



## Canvas LTI 1.3/LTI Advantage Integration Guide for Administrators

Version 2.0.1

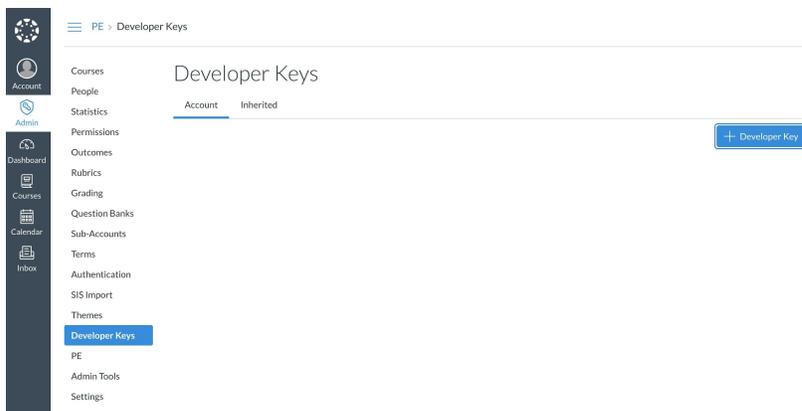
This guide is for Canvas system administrators and describes how to integrate Poll Everywhere with a Canvas LMS system using LTI 1.3 and LTI Advantage.

### Enable permissions

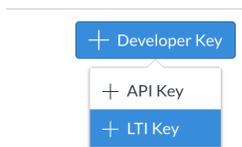
The “Developer Keys - manage” permission is necessary for the Canvas system administrator who will be performing the initial setup of Poll Everywhere on the LMS. The individual performing this setup will also need to be an Account Owner or Account Admin on your University’s Poll Everywhere account.

### Create a developer key

1. Start by logging into Canvas as the Canvas administrator.
2. Navigate to the Admin page of Canvas, and click over to the Developer Keys section.

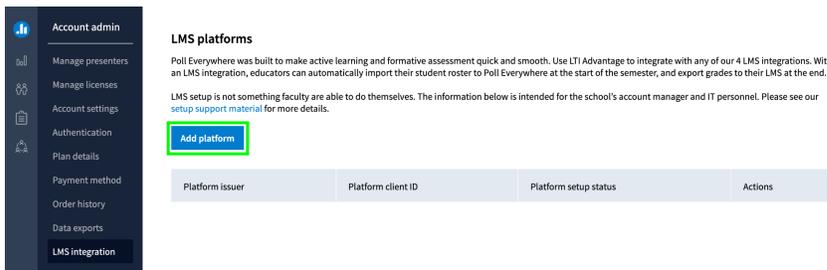


3. Click the button in the top right to create a new Developer Key, and select “LTI key” in the drop down to bring up the Key Settings page.

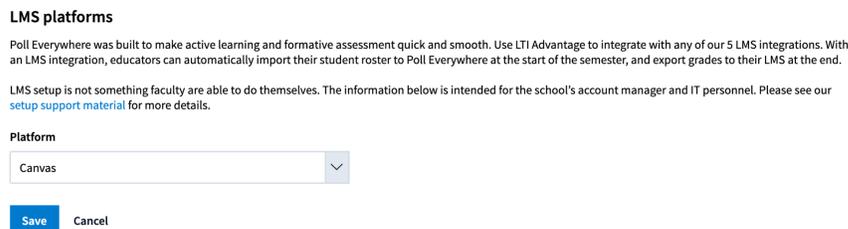


4. Open a new tab, navigate to PollEverywhere.com, and log in with an Account Owner or Admin profile.

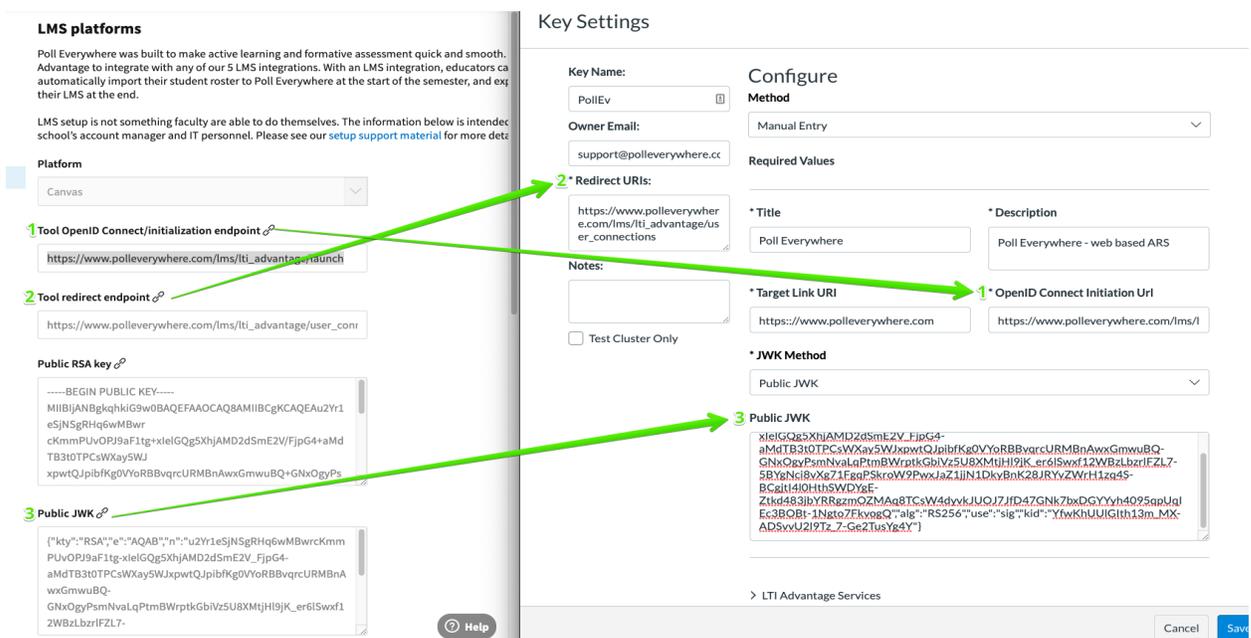
5. Within your Poll Everywhere account, click on the gear icon in the bottom left-hand corner followed by LMS Integration. This is the page where you will manage your LTI 1.3 Platform. Select Add platform.



6. On the next page, select Canvas from the dropdown list of platform options, and Save to proceed to the Platform details page.



7. The Platform details page will provide you with the information you need to create the Developer Key setup on Canvas. Copy the information from the Poll Everywhere Platform details page into your Canvas Developer Key set up. You can use the copy link icon next to each field for easy transposing.



Additional required fields:

- **Title** - Title for the LTI Key, up to your discretion
- **Description** - Description of the LTI Key, up to your discretion
- **Target Link URL** - This will be the Poll Everywhere homepage: <https://www.polleverywhere.com>

Optional fields

- **Key Name** - You may give the key a name to help you find it more easily in the future
  - **Owner Email** - Contact email for key creator or maintainer
8. You will need to add an iframe parameter to the OpenID Initiation url. Instead of using the link directly copied from Poll Everywhere, you will need to add `?iframe=true` to the end of the URL, so that the full link reads: [https://www.polleverywhere.com/lms/lti\\_advantage/launch?iframe=true](https://www.polleverywhere.com/lms/lti_advantage/launch?iframe=true)

### Key Settings

The screenshot shows the 'Configure' form for an LTI Key. On the left, there are input fields for 'Key Name' (Poll Everywhere), 'Owner Email' (chad@polleverywhere.com), '\* Redirect URIs' (https://www.polleverywhere.com/lms/lti\_advantage/user\_connections), and 'Notes'. On the right, there are dropdown menus for 'Method' (Manual Entry) and '\* JWK Method' (Public JWK). In the center, there are input fields for '\* Title' (Poll Everywhere), '\* Description' (Poll Everywhere), and '\* Target Link URI' (https://www.polleverywhere.com/). The '\* OpenID Connect Initiation Url' field is highlighted with a blue border and contains the URL 'olleverywhere.com/lms/lti\_advantage/launch?iframe=true'.

9. Next, you need to update the placements below the 'Additional Settings' section on the developer key page. The only placement necessary for a course level navigation launch is 'Course Navigation.' As you type, you should see the option autocomplete.

### Placements

The screenshot shows a dropdown menu titled 'Placements'. The menu is open, and the option 'Course Navigation' is selected and highlighted. There is a small 'x' icon next to the selected option and a downward arrow on the right side of the dropdown.

10. In Canvas below where you completed the key field, click 'LTI Advantage Services' to expand the Developer Key permission options. Enable the following options:
- a. Can create and view assignment data in the gradebook associated with the tool.
  - b. Can view assignment data in the gradebook associated with the tool.
  - c. Can view submission data for assignments associated with the tool.
  - d. Can create and update submission results for assignments associated with the tool.
  - e. Can retrieve user data associated with the context the tool is installed in.

## Key Settings

▼ 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 create subscription to data service data.
- Can show subscription to data service data.
- Can update subscription to data service data.
- Can list subscriptions to data service data.
- Can destroy subscription to data service data.
- Can list categorized event types.
- Can view feature flags

Cancel Save

11. Below the LTI Advantage Services section, expand the option for 'Additional Settings.' Expand open this section and select 'PUBLIC' for the Privacy Level

Can destroy subscription to data service data.

Can list categorized event types.

Can view feature flags

▼ Additional Settings

**Domain** **Tool Id**

**Icon Url** **Text** **Selection Height** **Selection Width**

**Custom Fields**

One per line. Format: name=value

**Privacy Level**

PUBLIC  PRIVATE

Cancel Save

- Save the Key Settings at the bottom of the page, and you will return to the Developer Keys page. Click 'On' underneath the State column to enable the Developer Key

The screenshot shows the 'Developer Keys' page in the Canvas LMS interface. The left sidebar contains navigation options like Account, Admin, Dashboard, Courses, Calendar, and Inbox. The main content area shows a table of developer keys. The 'Unnamed Tool' key is highlighted with a green box around the 'ON' button in the 'State' column.

Name	Owner Email	Details	Stats	Type	State	Actions
Unnamed Tool	No Email	10000000000004 <a href="#">Show Key</a>	Access Token Count: 0 Created: Aug 8 at 1:49pm Last Used: Never	🔑	<input checked="" type="checkbox"/> ON <input type="checkbox"/> OFF	<a href="#">Edit</a> <a href="#">Delete</a>

- Copy the number underneath the Details column from the Developer Key page, and save it to a convenient place. You will need this number two more times during the setup.

The screenshot shows the 'Developer Keys' page in the Canvas LMS interface. The 'Details' column for the 'Unnamed Tool' key has a green box around the number '10000000000004'.

Name	Owner Email	Details	Stats	Type	State	Actions
Unnamed Tool	No Email	10000000000004 <a href="#">Show Key</a>	Access Token Count: 0 Created: Aug 8 at 1:49pm Last Used: Never	🔑	<input checked="" type="checkbox"/> ON <input type="checkbox"/> OFF	<a href="#">Edit</a> <a href="#">Delete</a>

- Back over on the Poll Everywhere, you will need to complete the remaining fields on the Platform edit page. Complete the fields using the following information.

- Issuer:** The issuer will be 'https://canvas.instructure.com'. If you are using a test instance of Canvas, use 'https://canvas.test.instructure.com'
- Client:** The number that you copied from the Canvas Developer Key page
- Public key endpoint:** <root>/api/lti/security/jwks

- **OIDC authentication endpoint:** <root>/api/lti/authorize\_redirect
- **Access token endpoint:** <root>/login/oauth2/token

**Note:** For the fields containing a <root>, <root> will be the homepage of your Canvas instance. For example, if you access your canvas via <https://polleverywhere-university.instructure.com> then that is your <root>, and your Public Key endpoint would be:

<https://polleverywhere-university.instructure.com/api/lti/security/jwks>

```
W1/F0WnjPfAEEh
VmRTru5Q+IU3b9p1WnWRlIF0vN5ZOwohEGKV+bmffsgX/CU
```

**Public JWK** [🔗](#)

```
{"kty":"RSA","e":"AQAB","n":"tnQJSkrcw4Y3iq4lMq5fTufUwu
Ot9xHn4mSSAEVfWh8v_z71PJZUauGFY6lifDw9YIt6VW1_F0
WnjPfAEEhVmRTru5Q-IU3b9p1WnWRlIF0vN5ZOwohEGKV-
bmffsgX_CUqaK7k_QZxpglJV2kQuwuD6UA17cgU-
Bsi6Yy_rQRqV6_29vV3Nf6Kg4mKGHMVUvMdYX4Gxju5pcA2
uFjnUnJXE60M1rDlnVS74UaqKwjMO5pc869fLStA_a_dm-
```

**Issuer**

<https://canvas.instructure.com>

**Client**

151620000000000002

**Public key endpoint**

<https://pe-university.instructure.com/api/lti/security/jwks>

**Oidc authentication endpoint**

[https://pe-university.instructure.com/api/lti/authorize\\_redirect](https://pe-university.instructure.com/api/lti/authorize_redirect)

**Access token endpoint**

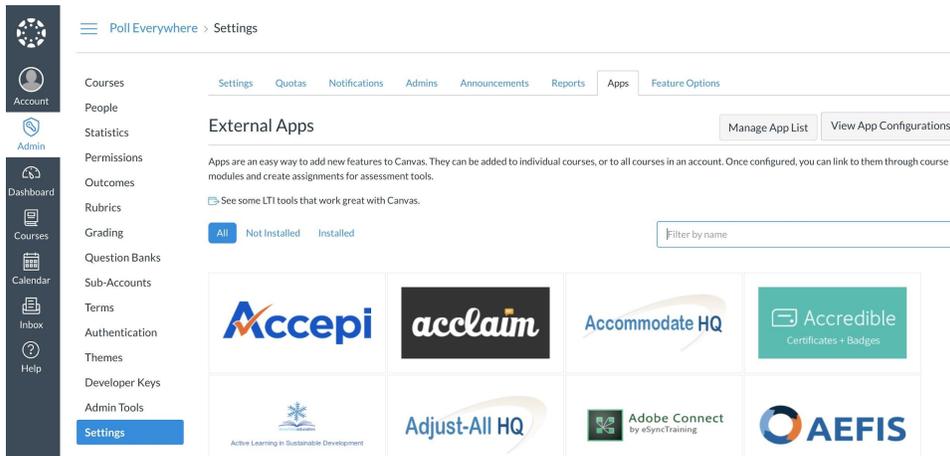
<https://pe-university.instructure.com/login/oauth2/token>

**Save** Cancel

Click Save once you have completed all the fields. The set-up on Poll Everywhere is now complete.

**Adding Poll Everywhere as an App in Canvas**

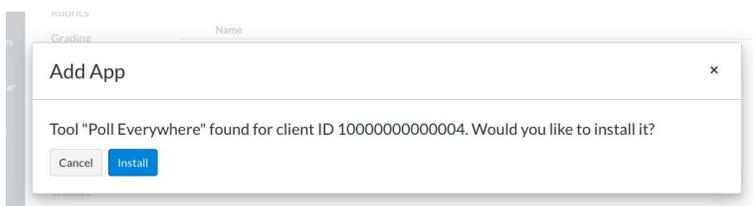
1. In Canvas, Go to Settings > Apps > View App Configurations to add an External App.



2. Click the '+ App' button at the top right to bring up the Add App popup. Select 'By Client ID' in the Configuration Type dropdown, and then add your Client ID into the next field. The Client ID is the number you copied from the Details column of the Developer key.



3. You should now see a subsequent message indicating that a tool was found and needs installing. Click the Install button to continue.



Now that the LTI 1.3 setup is complete on both the Poll Everywhere and Canvas side, it is ready to be used by your faculty.