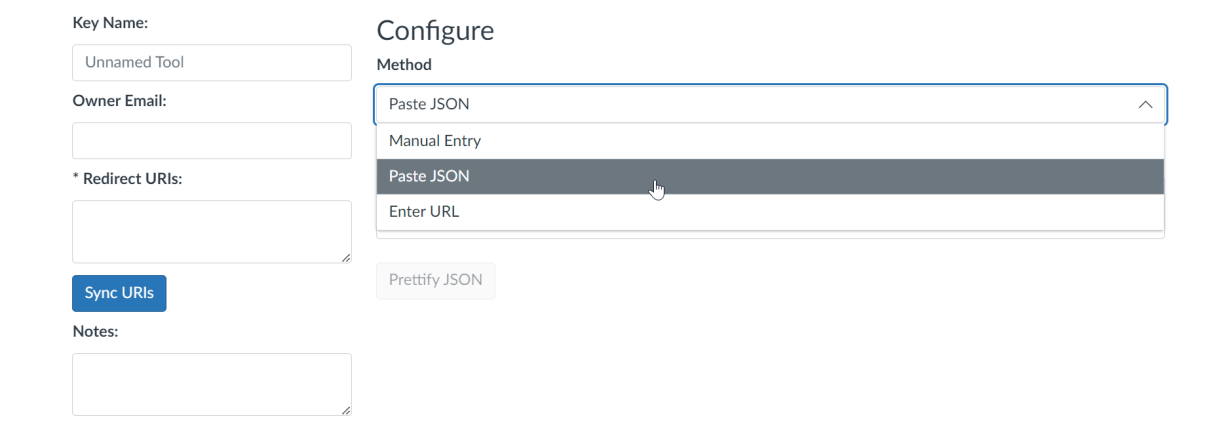
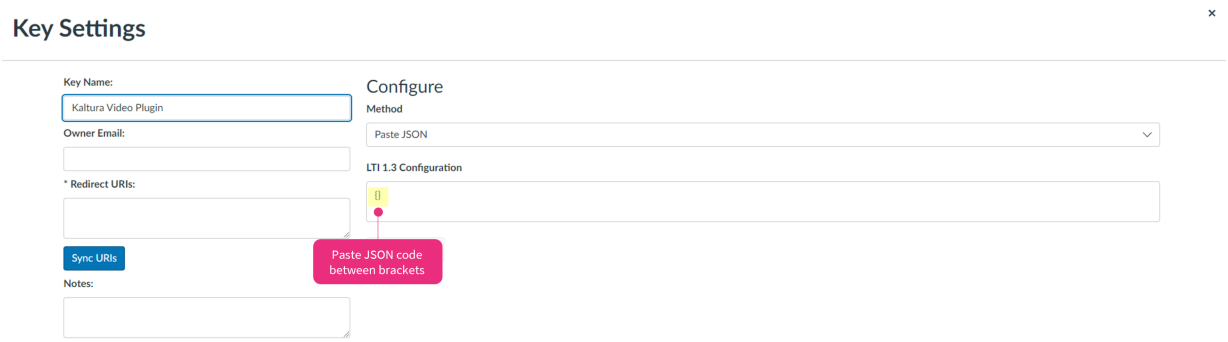
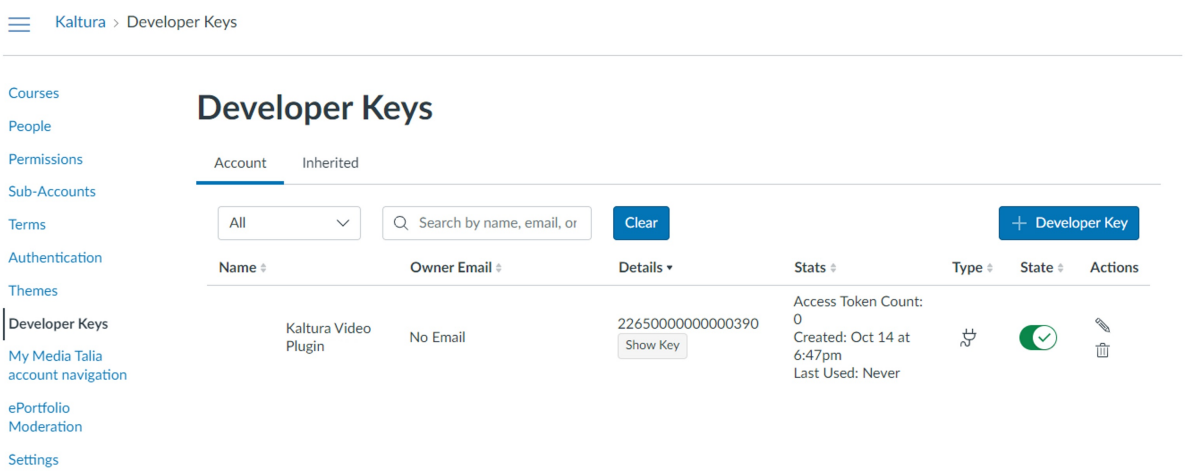


6. In the **LTI 1.3 Configuration** field, copy the JSON code (not including the brackets) from the previous section (Generate LTI developer key JSON) and paste it between the brackets.



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

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).



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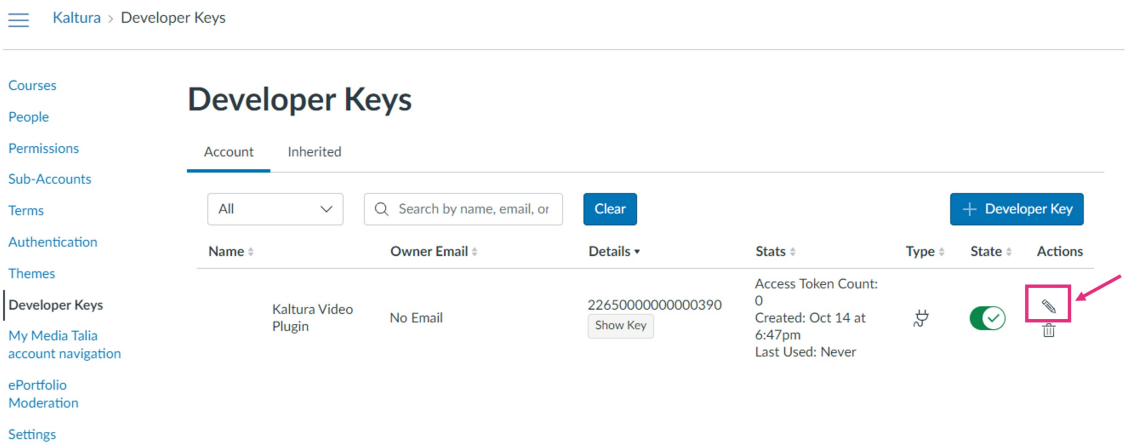
Step 4 - Configure the LTI developer key LTI advantage services

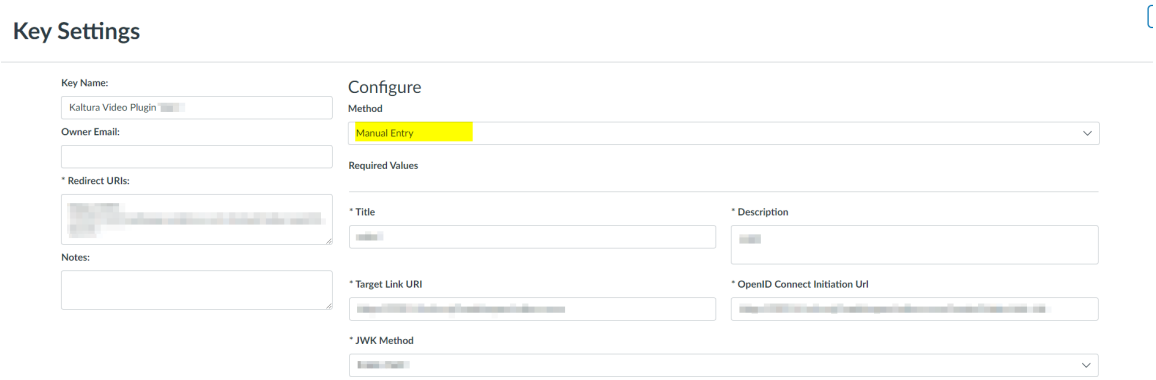
In order for the LTI developer key to work properly, certain LTI advantage services must be enabled.

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**.



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

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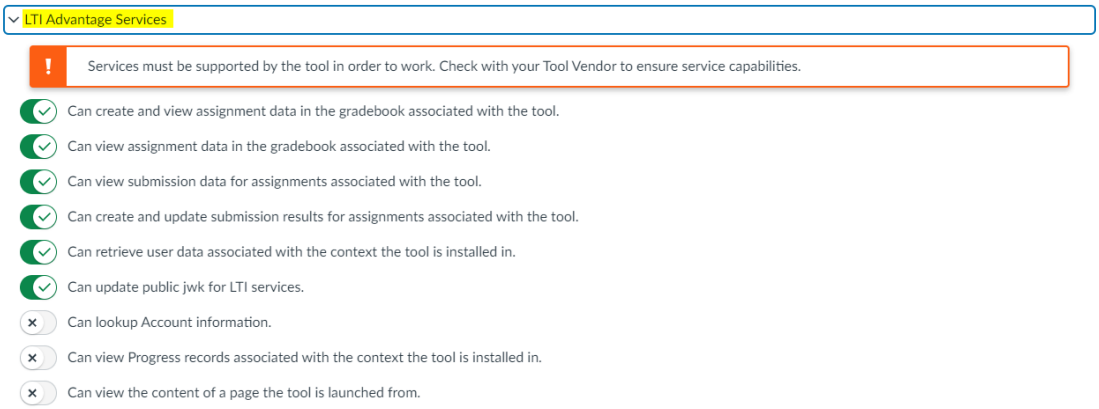


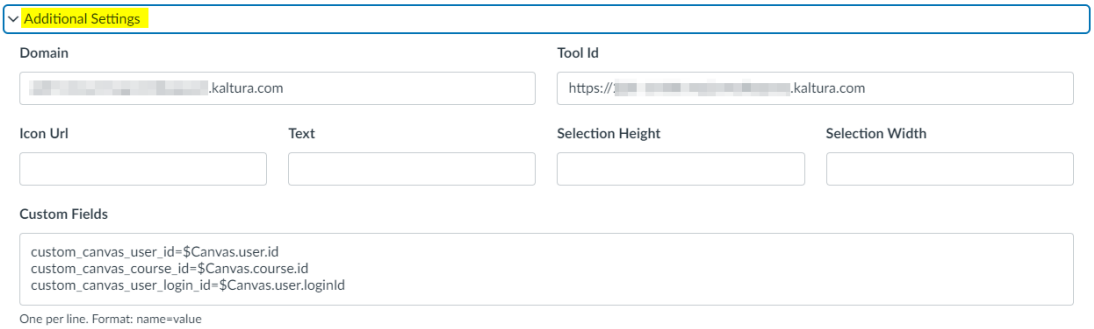
4. Make sure the following **LTI Advantage Services** are turned on in addition to others that are enabled:

- 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 the values in the 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

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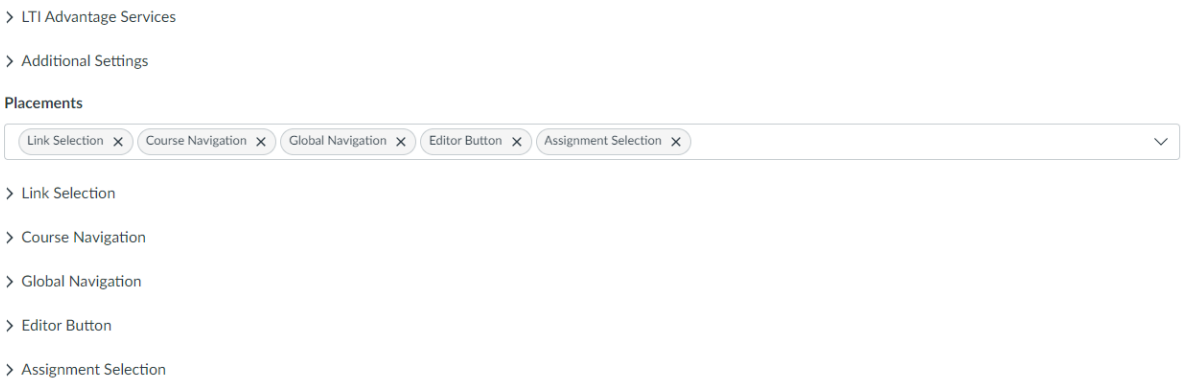
- custom_canvas_course_id=$Canvas.course.id
- custom_canvas_user_login_id=$Canvas.user.loginId

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 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 the 'lti13ClientID' value for the 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

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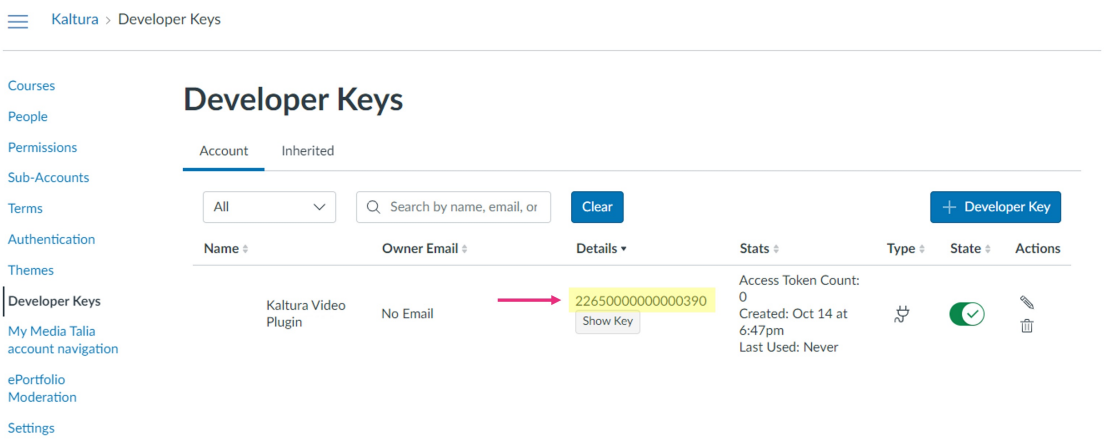
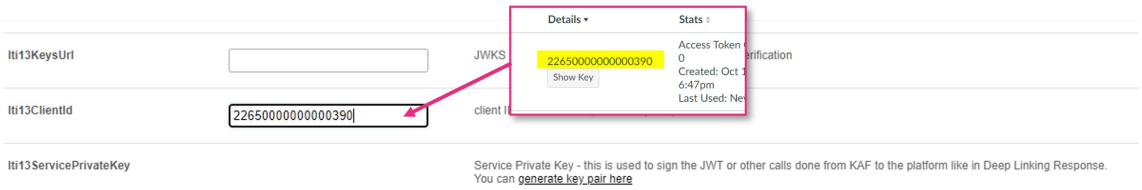
Details column.



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 8 - Configure the 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

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(https://{your_KAF_base_URL}/admin).

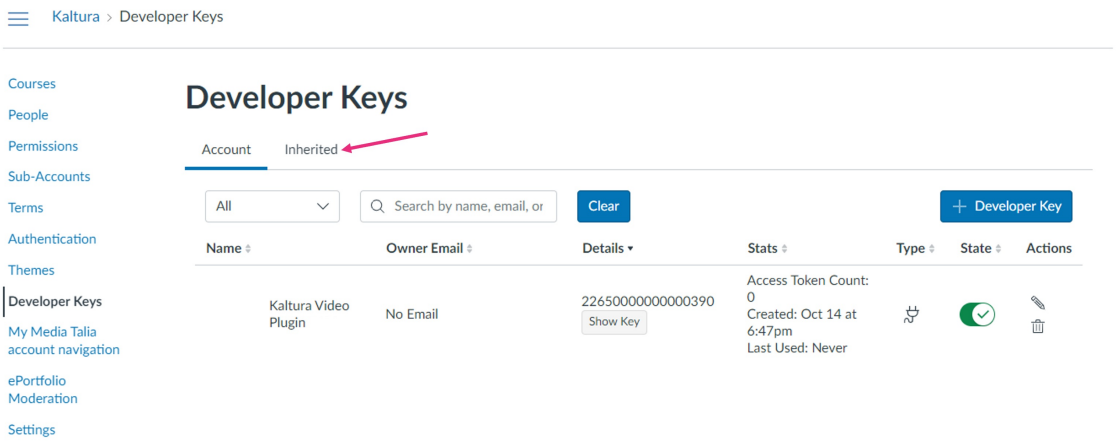
2. Navigate to the Hosted module (https://{your_KAF_base_URL}/admin/config/tab/hosted).
3. Scroll down to the **ltiUserIdAttribute** setting.
4. Set **ltiUserIdAttribute** to **custom_canvas_user_login_id**.
5. Scroll to the bottom of the Hosted module and click **Save**.

Step 9 - Set the API developer key

Option 1 – Inherited API Key

> 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**.

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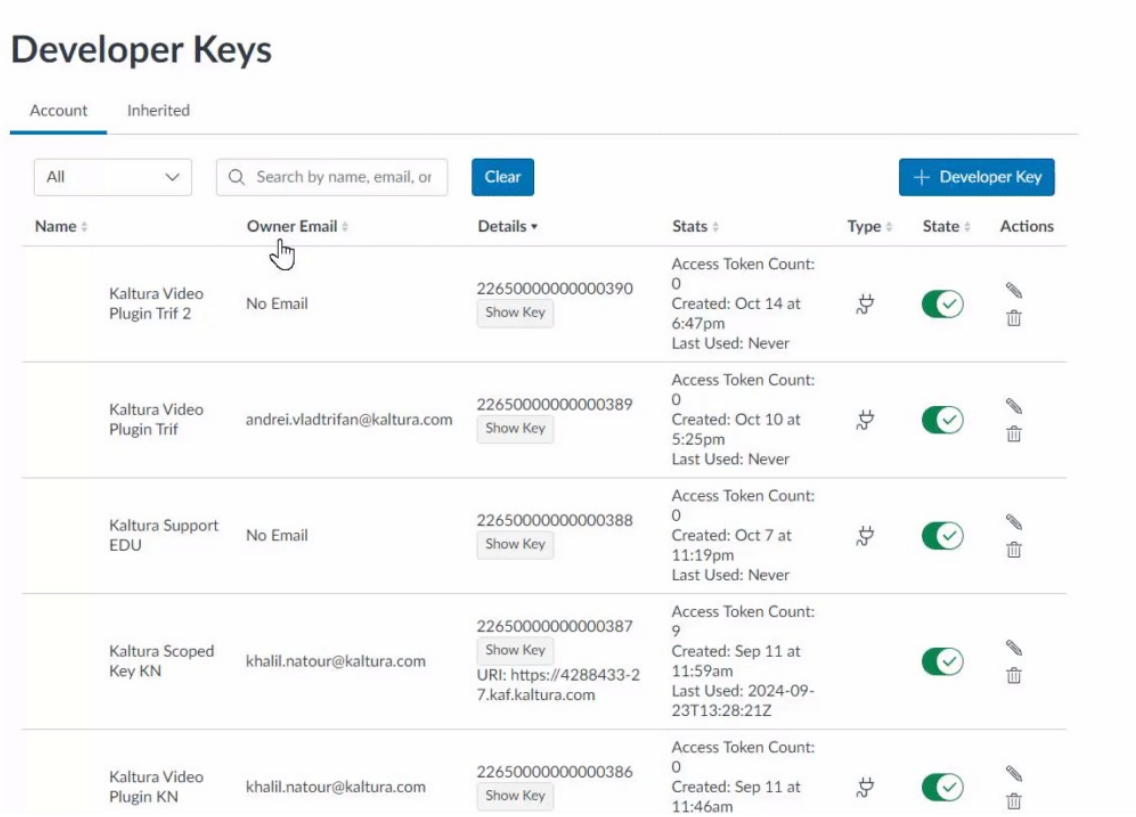

5. Scroll to the listing for the Kaltura key and click the toggle to enable it.

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 11 - Add Kaltura tools.

Option 2 – Scoped API developer key

> 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**

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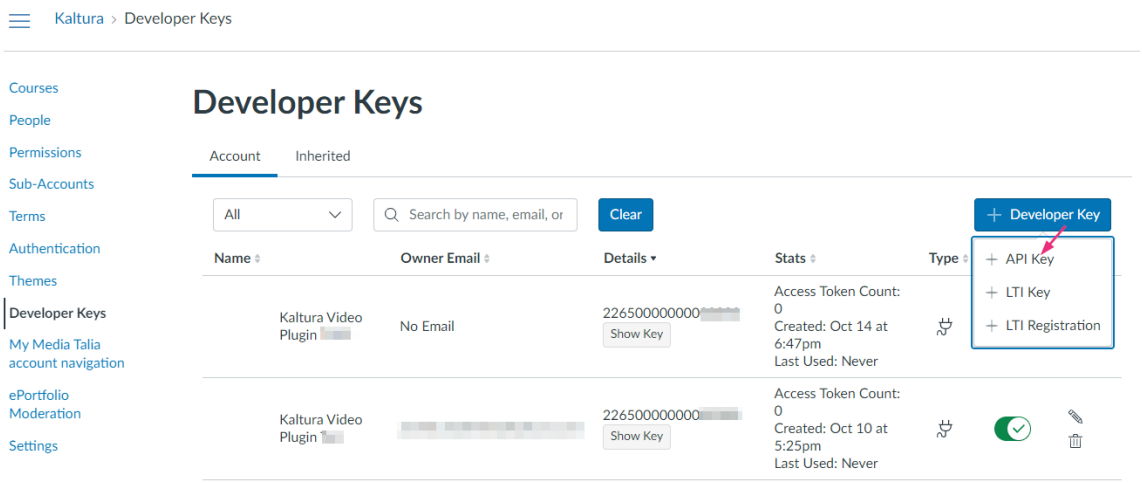
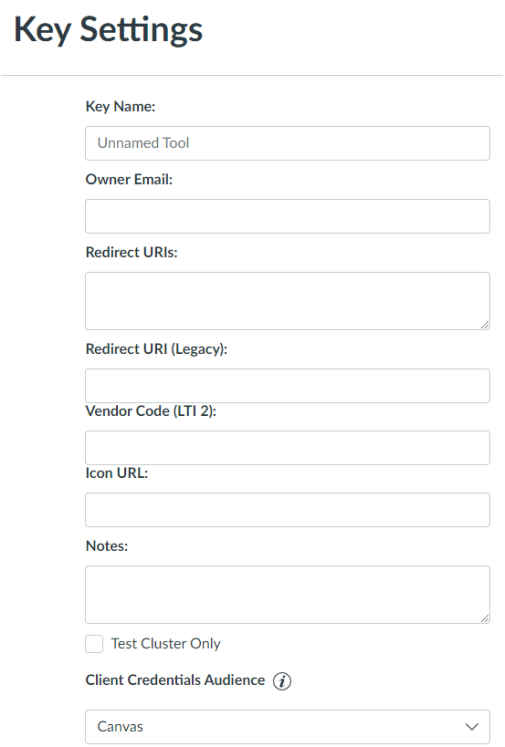
Key from the drop-down list.



The **Key Settings** page displays.



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).

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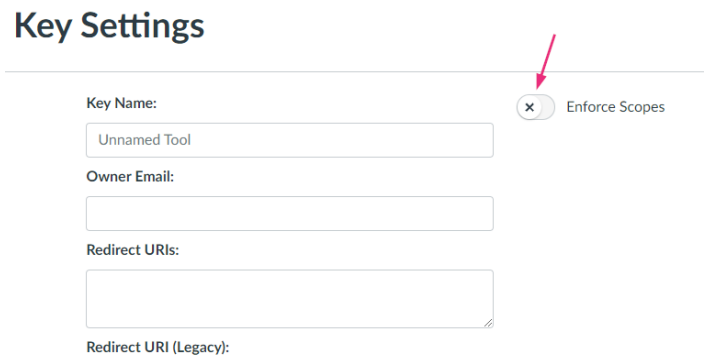
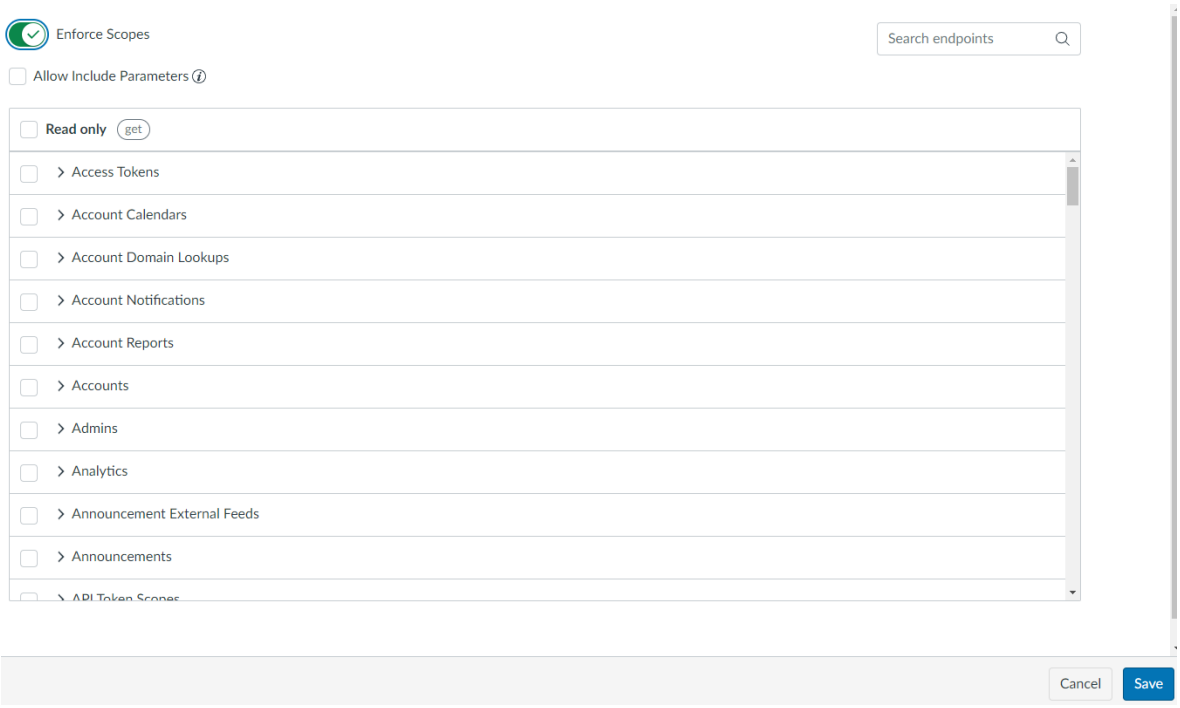
- **Vendor Code (LTI 2)** - Leave blank.
- **Icon URL** - Optional
- **Notes** - Optional
- **Test Cluster Only** – Leave unchecked.
- **Client Credentials Audience** – Canvas should be selected.

5. Scroll to the top and click on **Enforce Scopes** to display all the available scopes.



The Enforce Scopes section expands.



Leave **Allow Include Parameters** unchecked.

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

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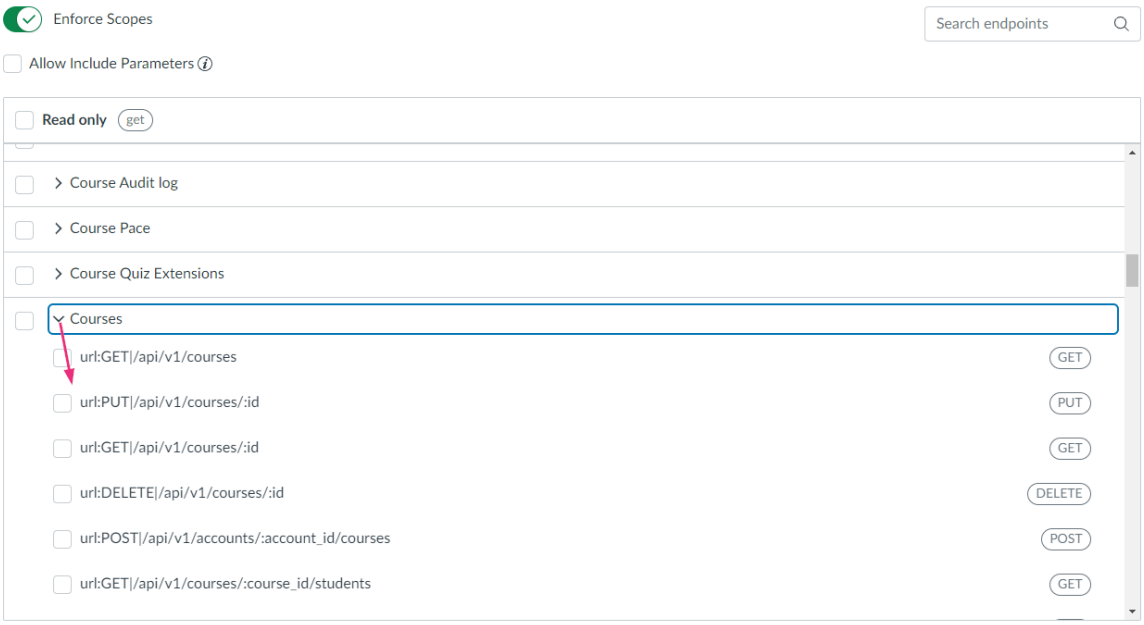

7. Check the following scopes:

- `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.

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Continue to Step 10.

Step 10 - Set the API developer key in the 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 page (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 will expose the **customAppId** and **customAppKey** settings.

4. Fill in the **customAppId** and the **customAppKey** fields using the **Key ID** and the **Key for the API Developer Key** you created in Option 2 above. You can locate the keys as follows:
   - Navigate to the Developer Keys page and locate the Canvas API developer key you created.

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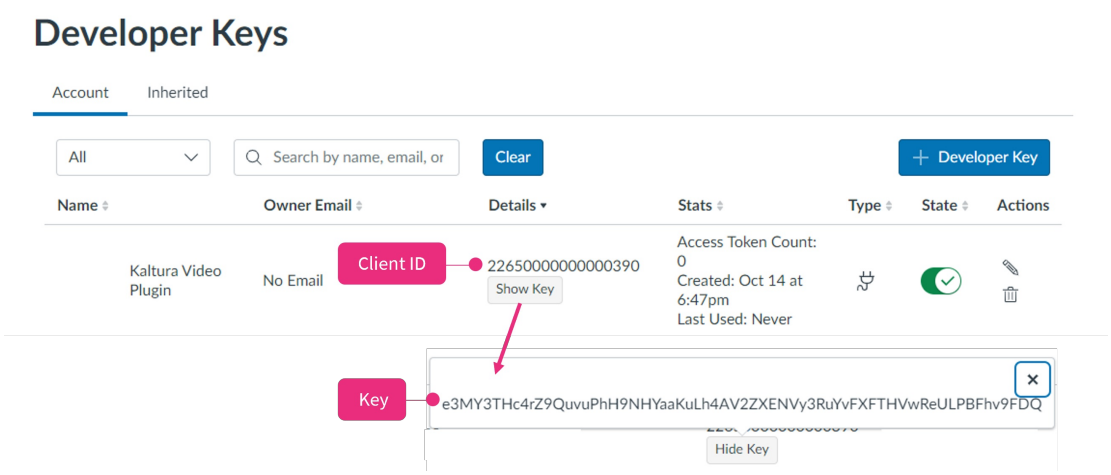

5. Copy the Client ID and paste into the **customAppId** field in the Canvas module.
6. Click **Show Key**, copy the key and paste it into the **customAppKey** field.

7. 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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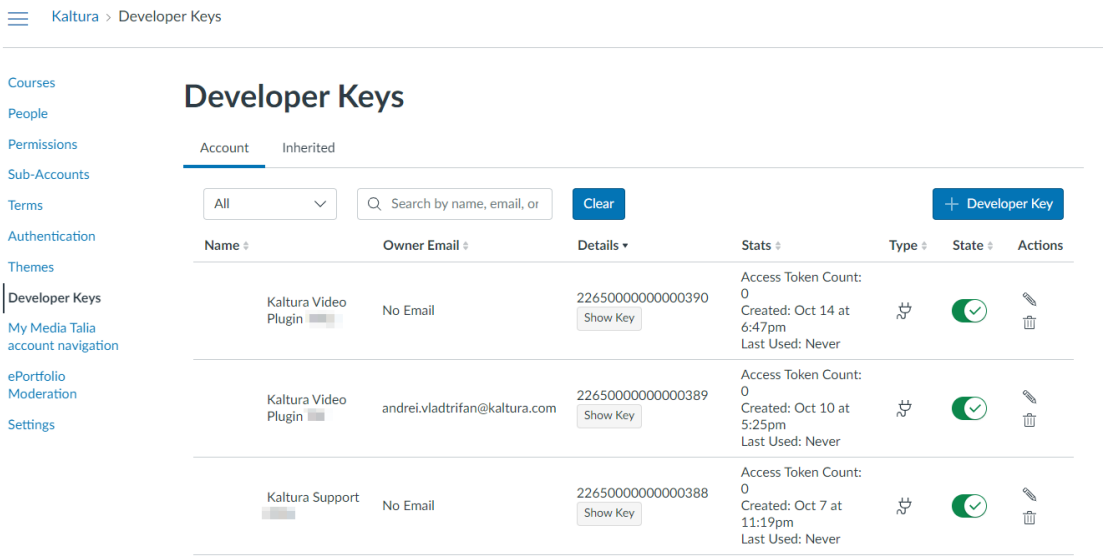
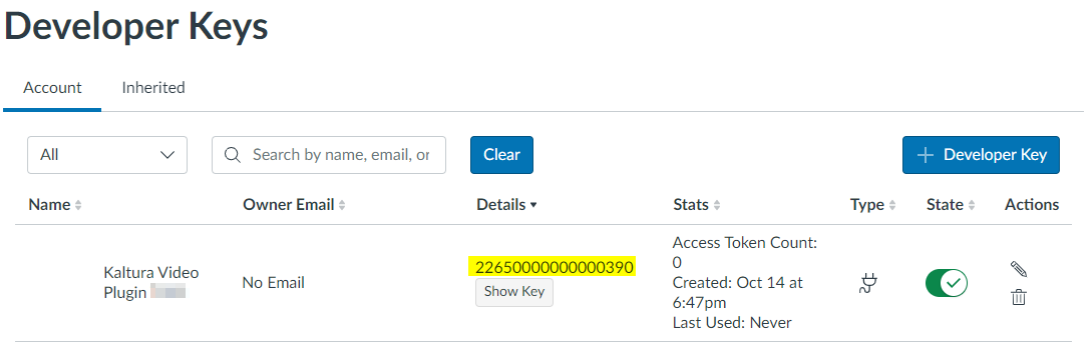


2. On the **Developer Keys** page, locate the LTI developer key you created and copy the **Client ID** from the **Details** column.



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

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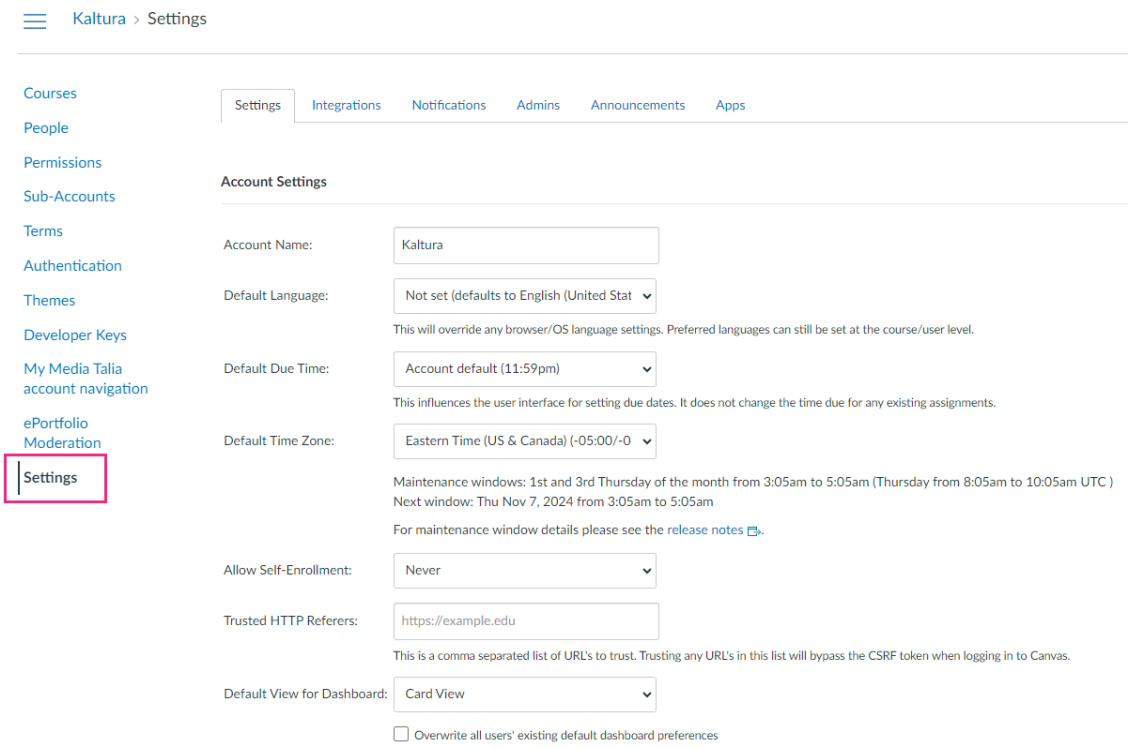
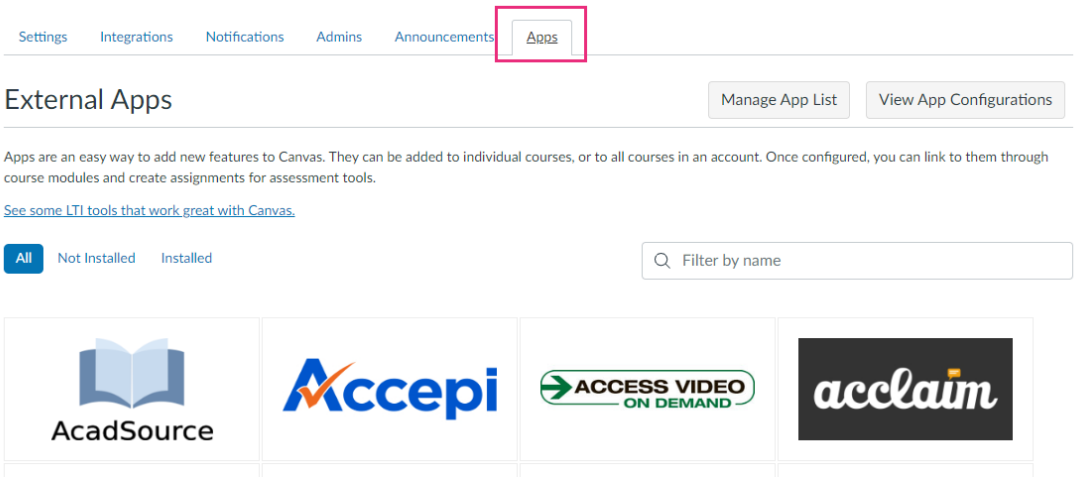


The Settings page displays.

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



The External Apps page displays.

5. Click **View App Configurations**.

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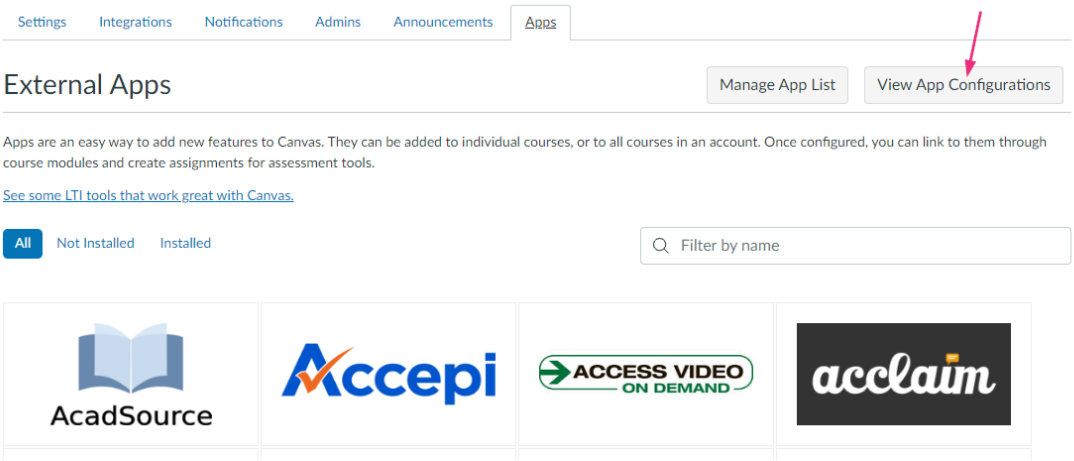
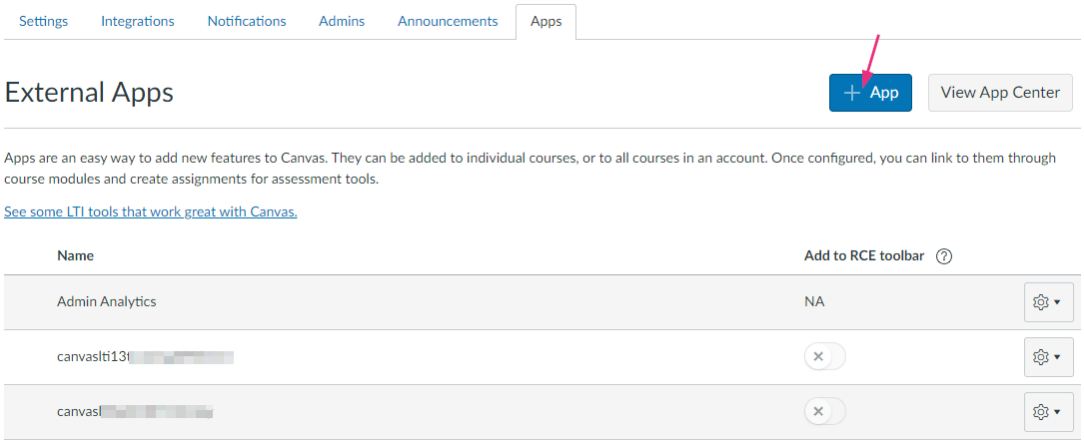


A list of apps displays.

6. Click **+App**.



The **Add App** page displays.

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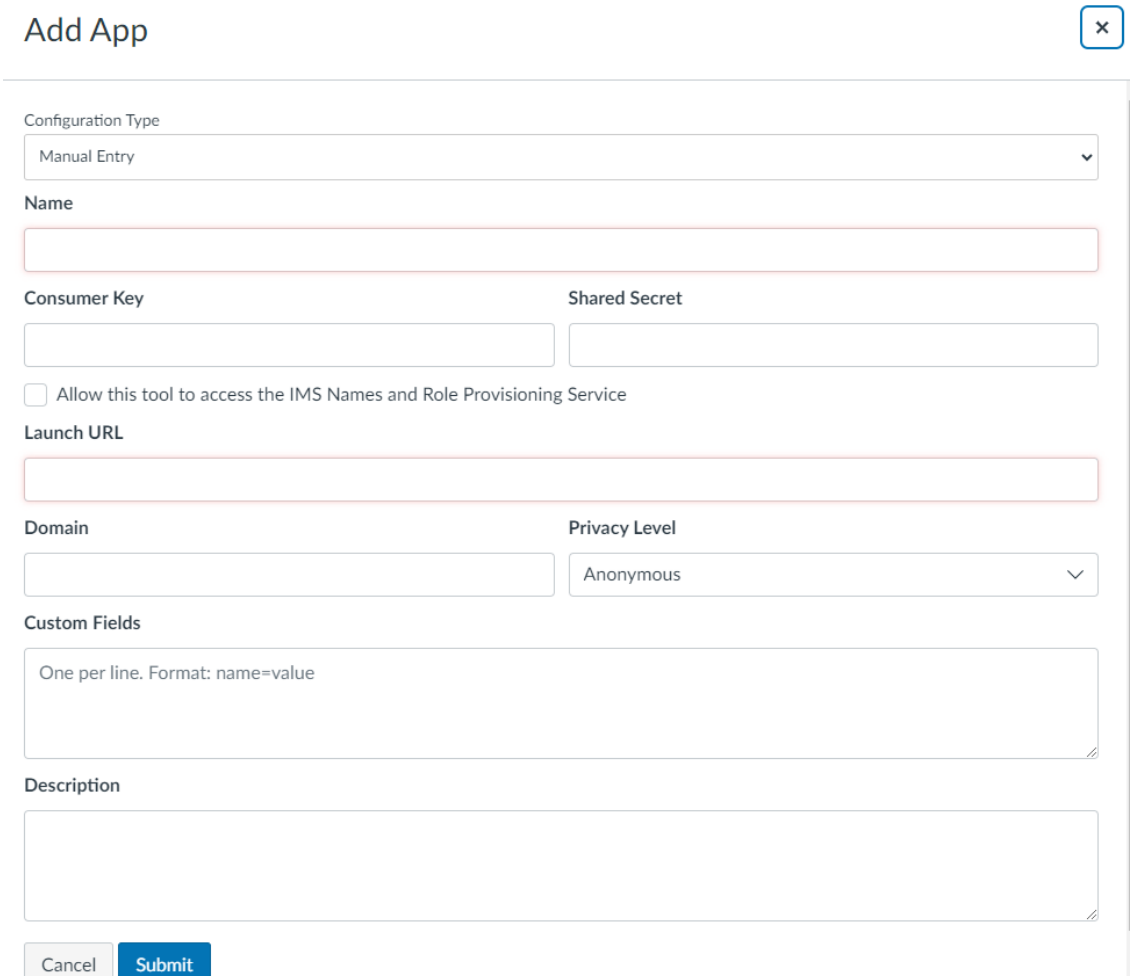
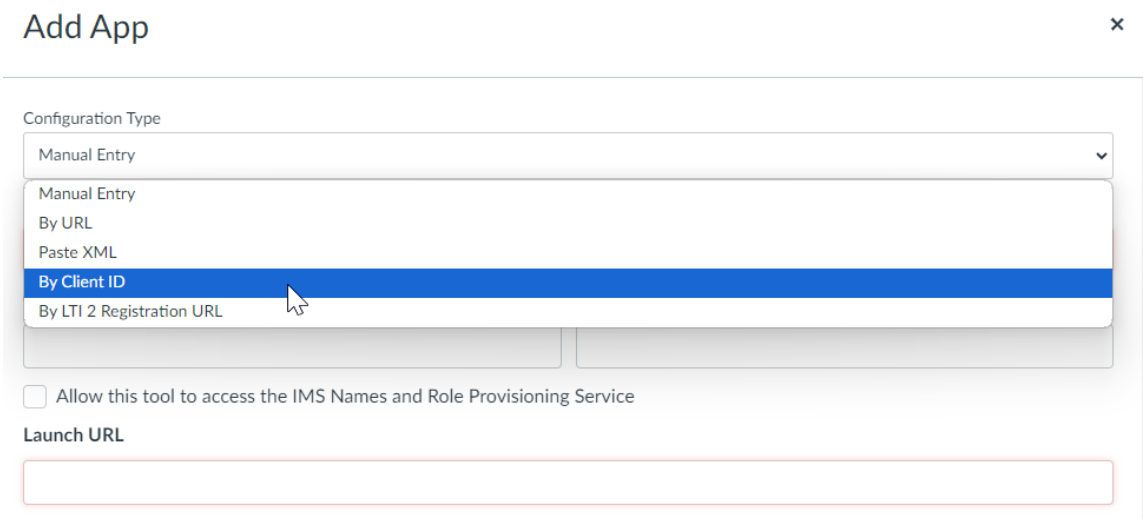


7. Click on the **Configuration Type** drop-down menu and select **By Client ID**.



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

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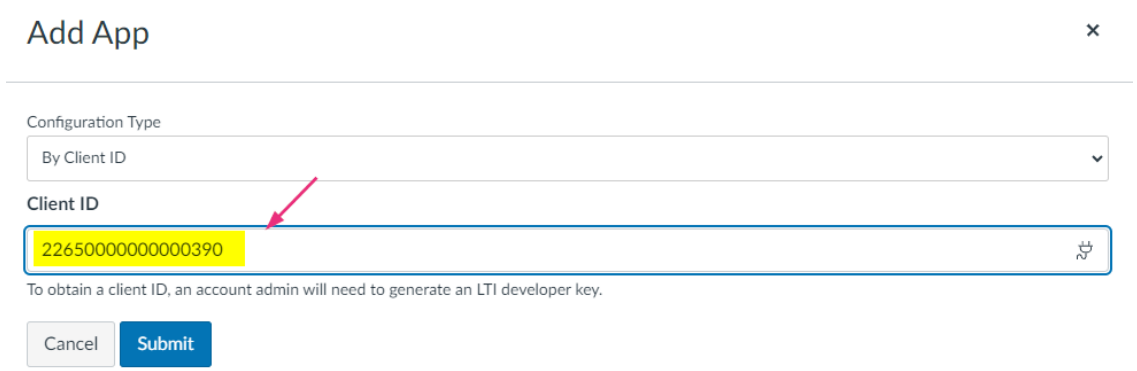

9. Click **Submit**.

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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