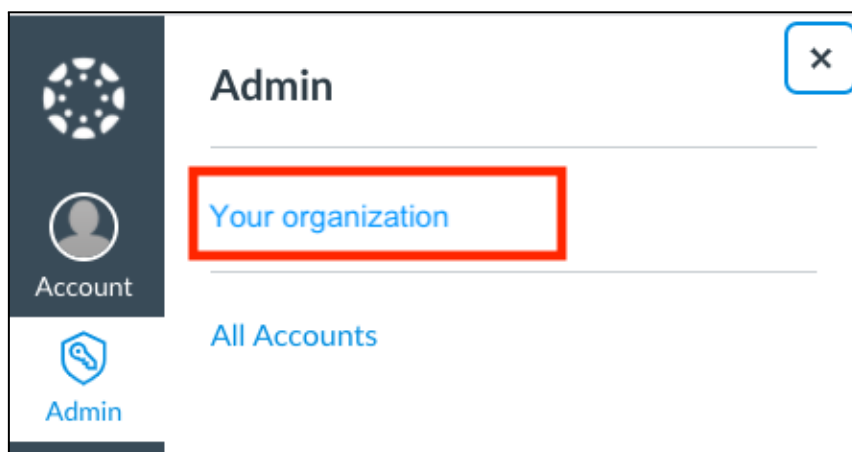


# Administrator's guide to set up courses with Zosimos in Canvas

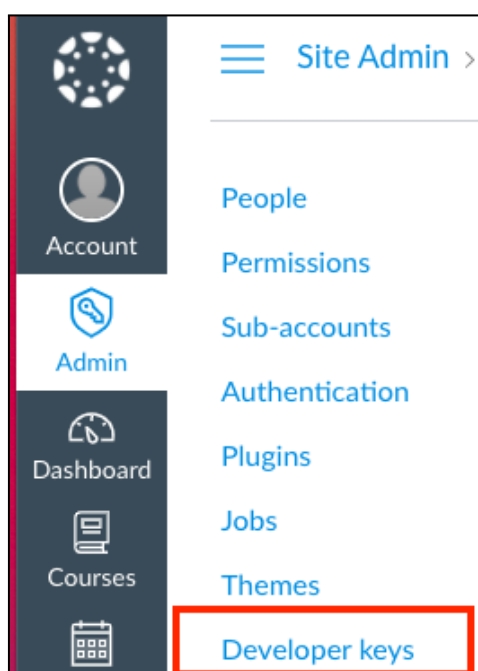
These instructions are for LMS administrators who use Canvas as their LMS and handle the LTI tool registrations at their school.

## The site and course setup: add Zosimos as an external tool.

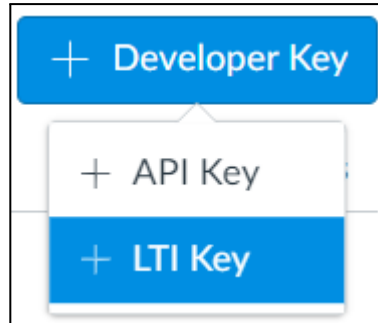
1. Log in as LMS administrator and select choose the account of the appropriate organization.



2. Select the 'Developer keys' tab



3. Add Zosimos as a new LTI tool.



4. Fill The form with the following data. Make sure that no extra characters (for example spaces) are copied to the configuration settings form fields.

Redirect URIs: <https://zosimos.io/lti>  
Target Link URI: <https://zosimos.io/lti>  
OpenID Connect Initiation Url: <https://zosimos.io/lti/login>  
JWK Method: Public JWK Url  
Public JWK URL: <https://zosimos.io/lti/keys>

5. The following LTI Advantage Services need to be enabled:

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

▼ 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
- Can view Progress records associated with the context the tool is installed in

At 'Additional Settings' the Privacy level needs to be set to 'PUBLIC':

Privacy Level

PUBLIC  PRIVATE

In the Placements section, Assignment Selection should be added (with the default settings) for the tool to appear in the external tool list when creating assignments.

Placements

Account Navigation × Link Selection × Assignment Selection ×

6. After completing the registration in Canvas, please send back the following data for the Zosimos side registration to [zosimos-support@chemaxon.com](mailto:zosimos-support@chemaxon.com) :

- Number of students
- Url, e.g.: <https://canvas.instructure.com>
- Client ID, e.g.: 10000000000001
- Authentication endpoint, e.g.: [https://canvas.example.com/api/lti/authorize\\_redirect](https://canvas.example.com/api/lti/authorize_redirect)

- Access token endpoint, e.g.: <https://canvas.example.com/login/oauth2/token>
- Authentication configuration method, e.g.: JWK\_SET
- Authentication configuration key, e.g.: <https://canvas.example.com/api/lti/security/jwks>

Both registration steps are required for the tool to work. It is normal to see the UNREGISTERED\_PLATFORM error message if the second registration is still pending.

The client ID can be copied from the details of the developer keys:

Name	Owner email	Details	Stats	Type	State	Actions
Zosimos tool developer key	No email	XXXXXXXXXXXXXXXXXX Show key	Access Token Count: 0 Created: 20 Jul at 1:29 Last Used: Never	🔗	ON OFF	📄 🗑️

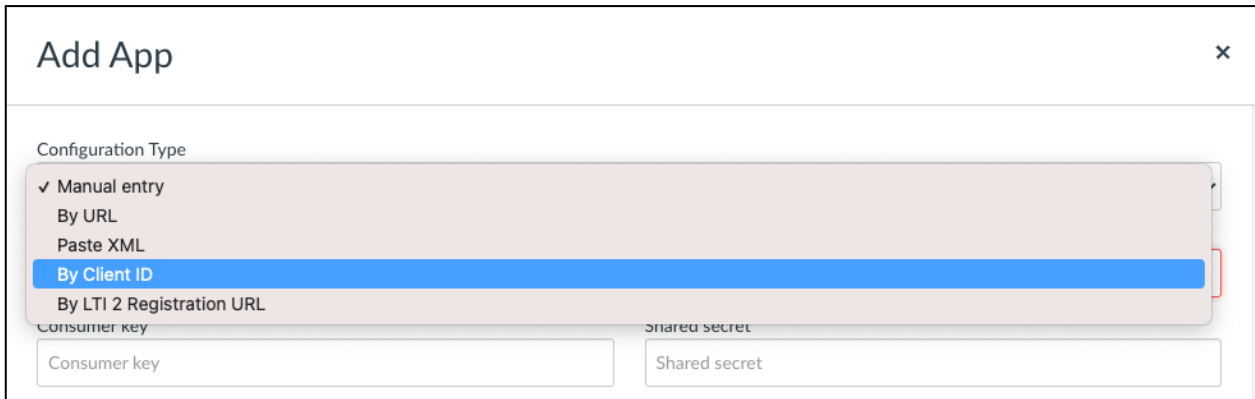
7. Copy the client ID of the external tool and make sure you enabled the client ID.

Zosimos tool developer key	No email	Client ID XXXXXXXXXXXXXXXXXX Show key	Access Token Count: 0 Created: 20 Jul at 1:29 Last Used: Never	🔗	ON OFF	📄 🗑️
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8. Go to courses and select a course to which you would like to add Zosimos as an external tool. Open the 'Settings' and 'Apps' tab and click 'the +App' button:

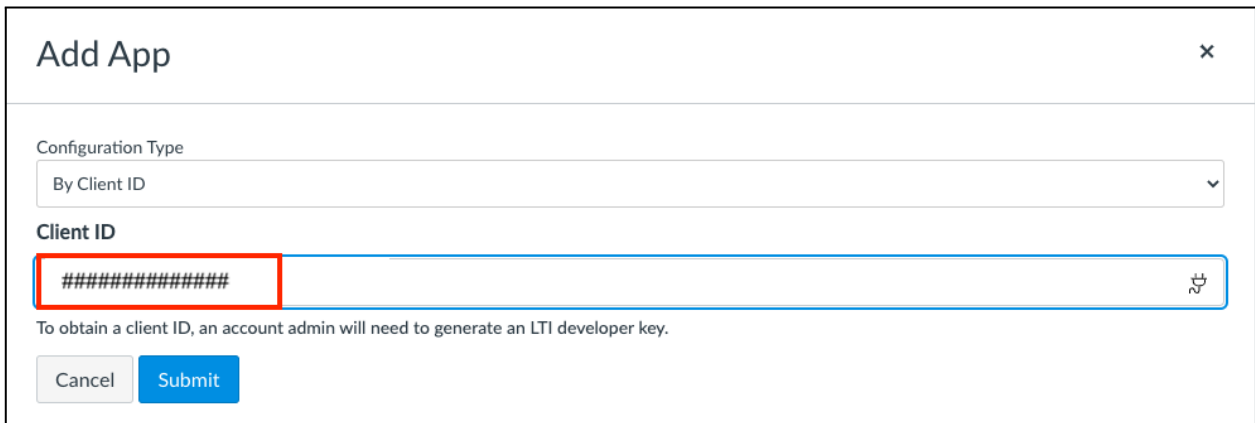
The screenshot shows the Canvas LMS interface. On the left is a navigation sidebar with icons for Account, Admin, Dashboard, Courses, Calendar, and Inbox. The main content area is titled 'Organic > Settings' and has tabs for 'Course details', 'Sections', 'Navigation', 'Apps', and 'Feature Options'. The 'Apps' tab is active, displaying the 'External Apps' section. A '+ App' button is highlighted with a red box. Below the button, there is explanatory text and a table with a header 'Name'.

9. Choose the configuration type 'By Client ID'.



The screenshot shows a dialog box titled "Add App" with a close button (X) in the top right corner. Below the title bar, there is a section labeled "Configuration Type" with a dropdown menu. The dropdown menu is open, showing five options: "Manual entry" (with a checkmark), "By URL", "Paste XML", "By Client ID" (highlighted in blue), and "By LTI 2 Registration URL". Below the dropdown, there are two input fields: "Consumer key" and "Shared secret".

10. Paste the copied client ID in step 4. into the Client ID text field and press the 'Submit' button.



The screenshot shows the "Add App" dialog box with the "Configuration Type" dropdown set to "By Client ID". Below this, there is a section labeled "Client ID" with a text input field. The input field contains a series of hash characters (#####) and is highlighted with a red border. Below the input field, there is a note: "To obtain a client ID, an account admin will need to generate an LTI developer key." At the bottom of the dialog, there are two buttons: "Cancel" and "Submit".

# Test the functionalities of the integration


Create a test course in Canvas, where you add Zosimos as an External tool (see steps 8-10 above) and then add a test assignment to the course by clicking on the **+Assignment** button. Name the assignment as 'Test' and set **Points** to 1. Then set the following details in the **Submission type** section using the **External Tool** option:

Submission Type

External Tool

**External Tool Options**

Enter or find an External Tool URL



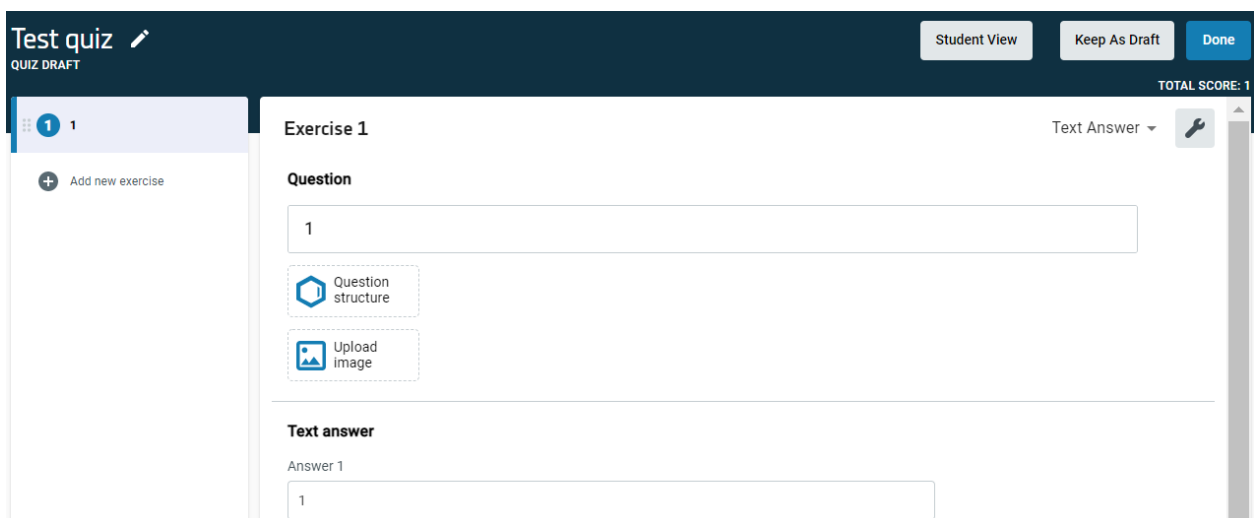
Load This Tool In A New Tab

Click on **Save & publish** at the bottom of the page after applying all the above assignment settings.

In the next step, launch Zosimos by loading it in a new window. Accept the **Terms and Conditions** and then the Zosimos landing page should appear. Click on **New Quiz** in the top right corner and create a test quiz by following the steps below:

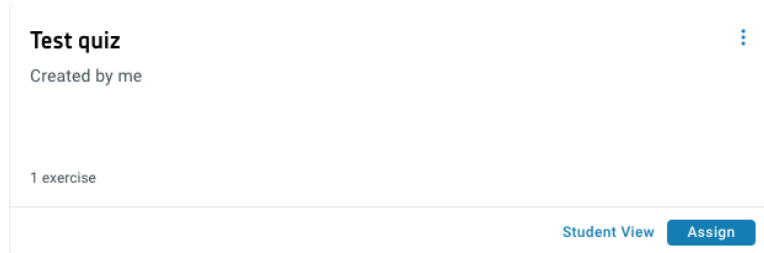
1. Change the quiz title to "Test quiz"
2. Type "1" in the question box
3. Select **Text answer** as the answer type
4. Type "1" as the correct answer

The created exercise should look like this:



Click **Done** in the top right corner and then **Confirm** to finish the quiz. Your quiz will appear under **My Quizzes** on the landing page.

Click **Assign** on the quiz card to set this newly created quiz as the content of your Moodle assignment:



Click **Assign as a Practice**

### Assign quiz as ...

You can assign quizzes as a Practice or as an Assessment.

#### Assign as a Practice

Multiple attempts to complete. Immediate results.

#### Assign as an Assessment

One attempt to complete. Results not visible until it is released.

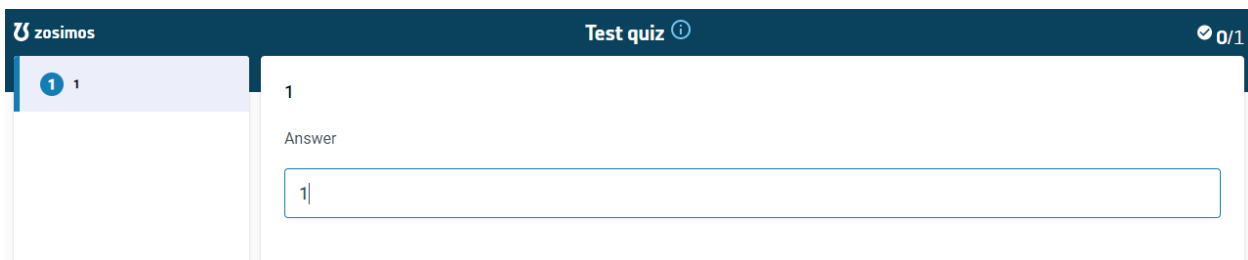
Cancel

After this action, you will see the **Quiz Results** page that will show the student results later on.

Close the Zosimos tab and return to Canvas.

Create a new user in canvas and add it to the test course as a student. Log out and log in as this newly created user.

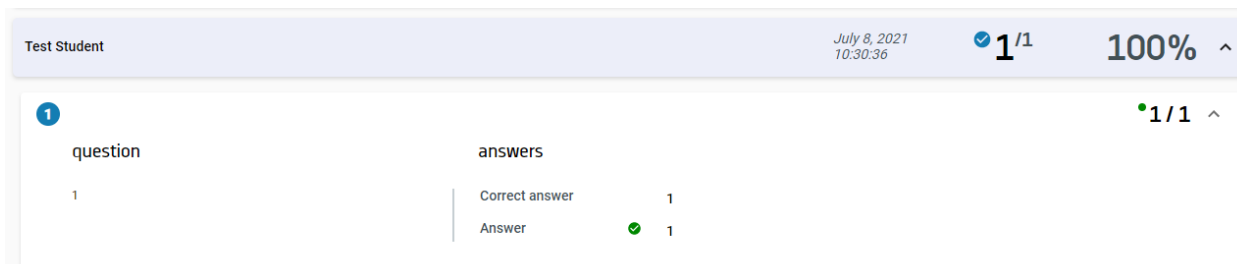
Find the test course and open the Test assignment by clicking on its name and then load it in a new window. Accept the **Terms and Conditions** and then complete the quiz by entering '1' as the answer:



Click **Check Answer** to automatically evaluate the response and then **Result Page** to load the results. Close the Zosimos tab.

Check the following to ensure that all functionalities are working:

1. In Canvas, open the course page and click **Grades**. You should be able to see the result of the Test assignment for the Student user.
2. Click **Assignments** and then open the Test assignment and load it in a new window. You should be able to see the quiz result of the Student user along with the name of the student who completed the assignment.
3. Log out and log in again as a teacher or admin, and check the above-mentioned results again.



The screenshot displays the 'Test Student' interface. At the top, it shows the date and time 'July 8, 2021 10:30:36', a score of '1/1', and a percentage of '100%'. Below this, there is a table with two columns: 'question' and 'answers'. The first row shows '1' under 'question' and 'Correct answer' with a score of '1' under 'answers'. The second row shows '1' under 'question' and 'Answer' with a green checkmark and a score of '1' under 'answers'.

question	answers
1	Correct answer 1
1	Answer ✓ 1

Please note, that when these steps are performed using Student View, the built-in test student of Canvas, the grade transfer to Canvas will not work.

## Support

Have a question? You can contact us by emailing [zosimos-support@chemaxon.com](mailto:zosimos-support@chemaxon.com).