

Installing JB Learning's LTI Advantage in Canvas

This document provides steps for configuring and enabling JB Learning's LTI 1.3 within your integrated Canvas Learning Management System (LMS). **Note**, installation requires System Administrator permissions and JB Learning's LTI Advantage email.

Summary of Steps

- Create a System or Sub Account-level LTI Developer Key and API Developer Key.
- Complete the integration using your Pass Key and URLs provided in the email.
- Add JB Learning's External App to your site/courses as needed.

1. Installing the application requires System Administrator permissions to create Developer Keys. Log in as an Administrator and browse to **Admin -> Developer Keys**. Then click on the **+ Developer Key** button in the upper-right corner and select **LTI Key**.

Name	Owner Email	Details	Stats	Type
PROD-CS-LTI-1.3_Tool mini	No Email	17173000000000290 Show Key	Access Token Count: 0 Created: Sep 14 at 12:38pm Last Used: Never	🔄
diwakar_local_key	No Email	17173000000000289 Show Key	Access Token Count: 0 Created: Sep 14 at 2:37am Last Used: Never	🔄
reni_cs_stg_key	No Email	17173000000000288 Show Key	Access Token Count: 0 Created: Sep 13 at 5:26am Last Used: Never	🔄
ManasaLTI_1.3_NASM	No Email	17173000000000287 Show Key	Access Token Count: 0 Created: Sep 5 at 9:11am Last Used: Never	🔄
reni_nasm_qa_key	No Email	17173000000000286 Show Key	Access Token Count: 0 Created: Sep 4 at 7:15am Last Used: Never	🔄
reni_local_key	No Email	17173000000000285 Show Key	Access Token Count: 0 Created: Sep 1 at 9:09am Last Used: Never	🔄
Farhan Local Key	No Email	17173000000000284 Show Key	Access Token Count: 0 Created: Aug 12 at 1:55am Last Used: Never	🔄

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2. On the following page, enter “JBL Integration” in the **Key Name** field provided (this name is a recommendation). Next, under the Configure section, use the **Method** dropdown menu to select **Enter URL**. Copy and paste the “Canvas configuration URL” that was provided in the JB Learning email in the **JSON URL** field and click **Save**.

Key Settings

Key Name: JBL Integration

Owner Email:

Redirect URIs:

Notes:

Configure

Method: Enter URL

JSON URL: https://qa-lti.jblearning.com/lti_1_3/230ce0e3-d31f-4928-a253-bd2e1119f8e8/platform_config.json

Cancel Save

3. On the Canvas Developer Keys page, toggle **On** the JBL Integration Key by flipping the corresponding button to its right under the **State** column. Then click on the **pencil icon** under the key's **Actions** column.

People		Account	Inherited					+ Developer Key	
Name	Owner Email	Details	Stats	Type	State	Actions			
JBL Integration	No Email	17173000000000291 Show Key	Access Token Count: 0 Created: Sep 20 at 10:31am Last Used: Never		<input checked="" type="checkbox"/>				

4. On the Key Settings page, change the Configure **Method** drop-down menu to **Manual Entry**. Several of the remaining fields will be auto filled by the previous JSON URL entry will now display. In the **Redirect URIs** section on the left, please add the following entry, ensuring there are three entries in the Redirect URIs box:

- https://lti.jblearning.com/lti_1_3/launch
- https://lti.jblearning.com/lti_1_3/deep_link
- https://lti.jblearning.com/lti_1_3/oauth2response
- https://lti.jblearning.com/lti_1_3/enrolled_courses

Then, click **Save** at the bottom of the page.



Key Settings

Key Name: JBL Integration - QA

Owner Email:

Configure Method: Manual Entry

* Redirect URIs:

- https://lti.jblearning.com/lti_1_3/launch
- https://lti.jblearning.com/lti_1_3/deep_link
- https://lti.jblearning.com/lti_1_3/oauth2response
- https://lti.jblearning.com/lti_1_3/enrolled_courses

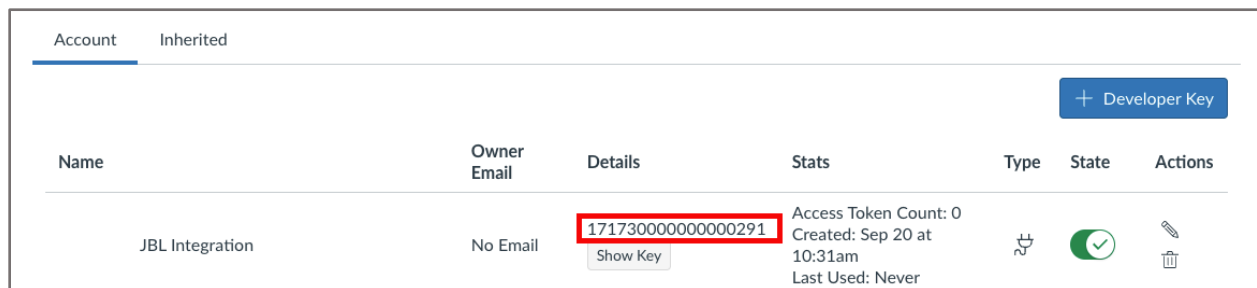
* Title: JBLearning Courses

* Description: JBLearning Courses

* Target Link URI: https://qa-lti.jblearning.com/lti_1_3/launch

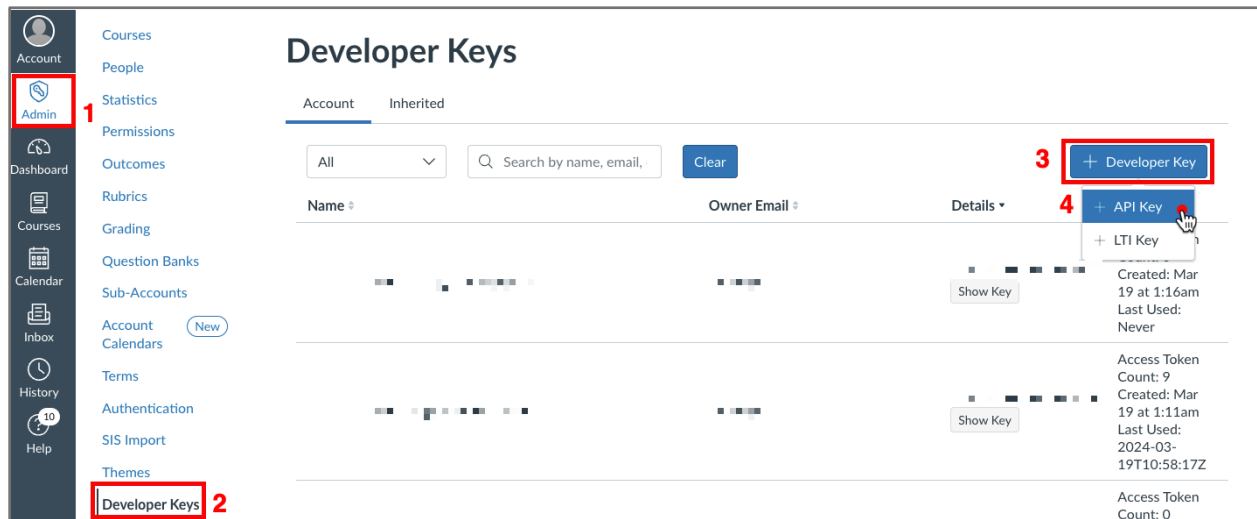
* OpenID Connect Initiation Uri: https://qa-lti.jblearning.com/lti_1_3/authorize

5. Highlight and **copy** your **Client ID**, which is the 18-digit number shown under the **Details** column. It will be added to JB Learning’s admin system in a later step.



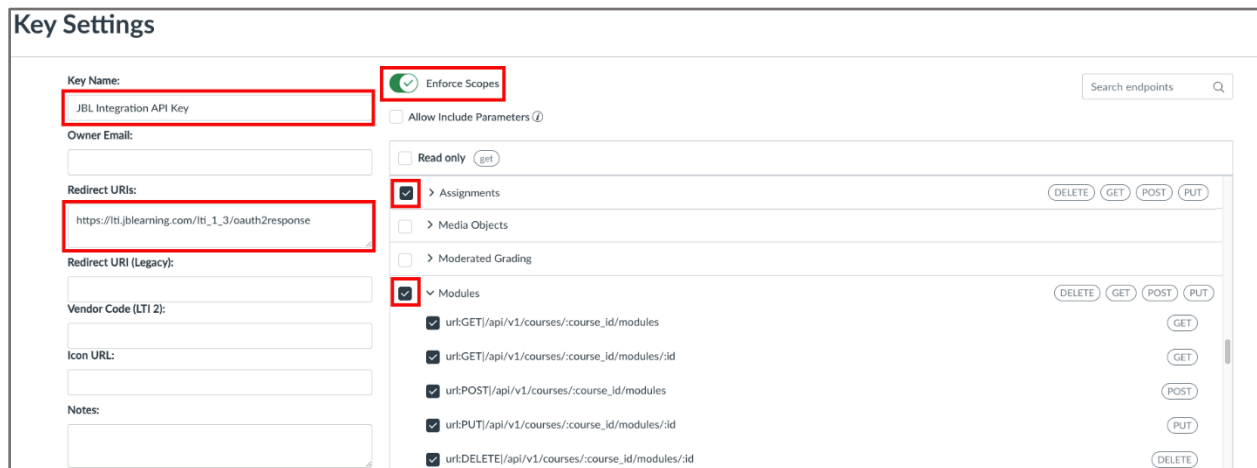
Name	Owner Email	Details	Stats	Type	State	Actions
JBL Integration	No Email	17173000000000291 Show Key	Access Token Count: 0 Created: Sep 20 at 10:31am Last Used: Never		✔	

- Next, select the **+ Developer Key** button in the upper-right corner again. This time, choose **+API Key** option from the menu.



- In the following page, please enter the following values in the associated fields:
 - Key Name:** JBL Integration API Key
 - Redirect URIs:** https://lti.jblearning.com/lti_1_3/oauth2response
 - Enforce Scopes:** Toggle on and do NOT select Read only. Check the boxes next to the **“Assignments”** and **“Modules”** scope.

Click **Save** at the bottom.



8. Toggle the **State** of this Key to enabled, then copy/record the newly created **API key** under the Details column. This is the **API Client ID** that is required in Step 11 (this is different than the LTI Client ID, you'll need both!).

Developer Keys

Account Inherited

All Clear + Developer Key

Name	Owner Email	Details	Stats	Type	State	Actions
JBL Integration API Key	No Email	8142000000000235 Show Key	Access Token Count: 1 Created: Feb 24 at 11:40am Last Used: 2024-04-08T13:20:33Z		Enable	🗑️

9. Click **Show Key** and copy/record the value that is revealed. This **API Key** is also needed to complete Step 11 in addition to the API's Client ID from Step 8.

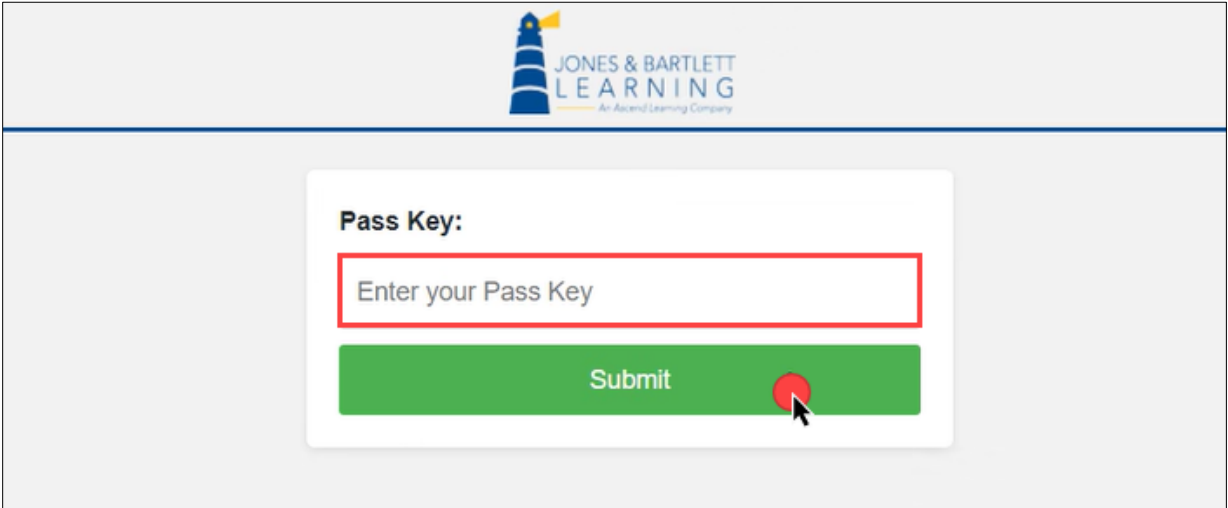
Developer Keys

Account Inherited

All Clear + Developer Key

Name	Owner Email	Details	Stats
JBL Integration API Key	No Email	uzHU10zPfvT7HbZj46Mc2qrs9g9HUwAwCpizOsHHMgAPRlFNoFYtF7kiRKcZ63WZ Hide Key	19 at 12:59pm Last Used: Never

10. In another web browser tab or window, open the Self-Service Page linked within the JB Learning email you received. Then enter the **Pass Key** in the field provided and click **Submit**.



The screenshot shows the top of a web page with the Jones & Bartlett Learning logo. Below the logo is a white form box. Inside the form box, the text "Pass Key:" is followed by a red-bordered input field containing the placeholder text "Enter your Pass Key". Below the input field is a green "Submit" button with a red circle and a mouse cursor pointing to it.

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11. Submitting the Pass Key opens JB Learning's **Edit Platform** page. **Copy and Paste** the Client ID into the **Client Id** field provided here. Remaining fields should be completed as follows:

- **Base URI:** [Your Canvas URL/domain]
- **Login Authorization Endpoint:**
https://canvas.instructure.com/api/lti/authorize_redirect
- **JWKS Endpoint:** [this field must be intentionally left blank/empty]
- **Access Token Endpoint:** <https://canvas.instructure.com/login/oauth2/token>
- **Canvas Base URL:** [Your Canvas URL/domain]
- **Canvas API Client Id:** [Your Canvas API Client ID (copied in Step 8)]
- **Canvas API Client Key:** [Your Canvas API Key (copied in Step 9)]

Then, click **Save** at the bottom of the page to submit the above information.

The screenshot shows the 'Edit Platform' form with the following fields and instructions:

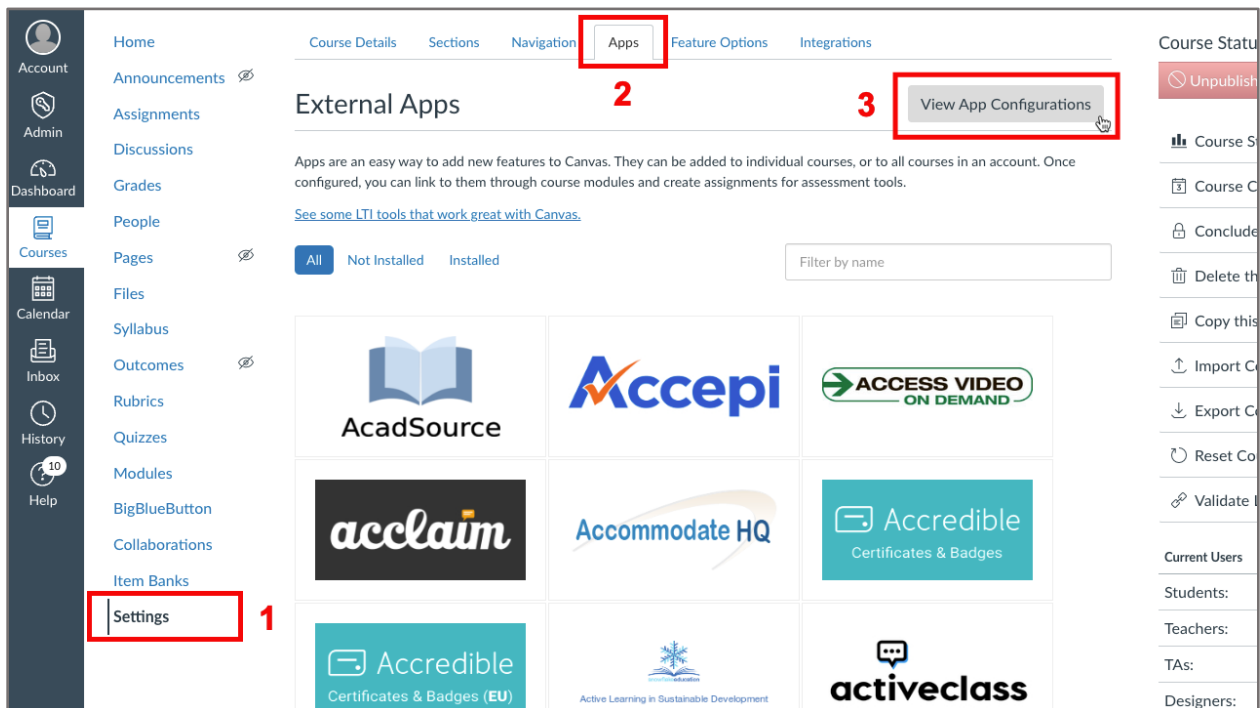
- Name:** Canvas
- Client Id:** 1234. Instruction: Enter your ClientID from the Developer Key that was previously created
- Base URI:** https://jblearning.instructure.com. Instruction: Enter your Canvas URL
- Login Authorization Endpoint:** https://canvas.instructure.com/api/lti/authorize_redirect
- JWKS Endpoint:** (blank). Instruction: Leave blank
- Access Token Endpoint:** https://canvas.instructure.com/login/oauth2/token. Instruction: Enter the respective URLs provided in the written instructions
- Canvas Api Base Url:** https://jblearning.instructure.com. Instruction: Enter your Canvas URL
- Canvas Api Client Id:** 123456789123456789. Instruction: Enter your Canvas API key from the Developer Key that was previously created
- Canvas Api Client Secret:** af1kwjerloikjaioivjoj324lkvcjo2i3j5r250jvlkmc4f29nmwflncl2n521234. Instruction: Enter your Canvas API Secret

A 'Save' button is located at the bottom right of the form.

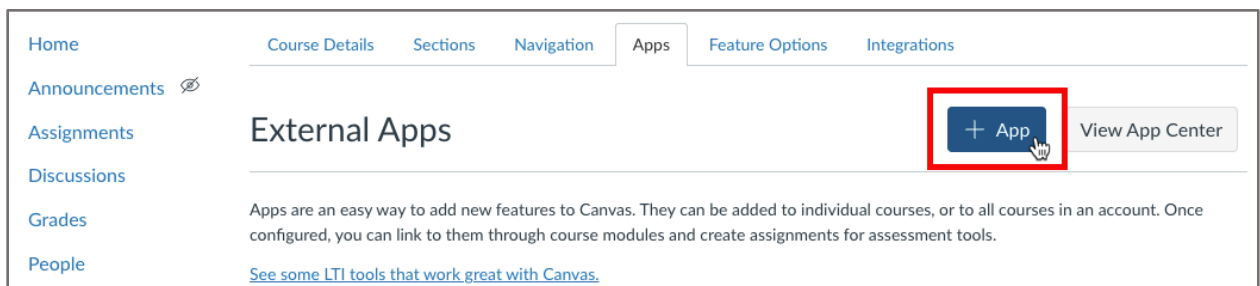
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12. After clicking **Save**, a message of “Platform was successfully updated.” displays at the top of the screen, and you may close the window.

13. The original LTI **Client ID** you created is used to add the LTI App to the applicable Canvas course. Depending on your preferences, the External App may be added to an individual course or globally at the system level. To add the App, navigate to course-level or Admin-level **Settings**. Then select the **Apps** tab at the top of the page and click the **View App Configuration** button towards the top-right corner.



14. On the **External Apps** page that opens, click on the **+App** button.



15. Upon completing the prior step, a pop-up screen will show up. From the Configuration Type drop-down menu option, please select the **By Client ID** option. Insert your **Client ID** in the resulting space and click on Submit.

Add App

Configuration Type

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

Consumer Key

Shared Secret

Add App

Configuration Type

By Client ID

Client ID

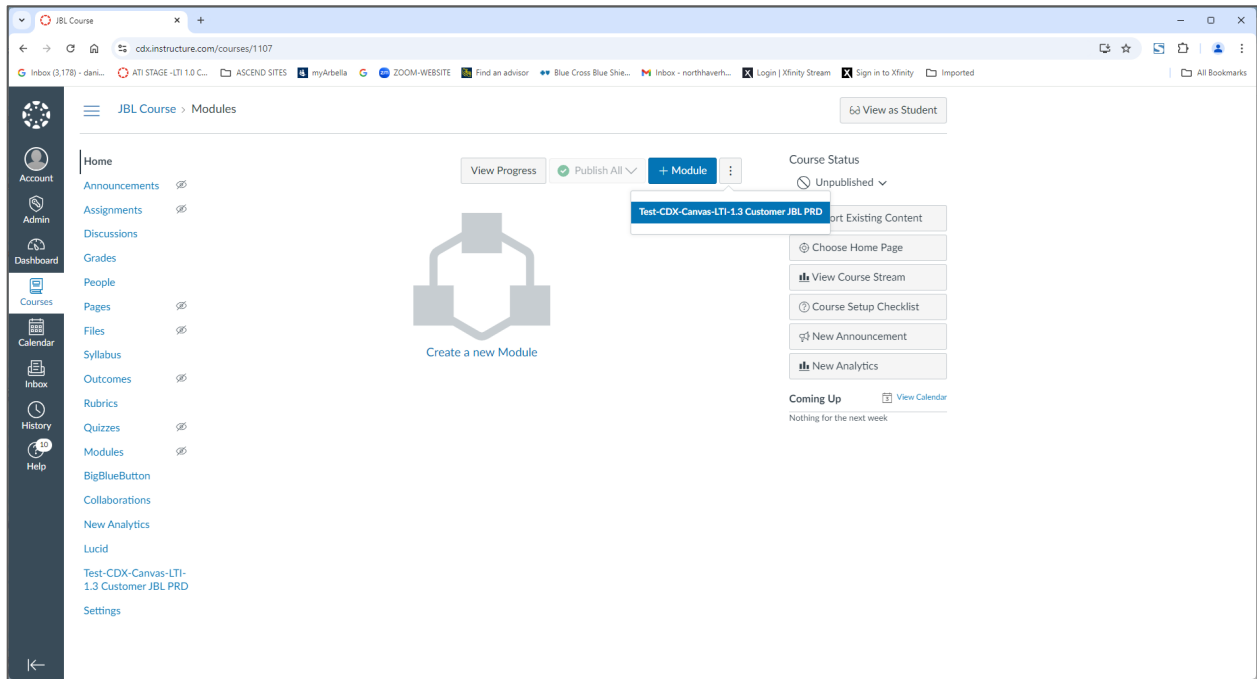
17173000000000291

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

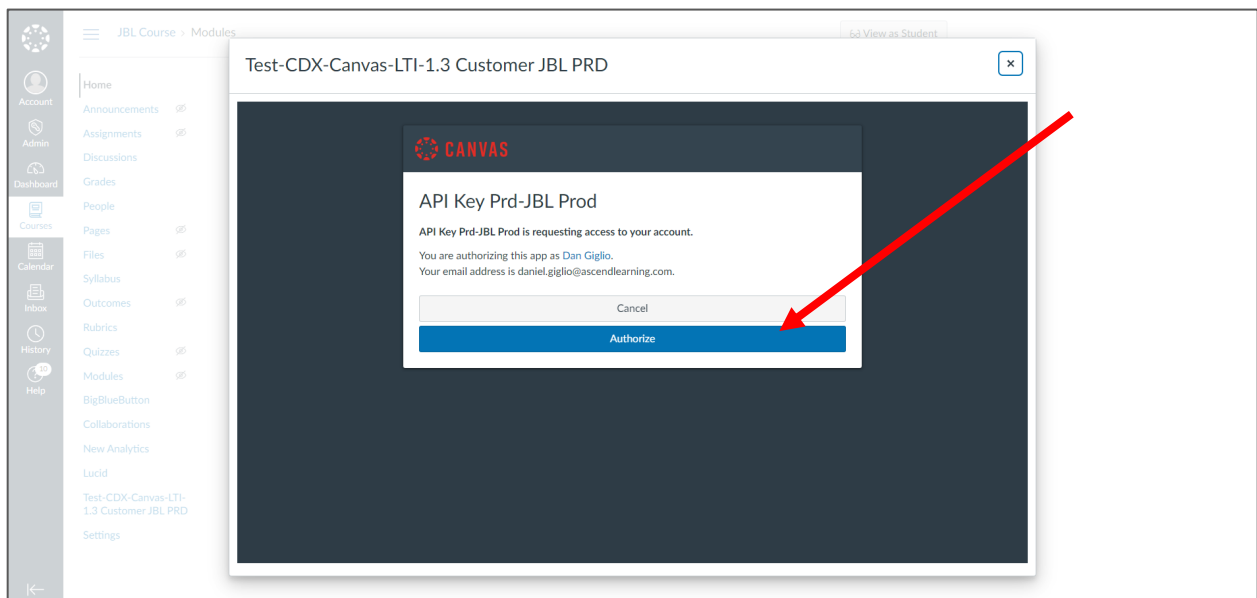
Cancel Submit

Authorization of the Canvas API Key by a Canvas LMS Administrator

1. After completing the steps above, your tool is now available in canvas. Within the Canvas LMS system, click on the three dots to add the JB Learning LTI Tool for Canvas.

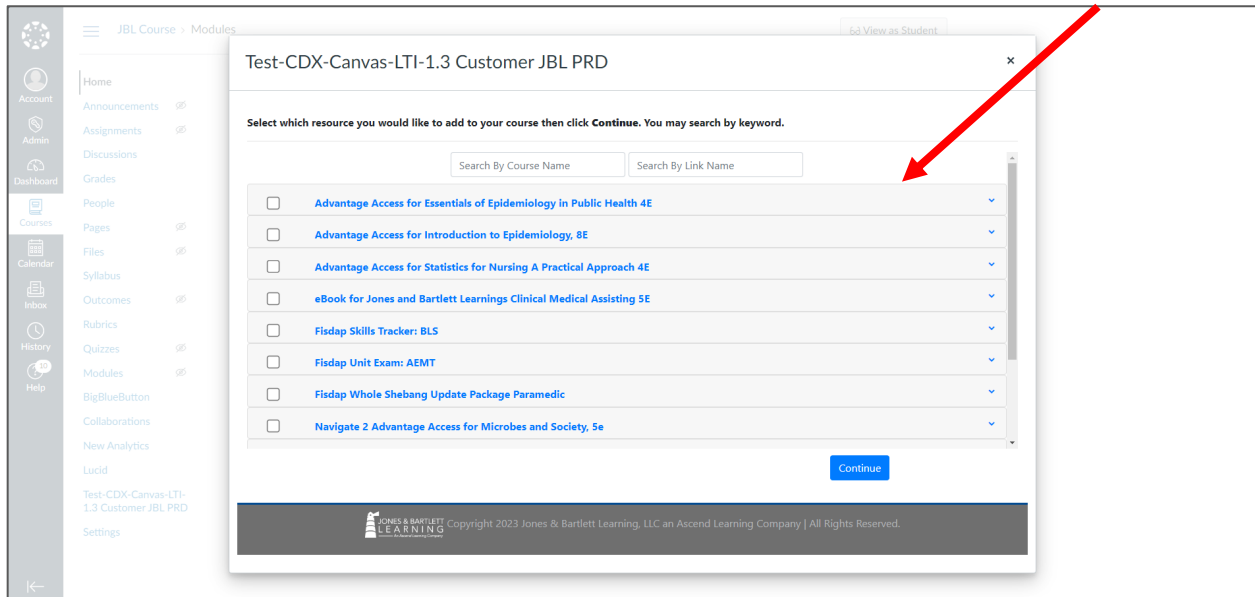


2. Please note that this API Key Authorization step must be performed by a Canvas LMS Administrator in an Administrator role. It is only preformed once for all courses at the institution.



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- Once authorized by the administrator, all available courses for the institution will appear in the Resource Manager.



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