

# Set up Kaltura LMS Video integration LTI 1.3 in Canvas

Last Modified on 07/08/2026 12:46 pm IDT

 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.



As of May 2026, Instructure has begun a series of updates to their Inherited API developer key support in Canvas. As a result, Kaltura has decided to deprecate the use of the Kaltura Inherited API Developer Key in Canvas.

### **Update - June 8, 2026**

Recent changes to Canvas have affected the process for creating new Scoped API Developer Keys.

Kaltura is currently working with Instructure to validate a revised configuration process. Until updated instructions are available, the steps for creating and configuring a new Scoped API Developer Key in this article may not work as expected.

As of the publishing of this update, existing Canvas integrations and previously created Scoped API Developer Keys continue to function normally.

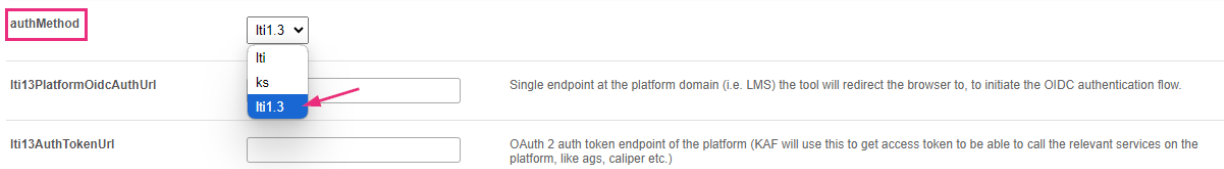
**If you are setting up a new Canvas integration or have questions about updating an existing Canvas integration, contact your Kaltura representative before proceeding.**

## 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.



The screenshot shows a configuration form with the following fields:

- authMethod**: A dropdown menu with options 'lti1.3', 'lti', and 'ks'. 'lti1.3' is selected and highlighted with a red arrow.
- lti13PlatformOidcAuthUrl**: An input field with a placeholder text: "Single endpoint at the platform domain (i.e. LMS) the tool will redirect the browser to, to initiate the OIDC authentication flow."
- lti13AuthTokenUrl**: An input field with a placeholder text: "OAuth 2 auth token endpoint of the platform (KAF will use this to get access token to be able to call the relevant services on the platform, like ags, caliper etc.)"

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`



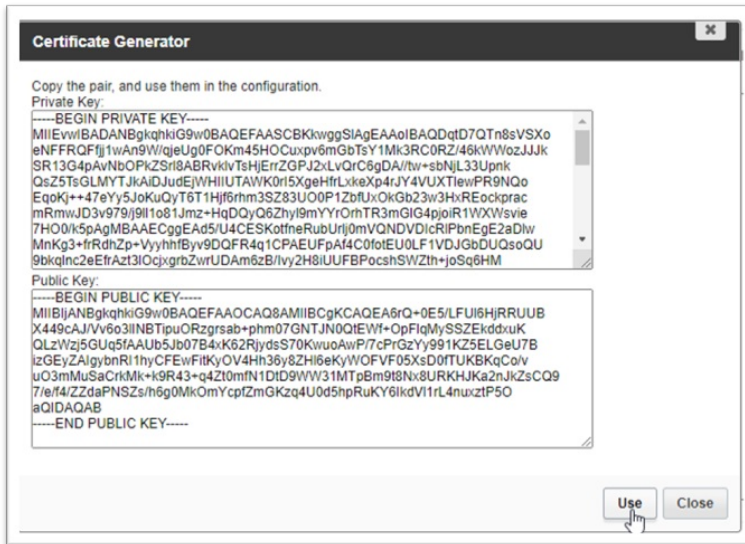
Make sure the URL you enter has no spaces before, after, or within it.

4. Scroll down to the **LTi3ServicePrivateKey** section and click the **Generate key pair here**. This will generate the keys.



The screenshot shows a section titled **lti13ServicePrivateKey**. It contains a text box and a button labeled **generate key pair here**. A mouse cursor is hovering over the button. The text above the button reads: "Service Private Key - this is used to sign the JWT or other calls done from KAF to the platform like in Deep Linking Response. You can [generate key pair here](#)".

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](https://{your_KAF_URL}/canvas/config/create-json-for-instance) Example: <https://12345.kaf.kaltura.com/canvas/config/create-json-for-instance>

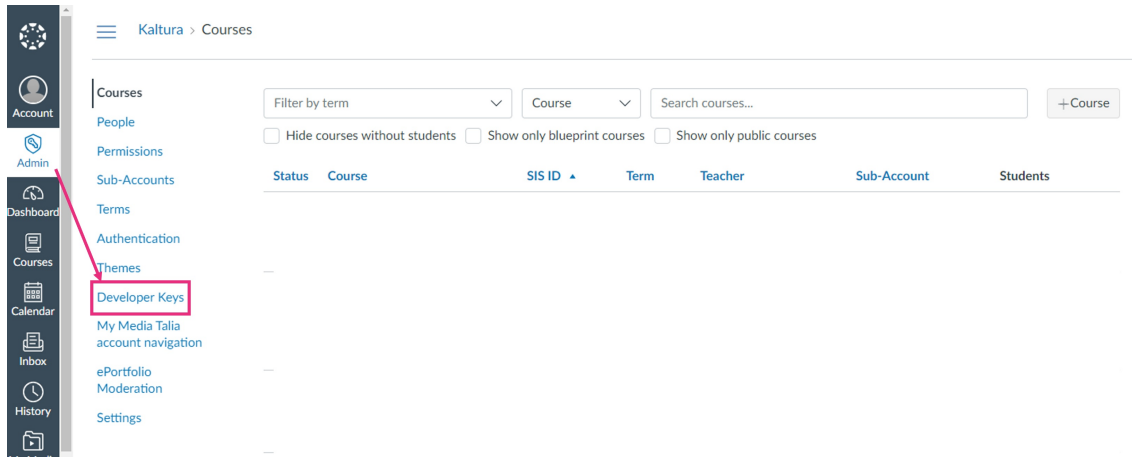


If you're using a KAF domain other than `.kaltura.com`, make sure to use it as the input for `your_KAF_URL`.

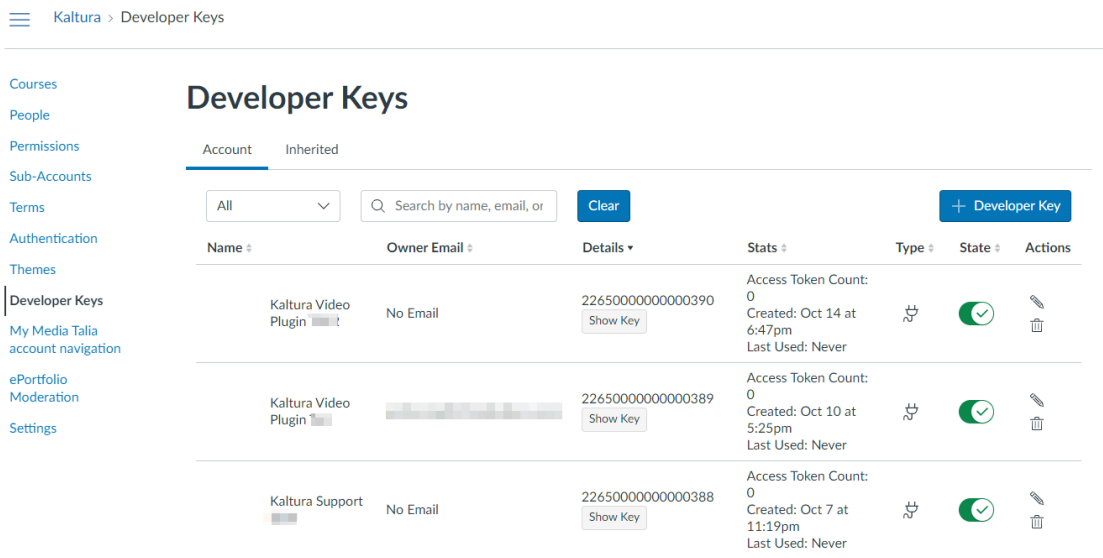
The JSON will be used in the next step to create the LTI developer key.

## Step 3 - Create LTI developer key

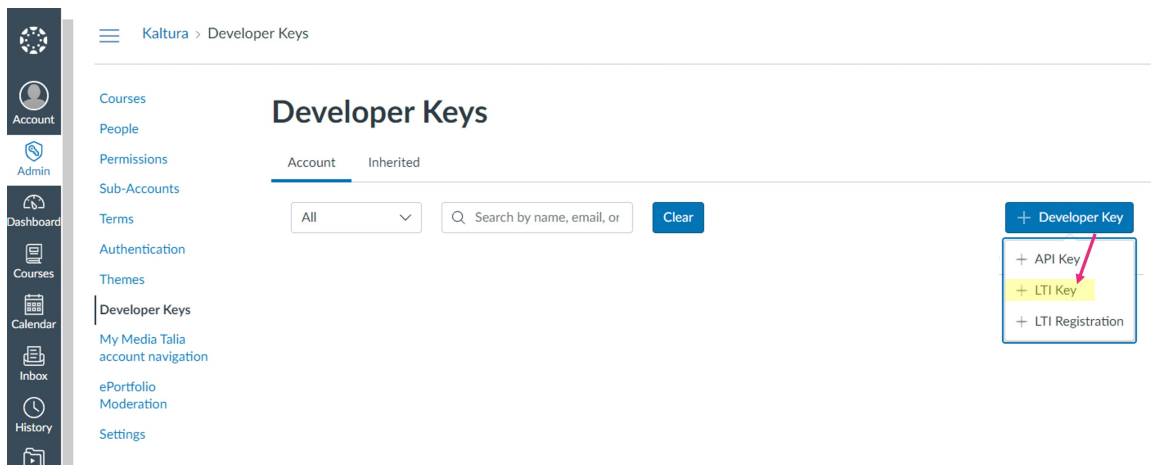
1. Log into your Canvas instance as an administrator.
2. Click the **Admin** tab.
3. Click the **Developer Keys** tab.



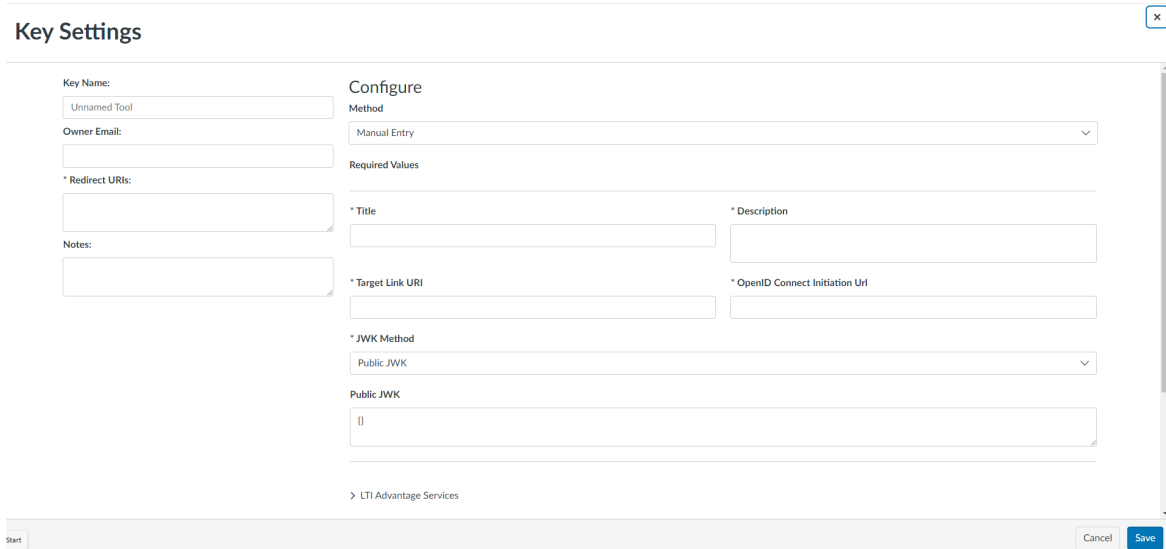
The **Developer Keys** page displays.



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



The **Key Settings** page displays.



## 5. Configure the following:

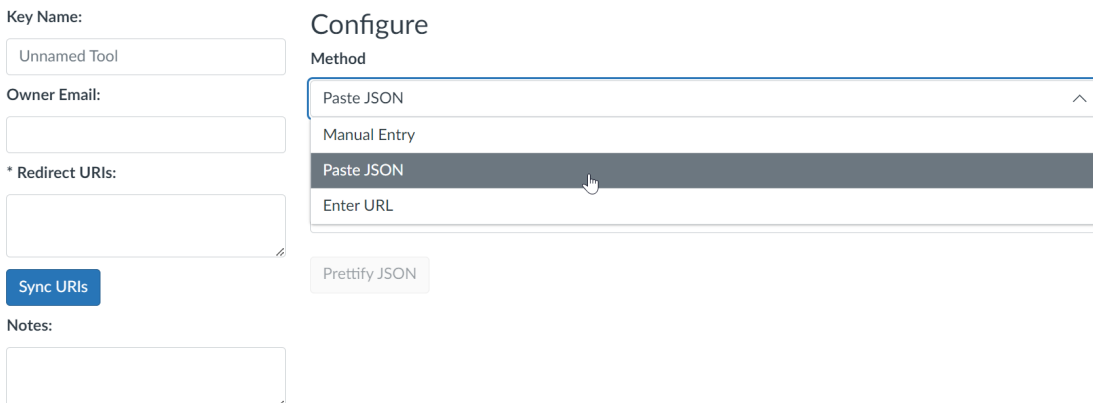
- **Key Name** - Enter 'Kaltura Video Plugin'.
- **Owner email** - optional
- **Redirect URIs** - Enter `https://{your_KAF_URL}/hosted/index/oauth2-launch`  
Example: `https://12345.kaf.kaltura.com/hosted/index/oauth2-launch`



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.

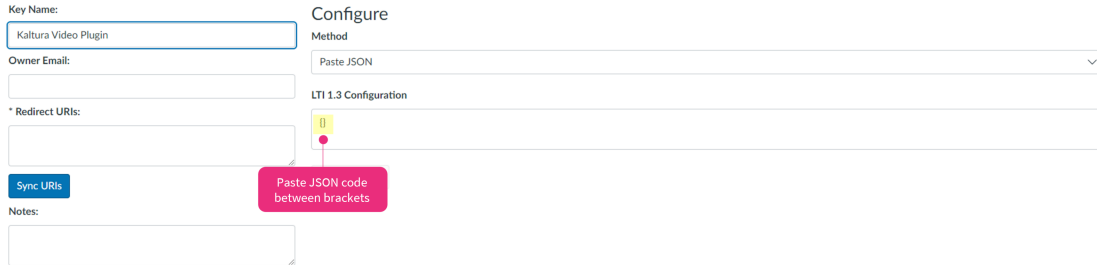
## Key Settings



## 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.

### Key Settings



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).

☰ [Kaltura](#) > [Developer Keys](#)

- [Courses](#)
- [People](#)
- [Permissions](#)
- [Sub-Accounts](#)
- [Terms](#)
- [Authentication](#)
- [Themes](#)
- [Developer Keys](#)
- [My Media Talia account navigation](#)
- [ePortfolio](#)
- [Moderation](#)
- [Settings](#)

## Developer Keys

Account
Inherited




All

Q

Search by name, email, or

Clear

+ Developer Key

Name	Owner Email	Details	Stats	Type	State	Actions
Kaltura Video Plugin	No Email	22650000000000390 <a href="#">Show Key</a>	Access Token Count: 0 Created: Oct 14 at 6:47pm Last Used: Never			

## 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.

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

## Developer Keys

Account Inherited

All

Name	Owner Email	Details	Stats	Type	State	Actions
Kaltura Video Plugin	No Email	22650000000000390 <input type="button" value="Show Key"/>	Access Token Count: 0 Created: Oct 14 at 6:47pm Last Used: Never	JWT	<input checked="" type="checkbox"/>	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

The **Key Settings** page displays.

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

### Key Settings

Key Name:

Owner Email:

\* Redirect URIs:

Notes:

#### Configure

Method:

Required Values

\* Title:

\* Description:

\* Target Link URI:

\* OpenID Connect Initiation Url:

\* JWK Method:

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

**LTI Advantage Services**

Services must be supported by the tool in order to work. Check with your Tool Vendor to ensure service capabilities.

- 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 submission results for assignments associated with the tool.
- Can retrieve user data associated with the context the tool is installed in.
- Can update public jwk for LTI services.
- Can lookup Account information.
- Can view Progress records associated with the context the tool is installed in.
- Can view the content of a page the tool is launched from.

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

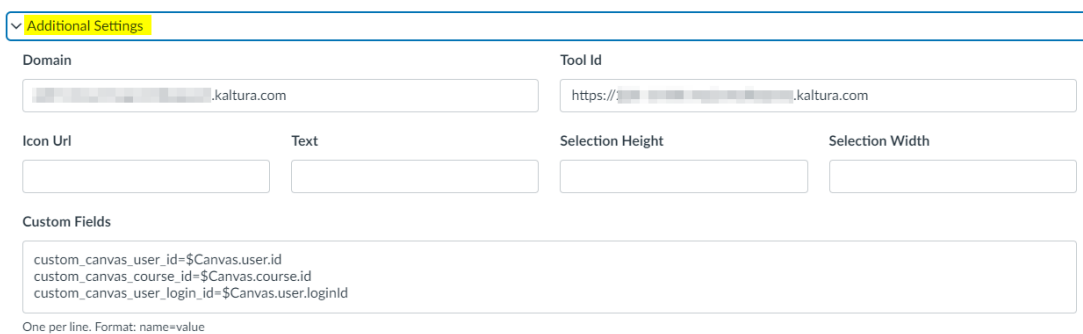
- Can create and view assignment data in the gradebook associated with the tool.

- 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.



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.

> LTI Advantage Services

> Additional Settings

#### Placements

Link Selection x Course Navigation x Global Navigation x Editor Button x Assignment Selection x

> Link Selection

> Course Navigation

> Global Navigation

> Editor Button

> Assignment Selection

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 'lti13ClientID' value for LTI developer key

1. In Canvas, navigate to the [Developer Keys page](#) ([https://{your\\_Canvas\\_base\\_URL}/accounts/1/developer\\_keys](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.

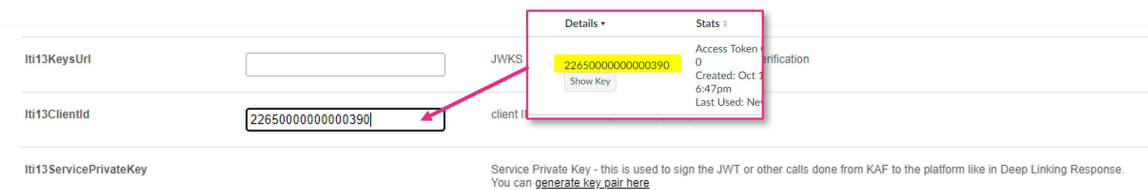
Developer Keys

Account Inherited

All

Name	Owner Email	Details	Stats	Type	State	Actions
Kaltura Video Plugin	No Email	22650000000000390 <input type="button" value="Show Key"/>	Access Token Count: 0 Created: Oct 14 at 6:47pm Last Used: Never		<input checked="" type="checkbox"/>	<input type="button" value="Refresh"/> <input type="button" value="Delete"/>

- Log into your Configuration Management page ([https://{your\\_KAF\\_base\\_URL}/admin](https://{your_KAF_base_URL}/admin)).
- Navigate to the **Hosted module** ([https://{your\\_KAF\\_base\\_URL}/admin/config/tab/hosted](https://{your_KAF_base_URL}/admin/config/tab/hosted)).
- Scroll down to the **Iti13ClientID** field and paste in the **Client ID**.



The screenshot shows the configuration page for the Hosted module. The field **Iti13ClientID** is populated with the Client ID `22650000000000390`. A red arrow points from the Client ID in the Developer Keys table to the value in the Iti13ClientID field. Below the field, there is a note: "Service Private Key - this is used to sign the JWT or other calls done from KAF to the platform like in Deep Linking Response. You can [generate key pair here](#)".

- 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:

- Log into your Configuration Management page ([https://{your\\_KAF\\_base\\_URL}/admin](https://{your_KAF_base_URL}/admin)).
- Navigate to the **Hosted module**

([https://{your\\_KAF\\_base\\_URL}/admin/config/tab/hosted](https://{your_KAF_base_URL}/admin/config/tab/hosted)).

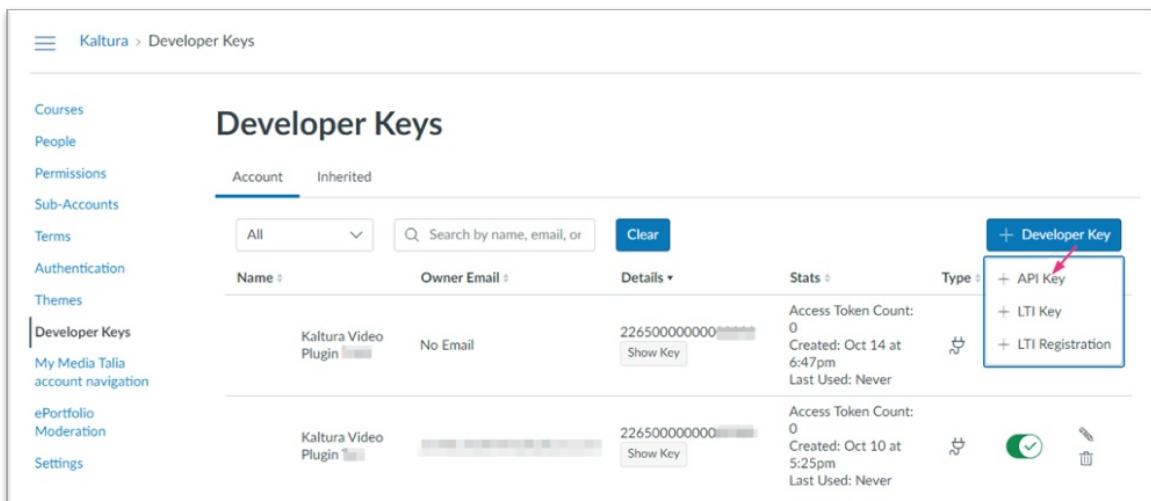
3. Scroll down to the **ItiUserIdAttribute** setting.
4. Set **ItiUserIdAttribute** to **custom\_canvas\_user\_login\_id**.
5. Scroll to the bottom of the Hosted module and click **Save**.

## Step 9 - Set API developer key

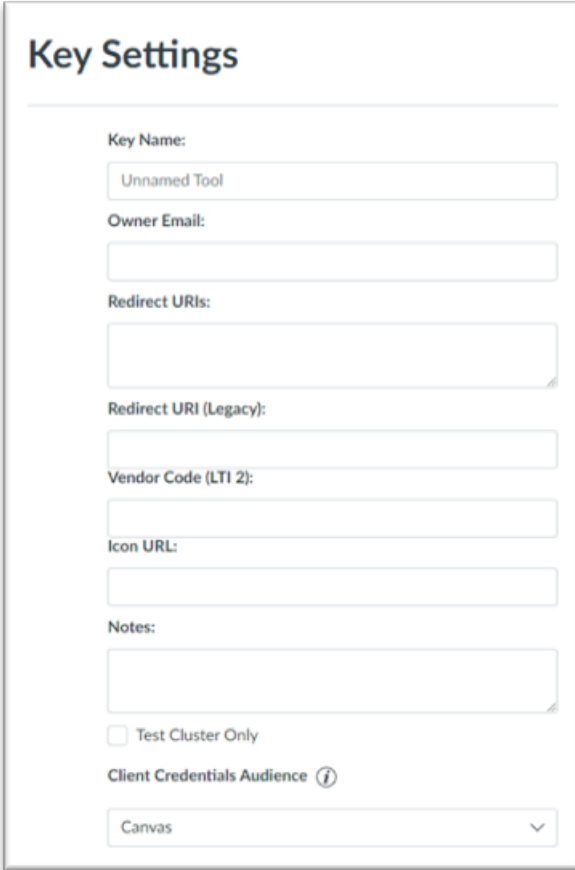


If your KAF domain is not on [kaltura.com](https://kaltura.com), or you prefer added security, you'll need to create a Scoped API Developer Key.

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



The 'Key Settings' page displays.



4. Configure the following:

- **Key Name** - *Kaltura Scoped API Key*
- **Owner Email** - Optional
- **Redirect URLs** - Enter your KAF URL starting with `https://`



- Use your domain alias or vanity domain if applicable.
- Make sure there is no / (slash) at the end of the URL.

- **Redirect URL (Legacy)** - Enter your KAF URL starting with `https://`

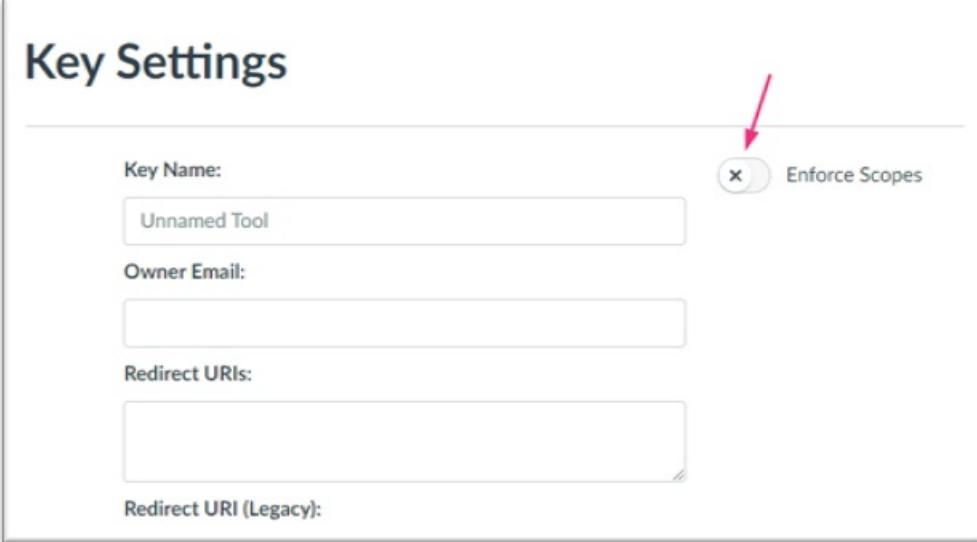


- Use your domain alias or vanity domain if applicable.
- Make sure there is no / (slash) at the end of the URL.

- **Vendor Code (LTI 2)** - Leave blank
- **Icon URL** - Optional
- **Notes** - Optional

- **Test Cluster Only** - Leave unchecked
- **Client Credentials Audience** - Select **Canvas**

5. Scroll to the top of the page and click **Enforce Scopes**.



**Key Settings**

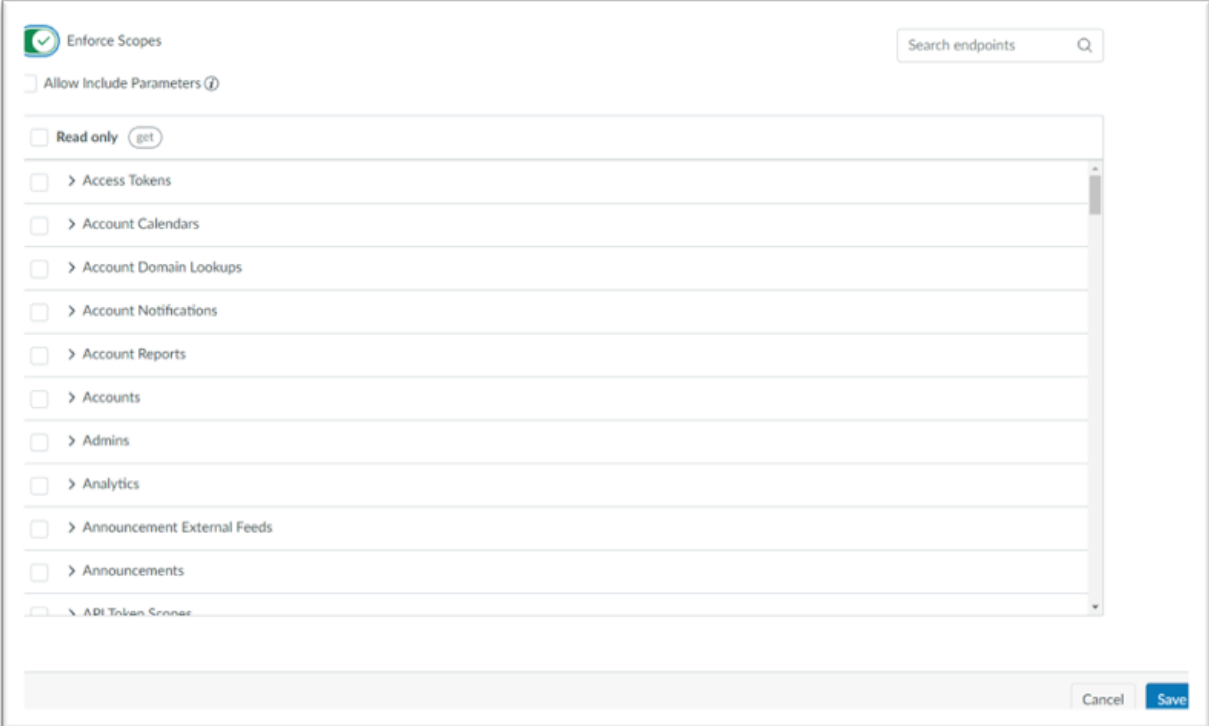
Key Name:   Enforce Scopes

Owner Email:

Redirect URIs:

Redirect URI (Legacy):

The 'Enforce Scopes' section expands.



Enforce Scopes

Allow Include Parameters ⓘ

Read only (get)

- > Access Tokens
- > Account Calendars
- > Account Domain Lookups
- > Account Notifications
- > Account Reports
- > Accounts
- > Admins
- > Analytics
- > Announcement External Feeds
- > Announcements
- > API Token Scopes

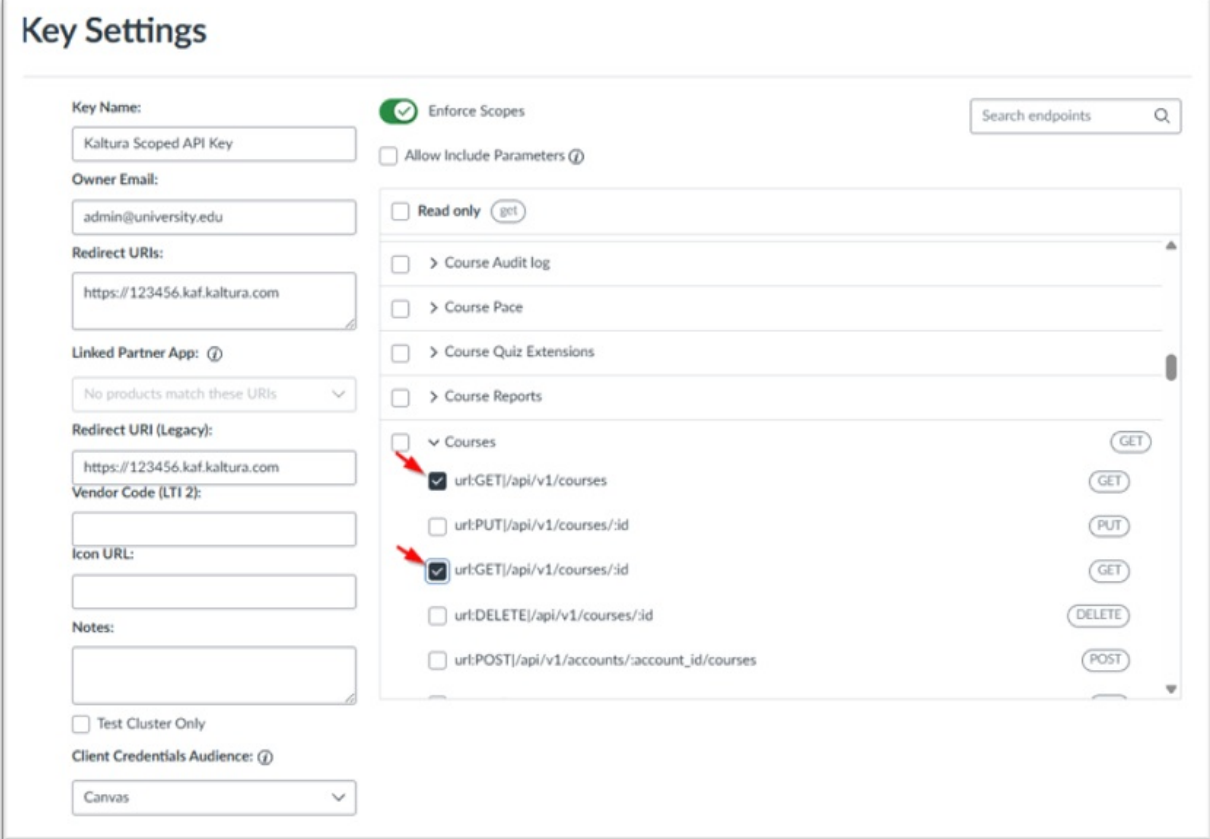
Cancel Save

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`

### Key Settings

Key Name:   Enforce Scopes

Owner Email:   Allow Include Parameters

Redirect URIs:

Linked Partner App:

Redirect URI (Legacy):

Vendor Code (LTI 2):

Icon URL:

Notes:

Test Cluster Only

Client Credentials Audience:

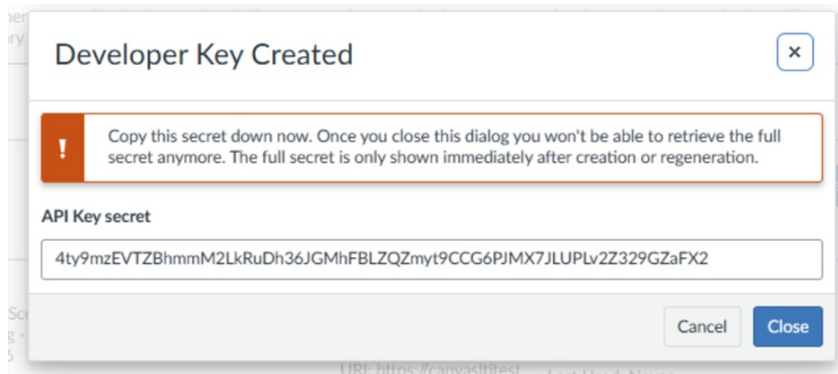
Read only

- [uri:GET/api/v1/users/page\\_views/query/query\\_id](#)
- [uri:GET/api/v1/users/page\\_views/query/query\\_id/results](#)
- [uri:GET/api/v1/users/:user\\_id/profile](#)
- [uri:GET/api/v1/users/:user\\_id/avatars](#)
- [uri:GET/api/v1/users/self/course\\_nicknames](#)
- [uri:GET/api/v1/users/self/course\\_nicknames/:course\\_id](#)
- [uri:PUT/api/v1/users/self/course\\_nicknames/:course\\_id](#)
- [uri:DELETE/api/v1/users/self/course\\_nicknames/:course\\_id](#)
- [uri:DELETE/api/v1/users/self/course\\_nicknames](#)

> What If Grades

10. Click **Save**.

The 'Developer Key Created' message displays:



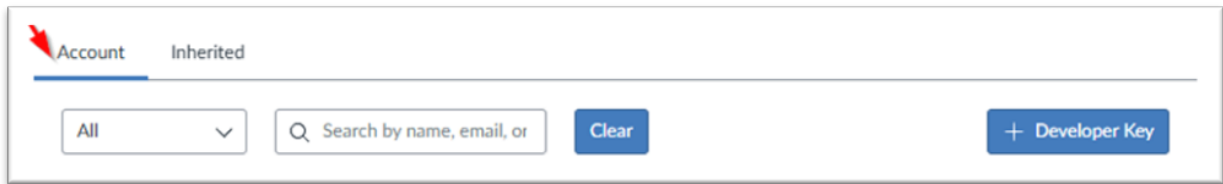
11. Copy the API Developer Key secret and store it in a secure location.

**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 Developers Keys page displays.

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**.

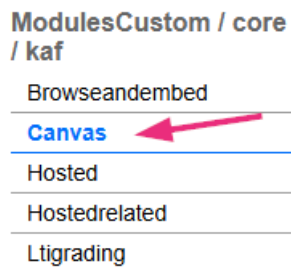
When enabled, the toggle turns green.

## Step 10 - Set API developer key in Canvas module

1. Log into your Configuration Management console and open the **Canvas** module.

You can also navigate directly:

([https://{your\\_KAF\\_base\\_URL}/admin/config/tab/canvas](https://{your_KAF_base_URL}/admin/config/tab/canvas)).



The 'Canvas' page displays.

MANAGE CONFIGURATION | MANAGE USERS | MANAGE GROUPS | KNOWLEDGE BASE | CLEAR THE CACHE | GO TO SITE

## Configuration Management

**Server Tools**

- Backup Configuration
- Player replacement tool

**Global**

- AddNew
- Auth
- Categories
- Channels
- Client
- Debug
- EmailService
- EmailTemplates
- Gallery
- Header
- Icalendar
- Languages
- Login
- MediaCollaboration
- Metadata
- Moderation
- My-media
- Navigation
- Player
- PlaylistPage
- Recaptcha
- Search
- Security
- SharedRepositories
- UserSelect

### Canvas

enabled  Yes  Enable the Canvas module.

allowPublicGallery  No  When set to Yes, Public courses in Canvas will expose Media Gallery to anonymous users (Anonymous LTI role needs to be mapped to KAF 'ViewRole' role).

**canvasRolesMapping**

Map each Canvas role into a LTI Role

1

canvasRole

LTI Role

2

canvasRole

LTI Role

3

canvasRole

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

This exposes the Canvas Account API Developer Key settings.

**useScopedKey**  Yes  No

Please make sure that your Canvas key covers the following scopes:  
 urt:GET/api/v1/courses  
 urt:GET/api/v1/courses/id  
 urt:GET/api/v1/users/user\_id/profile

---

**enableUserProfileScope**  Yes  No

This is a temporary field, and should be set to "1" when using a scoped key.  
 In case your Canvas scope key does not have the "urt:GET/api/v1/users/user\_id/profile" scope, set this field to "0" as a temporary solution until your Canvas admin adds the scope.

---

**customAppId**

---

**customAppKey**

---

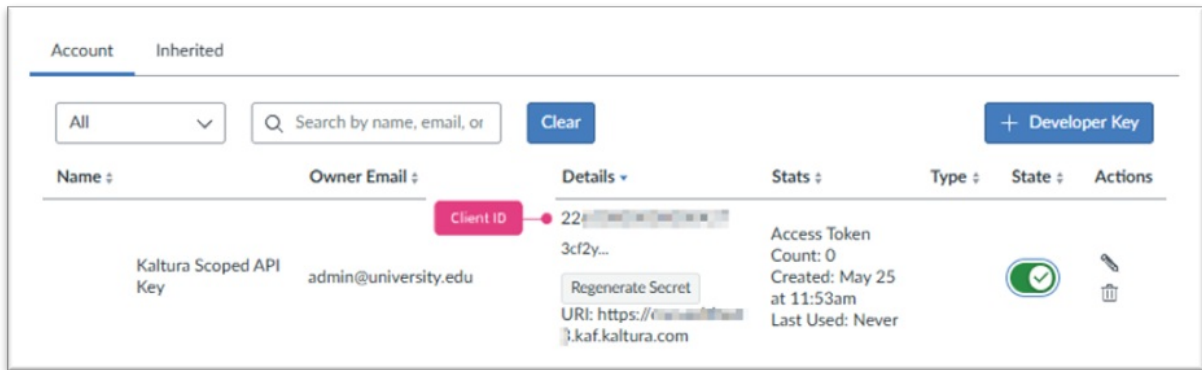
**useCustomContextValues**  No

The contents of this section affect only the My Media publishing capability.  
 When enabled, you can customize the following context values:  
 1. context ID which affects the Kaltura category  
 2. context label which affects the display of the Kaltura category name

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

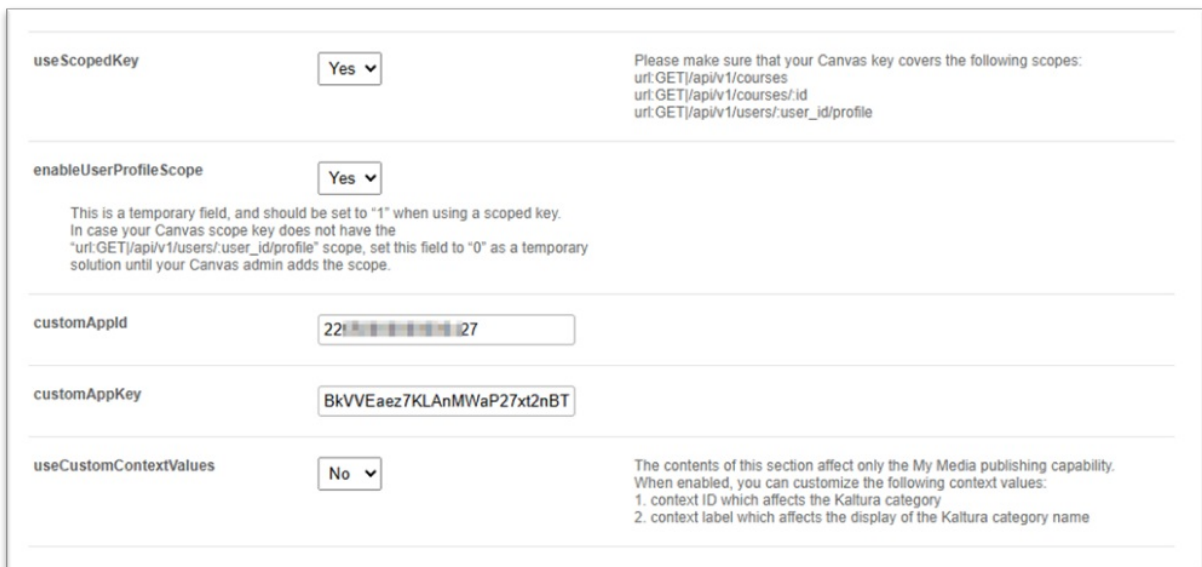
4. Fill in the **customAppId** and **customAppKey** fields using the Key ID and Key for the API Developer Key you created above as follows:

- 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 that you saved in [Step 9, item 11 above](#), 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](#).

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

## Developer Keys

Account Inherited

All

Name	Owner Email	Details	Stats	Type	State	Actions
Kaltura Video Plugin	No Email	22650000000000390 <input type="button" value="Show Key"/>	Access Token Count: 0 Created: Oct 14 at 6:47pm Last Used: Never	ST	<input checked="" type="checkbox"/>	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
Kaltura Video Plugin	andrei.vladtrifan@kaltura.com	22650000000000389 <input type="button" value="Show Key"/>	Access Token Count: 0 Created: Oct 10 at 5:25pm Last Used: Never	ST	<input checked="" type="checkbox"/>	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
Kaltura Support	No Email	22650000000000388 <input type="button" value="Show Key"/>	Access Token Count: 0 Created: Oct 7 at 11:19pm Last Used: Never	ST	<input checked="" type="checkbox"/>	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

- 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

All

Name	Owner Email	Details	Stats	Type	State	Actions
Kaltura Video Plugin	No Email	<b>22650000000000390</b> <input type="button" value="Show Key"/>	Access Token Count: 0 Created: Oct 14 at 6:47pm Last Used: Never	ST	<input checked="" type="checkbox"/>	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

- In the left-hand navigation, click the **Settings tab** ([https://{your\\_Canvas\\_base\\_URL}/accounts/1/settings#tab-settings](https://{your_Canvas_base_URL}/accounts/1/settings#tab-settings)).

Settings Integrations Notifications Admins Announcements Apps

Account Settings

Account Name:

Default Language:

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

Default Due Time:

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

Default Time Zone:

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:

Trusted HTTP Referers:

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

Default View for Dashboard:

Overwrite all users' existing default dashboard preferences

The Settings page displays.

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





Settings Integrations Notifications Admins Announcements **Apps**

External Apps Manage App List View App Configurations

Apps are an easy way to add new features to Canvas. They can be added to individual courses, or to all courses in an account. Once configured, you can link to them through course modules and create assignments for assessment tools.

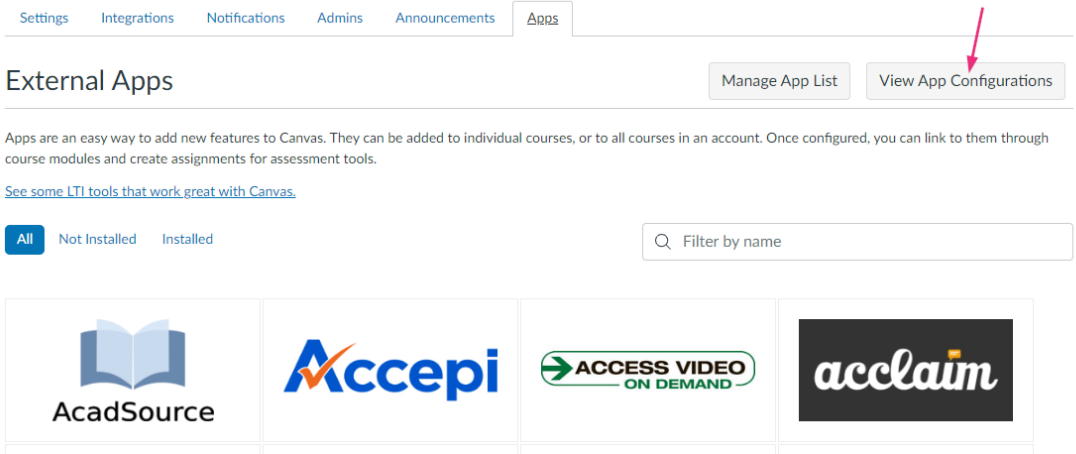
[See some LTI tools that work great with Canvas.](#)

**All** Not Installed Installed

 AcadSource			
---	---	---	---

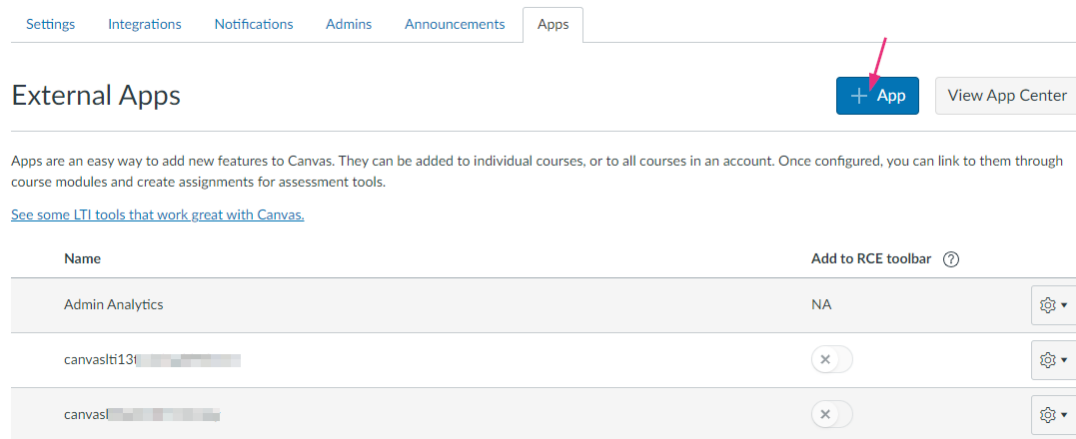
The External Apps page displays.

5. Click **View App Configurations**.



A list of apps displays.

## 6. Click **+App**.



The **Add App** page displays.

## Add App



Configuration Type  
Manual Entry

Name

Consumer Key  Shared Secret

Allow this tool to access the IMS Names and Role Provisioning Service

Launch URL

Domain  Privacy Level  
Anonymous

Custom Fields  
One per line. Format: name=value

Description

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

## Add App



Configuration Type  
Manual Entry

- Manual Entry
- By URL
- Paste XML
- By Client ID**
- By LTI 2 Registration URL

Allow this tool to access the IMS Names and Role Provisioning Service

Launch URL

8. Paste the Client ID copied in [Step 3 - Create LTI developer key](#) into the **Client ID** field.

## Add App ✕

Configuration Type

By Client ID ▼

Client ID

2265000000000390 🔗

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

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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