

Kaltura LMS integration for Canvas - Deployment guide LTI 1.3

Last Modified on 06/25/2025 6:02 pm IDT

 This article is designated for administrators.

About

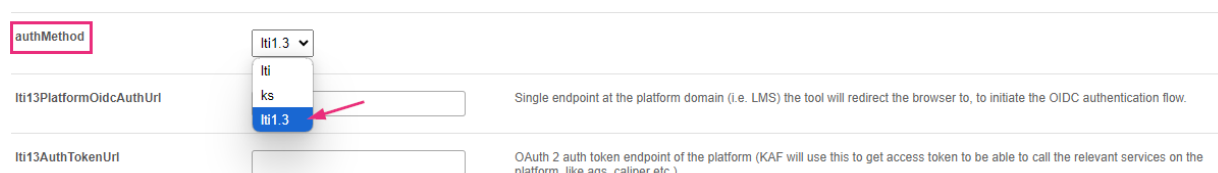
This guide explains how to add the Kaltura LMS Integration for Canvas with LTI version 1.3. The integration is implemented using a set of LTI external tools, manually added through an LTI Developer Key in Canvas. The key is populated using a JSON block to enable the LTI Tool Provider and configure tool placements within Canvas.

Prerequisites

- A Kaltura administrator account
- A KAF instance for Canvas, minimum version 5.99.46
- 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.



The screenshot shows a configuration form with the following fields:

- authMethod**: A dropdown menu with options 'lti', 'ks', and 'lti1.3'. 'lti1.3' is selected, indicated by a red arrow.
- lti13PlatformOidcAuthUrl**: A text input field. To its right is a description: "Single endpoint at the platform domain (i.e. LMS) the tool will redirect the browser to, to initiate the OIDC authentication flow."
- lti13AuthTokenUrl**: A text input field. To its right is a description: "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/jwk`

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`

- **Iti13KeysUrl** = `https://{your_Canvas_Domain}/api/Iti/security/jwks`

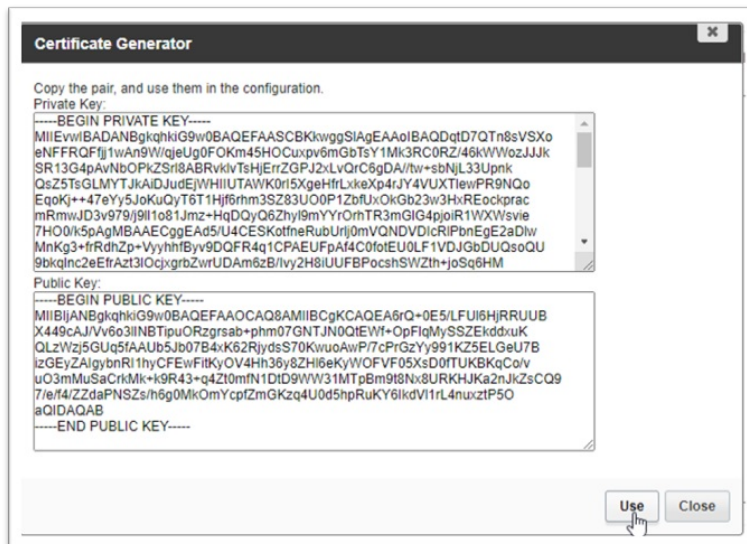


Make sure the URL you enter has no spaces before, after, or within it.

4. Scroll down to the **LTi13ServicePrivateKey** 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 **Iti13ServicePrivateKey** and **Iti13ServicePublicKey** 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`

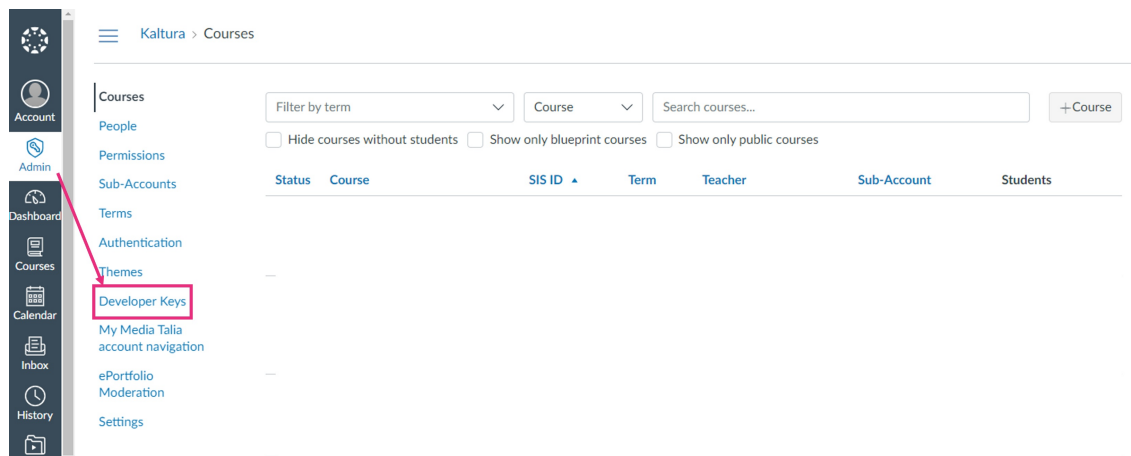


If you're using a KAF domain other than `.kaltura.com`, make sure to use it as the input for your_KAF_URL.

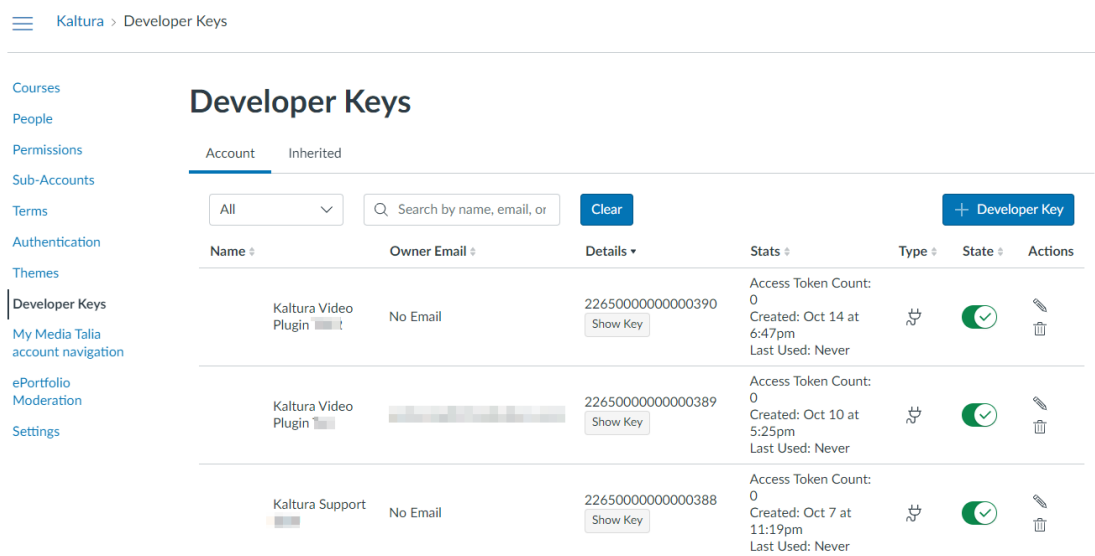
The JSON will be used in the next step to create the LTI developer key.

Step 3 - Create LTI developer key

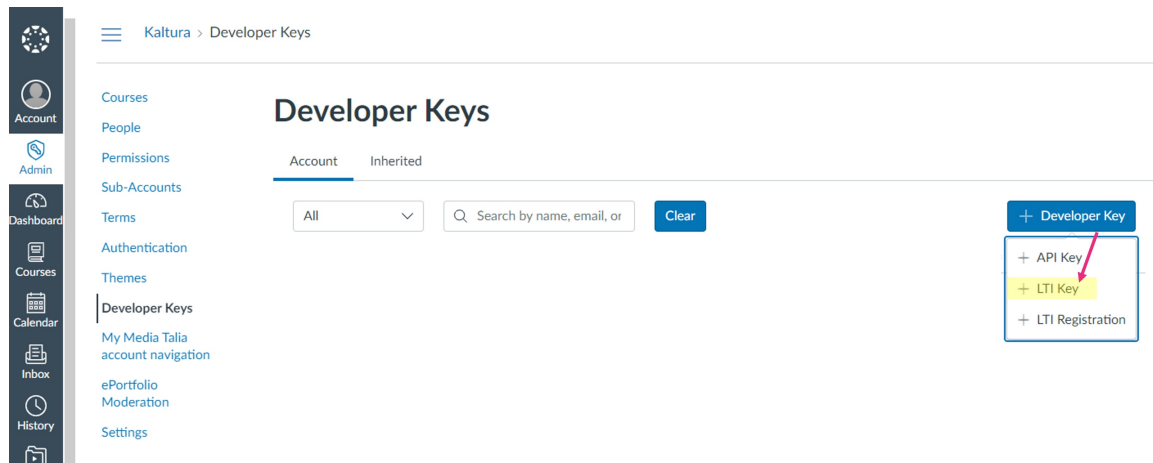
1. Log into your Canvas instance as an administrator.
2. Click the **Admin** tab.
3. Click the **Developer Keys** tab.



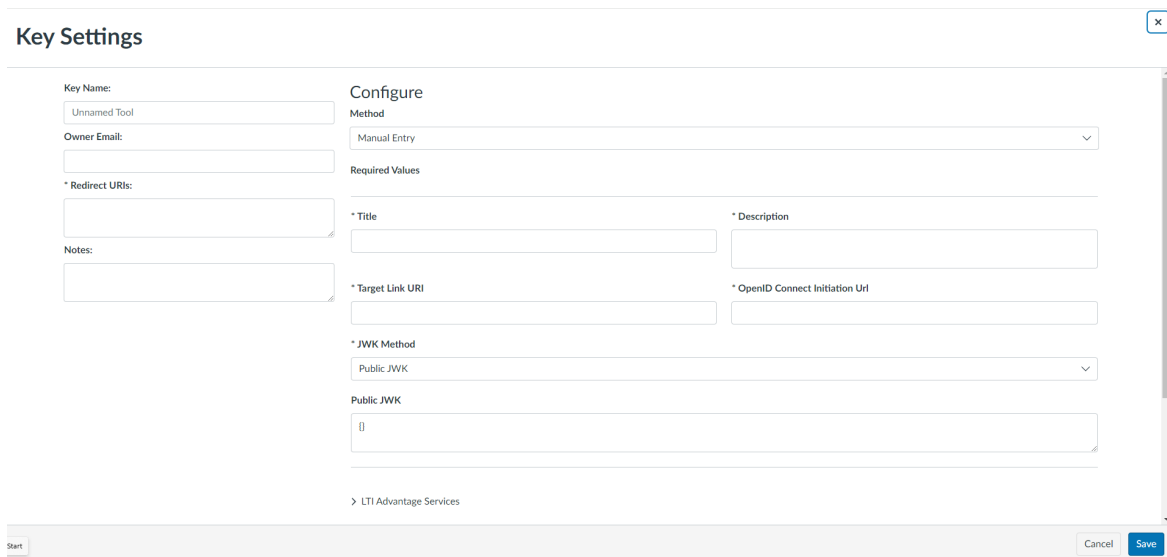
The **Developer Keys** page displays.



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

Key Name:

Owner Email:

* Redirect URIs:

Notes:

Configure

Method

Paste JSON
Manual Entry
Paste JSON
Enter URL

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

Key Name:

Owner Email:

* Redirect URIs:

Notes:

Configure

Method
Paste JSON

LTI 1.3 Configuration

Paste JSON code
between 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).

[Kaltura](#) > Developer Keys

[Courses](#)

[People](#)

[Permissions](#)

[Sub-Accounts](#)

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[Developer Keys](#)

[My Media Talia
account navigation](#)

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[Settings](#)

Developer Keys

Account Inherited

All

Search by name, email, or

Clear

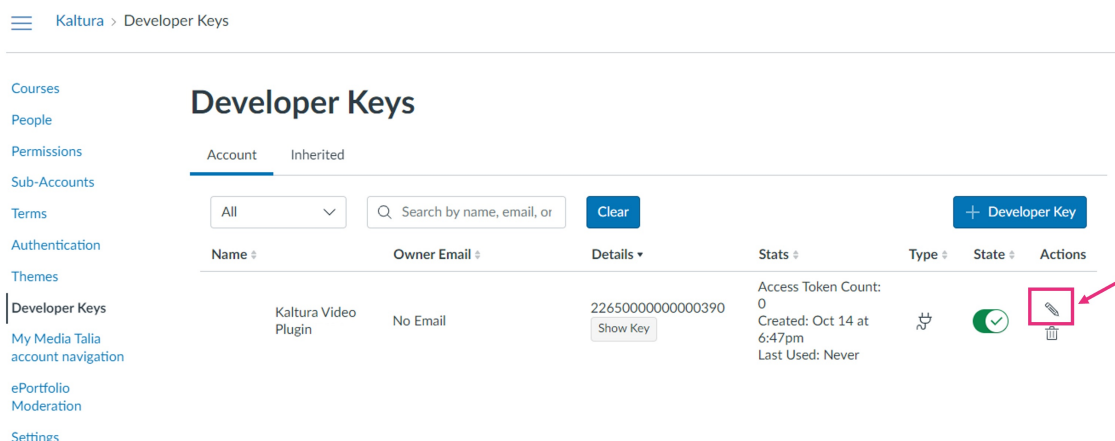
+ Developer Key

Name	Owner Email	Details	Stats	Type	State	Actions
Kaltura Video Plugin	No Email	22650000000000390 Show Key	Access Token Count: 0 Created: Oct 14 at 6:47pm Last Used: Never			

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.




Kaltura > Developer Keys

Developer Keys

Account Inherited

All Search by name, email, or Clear + Developer Key

Name	Owner Email	Details	Stats	Type	State	Actions
Kaltura Video Plugin	No Email	22650000000000390 Show Key	Access Token Count: 0 Created: Oct 14 at 6:47pm Last Used: Never			

Developer Keys
My Media Talia account navigation
ePortfolio
Moderation
Settings

The **Key Settings** page displays.

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

Key Settings

Key Name: Kaltura Video Plugin

Owner Email:

* Redirect URIs:

Notes:

Configure

Method: Manual Entry

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 the values in the LTI developer key additional settings

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

Additional Settings

Domain

.kaltura.com

Tool Id

https://

.kaltura.com

Icon Url

Text

Selection Height

Selection Width

Custom Fields

custom_canvas_user_id=\$Canvas.user.id
custom_canvas_course_id=\$Canvas.course.id
custom_canvas_user_login_id=\$Canvas.user.loginId

One per line. Format: name=value

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 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

Course Navigation

Global Navigation

Editor Button

Assignment Selection

▼

> 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 the 'Iti13ClientID' 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

Details column.

≡ Kaltura > Developer Keys

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Developer Keys

Account
Inherited

All
Search by name, email, or
Clear
+ Developer Key

Name	Owner Email	Details	Stats	Type	State	Actions
Kaltura Video Plugin	No Email	22650000000000390 Show Key	Access Token Count: 0 Created: Oct 14 at 6:47pm Last Used: Never	API	ON	Edit Delete

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

Iti13KeysUrl
JWKS

Iti13ClientID
client ID

Iti13ServicePrivateKey
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](#)

Details
Stats

22650000000000390
Show Key

Access Token Count: 0
Created: Oct 14 at 6:47pm
Last Used: Never

- 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:

- 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 **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 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.

≡ Kaltura > Developer Keys

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Account
Inherited

All
Search by name, email, or
Clear
+ Developer Key

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

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

Developer Keys

Account		Inherited				
All			Search by name, email, or	Clear	+ Developer Key	
Name	Owner Email	Details	Stats	Type	State	Actions
Kaltura Video Plugin Trif 2	No Email	22650000000000390 Show Key	Access Token Count: 0 Created: Oct 14 at 6:47pm Last Used: Never	~\$		
Kaltura Video Plugin Trif	andrei.vladtrifan@kaltura.com	22650000000000389 Show Key	Access Token Count: 0 Created: Oct 10 at 5:25pm Last Used: Never	~\$		
Kaltura Support EDU	No Email	22650000000000388 Show Key	Access Token Count: 0 Created: Oct 7 at 11:19pm Last Used: Never	~\$		
Kaltura Scoped Key KN	khalil.natour@kaltura.com	22650000000000387 Show Key URI: https://4288433-27.kaf.kaltura.com	Access Token Count: 9 Created: Sep 11 at 11:59am Last Used: 2024-09-23T13:28:21Z			
Kaltura Video Plugin KN	khalil.natour@kaltura.com	22650000000000386 Show Key	Access Token Count: 0 Created: Sep 11 at 11:46am	~\$		

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]?*

Turn On Developer Key
×

Are you sure you want to change the state of the developer key XXXXXXXXXX?

Cancel
Switch to On

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 Key** from the drop-down list.

☰

Kaltura > Developer Keys

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Developer Keys

My Media Talia account navigation

ePortfolio Moderation

Settings

Developer Keys

Account

Inherited

All ▾

Search by name, email, or

Clear

Name ▾	Owner Email ▾	Details ▾	Stats ▾	Type ▾
Kaltura Video Plugin	No Email	226500000000 <div>Show Key</div>	Access Token Count: 0 Created: Oct 14 at 6:47pm Last Used: Never	<div>+ Developer Key</div> <div>+ API Key</div> <div>+ LTI Key</div> <div>+ LTI Registration</div>
Kaltura Video Plugin		226500000000 <div>Show Key</div>	Access Token Count: 0 Created: Oct 10 at 5:25pm Last Used: Never	

The **Key Settings** page displays.

Key Settings

Key Name:

Unnamed Tool

Owner Email:

Redirect URIs:

Redirect URI (Legacy):

Vendor Code (LTI 2):

Icon URL:

Notes:

☐ Test Cluster Only

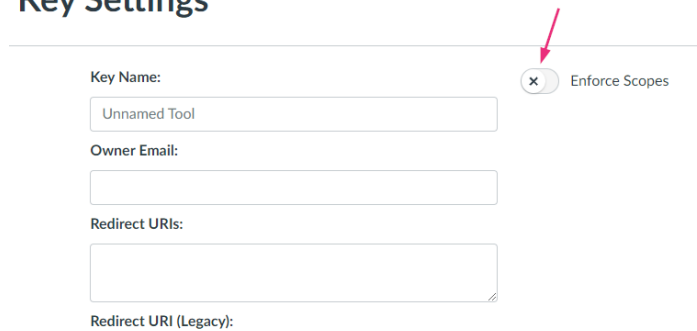
Client Credentials Audience

Canvas ▾

4. Enter the following:

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

Key Settings



Key Name:

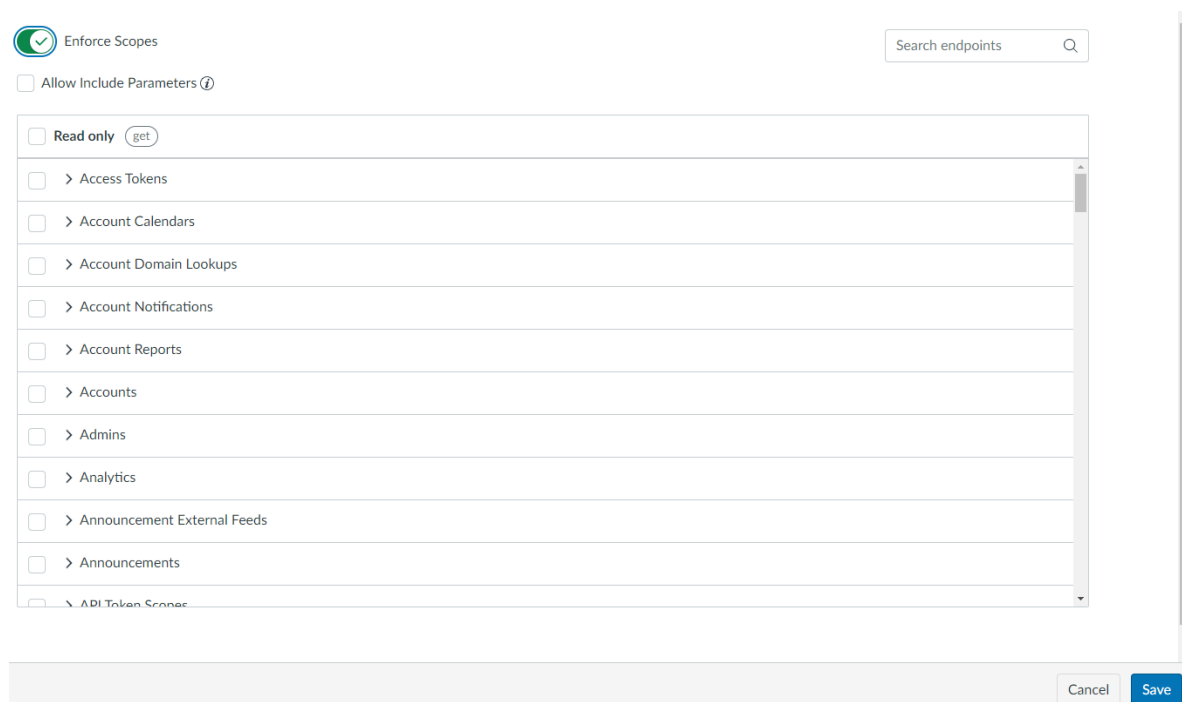
Owner Email:

Redirect URIs:

Redirect URI (Legacy):

☒ Enforce Scopes

The Enforce Scopes section expands.



☒ Enforce Scopes

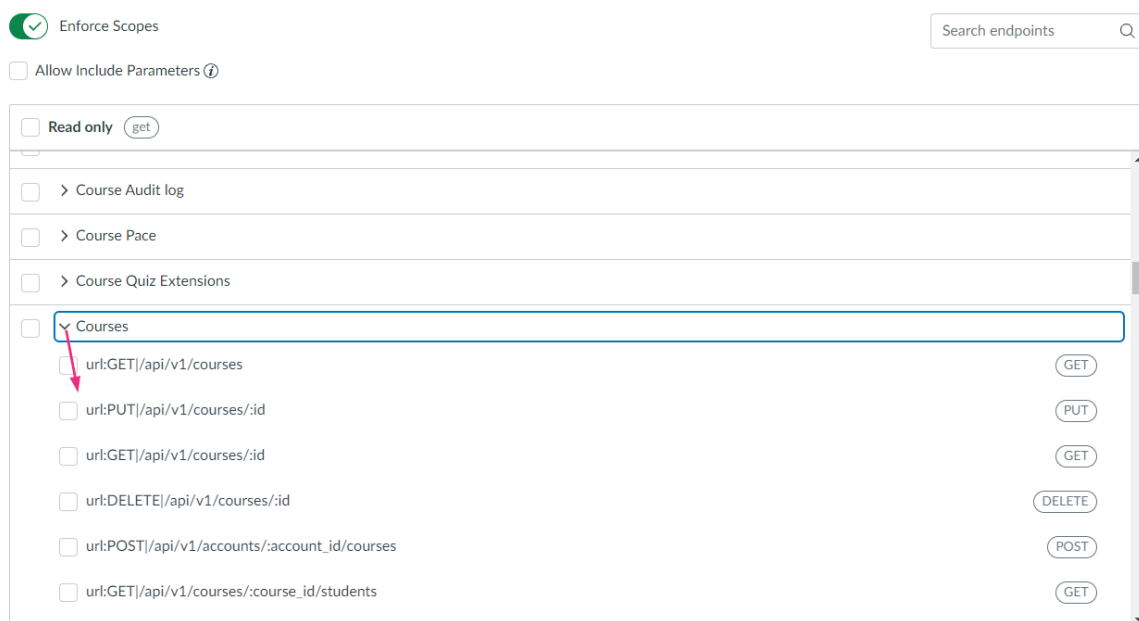
☐ Allow Include Parameters ⓘ

☐ Read only

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

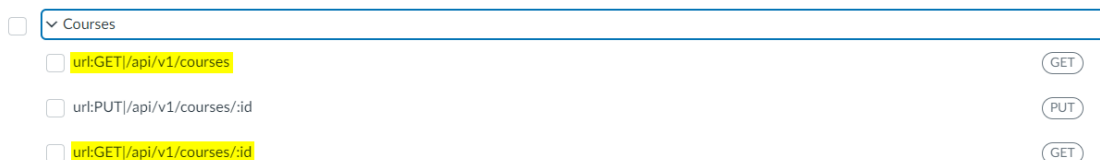
Leave **Allow Include Parameters** unchecked

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. Click **Save**.

9. 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]?*

Turn On Developer Key



Are you sure you want to change the state of the developer key ?

Cancel

Switch to On

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



Continue to Step 10.

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

The **Iti13ClientID** 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.

- Log into your Configuration Management page (https://{your_KAF_base_URL}/admin).
- Navigate to the [Canvas module](#) (https://{your_KAF_base_URL}/admin/config/tab/canvas).
- In the **useScopedKey** field, set to 'Yes'.

useScopedKey

Yes ▼

Your key should cover the scopes below:
uri:GET//api/v1/courses
uri:GET//api/v1/courses/id

customAppId

customAppKey

This will expose the **customAppId** and **customAppKey** settings.

- 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.

Developer Keys

Account
Inherited

All
Search by name, email, or
Clear
+ Developer Key

Name	Owner Email	Details	Stats	Type	State	Actions
Kaltura Video Plugin	No Email	<div>Client ID</div> 22650000000000390 <div>Show Key</div>	Access Token Count: 0 Created: Oct 14 at 6:47pm Last Used: Never		<div>ON</div>	<div></div>

Key

e3MY3THc4rZ9QuvuPhH9NHYaKulH4AV2ZXENVy3RuYvFXFTHVwReULPBfhv9FDQ

Hide Key

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

useScopedKey
Yes
Your key should cover the scopes below:
url: GET /api/v1/courses
url: GET /api/v1/courses/:id

customAppId
22650000000000390

customAppKey
3uYvFXFTHVwReULPBfhv9FDQ

- 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.

- Log into Canvas as an administrator and navigate to the [Developer Keys](#) page.

[Courses](#)
[People](#)
[Permissions](#)
[Sub-Accounts](#)
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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 Show Key	Access Token Count: 0 Created: Oct 14 at 6:47pm Last Used: Never	ST	✓	Edit Delete
Kaltura Video Plugin	andrei.vladtrifan@kaltura.com	22650000000000389 Show Key	Access Token Count: 0 Created: Oct 10 at 5:25pm Last Used: Never	ST	✓	Edit Delete
Kaltura Support	No Email	22650000000000388 Show Key	Access Token Count: 0 Created: Oct 7 at 11:19pm Last Used: Never	ST	✓	Edit 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			Q Search by name, email, or	Clear	+ Developer Key	
Name	Owner Email	Details	Stats	Type	State	Actions
Kaltura Video Plugin	No Email	22650000000000390 Show Key	Access Token Count: 0 Created: Oct 14 at 6:47pm Last Used: Never	ST	✓	Edit Delete

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

Courses
People
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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 URL's 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.

- 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


Accepi


ACCESS VIDEO
ON DEMAND


acclaim

The External Apps page displays.

- Click **View App Configurations**.

[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


Filter by name




AcadSource



Accepi



ACCESS VIDEO
ON DEMAND



acclaim

A list of apps displays.

6. Click **+App**.

[Settings](#)
[Integrations](#)
[Notifications](#)
[Admins](#)
[Announcements](#)
[Apps](#)






External Apps

+ App

View App Center

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.](#)

Name	Add to RCE toolbar ?	
Admin Analytics	NA	
canvaslti13f		
canvasl		

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

Cancel

Submit

- 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

- 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

22650000000000390



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

Cancel

Submit

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](#).