



Nudgis - LMS integration guide

This documentation describes ways to integrate UbiCast-generated content into an LMS, both generic or by using our open-source building block (Moodle only). Note that Moodle will be used as an example throughout this documentation, please refer to your LMS documentation for specifics.

Cette documentation est également disponible en [français](#).

Table of Contents

Prerequisites	3
1. Nudgis LTI overview	4
1.1. About LTI	4
1.2. Nudgis initial setup	6
1.3. LTI test page	12
1.4. The Media Manager	12
1.5. Learning Analytics	14
1.6. Example workflow	14
2. LMS setup examples	15
2.1. Moodle	15
2.1.1. Generic LTI integration	15
2.1.1.1. Moodle configuration	15
2.1.1.2. Adding content	19
2.1.2. Moodle Plugins	21
2.1.2.1. Plugins configuration	21
2.1.2.2. Adding content as resource	22
2.1.2.3. Adding content into text editors	26
2.1.2.4. Course block plugin	26
2.2. Blackboard	29
2.2.1. Blackboard configuration	29
2.2.2. Adding content	38
2.3. Brightspace	40
2.3.1. Brightspace setup	40
2.3.2. Using the test page	43
2.3.3. Adding content	45
2.3.4. Enable content insertion in text editors	46
2.3.5. Enabling playback grades	49

Prerequisites

In order to make possible the integration of channels and media in your [LMS \(Learning Management System\)](#), the Nudgis and the LMS must be in the same domain, because otherwise cookies (considered as Third-party cookies) will be rejected by most browsers, breaking authentication in the process.

Correct example:

Moodle: my-moodle.example.com

Nudgis: my-nudgis.example.com

Incorrect example:

Moodle: my.example.com

Nudgis: my.nudgis.com

For LTI version 1.3, the Nudgis servers and the LMS servers must be able to contact each other using their HTTPS URL.

1. Nudgis LTI overview

1.1. About LTI

LTI is a protocol that allows LMS users to integrate content provided by third-party web-based tools simply and in a secure manner.

LTI works with dedicated links to access to the content. Each embeddable content is called a "tool" for LTI.

Nudgis handles the following versions of LTI:

- LTI 1.0 and LTI 1.1: The authentication protocol is based on OAuth1 and all communications between the LMS and Nudgis transit through the user browser. These versions are deprecated and should not be used anymore, unless your LMS only supports it.
- LTI 1.3: The authentication protocol is based on OAuth2 and the communications between the LMS and Nudgis transit through the user browser and **directly between the servers** (meaning that the LMS and the Nudgis servers must be able to communicate in both ways using HTTPS). This version is recommended for LTI integration.

NB: It is not possible to use LTI 1.0/1.1 and LTI 1.3 at the same time with Nudgis because the LTI attributes are not the same between versions.

LTI urls look like this one:

<https://your.nudgis/lti/v125395dfecaa01pn1ue/>

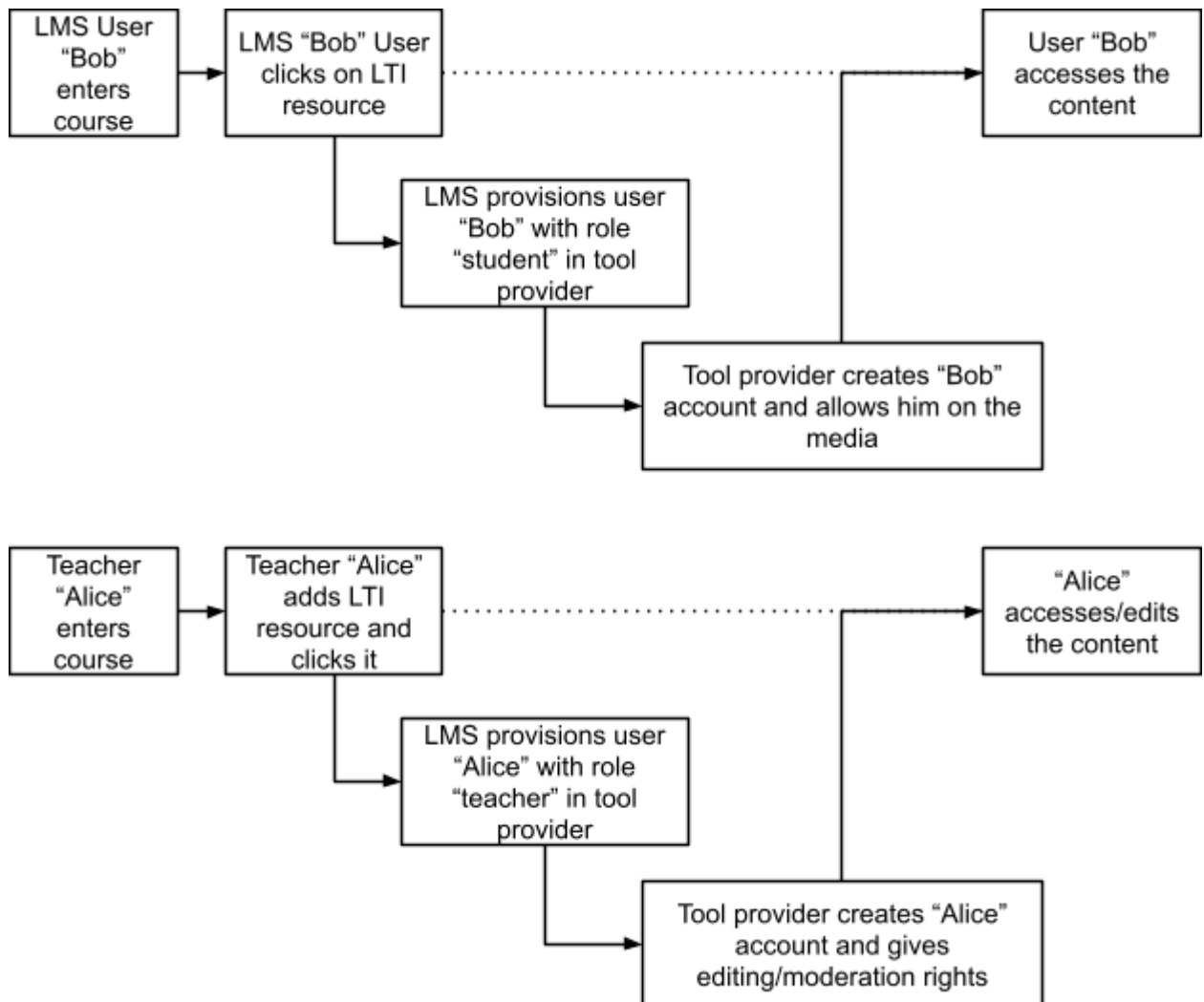
The most interesting part of LTI is that it supports the notion of user roles; this means that the LTI tool provider is aware of the rights that the user should be given when he accesses content.

To sum up, the security is based on the fact that if the user can access the content inside the LMS (e.g. student is enrolled to class "A"), then any content inside this class "A" should be made available to him.

A non comprehensive list of LTI tool providers and consumers is available here:

<http://developers.imsglobal.org/catalog.html>

How the security model works:



1.2. Nudgis initial setup

Nudgis includes an LTI integration since version 4.6, as part of the supported authentication backends.

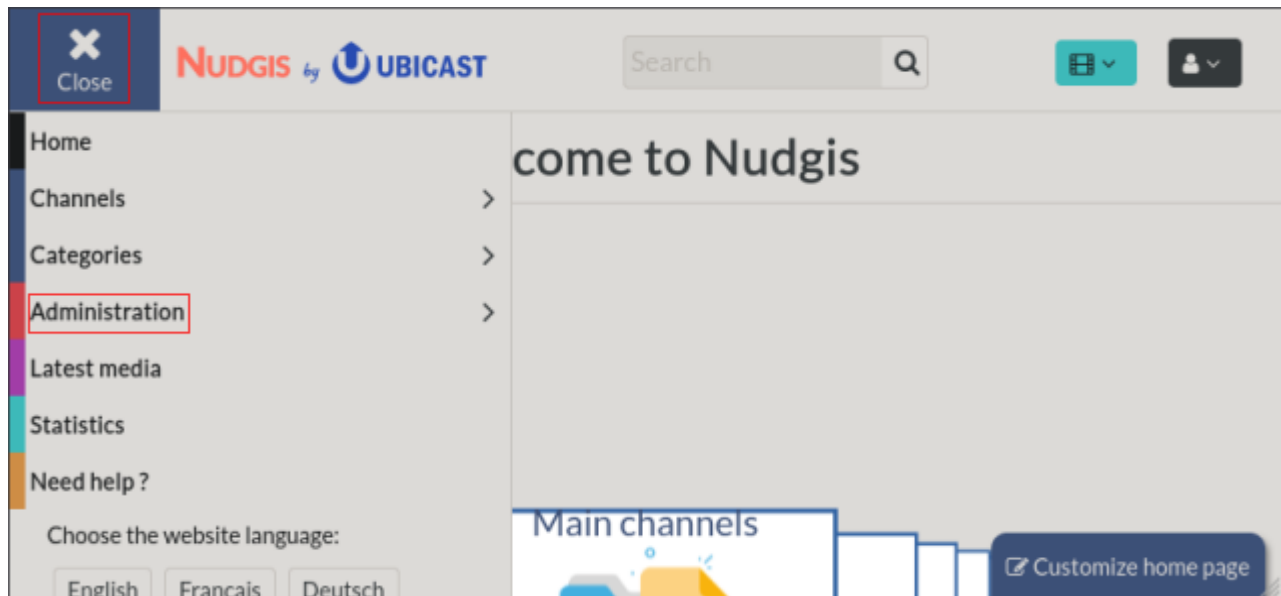
The LTI protocol version 1.3 is supported since Nudgis 11.2.0. Previous versions of LTI are deprecated.

To setup LTI, it is first necessary to (see help below for each step):

- 1) Enable LTI inside Nudgis.
- 2) Register the LMS (either with the dynamic registration feature or by filling the LMS information manually, see help below for both methods).
- 3) Define roles permissions.

1) Enable LTI inside Nudgis

To access LTI settings, go to the Administration menu:



Then enter authentication settings:

The screenshot shows the 'Administration' dashboard for Nudgis UBCAST. The 'Authentication' section is highlighted with a red box, indicating the selected option 'Authentication settings and services'.

Administration

Information

Content Channels: 91 Lives: 54 VOD: 270 (20 hours) Photos groups: 3 (3 photos)

Storage Total size: 126.3 Go Used: 55.0 Go Available: 71.3 Go (56%)

Usage Users currently playing a video: 0 (peak: 10, limit: none, media: 0)

Social interactions

Manage activities Moderate annotations

Supervision

Tasks status Livestreams statuses Manage keywords Orphan resources

Recorders control panel

Authentication

Users and groups management **Authentication settings and services**

Enable the LTI service:

The screenshot shows the 'Authentication services' configuration page. The 'LTI' tab is selected and highlighted with a red box. In the 'LTI Main settings' section, the 'Enable LTI' checkbox is checked and highlighted with a red box.

Authentication services

Settings Local **LTI** CAS Kerberos LDAP Social Groups assignment

Users and groups management

Save changes

LTI Main settings

Enable LTI:

2) Register the LMS

Using the dynamic registration:

If your LMS handles the dynamic registration feature, the setup will be much easier. To use this feature, you will have to copy and paste the dynamic registration URL into your LMS.

The URL can be found in Nudgis LTI settings page:

Dynamic registration

This section is applicable only to LTI 1.3.

Use this link to configure the service in the LMS automatically.

The LMS must support the dynamic registration feature of the LTI protocol. If it does, copy and paste the following link into the LMS.

Dynamic registration will not be available if LTI is disabled.

Dynamic registration link:

<https://dev.webtopia.fr/lti/adv/registration/>

Or by filling the LMS information manually:

Use this method only if your LMS does not support the dynamic registration feature.

LMS (Learning Management System) definitions

This section is applicable only to LTI 1.3.

▼ LMS: https:// - Fur3R6UUBt0MHb5

Delete after save:

*

*

*

*

OAuth2 audience:

*

*

*

Do not forget to click on the save button once all data is filled.

Attributes mapping

Depending on your LMS, you may have to change the user attributes mapping. To get the user attributes sent by your LMS, you can use the test page (see section 1.3. for further information on the test page).

For most LMS and when using LTI 1.3, you shouldn't have to change the mapping because the default values are correct.

The default values are:

- Username: email
- Email: email
- First name: given_name
- Last name: family_name

3) Define roles permissions

The role permissions can then be defined finely (note that two default roles are provided: Learner and Instructor.)

Role definitions

[Add an LTI role definition](#)

Role: Active: Delete after saving:

Global permissions

Can create channels:	<input type="text" value="Untouched"/>	Can create media:	<input type="text" value="Untouched"/>
Can create polls:	<input type="text" value="Untouched"/>	Can manage keywords:	<input type="text" value="Untouched"/>
Can manage live streams:	<input type="text" value="Untouched"/>	Can see all statistics:	<input type="text" value="Untouched"/>
Can edit users:	<input type="text" value="Untouched"/>	Can edit site settings:	<input type="text" value="Untouched"/>
Can edit site skin:	<input type="text" value="Untouched"/>	Can see recorders control panel link:	<input type="text" value="Untouched"/>

Editing permissions

Some tab permissions are not applicable to channel editing.

Publishing settings:	<input type="text" value="Yes"/>	Advanced settings:	<input type="text" value="Yes"/>	Appearance tab:	<input type="text" value="Yes"/>
Trimming tab:	<input type="text" value="Yes"/>	Slides tab:	<input type="text" value="Yes"/>	Community tab:	<input type="text" value="No"/>
Attachments tab:	<input type="text" value="Yes"/>	Photos tab:	<input type="text" value="Yes"/>	Widgets tab:	<input type="text" value="Yes"/>
Resources tab:	<input type="text" value="Yes"/>				

Media permissions

Access:	<input type="text" value="Yes"/>	Edit:	<input type="text" value="Yes"/>	Delete:	<input type="text" value="Yes"/>
See statistics:	<input type="text" value="Yes"/>	Moderate:	<input type="text" value="Yes"/>		

To help understanding which roles the LMS reports and debug the permissions, you may add the “Test page” link into the LMS, and click on it. This will let you introspect the role names defined by the LMS.


Important: In the version 11.1.1 and previous versions, the roles transmitted by the LMS were automatically prefixed with:

- "urn:lti:role:ims/lis/" for the roles not beginning with "urn:lti:" and not containing "ims/lis/".
- "urn:lti:" for the roles not beginning with "urn:lti:" and containing "ims/lis/".

1.3. LTI test page

The LTI test page allows you to check that the LTI service is correctly configured. It can also be used to show the data sent by the LMS to Nudgis.

To use the test page, it should be enabled in the LTI settings of Nudgis:

 Enable test page: Default value: No

The link to the test page is available in the LTI settings of Nudgis:

Test page

Use this link to test your settings and see all data received and all permissions granted when using LTI. The test page will not be available if LTI is disabled or if the test page is disabled.

Link to the test page:

```
https://dev.webtopia.fr/lti/test/
```

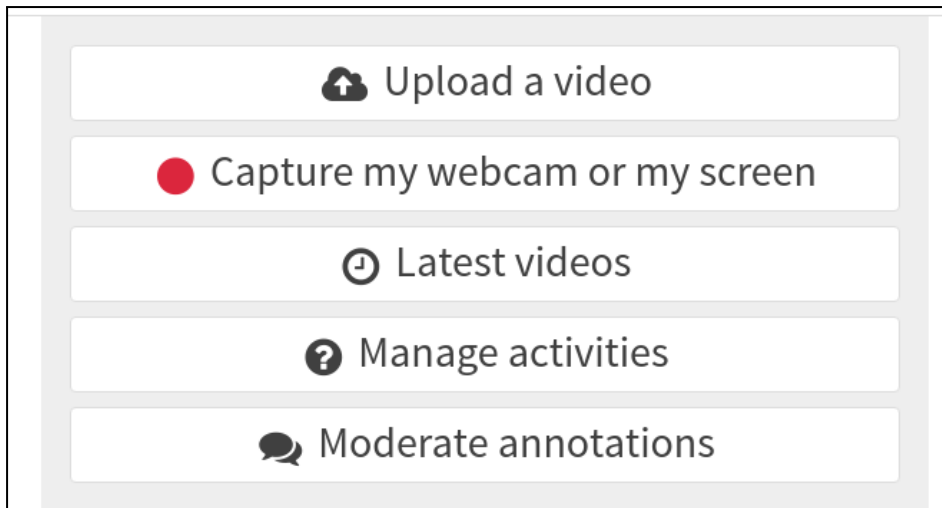
Add the test page url as an LTI link into the LMS, and click on it. It will then display the values transmitted over LTI for debugging.

1.4. The Media Manager

The page used in Nudgis for the LTI deep linking feature (content selection).

This page allows to access multiple features:

- Creation of a media by uploading a file.
- Creation of a video by recording the user desktop.
- Selection of an existing media.
- Management of activities (polls and questionnaires).
- Moderation of comments of all media the user can moderate.

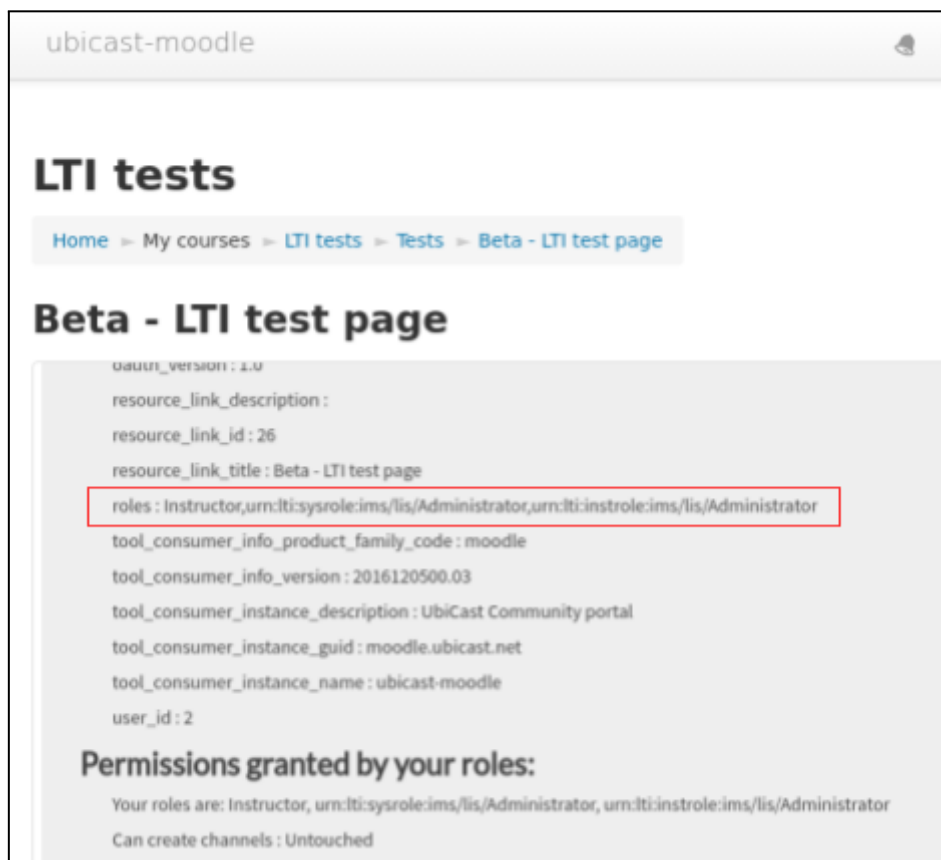


The page is available at this URL: "/manager/". By default, only media for which the user is the speaker are shown. It is possible to add the "?all" argument to show all accessible media.

Documentation on the Deep Linking :

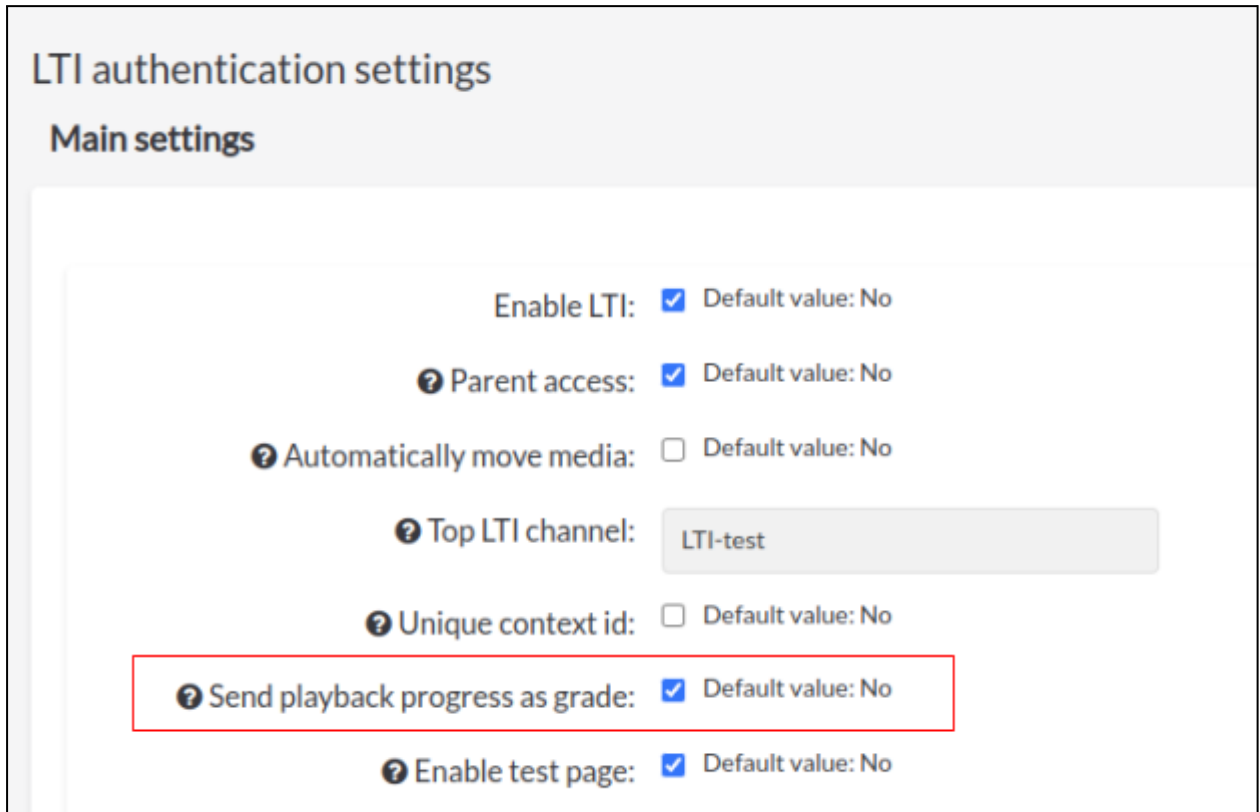
<https://www.imsglobal.org/spec/lti-dl/latest>/<https://www.imsglobal.org/spec/lticiv1p0>

https://canvas.instructure.com/doc/api/file.content_item.html



1.5. Learning Analytics

Note: Since version 8.4.0, it is possible to send playback progress as a grade to the LMS, simply enable the option in the LTI settings page and in the LMS settings.



The screenshot displays the 'LTI authentication settings' interface. Under the 'Main settings' section, several options are listed with checkboxes and default values:

- Enable LTI: Default value: No
- Parent access: Default value: No
- Automatically move media: Default value: No
- Top LTI channel: LTI-test
- Unique context id: Default value: No
- Send playback progress as grade: Default value: No
- Enable test page: Default value: No

The 'Send playback progress as grade' option is highlighted with a red rectangular box.

1.6. Example workflow

1. Recording is triggered on a UbiCast Miris Box with the speaker_email metadata provided.
2. When capture is stopped, recording is sent automatically to Nudgis.
3. Upon reception, when the media is ready, Nudgis sends out an email to the speaker containing the LTI link along with (potentially customer-specific) instructions.
4. After integrating the LTI link in the LMS, when the teacher clicks the link he is automatically recognized as being an editor and moderator.

2. LMS setup examples

2.1. Moodle

2.1.1. Generic LTI integration

Note: Our LTI 1.3 integration does not yet support student submissions (but it is planned). If you need student submissions, use our moodle plugins. [Some plugins](#) may provide this feature [until Moodle provides it natively](#).

Note 2: Moodle does not support self-signed certificates. Please ensure that the certificate for Nudgis seen by Moodle is valid.

2.1.1.1. Moodle configuration

First you have to declare the Nudgis server into Moodle as an LTI tool provider using the administration interface.

Go to the page:

<https://yourmoodleserver/admin/search.php#linkmodules>

Click on the "Manage tools" button of the "External tool" activity module:

Site administration

General Users Courses Grades **Plugins** Appearance Server Reports Development

Plugins

Install plugins
Plugins overview

Activity modules

Manage activities
Common activity settings
Assignment
Assignment settings
Submission plugins
Manage assignment submission plugins
File submissions
Online text submissions
Feedback plugins
Manage assignment feedback plugins
Feedback comments
Annotate PDF
File feedback
Offline grading worksheet
Book
Chat
Database
External tool
Manage tools
Feedback
File

Then copy and paste the Nudgis dynamic registration URL:

Add tool

<https://your.nudgis/lti/adv/registration/>

Add LTI Advantage

Add Legacy LTI

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

Remember that LTI must be enabled in Nudgis and that you must be logged in Nudgis with an administrator account to use this URL.

Click on the "Add LTI Advantage" button.

Moodle will open a page on Nudgis which should show a success message.

Click on the "Close" button:

Manage tools

Cancel

Dynamic registration

The tool registration is complete.


Close

Nudgis is now registered in Moodle, click on the "Activate" button to be able to use it in Moodle:

Tools

< First 1 Last >

Pending


Nudgis

Click here to give this tool a description

Activate

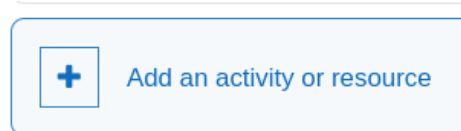
If necessary, you can customize the name of the tool provider by editing its settings.

2.1.1.2. Adding content

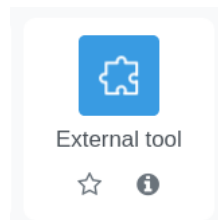
Go to a course in Moodle and turn on the edition mode in the top right corner of the page:

Edit mode

Then add an activity in the course:



Choose "external tool":



Select the preconfigured tool and click on "Select":

Adding a new External tool

▼ General

Activity name



Show more...

Preconfigured tool



dev MS



Select content

Tool URL



Select a content in the window, the content link will appear in the "tool URL":

▼ General

Activity name	!	Test media
Show more...		
Preconfigured tool	?	dev MS + ⚙ ×
Select content		
Tool URL	?	https://dev.webtopia.fr/lti/p1266301ba99f7ubvrzg/

Before saving the activity please check that your browser did not autofill the "Consumer key" and "Shared secret" with your Moodle user/password. These fields must be empty. Finally, click on "save and display".

The media is then directly viewable inside Moodle (and administrable if the role allows it. Access to editing and statistics is indicated below by the red circle on the top right of the video player):

LTI tests

[Home](#) > [My courses](#) > [LTI tests](#) > [Tests](#) > [ubicast.tv - LTI video](#)

ubicast.tv - LTI video

The screenshot displays a Moodle LTI activity page. The main content area features a video player titled "UbiCast Rich Media Sneak Peek" with the UbiCast logo. The video content shows a man speaking in front of a screen displaying various logos and the text "270+ happy users worldwide". The video player has a play button and a progress bar at the bottom.

On the right side, there is a sidebar with a navigation menu and a list of content items. The sidebar includes a search bar, a "Home" button, and a "Home" button. The content items are:

- Place jointe: pdf-presentation.pdf (00:00)
- Chapitre: Creating content (00:11)
- UbiCast Team - Commentaire - 1 annee, 7 mois plus tôt: ubicast_studio_en.pdf (00:11)
- Chapitre: Any kind of presentation (00:23)
- UbiCast Team - Commentaire - 1 annee, 7 mois plus tôt: For the full video on the amazing Bowerbird captured by the BBC, see this video: <https://www.youtube.com/watch?v=2WPH3J3AME>

2.1.2. Moodle Plugins

Note: these plugins rely on LTI 1.1, and will be deprecated in favor of the generic LTI 1.3 integration in the long run, when student submissions using LTI 1.3 will be available.

A demo is available here for the UbiCast Nudgis Moodle :

<https://help.ubicast.tv/permalink/v125cf904c4dbtknl3i6/>.

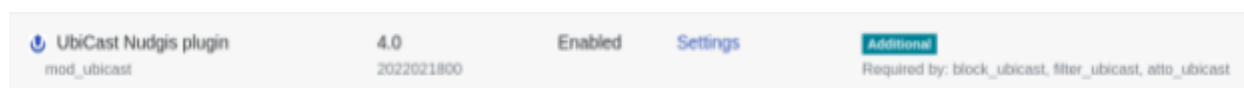
You can find the UbiCast Nudgis Moodle on Moodle plugins directory

<https://moodle.org/plugins/?q=ubicast>

2.1.2.1. Plugins configuration

UbiCast provides an Open-Source Moodle building block, that once deployed onto your Moodle server, adds a new activity type. You can find this plugin at this address :

https://moodle.org/plugins/mod_ubicast



Then, you will need to provide your LTI credentials (the key and the secret) to add them to the UbiCast Nudgis plugin settings (Administration > Advanced features > Plugins > Activity modules > UbiCast Nudgis plugin) :

<https://moodle/admin/settings.php?section=modsettingubicast>

UbiCast Nudgis plugin

<p>Nudgis base URL <small>ubicast ubicast_url</small></p>	<input type="text" value="https://demo.ubicast.tv"/> Default: Empty Enter the Nudgis base URL. Example: "https://nudgis.ubicast.tv".
<p>Nudgis LTI key <small>ubicast ubicast_ltikey</small></p>	<input type="text" value="xzmz9GgcutbUvwDFNBzHMryMmzyX7wy"/> Default: Empty Enter the Nudgis LTI key. An LTI key looks like "xzmz9GgcutbUvwDFNBzHMryMmzyX7wy".
<p>Nudgis LTI secret <small>ubicast ubicast_ltisecret</small></p>	<input type="password" value="4fCQKsxQwFSxCcVdd4Dq9cxNbhZK4afPBpY312wq1mASGkAgC9qy8n9QEPq8"/> Enter the Nudgis LTI secret. An LTI secret looks like "4fCQKsxQwFSxCcVdd4Dq9cxNbhZK4afPBpY312wq1mASGkAgC9qy8n9QEPq8".
<p>Show only user's media in selection <small>ubicast ubicast_speakerfilter</small></p>	<input checked="" type="checkbox"/> Default: Yes When selecting a media to embed, show only media for which the user is set as the speaker. This setting is ignored if Nudgis is using a version below or equal 8.3.0.

[Save changes](#)

You will also if needed to [enter your LTI credentials in the external LTI connector](#).




Note that two additional plugins are available and will be described later; they require the main mod_ubicast plugin to function:

- Add a button into text editors: https://moodle.org/plugins/atto_ubicast
- Add a custom channel block: https://moodle.org/plugins/block_ubicast

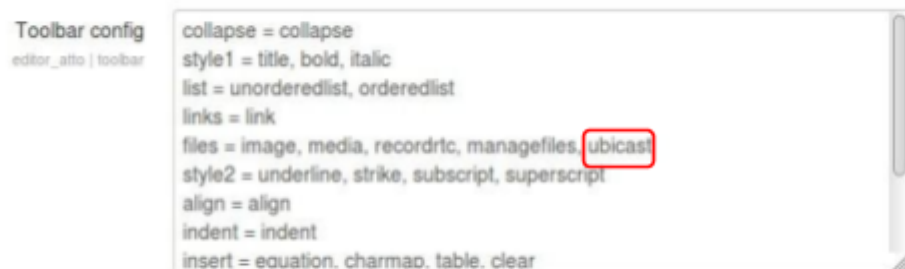
Please note that when using these plugins, **no LTI score (grade) will be posted**; this is a technical limitation of the approach that we chose. If you need scores, you must use the [generic LTI integration](#).

Download ZIP from Moodle plugin repository then add it to Site Administration > Plugins > Install Plugins > Install plugin from ZIP file.

You should get in the plugin overview those three plugins in their category respectively Activity modules, blocks and Atto HTML editor / Atto plugins :

 UbiCast Nudgis plugin mod_ubicast	4.0 2022021800	Enabled	Settings	Additional Required by: block_ubicast, filter_ubicast, atto_ubicast
 Insert a media from Nudgis atto_ubicast	1.5 2022021800		Settings	Additional Required by: filter_ubicast
 Nudgis videos block_ubicast	1.4 2022021800	Enabled		Uninstall Additional

For the Atto plugins, you should have in Site administration > Plugins > Text Editors > Atto HTML editor > Atto toolbar settings, this toolbar config :



2.1.2.2. Adding content as resource

























Enable edit mode, select “Add activity or resource”, scroll down and select “MediaServer resource”:

Add an activity or resource



Search

All Activities Resources

 Assignment ☆ ⓘ	 Book ☆ ⓘ	 Chat ☆ ⓘ	 Choice ☆ ⓘ	 Database ☆ ⓘ	 External tool ☆ ⓘ
 File ☆ ⓘ	 Folder ☆ ⓘ	 Forum ☆ ⓘ	 Glossary ☆ ⓘ	 H5P ☆ ⓘ	 IMS content package ☆ ⓘ
 Label ☆ ⓘ	 Lesson ☆ ⓘ	 Nudgis resource ☆ ⓘ	 Page ☆ ⓘ	 Quiz ☆ ⓘ	 SCORM package ☆ ⓘ
 Survey ☆ ⓘ	 Tin Can Launch Link ☆ ⓘ	 URL ☆ ⓘ	 Wiki ☆ ⓘ	 Workshop ☆ ⓘ	 Imsdemo.ubicas t.tv ☆ ⓘ

Adding a new Nudgis resource

General

Name



Description

Rich text editor toolbar with icons for undo, bold, italic, bulleted list, numbered list, link, unlink, image, video, audio, insert, and refresh.

Rich text editor content area

Display description on course page

Resource

Upload a video

Capture my webcam and/or my screen

Select an existing media

Resource ID



After the media selection process, the content is pre-selected:

▼ Resource

Upload a video

Capture my webcam or my screen

Select an existing media

Current selection:

3s

2019-04-01 13:09:35

Resource ID * ⓘ v125cf1afa397ko5i8j1

And will be accessed by teachers and students using LTI

Announcements

Démo Webstudio

Test Moodle

Le pain

Couper du pain

Edit

0:00 / 0:29

2.1.2.3. Adding content into text editors

If the [UbiCast Nudgis atto button plugin is installed](#), a new button is visible:

Adding a new Nudgis resource

General

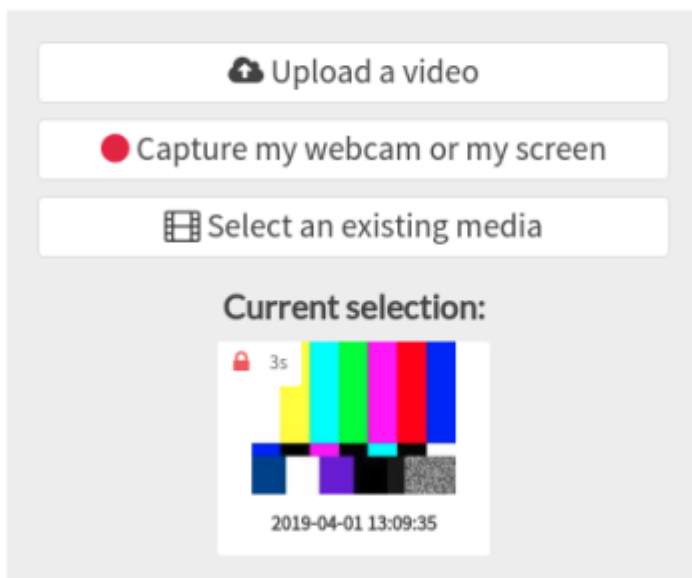
Name

Description



The same selector will be displayed, albeit with additional size settings:

Resource



2.1.2.4. Course block plugin

The [UbiCast Nudgis block plugin](#) adds a new block type:

Add a block ×

Latest announcements
Latest badges
Learning plans
Logged in user
Mentees
Navigation
Nudgis videos
Online users
Private files
Random glossary entry
Recent activity
Recent blog entries
Remote RSS feeds
Search forums
Section links
Self completion

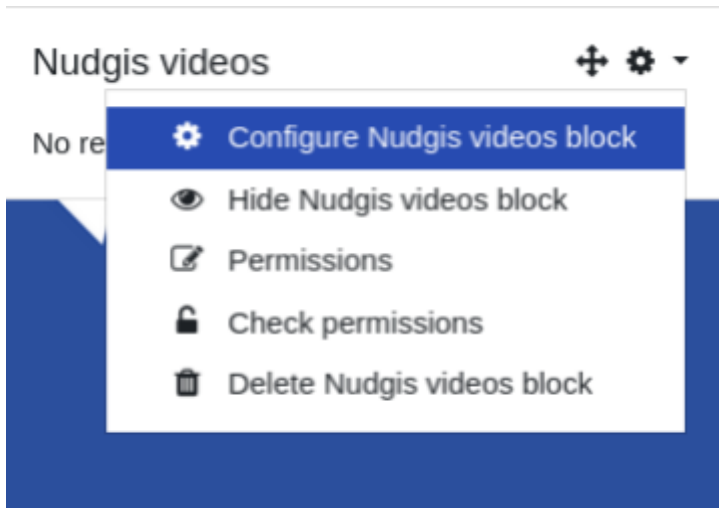
Cancel

Once added, the settings allow to set the channel (or media) to show:

Nudgis videos



No resource ID set.



Note that you need to copy-paste the channel ID:

Configuring a Nudgis videos block

▼ Block settings

Block title

Nudgis videos

Block height (px)

400

Nudgis channel ID















c125850a074c6viiioi42|

The course will now show all videos from the channel in the course:

Nudgis videos



	Test Created on 22 November 2021 at 11:39 AM 5 views Storage usage: 21.3 MB	54 s		
	test Created on 20 November 2021 at 4:42 PM 2 views Storage usage: 18.7 MB	39 s		
	Wébinar - Les usages de la vidéo pédagogique Created on 19 November 2021 at 7:28 PM 1 views Storage usage: 939.4 MB	26 m 34 s		
	Générique Created on 19 November 2021 at 7:21 PM	9 s		

2.2. Blackboard

2.2.1. Blackboard configuration

Please refer to the official Blackboard configuration tutorial:

https://help.blackboard.com/Learn/Administrator/SaaS/Integrations/Learning_Tools_Integration/roperability#addlti13

Step 1: Register the application

To setup the LTI integration in Blackboard, you first have to register your Nudgis portal in the Blackboard applications.

To do that, go on <https://developer.blackboard.com> and click on "My applications".



You don't have any Applications registered yet.

Register one to get the key information and integrate your application with our platform.

[Register a REST or LTI application](#)

Then click on "Register a REST or LTI application".

Fill the information as follows:

(replace the domain with the one of your Nudgis portal and set the value you want in the application name and description)

Register a new application

Enter your applications name and description. Users see this information when adding the application to their environment. Include a version number if there are multiple versions of the application.

* Application Name

* Description

450 character limit

* Domain(s)

Separate domains with commas

Group

My Integration supports LTI 1.3



Login Initiation URL

Tool Redirect URL(s)

Separate URLs with commas

Tool JWKS URL

For a tool's public key access

Signing Algorithm

Custom Parameters

Click on "Register application".

Keep all data from the resulting page aside:

Your Nudgis Key

Important note!

The secret is only shown once. Make note of the application key and secret and store them in a safe and secure location.

Application key

08b [redacted] b797c2

Copy

Secret

8u: [redacted] rCq7

Copy

Application ID

d5 [redacted] 947f

Copy

Issuer

https://blackboard.com

Copy

Public keyset URL

https://developer.blackboard.com/.well-known/jwks.json

Copy

Auth token endpoint

https://developer.blackboard.com/api/v1/gateway/oauth2/jwttoken

Copy

OIDC auth request endpoint

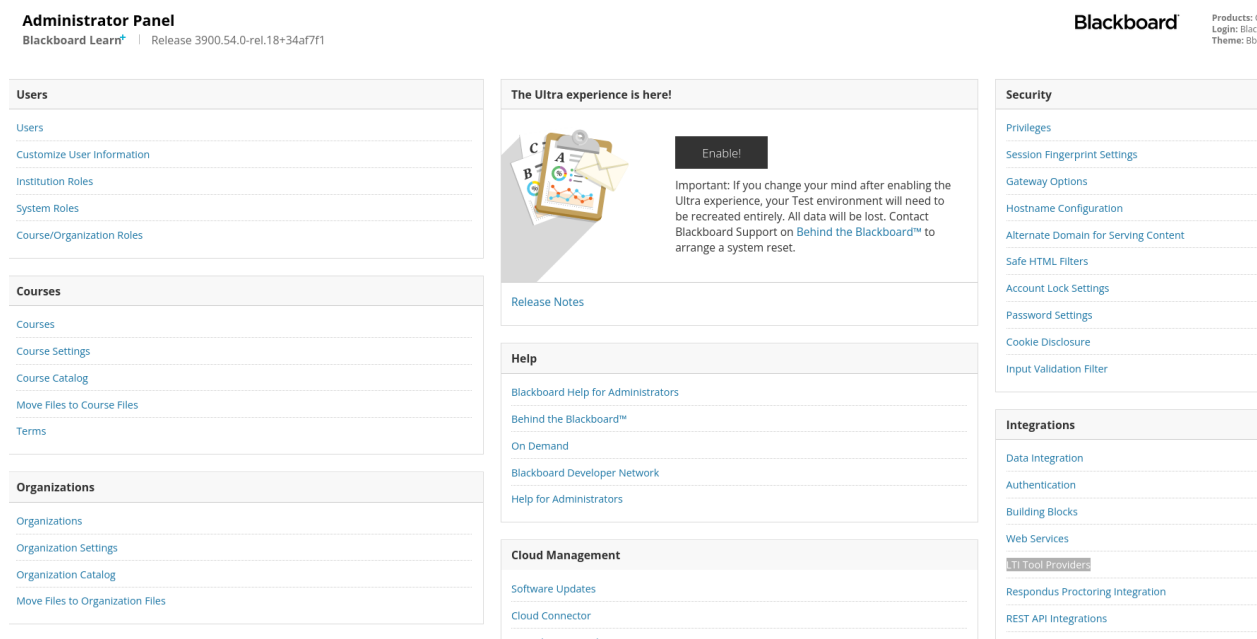
https://developer.blackboard.com/api/v1/gateway/oidcauth

Copy

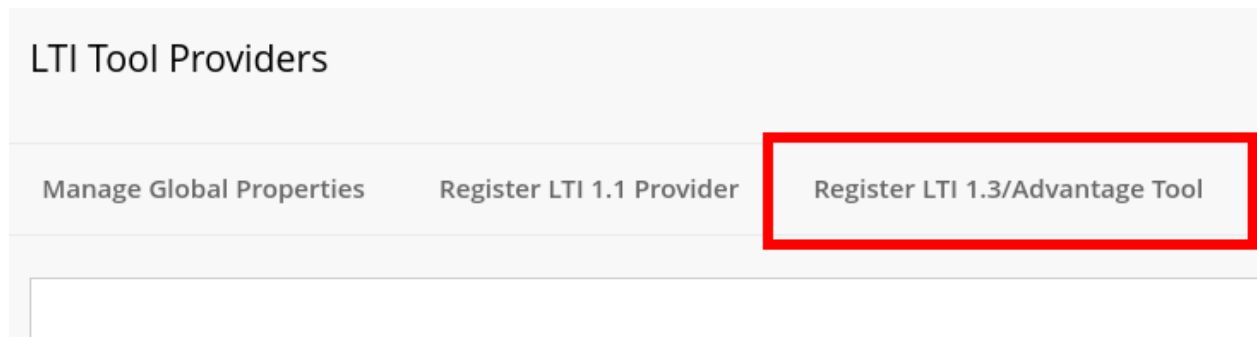
Done

Step 2: Register the tool

In your Blackboard portal, go to "Administrator Panel" > "LTI Tool Providers" (in "Integrations" section):



Click on "Register LTI 1.3/Advantage tool":



Put the value of the "Application key" from step 1 in the client id field and click on submit.

In the resulting page, set "Tool status" as "Approved", check all boxes in "User fields to send" and set "Allow grade service access" to "Yes".

Keep the value of deployment id, it will be necessary for the Nudgis configuration.

TOOL STATUS

Client ID	<input type="text" value="d52... 47f"/>
Name	<input type="text" value="Your Nudgis"/>
Description	<input type="text" value="Your Nudgis portal"/>
Deployment ID	<input type="text" value="5... f273"/>
Initiate Login URL	<input type="text" value="https://c... /lti/adv/login/"/>
Tool Redirect URLs	<input type="text" value="https://c... /lti/adv/launch/"/>
JWKS URL	<input type="text" value="https://... /lti/adv/jwks/"/>
Domains	<input type="text" value="... fr"/>
Tool Status	<input checked="" type="radio"/> Approved <input type="radio"/> Excluded
Tool Provider Custom Parameters	<input type="text"/>

INSTITUTION POLICIES

User Fields to Send	<input checked="" type="checkbox"/> Role in Course <input checked="" type="checkbox"/> Name <input checked="" type="checkbox"/> Email Address
Allow grade service access	<input checked="" type="radio"/> Yes <input type="radio"/> No
Allow Membership Service Access	<input type="radio"/> Yes <input checked="" type="radio"/> No
Show User Acknowledgment Message	<input type="radio"/> Yes <input checked="" type="radio"/> No

Click on "submit" to validate the new tool.

In the tools list, click on the arrow next to the name of the added tool and click on "Manage placements":

LTI Tool Providers

Manage Global Properties Register LTI 1.1 Provider Register LTI 1.3/Advantage Tool

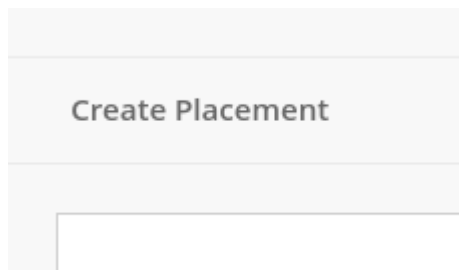
→ Approve Exclude Delete

<input type="checkbox"/>	TOOL/PROVIDER	TOOL TYPE	STATUS	CREDENTIALS	SENDS USER DATA
<input type="checkbox"/>	Blackboard Home	LTI 1.3 Tool	Excluded		No
<input type="checkbox"/>	developer.blackboard.com	LTI 1.1 Tool	Approved	Per Link	No
<input checked="" type="checkbox"/>	Your Nudgis	LTI 1.3 Tool	Approved	RS256	Role, Name, Email

→ Approve

- Edit
- Manage Placements
- Usage Report
- Approve
- Exclude
- Delete

Click on the create placement button:



Add a placement to allow users to select content from Nudgis.


You can choose to activate or not "Allow student access".

You can set any value in "Handle".

In the "Target link URI", you can add "?all" in the URL end in order to show all content to users and not only the content which belongs to the user.

PLACEMENT INFORMATION

* Label

Description
For the toolbar, press ALT+F10 (PC) or ALT+FN+F10 (Mac).


P

* Handle

* Availability Yes No

Type Deep Linking content tool
 Allow student access

 Course content tool
 Allows grading

 Course tool
 Allow student access

 System tool
 Administrator tool
 Base navigation tool
 Course navigation tool
 Cloud document

Launch in New Window

Icon

TOOL PROVIDER INFORMATION

* Target Link URI

Step 3: Configure LMS in Nudgis

In Nudgis, go to "Administration" > "Authentication services" > "LTI" and click on "Register a new LMS" in the "LMS (Learning Management System) definitions" section.

Fill the information as follows:

The client identifier is the "application id" value from step 1.

The deployment identifier value is get from step 2.

LMS (Learning Management System) definitions

This section is applicable only to LTI 1.3.

▼ Register a new LMS

❓ Issuer:

❓ Client identifier:

❓ Login endpoint:

❓ Authorization endpoint:

❓ OAuth2 audience:

❓ JWKS endpoint:

❓ Deployment identifiers:

❓ Key to use:

2.2.2. Adding content

Please refer to the official Blackboard documentation :

https://help.blackboard.com/Learn/Instructor/Ultra/Course_Content/Create_Content/Add_Content_From_External_Sources

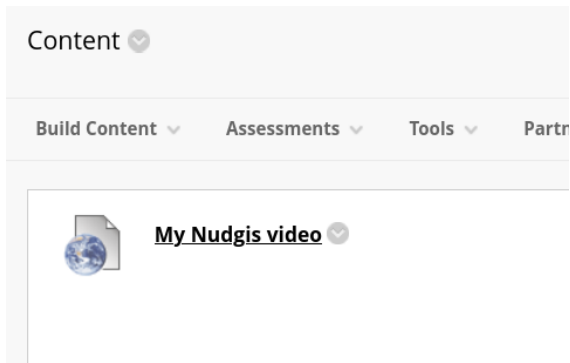
Go to a course in Blackboard and click on the "Content" link in the navigation bar.

Hover the "Build content" button and click on the "Nudgis content" link.

The screenshot shows the Blackboard interface for a course named "Test course". The navigation bar at the top includes "Test course" and "Content". The left sidebar contains a navigation menu with items like "Home Page", "Information", "Content", "Discussions", "Groups", "Tools", and "Help". Below this is the "Course Management" section, which includes "Control Panel", "Content Collection", "Course Tools", "Evaluation", and "Grade Center". The main content area is titled "Content" and features a "Build Content" button. A dropdown menu is open from "Build Content", listing various content creation options. The "Nudgis content" option is highlighted with a red rectangular box.

Content	
Build Content	Assessments
Tools	Partner Co
<i>Create</i>	<i>New Page</i>
Item	Content Folder
File	Module Page
Audio	Blank Page
Image	<i>Mashups</i>
Video	Flickr Photo
Web Link	SlideShare Presentation
Learning Module	YouTube Video
Lesson Plan	
Syllabus	
Course Link	
Content Package (SCORM)	
Nudgis content	

Once the Nudgis content is selected, it will appear in the Blackboard course content.

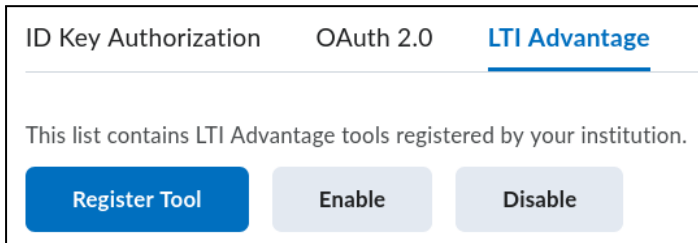


2.3. Brightspace

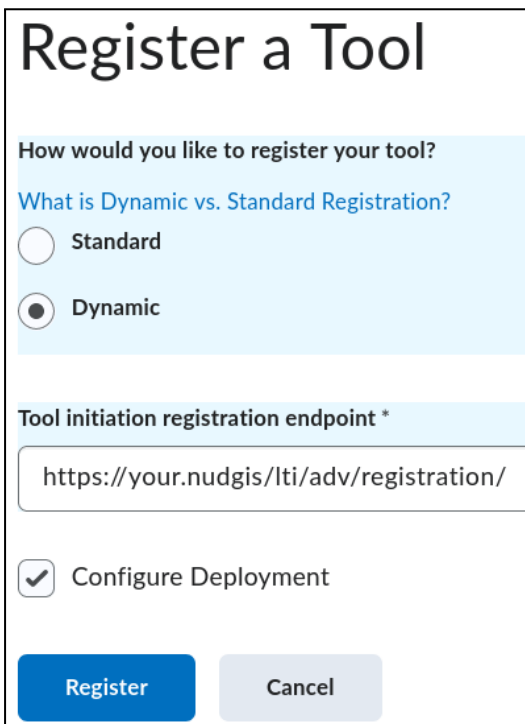
2.3.1. Brightspace setup

As an administrator, go to "Admin tools" > "Manage Extensibility" > "LTI Advantage".

Click on "Register Tool":



Then copy and paste the Nudgis dynamic registration URL:

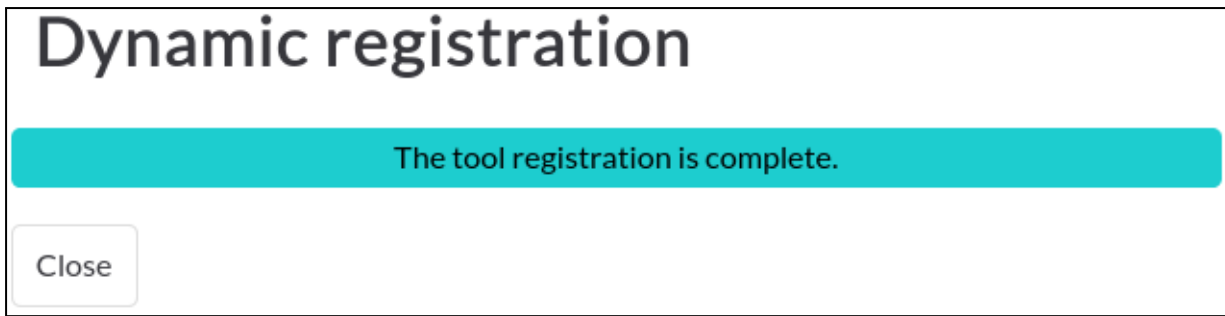


Be sure to check the "Configure deployment" box.

Remember that LTI must be enabled in Nudgis and that you must be logged in Nudgis with an administrator account to use this URL.

Click on the "Register" button.

A popup will appear and you should see a success message:

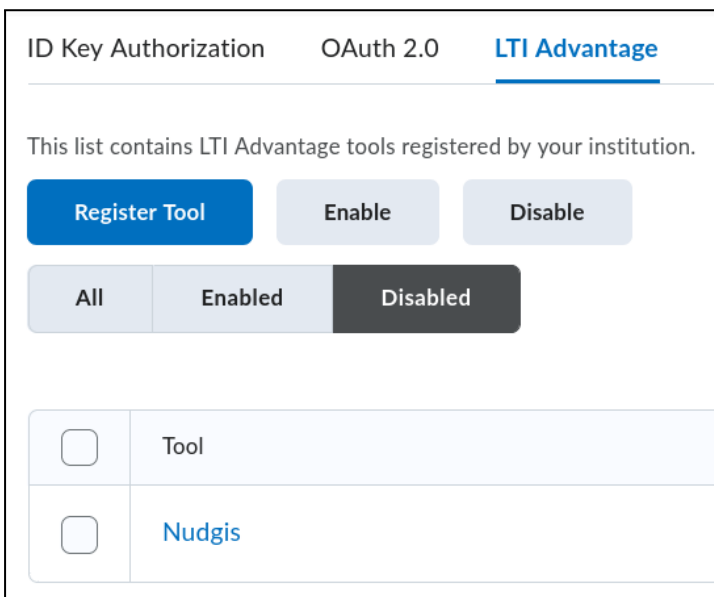


Click on the "Close" button.

The Nudgis tool provider is now registered in Brightspace.

You have to enable it to make it available.

To do that, select the tool and click on the "Enable" button next to the "Register" button.



Now, go to "Admin tools" > "External Learning Tools" > "LTI Advantage".


You should see your Nudgis in the enabled tools providers. If it is not enabled, you have to enable it like in the previous page.

External Learning Tools ? Help

[LTI Advantage](#) [Manage Tool Links \(Legacy\)](#) [Manage Tool Providers \(Legacy\)](#) [Migration Log](#)

You can now migrate from Legacy LTI [Learn More](#)

[New Deployment](#) [Enable](#) [Disable](#)

[All](#) [Enabled](#) [Disabled](#) 

1 item in the list.



<input type="checkbox"/>	Deployment Name ▲	Registration Name	Available Extensions	Last Modified Date	Status
<input type="checkbox"/>	Nudgis	Nudgis	<input checked="" type="checkbox"/> Assignment and Grade Services <input checked="" type="checkbox"/> Deep Linking	2/1/2023 6:02 PM	Enabled

If you intend to use the Nudgis feature that moves automatically the content according to the LTI context, you will have to enable the context fields in the tool provider.

To do that, click on the Nudgis link and check the "Link information" in security settings then save the changes:

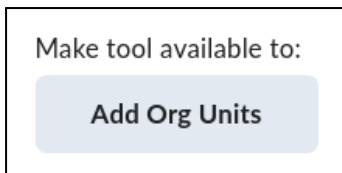
Security Settings

Select the information to share with the tool:

- Anonymous
- Org Unit Information 
- User Information
 - Name
 - First Name
 - Middle Name
 - Last Name
 - Email
 - User ID
 - Username
 - Org Defined Id
- Link Information
 - Title
 - Description
- Classlist including users not known to this deployment 

For the tool provider to be available in courses, you will have to allow it in each course you want.

In the settings of the tool provider, click on "Add Org Units":



Choose the courses you want:

Add Org Units ✕

Filter by Org Unit Type

Choose Org Unit Typ Search... 🔍

<input checked="" type="checkbox"/>	Name ▲ , Code	Type	Options
<input checked="" type="checkbox"/>	Adventures with GBL, Dev-GBL	Course Offering	
<input checked="" type="checkbox"/>	All Migrated Courses Semester, sem_courseconversion_d2l	Semester	<input checked="" type="radio"/> This org unit <input type="radio"/> All descendants <input type="radio"/> This org unit and all descendants
<input checked="" type="checkbox"/>	Brightspace Accessibility, BA	Course Offering	
<input checked="" type="checkbox"/>	Brightspace Samples, dept_sample	Department	<input checked="" type="radio"/> This org unit <input type="radio"/> All descendants <input type="radio"/> This org unit and all descendants
<input checked="" type="checkbox"/>	Build Your Course, Build	Course Offering	
<input checked="" type="checkbox"/>	Build Your Course Template, temp_build	Course Template	<input checked="" type="radio"/> This org unit <input type="radio"/> All descendants <input type="radio"/> This org unit and all descendants

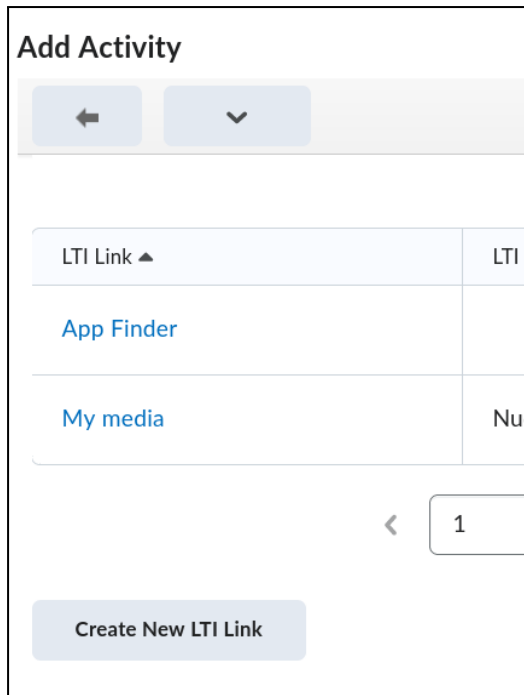
Add
Cancel

Then click on "Add" and save the changes of the settings.

2.3.2. Using the test page

If you need to use the test page, you will have to go to a course module where the tool provider is allowed.

Click on the "Existing activities" button and on "External learning tools":

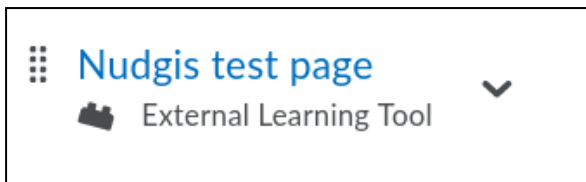


Click on "Create new LTI link".

Fill the name and the URL and click on "Create and insert":

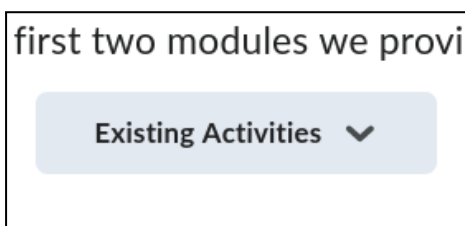
The screenshot shows the 'Add Activity' screen with the 'Create' form. The form has three main sections: 'Title *' with the value 'Nudgis test page', 'LTI URL *' with the value 'https://your.nudgis/lti/adv/test/', and 'Tool *' with a dropdown menu set to 'Legacy LTI Too'. At the bottom, there are three buttons: 'Create and Insert' (highlighted in blue), 'Create', and 'Cancel'.

You will now have an activity in the course that allows you to access the Nudgis test page:



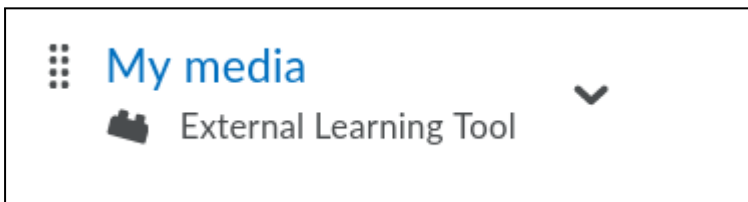
2.3.3. Adding content

For each allowed course, a button to select or create a media from Nudgis is available in the "Existing activities".



The name of the link can be changed in the "View links" section of the tool provider settings of Brightspace.

Once a media is selected, it will appear as a course activity:

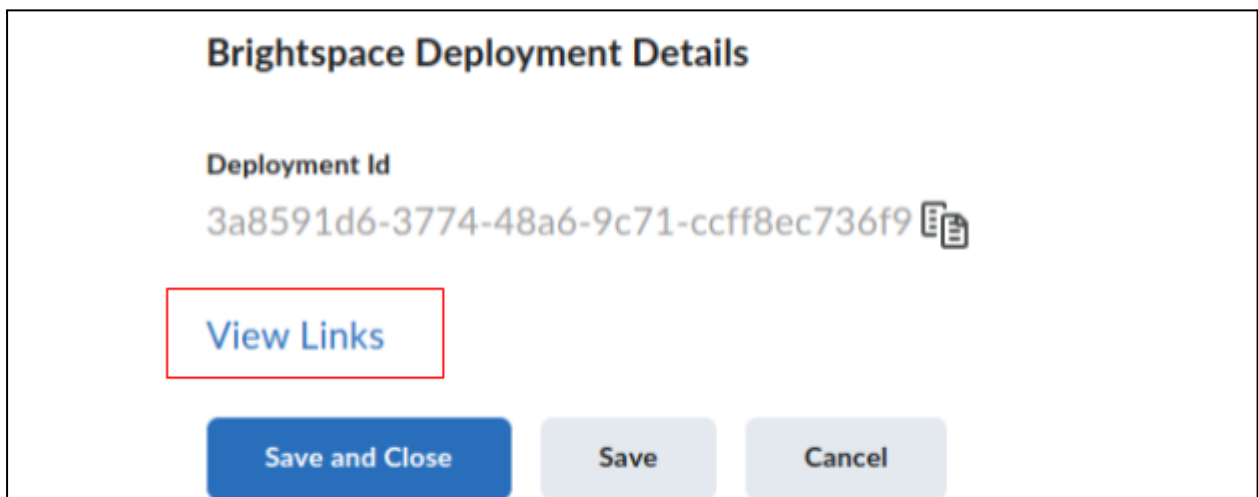


And when a user click on it, it opens the content with the permissions granted by the user role:

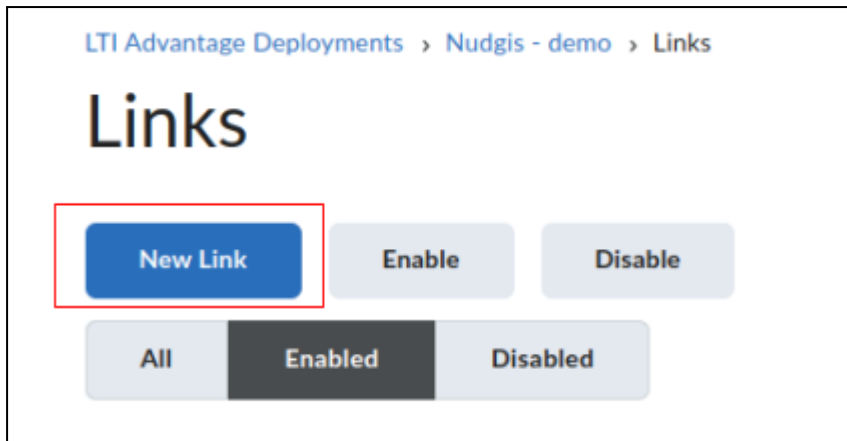


2.3.4. Enable content insertion in text editors

A) From the Brightspace External Learning Tools configuration page of the Nudgis integration, at the bottom of the page, click on the “View Links” link:



B) Click on “New Link”






C) Select the “Deep Linking Insert Stuff” type

D) From now on the icon below in any text field will allow to insert content

Create a File in "tst module"









Test file Select a Document Template ▾

Hide from Users

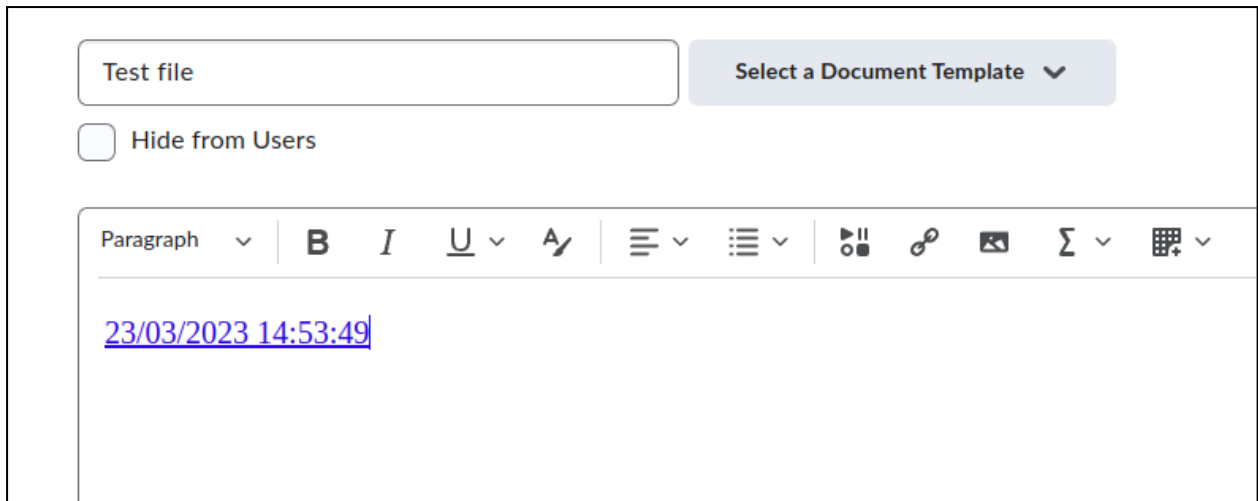
Paragraph ▾ | **B** *I* U ▾ ~~A~~ | ▮ ▮ ▮ ▾ | ▮ ▮ ▮ ▾ |    Σ ▾

|

Insert Stuff

-  My Computer >
-  **Insert link to Nudgis video** >
-  Course Offering Files >
-  Public Files >
-  Learning Repository >
-  ePortfolio >
-  Add Video Note >
-  Video Note Search >

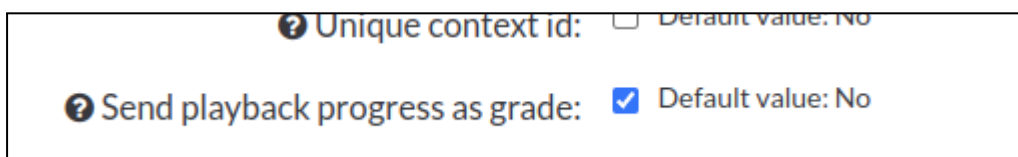
Cancel



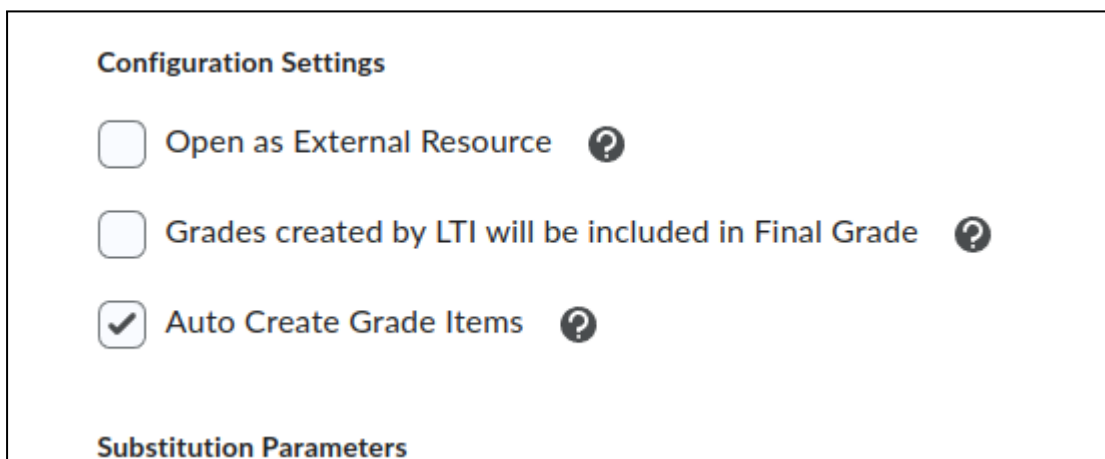
2.3.5. Enabling playback grades

The player will report a playback grade when the student leaves the page (1.0 if he watched the entire video).

A) Make sure that the “Send playback progress as grade” is enabled on Nudgis:



B) Ensure that “Auto Create Grade Items” is enabled in the Brightspace External Learning Tool setup page




C) Grades will now show up in the Manage Grades page (remember that grades will only get reported for Learner/Student roles, not admin or teacher)

Content Quick Eval Assignments Discussions Quizzes Classlist **Grades**

Enter Grades **Manage Grades** Schemes Setup Wizard

New ▾ More Actions ▾

 Bulk Edit

<input type="checkbox"/>	Grade Item
<input type="checkbox"/>	Playback ▾ ⓘ
<input type="checkbox"/>	Final Calculated Grade ▾

Item Statistics: Playback

Class Statistics

User Statistics

Playback Class Statistics

Number of submitted grades: 1 / 2

Minimum: 77 %

Maximum: 77 %

Average: 77 %

Mode: None

Median: 77 %

Standard Deviation: 0 %

Grade Distribution

