

# LTI 1.3 Setup

In your Noteflight Learn admin account, begin by visiting the “**LMS Settings**” section within your Noteflight Learn site’s “**Manage Site**” tab.

There are two options to configure Noteflight with an LMS via LTI: dynamically and manually. If your LMS supports it, the easiest, and recommended way to set up integration is to “Configure Dynamically.”

Below are LMS-specific guides to help you configure Noteflight properly:

- [Canvas](#)
- [Moodle](#)

## Canvas

Canvas currently does not support dynamic registration, so to begin setup, select “**Configure Manually**” within the Noteflight settings. Keep this tab open as you will need to reference the values shown in Step 1 later.

## In Canvas

1. In a separate tab, log into your Canvas account as an administrator and visit **Admin > Site Admin > Developer Keys**
2. Click “+ **Developer Key**” and then “+ **LTI Key**”

The screenshot shows the 'Developer Keys' page in the Canvas Site Admin interface. The breadcrumb trail is 'Site Admin > Developer Keys'. The page title is 'Developer Keys' and the sub-section is 'Account'. A table lists the following keys:

Name	Owner Email	Details	Stats	Type	State
User-Generated	No Email	1000000000000003 <a href="#">Show Key</a>	Access Token Count: 0 Created: Dec 29 at 11:45am Last Used: Never		ON ALLOW OFF
Noteflight	No Email	1000000000000002 <a href="#">Show Key</a>	Access Token Count: 0 Created: Dec 8 at 1:44pm Last Used: Never		ON ALLOW OFF

Buttons for '+ Developer Key', '+ API Key', and '+ LTI Key' are visible in the top right corner of the table area.

3. Enter the following values from the Noteflight site “LMS Settings” page into Canvas, replacing **{noteflight.domain}** with your Noteflight Learn site’s domain (i.e. myschool.learning.noteflight.com).

- **Redirect URIs:** https://{noteflight.domain}/lti/oidc/launch
- **Target Link URI:** https://{noteflight.domain}
- **OpenID Connect Initiation Url:** https://{noteflight.domain}/lti/oidc/login
- **JWK Method:** Public JWK URL
- **Public JWK URL:** https://{noteflight.domain}/.well-known/jwks.json
- **LTI Advantage Services:** Enable the following
  - 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.

Under “Additional Settings” make sure the Privacy Level is set to “Public.” This allows Noteflight to show Canvas usernames instead of user IDs.

Additional Settings

<b>Domain</b>	<input type="text"/>	<b>Tool Id</b>	<input type="text"/>
<b>Icon Url</b>	<input type="text"/>	<b>Text</b>	<input type="text"/>
<b>Selection Height</b>	<input type="text"/>	<b>Selection Width</b>	<input type="text"/>

**Custom Fields**

One per line. Format: name=value

**Privacy Level**

PUBLIC  PRIVATE



4. Click “**Save**” to create the LTI key

5. Make sure the state of the new tool is set to **ON**. Store the client ID value visible in the **Details** column of your new key for the next step.

Site Admin > Developer Keys

## Developer Keys

Account

+ Developer Key

Name	Owner Email	Details	Stats	Type	State	Actions
User-Generated	No Email	100000000000003 <a href="#">Show Key</a>	Access Token Count: 0 Created: Dec 29 at 11:45am Last Used: Never		ON ALLOW OFF	<a href="#">Edit</a> <a href="#">Refresh</a> <a href="#">Delete</a>
Noteflight	No Email	100000000000002 <a href="#">Show Key</a>	Access Token Count: 0 Created: Dec 8 at 1:44pm Last Used: Never		ON ALLOW OFF	<a href="#">Edit</a> <a href="#">Refresh</a> <a href="#">Delete</a>

Client ID

6. In Canvas, go to the account, subaccount, and/or course that you'd like Noteflight to be available in as an LTI 1.3 app.

- Visit **Settings > Apps**
- Select **+ App**

- Choose **By Client ID** as the configuration type and enter the **Client ID** of the Developer Key (from the previous step).

Site Admin > Settings

People Settings Quotas Admins Announcements Reports Apps

### Add App

Configuration Type

By Client ID

Client ID

10000000000002

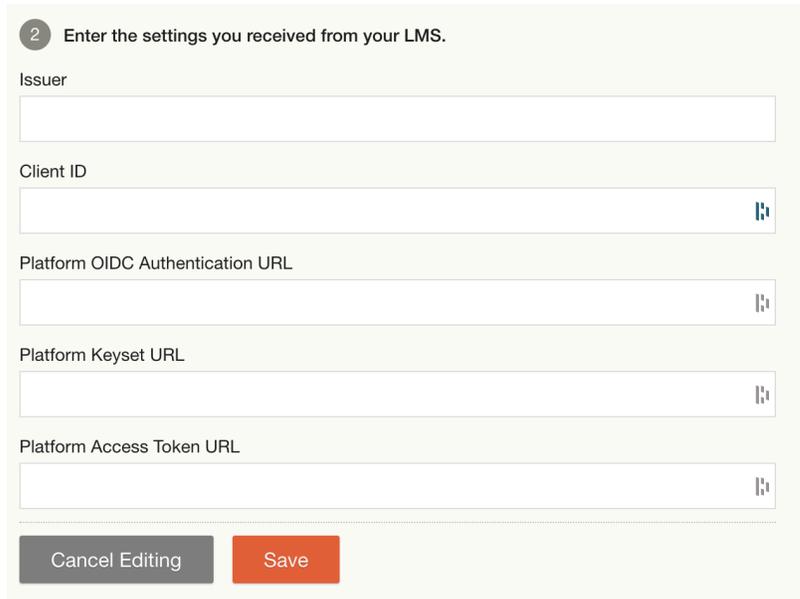
To obtain a client ID, an account admin will need to generate an LTI developer key.

Cancel Submit

## In Noteflight

1. Navigate to your Noteflight Learn site's **LMS Settings** page and select **“Configure Manually.”**

You will see a form with several expected values empty



2 Enter the settings you received from your LMS.

Issuer

Client ID

Platform OIDC Authentication URL

Platform Keyset URL

Platform Access Token URL

Cancel Editing Save

2. Enter the following information in the form fields. Replace **{canvas-domain}** with the URL of your Canvas instance:
  - **Issuer:** <https://canvas.instructure.com>  
*This value will always be used as the issuer for production instances of Canvas, even if your institution hosts their Canvas instance at a domain that you control. The only exceptions are if you are configuring Noteflight on a test or beta instance of Canvas, in which cases the issuer will be <https://canvas.test.instructure.com> or <https://canvas.beta.instructure.com>, respectively*
  - **Client ID:** Client ID from LTI 1.3 “Developer Key” from Canvas (see [step 5 in the previous section](#))
  - **Platform OIDC Authentication URL:** [https://{canvas-domain}/api/lti/authorize\\_redirect](https://{canvas-domain}/api/lti/authorize_redirect)
  - **Platform Keyset URL:** <https://{canvas-domain}/api/lti/security/jwks>
  - **Platform Access Token URL:** <https://{canvas-domain}/login/oauth2/token>

If your domain is [canvas.instructure.com](https://canvas.instructure.com) use [sso.canvaslms.com](https://sso.canvaslms.com) instead.

3. Click **“Save”** to store the configuration

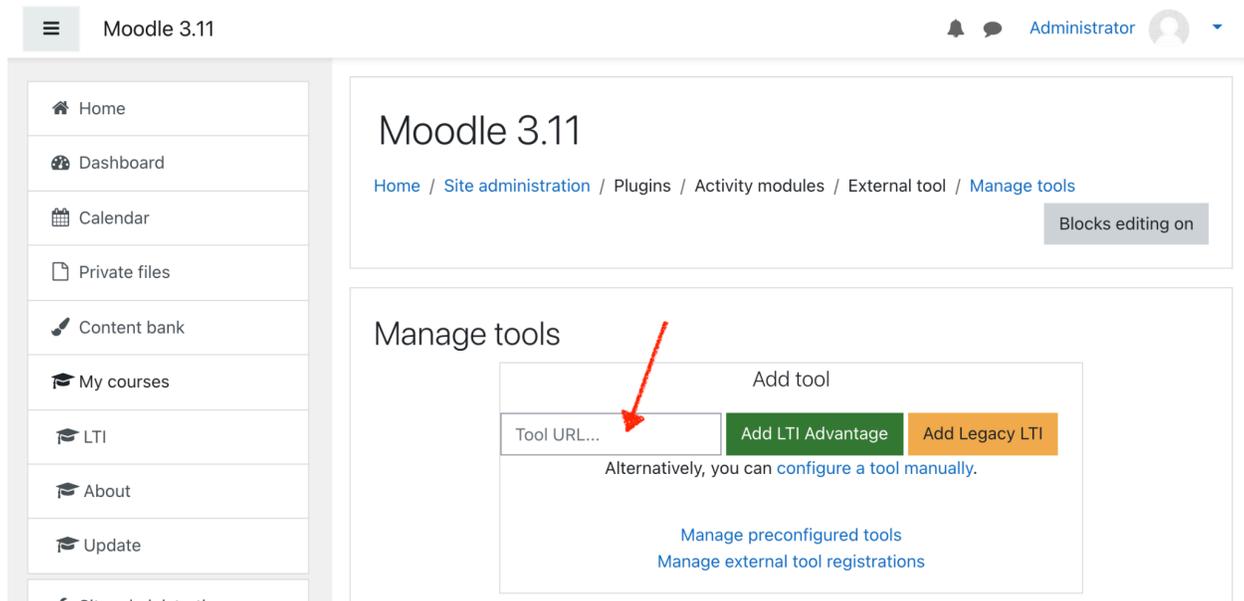
## Moodle

Moodle supports both dynamic and manual registration depending on the installed version. Dynamic configuration was made available in Moodle 3.10. If your Moodle version is less than this, please proceed using manual configuration.

## Dynamic Registration

To begin setup, access your Noteflight Learn site's LMS Settings and select **“Configure Dynamically”**. Keep this tab open as you will need to reference the value later:

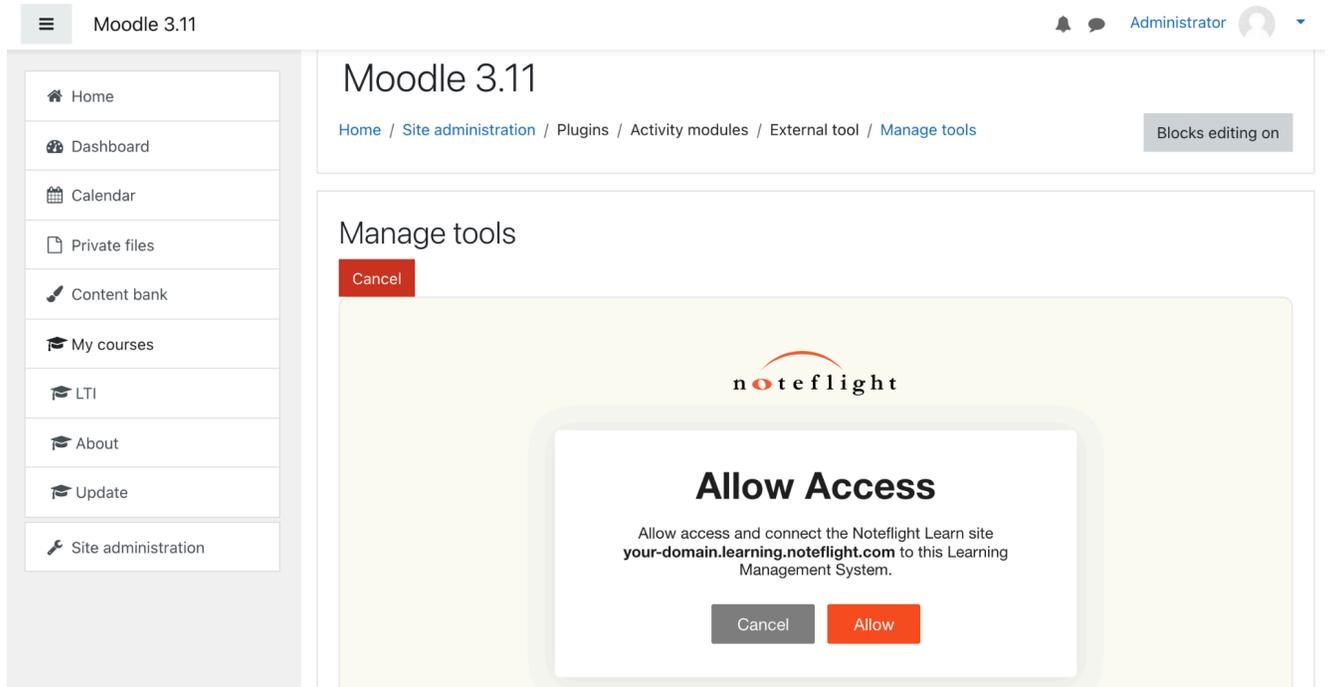
1. Log into Moodle as an administrator and visit **Site Administration > Plugins > External tool > Manage tools**
2. In the **“Tool URL...”** field, enter the registration URL from your Noteflight Learn site's LMS Settings
  - o Ex: <https://{noteflight.domain}/lti/register>



The screenshot shows the Moodle 3.11 interface. On the left is a sidebar menu with options: Home, Dashboard, Calendar, Private files, Content bank, My courses, LTI, About, and Update. The main content area is titled "Moodle 3.11" and includes a breadcrumb trail: Home / Site administration / Plugins / Activity modules / External tool / Manage tools. A "Blocks editing on" button is visible in the top right. Below the breadcrumb is the "Manage tools" section, which contains an "Add tool" form. The form has a text input field labeled "Tool URL..." with a red arrow pointing to it, and two buttons: "Add LTI Advantage" (green) and "Add Legacy LTI" (orange). Below the form, there is a link: "Alternatively, you can configure a tool manually." At the bottom of the form area, there are two links: "Manage preconfigured tools" and "Manage external tool registrations".

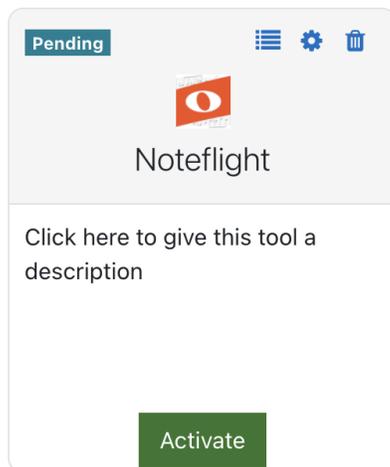
3. Click **“Add LTI Advantage”**

- You will then be asked to allow Moodle to connect with Noteflight. Click **“Allow”** to continue:



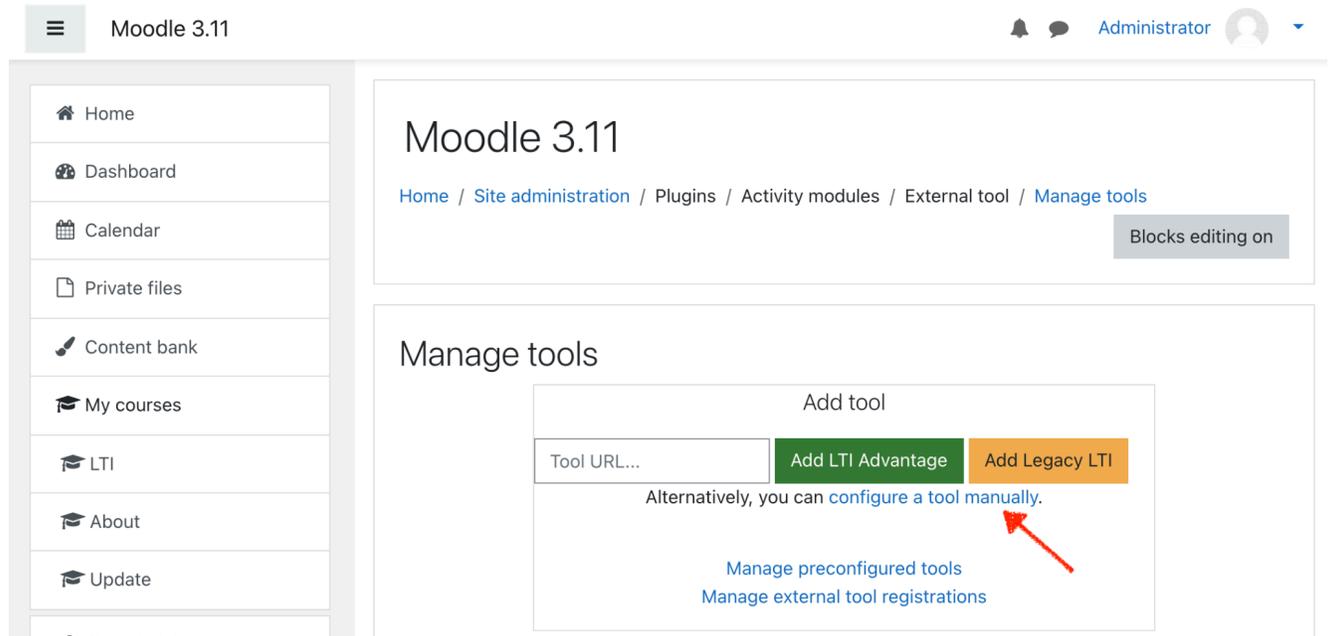
- If successful, click **“Close”** to complete registration.
- To use the tool in a course, make sure to click **“Activate”**

## Tools



## Manual Registration

1. Log into Moodle as an administrator and visit **Site Administration > Plugins > External tool > Manage tools**
2. Click “**configure a tool manually**”



The screenshot shows the Moodle 3.11 interface. At the top, the user is logged in as 'Administrator'. The breadcrumb trail is: Home / Site administration / Plugins / Activity modules / External tool / Manage tools. A 'Blocks editing on' button is visible in the top right. The main content area is titled 'Manage tools' and contains an 'Add tool' section. This section includes a text input field for 'Tool URL...', a green button for 'Add LTI Advantage', and an orange button for 'Add Legacy LTI'. Below these buttons, there is a link that says 'Alternatively, you can [configure a tool manually](#).' A red arrow points to this link. At the bottom of the 'Add tool' section, there are two more links: 'Manage preconfigured tools' and 'Manage external tool registrations'.

3. You will see a form with several requested fields

## External tool configuration

### ▼ Tool settings

Tool name	<span>!</span> <span>?</span> <input type="text" value="Noteflight"/>
Tool URL	<span>!</span> <span>?</span> <input type="text" value="https://{noteflight.domain}"/>
Tool description	<span>?</span> <input type="text" value="Noteflight LTI 1.3"/>
LTI version	<span>?</span> <input type="text" value="LTI 1.3"/>
Public key type	<span>?</span> <input type="text" value="Keyset URL"/>
Public keyset	<span>?</span> <input type="text" value="https://{noteflight.domain}/well-known/jwks.json"/>
Initiate login URL	<span>?</span> <input type="text" value="https://{noteflight.domain}/lti/oidc/login"/>
Redirection URI(s)	<span>?</span> <input type="text" value="https://{noteflight.domain}/lti/oidc/launch"/>
Custom parameters	<span>?</span> <input type="text"/>
Tool configuration usage	<span>?</span> <input type="text" value="Show as preconfigured tool when adding an external tool"/>
Default launch container	<span>?</span> <input type="text" value="Embed, without blocks"/> <input type="checkbox"/> Supports Deep Linking (Content-Item Message) <span>?</span>
Content Selection URL	<span>?</span> <input type="text"/>

[Show more...](#)

### ▼ Services

IMS LTI Assignment and Grade Services	<span>?</span> <input type="text" value="Use this service for grade sync and column management"/>
IMS LTI Names and Role Provisioning	<span>?</span> <input type="text" value="Use this service to retrieve members' information as per privacy settings"/>
Tool Settings	<span>?</span> <input type="text" value="Do not use this service"/>

### ▶ Privacy

### ▶ Miscellaneous

Save changes

Cancel

Enter the following values from your Noteflight Learn site's "LMS Settings" page into Moodle, replacing **{noteflight.domain}** with your Noteflight Learn site's domain (i.e. myschool.learning.noteflight.com).

- **Tool name:** Noteflight
- **Tool URL:** <https://{noteflight.domain}>
- **LTI Version:** LTI 1.3
- **Public key type:** Keyset URL
- **Public keyset:** <https://{noteflight.domain}/well-known/jwks.json>
- **Initiate login URL:** <https://{noteflight.domain}/lti/oidc/login>
- **Redirection URI(s):** <https://{noteflight.domain}/lti/oidc/launch>
- Services:
  - **IMS LTI assignment and Grade Services:** Use this service for grade sync and column management
  - **IMS LTI Names and Role Provisioning:** Use this service to retrieve members' information as per privacy settings (*optional*)

4. Click **"Save changes"**

5. Retrieve the tool configuration details from your newly configured LTI 1.3 application in Moodle

Manage tools

Add tool

Tool URL...

Add LTI Advantage

Add Legacy LTI

Alternatively, you can [configure a tool manually](#)

[Manage preconfigured tools](#)

[Manage external tool registrations](#)

Tools

Active

Noteflight

Click here to give this tool a description

This tool has not yet been used

6. You will then see a set of values that you will use to configure the platform in Noteflight

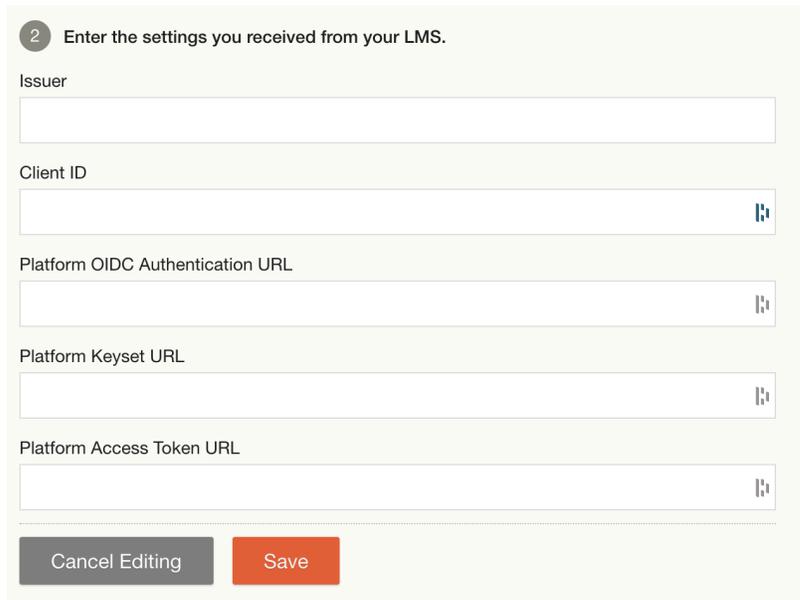
Tool configuration details

- **Platform ID:** https://moodle.test
- **Client ID:** kj6sEiedqJeKC6I
- **Deployment ID:** 5
- **Public keyset URL:** https://moodle.test/mod/lti/certs.php
- **Access token URL:** https://moodle.test/mod/lti/token.php
- **Authentication request URL:** https://moodle.test/mod/lti/auth.php

Email Cancel

## In Noteflight

7. Navigate to your Noteflight Learn site's **LMS Settings** page and have "**Configure Manually**" selected. You will see a form with several expected values empty



2 Enter the settings you received from your LMS.

Issuer

Client ID

Platform OIDC Authentication URL

Platform Keyset URL

Platform Access Token URL

Cancel Editing Save

8. Enter the following information in the form fields. Replace **{canvas-domain}** with the URL of your Canvas instance:
  - **Issuer:** The Platform ID provided by Moodle
  - **Client ID:** The Client ID value provided by Moodle
  - **Platform OIDC Authentication URL:** The Authentication request URL value provided by Moodle
  - **Platform Keyset URL:** The Public keyset URL value provided by Moodle
  - **Platform Access Token URL:** The Access token URL value provided by Moodle
9. Click "**Save**" to store the configuration