


Kaltura LMS integration for Brightspace - Upgrading from LTI 1.1 to LTI 1.3

Last Modified on 01/08/2025 4:18 pm IST

 This article is designated for administrators.

About

This guide describes how to upgrade the Kaltura LMS integration for Brightspace from LTI 1.1 to LTI 1.3.

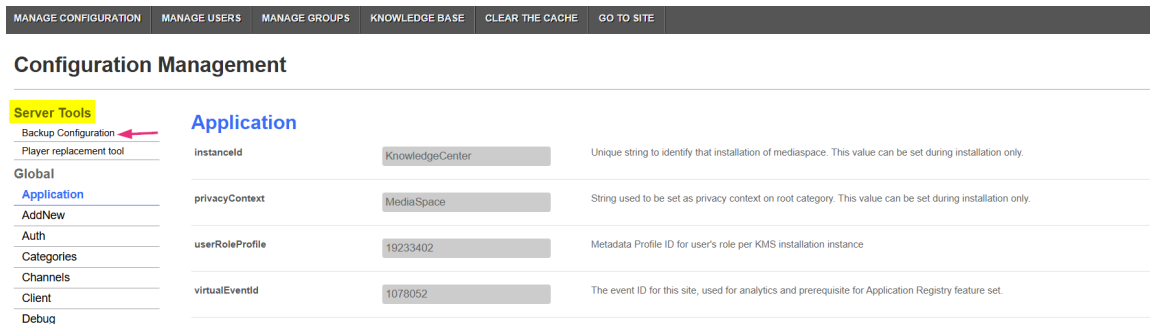
 As of August 8, 2022 with the release of KAF version 5.108.10x, Kaltura has added the capability for KAFs configured for LTI 1.3 to continue supporting the launch of old embed codes added using the Kaltura Browse Search and Embed tool which supported LTI 1.1 with the same KAF.

Prerequisites

- Administrator access to the Brightspace account that is integrated with Kaltura
- Kaltura Application Framework (KAF) instance of type 'D2L' (minimal KAF version v5.108.10x)

Step 1 - Backup your KAF Configuration

1. Login to your KAF Configuration Management page (https://{your_KAF_base_URL}/admin).
2. Under **Server Tools**, click on **Backup Configuration**.



The screenshot shows the KAF Configuration Management interface. At the top, there is a navigation bar with links: MANAGE CONFIGURATION, MANAGE USERS, MANAGE GROUPS, KNOWLEDGE BASE, CLEAR THE CACHE, and GO TO SITE. Below this is the 'Configuration Management' section. On the left, there is a 'Server Tools' menu with 'Backup Configuration' highlighted and a red arrow pointing to it. Other menu items include Player replacement tool, Global, Application, AddNew, Auth, Categories, Channels, Client, and Debug. The main content area is titled 'Application' and contains a table with configuration parameters:

instanceId	KnowledgeCenter	Unique string to identify that installation of mediaspace. This value can be set during installation only.
privacyContext	MediaSpace	String used to be set as privacy context on root category. This value can be set during installation only.
userRoleProfile	19233402	Metadata Profile ID for user's role per KMS installation instance
virtualEventId	1078052	The event ID for this site, used for analytics and prerequisite for Application Registry feature set.

3. Click **Save Backup**.

Backup Configuration

Server Tools

[Backup Configuration](#)

Player replacement tool

Global

Application

AddNew

Create a snapshot of the current site configuration (all modules) as a 'Last Good Configuration'. We recommend setting the backup snapshot once the initial setup is completed.

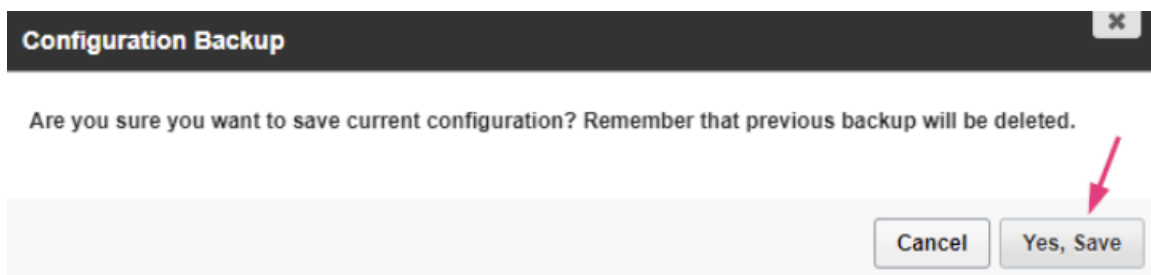
Save Backup

Restore Last Saved Configuration


Last configuration save date: 2023-04-10 16:50:40 GMT

A confirmation message displays: *Are you sure you want to save current configuration? Remember that previous backups will be deleted.*

4. Click **Yes, Save**.

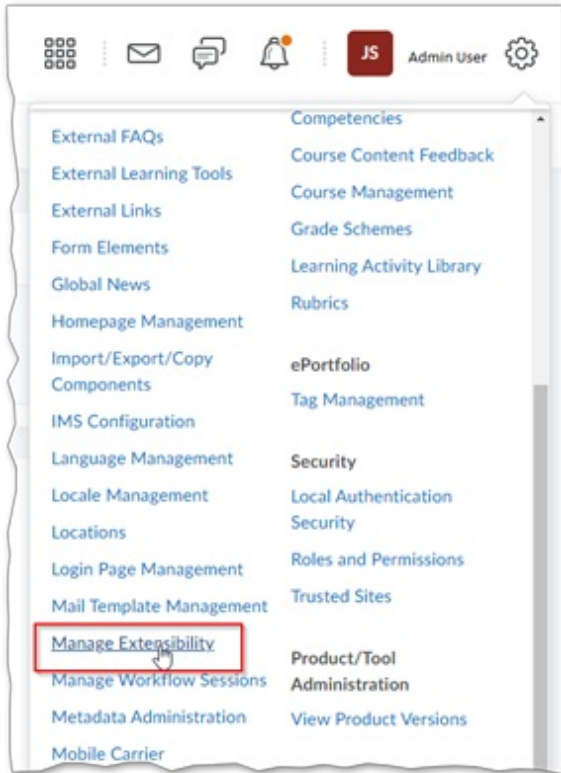


5. Once the backup is complete, you'll see a confirmation message: *Configuration file was saved successfully.*

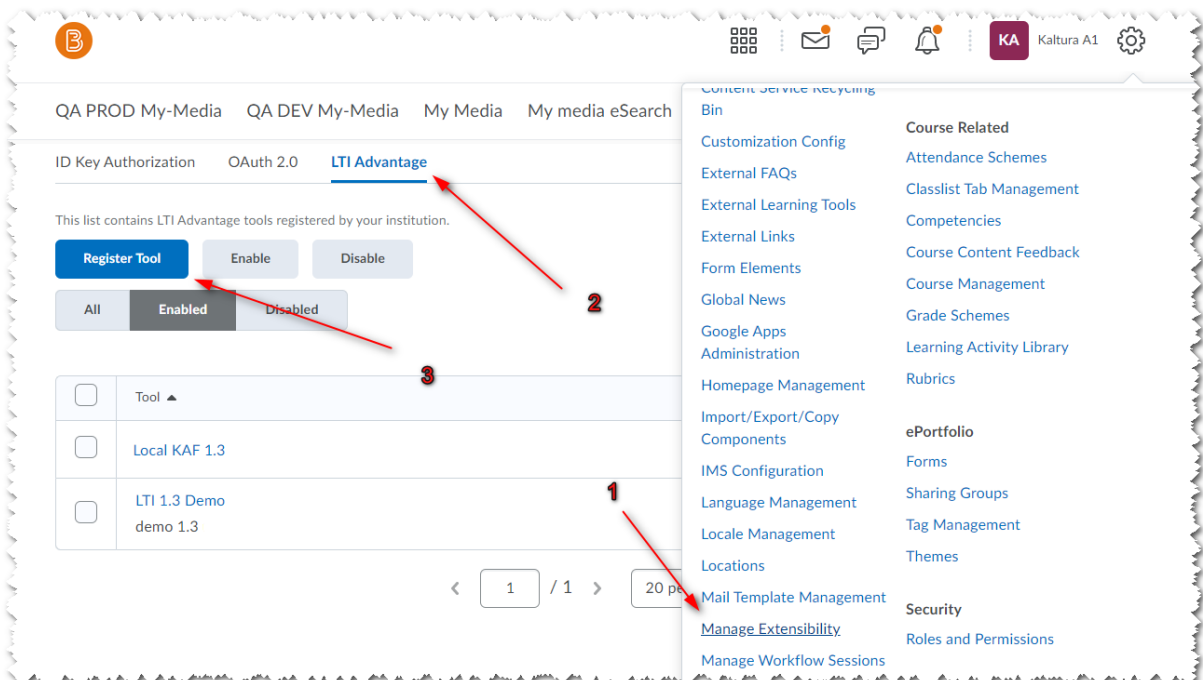
 The backup page will display the 'last configuration save date', which reflects the date when the configuration settings were last modified, not the date the backup was performed.

Step 2 - Register the Kaltura tool in Brightspace

1. Log into your Brightspace instance using an Admin account.
2. In your Brightspace instance, click the gear icon on top right corner of the page (admin tools button), and select **Manage Extensibility** from the dropdown.



3. In Manage Extensibility page click the **LTI Advantage** tab, then click the **Register Tool** button.



The **Register a Tool** page displays.

4. Click the **Standard** radio button to display the tool registration fields. For the steps that follow, please refer to this image:

Register a tool

How would you like to register your tool?

What is Dynamic vs. Standard Registration?

Standard

Dynamic

Enabled

Name*

Description

Domain*

Redirect URLs*

+ Add Redirect URL

OpenID Connect Login URL*

Target Link URI

Keyset URL

Extensions

What are Extensions?

Assignment and Grade Services

Deep Linking

Names and Role Provisioning Services

Roles

Send Institution Role

Substitution Parameters

What are Substitution Parameters used for?

No items found.

+ Add Substitution Parameter

Custom Parameters

What are Custom Parameters used for?

No items found.

+ Add Custom Parameter

Enabled should be checked. If it isn't, click on the slide button to enable the tool.

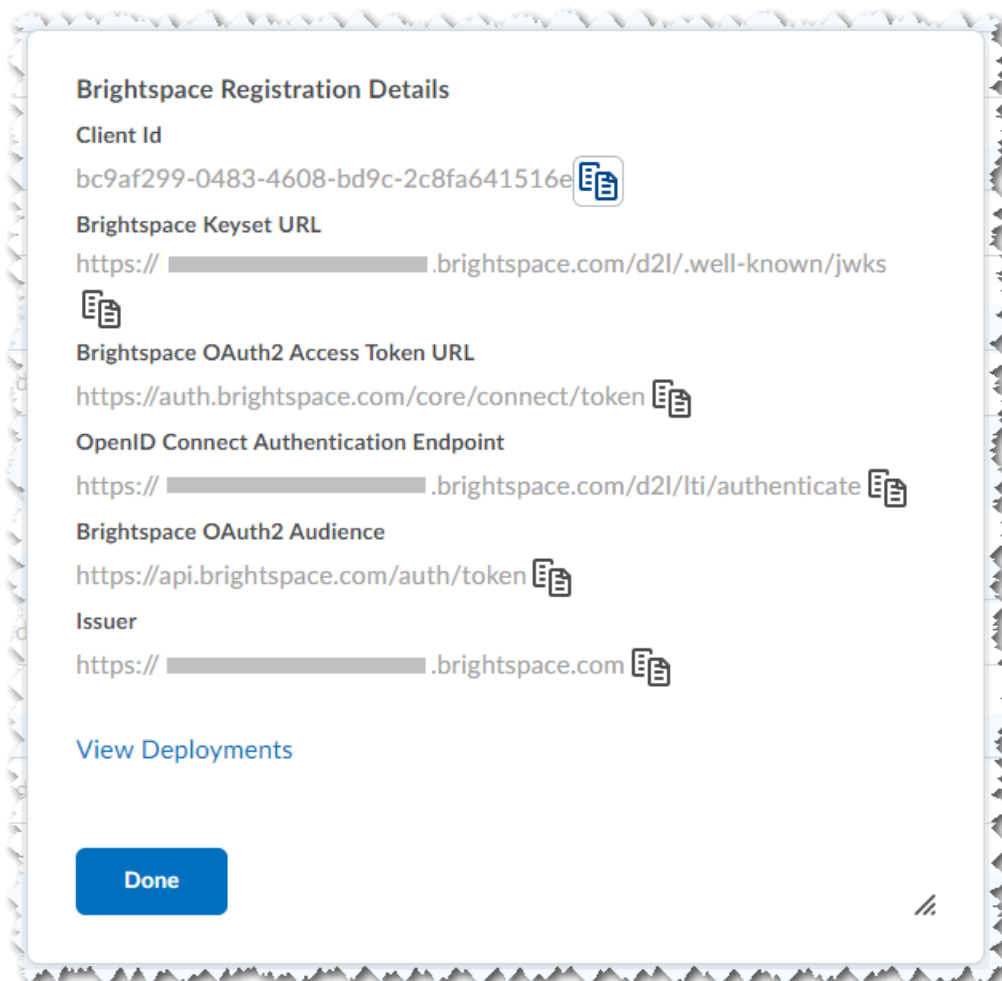
5. Fill in the following fields:

- **Name** - give a general name to the tool. E.g: "Kaltura KAF LTI 1.3 integration".
- **Description** - optional.
- **Domain** - Set to your KAF base URL `https://{your_KAF_base_URL}` e.g.,
"https://12345.kaf.kaltura.com"
- **Redirect URIs** - Set to `https://{your_KAF_base_URL}/hosted/index/oauth2-launch`.

e.g., “https://12345.kaf.kaltura.com/hosted/index/oauth2-launch”

- **OpenID Connect Login URL** - Set to https://{your_KAF_base_URL}/hosted/index/oidc-init. for example, “https://12345.kaf.kaltura.com/hosted/index/oidc-init”
- **Target Link URI** - leave this field blank
- **Keyset URL** - Set to https://{your_KAF_base_URL}/hosted/index/lti-advantage-key-set. e.g., “https://12345.kaf.kaltura.com/hosted/index/lti-advantage-key-set”
- **Extensions** - check the items listed below.
 - Assignment and Grade Services
 - Deep Linking
 - Names and Role Provisioning Services
- **Roles** - Check the Send Institution Role
- Click the **Register** button.

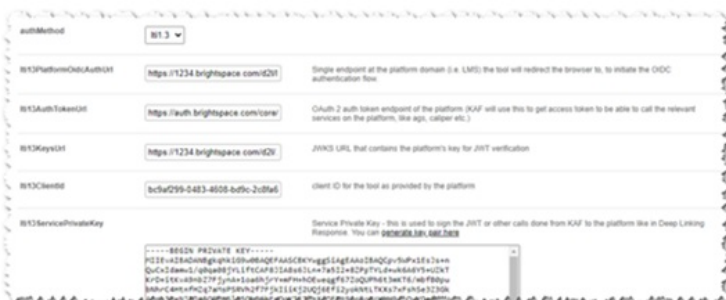
The following alert displays.



6. Click **Done**

Step 3 - Update your instance to LTI 1.3

1. In Brightspace, navigate to the Administration LTI Advantage page by going to Admin Tools > Manage Extensibility > LTI Advantage (refer to steps 1 - 3 in the [Register the Kaltura Tool in Brightspace](#) section.)
2. Click on the name of the tool your created.
3. In the page to edit the tool, scroll down to the **Brightspace Registration Details**.
4. In a separate browser tab or window, log into your **D2L KAF Configuration Management** page (https://{your_KAF_base_URL}/admin).
5. Navigate to the Hosted module (https://{your_KAF_base_URL}/admin/config/tab/hosted).
6. Perform the following steps using the information listed under the **Brightspace Registration Details**:
 - a. Set **authMethod** to **Iti1.3**
This will expose the fields listed in steps a - f.
 - b. Set the **Iti13PlatformOidcAuthUrl** value to the value listed for the **OpenID Connect Authentication Endpoint**.
(for example, https://{your_D2L_Domain}/d2l/iti/authenticate)
 - c. Set the **Iti13AuthTokenURL** value to the value listed for the **Brightspace OAuth2 Access Token URL**.
(for example, <https://auth.brightspace.com/core/connect/token>)
 - d. Set the **Iti13KeysURL** value to the value listed for the **Brightspace Keyset URL**.
(for example, https://{your_D2L_domain}/d2l/.well-known/jwks)
 - e. Set the **Iti13ClientId** to the value listed for the **Client Id**
 - f. In the **Iti13ServicePrivateKey** section click the **“Generate key pair here”** link. This will generate the private and public keys.
 - g. In the **Certificate Generator** frame click the **Use** button to have the key pairs saved to the **Iti13ServicePrivateKey** and **Iti13ServicePublicKey** fields.
7. Scroll to the bottom of the Hosted module settings and click **Save**.




D2L Brightspace LTI Migration: Upgrading legacy links to LTI Advantage (1.3) Once your instance is updated

to LTI 1.3, consider migrating any existing LTI 1.1 links to ensure compatibility. Here are the recommended methods for migration:

- **Migrate Button** - Use the Manage Tool Links (Legacy) tab in Brightspace to manually migrate links to LTI 1.3.
- **LTI Migration API** - Automate the migration process with the LTI Migration API for large-scale changes.
- **Course Import** - Re-import courses to apply the updated LTI 1.3 links across multiple courses.
- **Course Copy** - Copy course content with updated LTI 1.3 links into new course offerings.

For detailed instructions on each method, refer to the [Set up Brightspace integrations documentation](#) for more information.

Step 4 - Add the LTI 1.3 tools

1. In Brightspace, navigate to the Administration LTI Advantage page by going to - Admin Tools > Manage Extensibility > LTI Advantage (refer to steps 1 - 3 in the [Register the Kaltura Tool in Brightspace](#) section.)
2. Click on the name of the tool you created and navigate to the bottom of the page.
3. Click on the **View Deployments** button.
4. Click on the **New Deployment** button.
5. **Enabled** should be checked. If it is not, click on the slide button to enable the tool.
6. Fill in the configuration values as follows:
7. **Tool** - Select the tool registered in the Register the Kaltura Tool in Brightspace section.
8. **Name** - enter a name for the tool set (for example, **Kaltura LTI 1.3 Tools**)
9. **Description** - optional
10. **Extensions** - check all three check boxes:
 - o **Assignment and Grade Services**
 - o **Deep Linking**
 - o **Names and Role Provisioning Services**
11. **Security Settings** - check the following boxes, and their child boxes:
 - o **Org Unit Information**
 - o **User Information**
 - o **Link Information**
 - o **Classlist including users not know to tool**
12. **Configuration Settings** - check the following box:
 - o **Auto Create Grade Items**
13. **Make the tool available to** - Select your org unit, and add **All descendants**.



Tool *
Kaltura KAF LTI 1.3 Integration

Name *
Kaltura LTI 1.3 Tools

Description
External Learning Tools for Kaltura

Extensions
What are Extensions?
 Assignment and Grade Services
 Deep Linking
 Names and Role Provisioning Services

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

Configuration Settings

- Open as External Resource
- Grades created by LTI will be included in Final Grade

Substitution Parameters
What are Substitution Parameters used for?
No items found.
[+ Add Substitution Parameter](#)

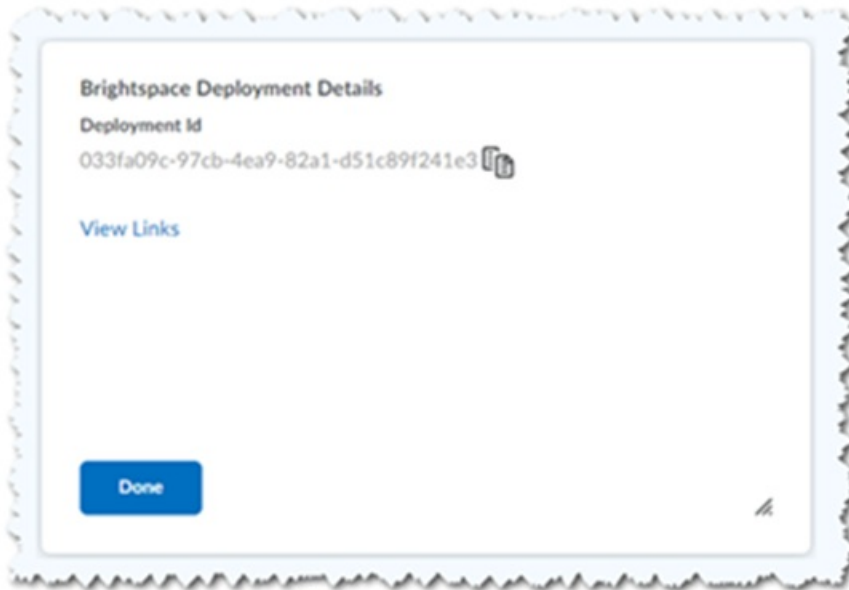
Custom Parameters
What are Custom Parameters used for?
No items found.
[+ Add Custom Parameter](#)

Make tool available to:
[Add Org Units](#)

The Organization: Kaltura



14. Click the **Create Deployment** button. The following confirmation alert displays:



15. Click **View Links** to move to the next steps.

✔ If you click **Done** by mistake, you will be able to access the links view in the next section.

Step 5 - Configure the Kaltura user ID value

The default Kaltura User ID value will be your Brightspace User ID.

With the Kaltura LMS integration, user ID records are passed from the LMS to Kaltura in the LTI Launch. A Kaltura admin can configure settings in KAF which will determine which claim:property pair to use from the launch as the Kaltura User ID.

With the implementation of LTI 1.3, Kaltura has added fields in the Hosted module to support the user ID assignment in Kaltura.

Iti13UserIdClaim - the LTI Claim from which the user ID should be taken from

Iti13UserIdClaimProperty - the property from the claim that the user ID should be taken from

When using LTI 1.1 as the authentication method (KAF>Hosted>authmethod=Iti) for Kaltura, admins used the KAF Hosted module's **ItiUserIdAttribute** field to set the value for which LTI attribute to use for the user ID value.

LTI 1.1 default value:

- **ItiUserIdAttribute** = `ext_d2l_username`

⚠ If the value for `ltiUserIdAttribute` in your KAF instance is not set to `ext_d2l_username`, please read the following Kaltura Knowledge Center article before proceeding: [Configuring the Kaltura User ID Value to Use with Your LMS Integration](#).

When using LTI 1.3 as the authentication method `KAF>Hosted>authmethod=lti1.3` for Kaltura, admins used the KAF Hosted module's **lti13UserIdClaim** and `lti13UserIdClaimProperty` field to set the value for which LTI attribute to use for the user ID value.

LTI 1.3 default values:

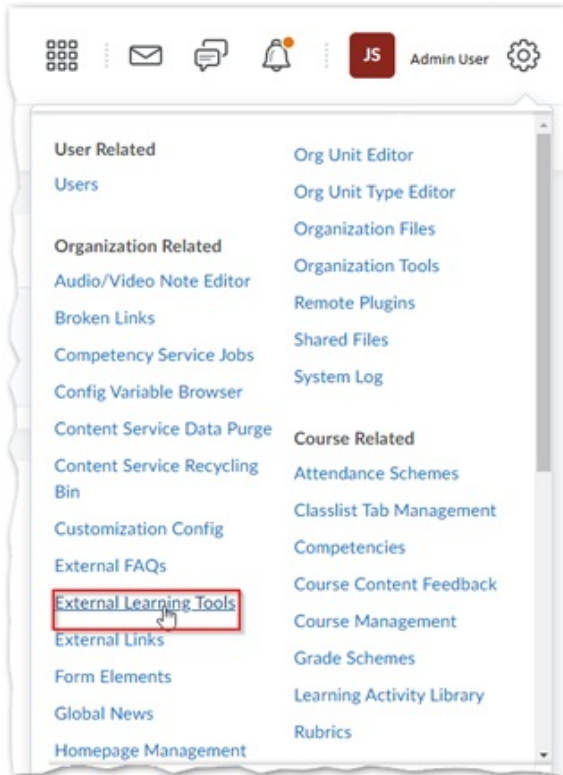
- `ltiUserIdAttribute` = blank
- `lti13UserIdClaim` = `http://www.brightspace.com`
- `lti13UserIdProperty` = `username`

To view and configure these settings using the default values:

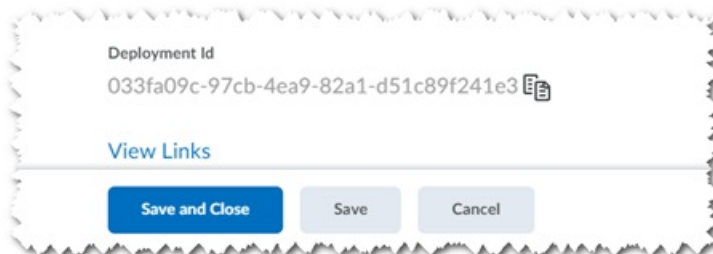
1. Login to your KAF Configuration Management page
(`https://{your_KAF_base_URL}/admin`)
2. Navigate to the Hosted Module
(`https://{your_KAF_base_URL}/admin/config/tab/hosted`)
3. Scroll down on the page to the **ltiUserIdAttribute** setting.
4. If the value for **ltiUserIDAttribute** is set to **ext_d2l_username** then proceed to step 6.
Otherwise please read the following Kaltura Knowledge Center article before proceeding. [Configuring the Kaltura User ID Value to Use with Your LMS Integration](#).
5. Set **ltiUserIdAttribute** = blank
6. Set **lti13UserIdClaim** = `http://www.brightspace.com`
7. Set **lti13UserIdProperty** = `username`
8. Scroll to the bottom of the **Hosted module** settings and click **Save**.

Step 6 - Add the Kaltura tools / links

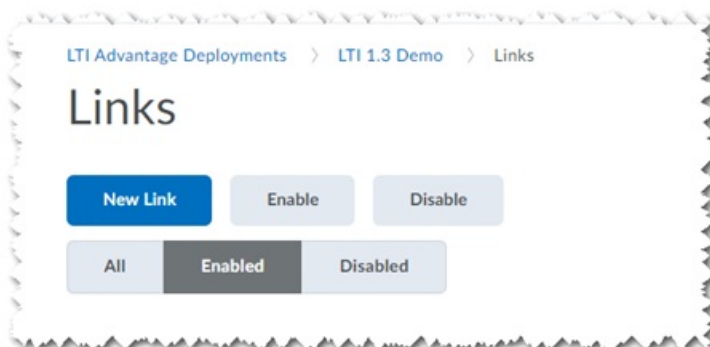
1. In Brightspace, click the gear icon on top right (admin tools button), and click on **External Learning Tools**.



2. On the LTI Advantage page click on the tool you created, scroll to the bottom of the page, and click on **View Deployments**. This is where you will see the tool Deployment Id, and a **View Links** link. Click on the **View Links** link, a new browser tab opens.



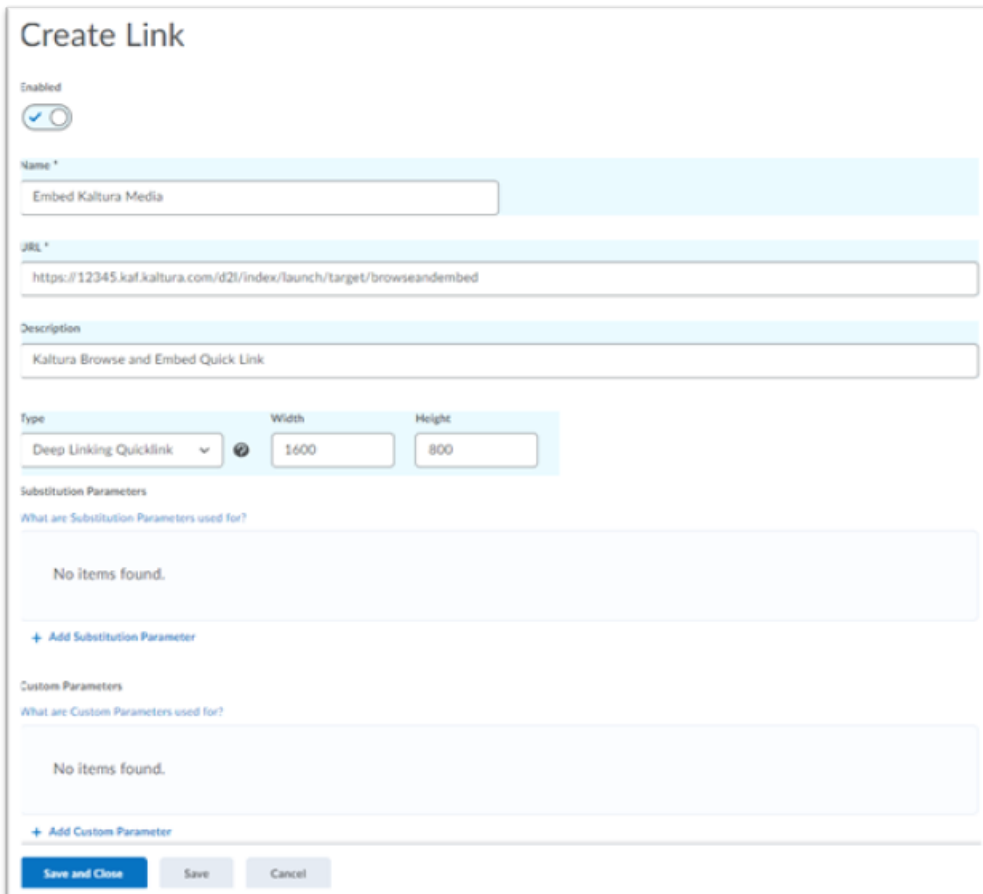
3. Click on the **"New Link"** button, and fill in the configuration for each of the Kaltura tools you would like to create:



Browse, Search, and Embed (BSE) - Quick Link

Use these steps to add the Kaltura BSE tool as a Brightspace Quick Link.

1. Clicking the **New Link** button will display the **Create Link** page.
2. **Enabled** should be checked. If it isn't, click on the slide button to enable the tool.
3. Fill in the following information:
 - a. **Name** - the name that users will see for the tool: **Embed Kaltura Media**
 - b. **URL** - `https://{your_KAF_Base_URL}/d2l/index/launch/target/browseandembed`
(for example,
`https://12345.kaf.kaltura.com/d2l/index/launch/target/browseandembed`)
 - c. **Description** - optional
 - d. **Type** - select **Deep Linking Quicklink**, set Width 1125, Height 600
 - e. **Substitution Parameters** - optional
 - f. **Custom Parameters** - options
4. Click **Save**.



Create Link

Enabled

Name *
Embed Kaltura Media

URL *
https://12345.kaf.kaltura.com/d2l/index/launch/target/browseandembed

Description
Kaltura Browse and Embed Quick Link

Type: Deep Linking Quicklink (dropdown) Width: 1600 Height: 800

Substitution Parameters
What are Substitution Parameters used for?
No items found.
+ Add Substitution Parameter

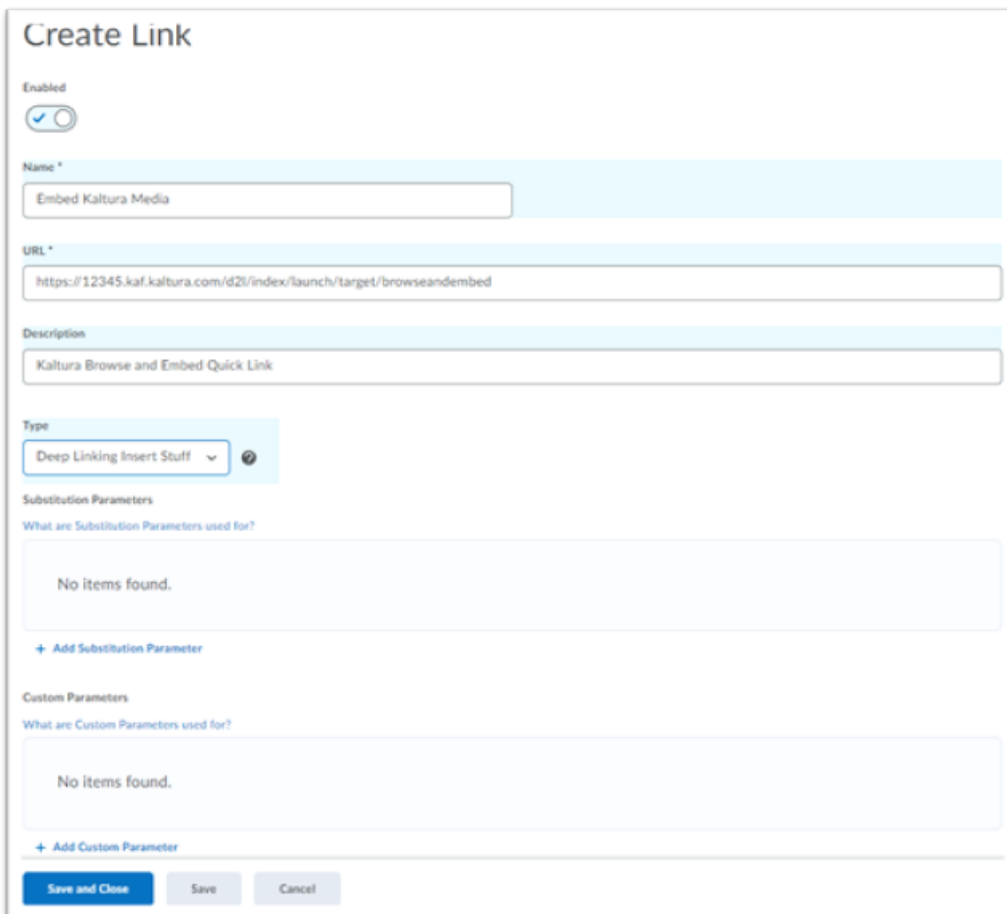
Custom Parameters
What are Custom Parameters used for?
No items found.
+ Add Custom Parameter

Save and Close Save Cancel

Browse, Search, and Embed (BSE) - Insert Stuff

Use these steps to add the Kaltura BSE tool to the Brightspace Insert Stuff tool.

1. Clicking the **New Link** button will display the **Create Link** page.
2. **Enabled** should be checked. If it is not, click on the slide button to enable the tool.
3. Fill in the following information:
 - a. **Name** - the name that users will see for the tool: **Embed Kaltura Media**
 - b. **URL** - `https://{your_KAF_Base_URL}/d2l/index/launch/target/browseandembed`
(e.g. `https://12345.kaf.kaltura.com/d2l/index/launch/target/browseandembed`)
 - c. **Description** - optional
 - d. **Type** - select **Deep Linking Insert Stuff**
 - e. **Substitution Parameters** - optional
 - f. **Custom Parameters** - options
4. Click **Save**.

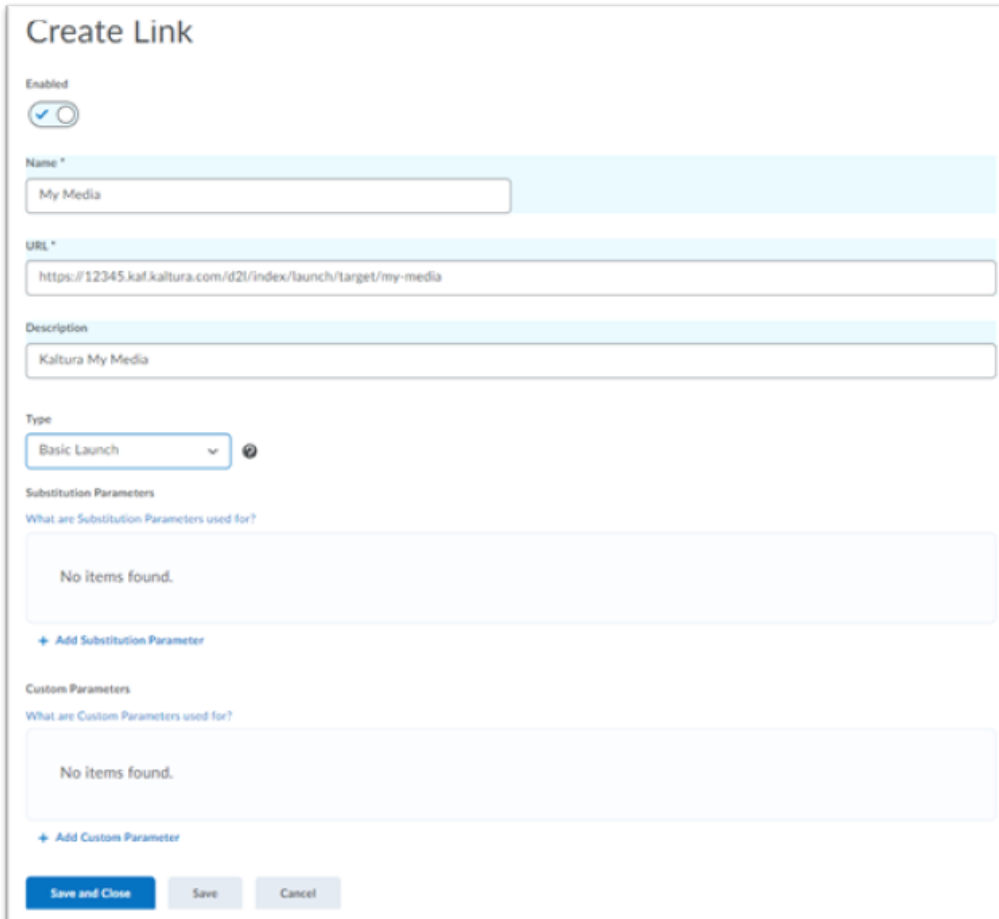


My Media

Use these steps to add Kaltura's My Media tool to Brightspace.

1. Clicking the **New Link** button will display the Create Link page.
2. **Enabled** should be checked. If it is not, click on the slide button to enable the tool.
3. Fill in the following information:
 - a. **Name** - the name that users will see for the tool: **My Media**

- b. **URL** - `https://{your_KAF_Base_URL}/d2l/index/launch/target/my-media`
(for example, `https://12345.kaf.kaltura.com/d2l/index/launch/target/my-media`)
 - c. **Description** - optional
 - d. **Type** - select **Basic Launch**
 - e. **Substitution Parameters** - optional
 - f. **Custom Parameters** - options
4. Click **Save**.

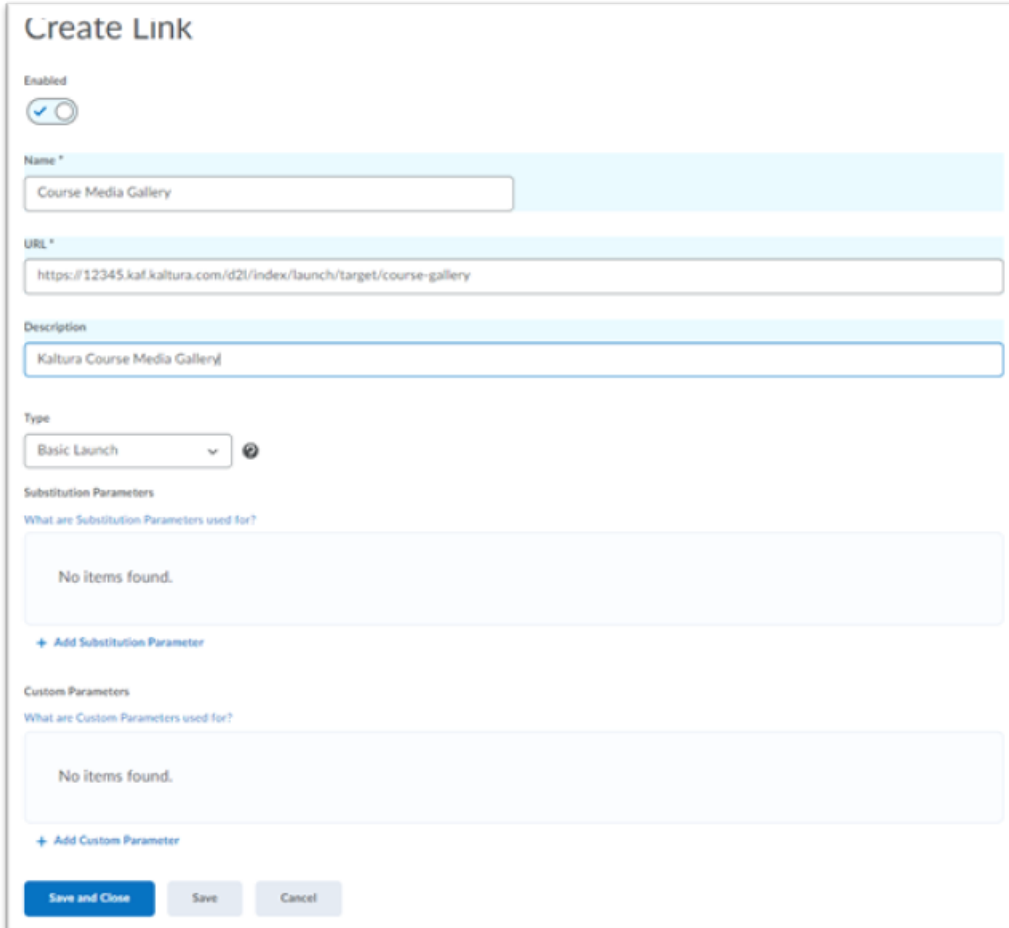


Media Gallery

Use these steps to add the Kaltura Media Gallery tool to Brightspace.

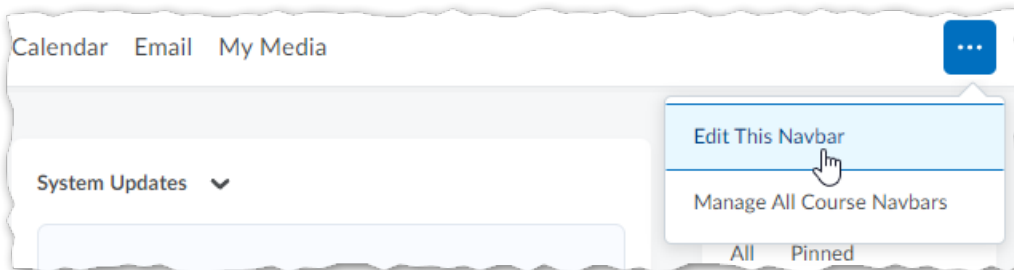
1. Clicking the **New Link** button will display the Create Link page.
2. **Enabled** should be checked. If it isn't, click on the slide button to enable the tool.
3. Fill in the following information:
 - a. **Name** - the name that users will see for the tool: **Course Media Gallery**.
 - b. **URL** - `https://{your_KAF_Base_URL}/d2l/index/launch/target/course-gallery`
(for example, `https://12345.kaf.kaltura.com/d2l/index/launch/target/course-gallery`)

- c. **Description** – optional
 - d. **Type** – select **Basic Launch**
 - e. **Substitution Parameters** - optional
 - f. **Custom Parameters** – options
4. Click Save

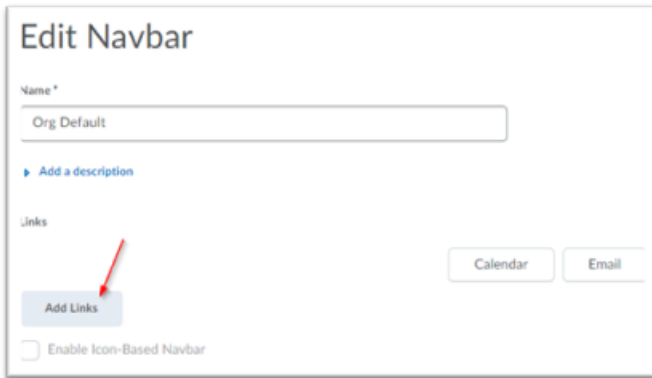


Step 7 - Set up My Media as a navigation bar link

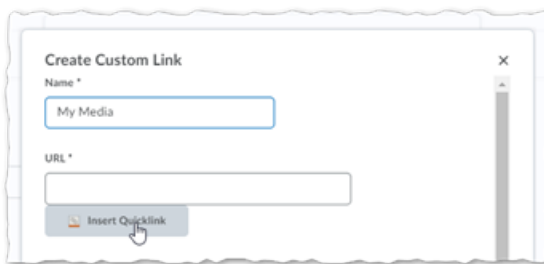
1. Log into Brightspace as the administrator of the org unit you want to add the My Media link to and go to the org unit home page.
2. Hover over the navigation bar in order for the **Actions for Navbar** button to appear, and click on **Edit This Navbar**.



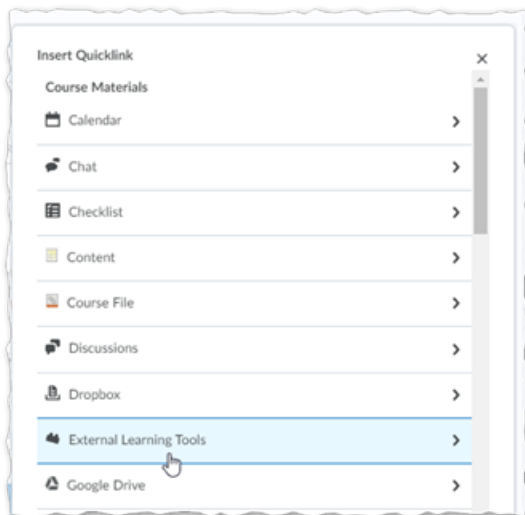
3. In the **Edit Navbar** page, click on **Add Links**.



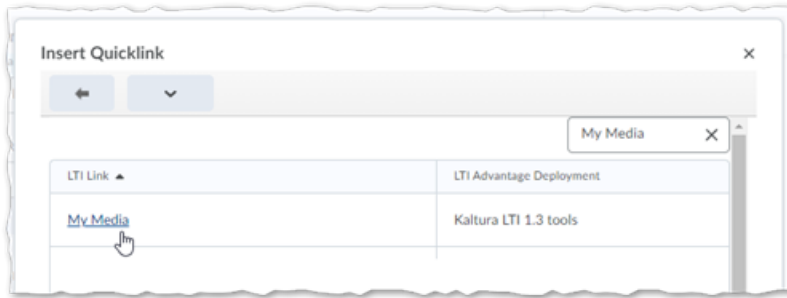
4. In the **Add Links** window, click on **Create Custom Link**.
5. In the Create Custom Link window:
 - a. **Name** - the name that users will see for the navbar link: **My Media**
 - b. Click on **Insert Quicklink**.



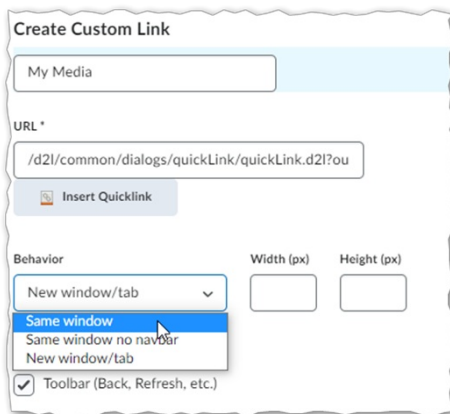
- c. In the **Insert Quicklink** window, click on **External Learning Tools**.



- d. In the **Insert Quicklink** window, search for **My Media** and click on it. The URL for the My Media tool for your LTI Advantage Deployment will be added to the URL setting in the Create Custom Link window.



- e. On the **Create Custom Link** page under **Behavior**, select the iframe behavior for My Media. Kaltura recommends selecting **Same window**.

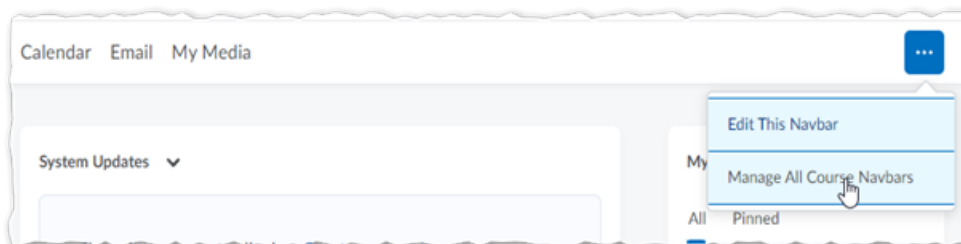


- f. Click **Create**.
6. Click **Add**.
7. In the **Edit Navbar** window click **Save and Close**. The **My Media** link is now added to the **Org Unit Navbar**.

Step 8 - Add Course Media Gallery to the course navigation bar

Adding the Course Media Gallery tool can be done either by the admin in the course template, or by the individual course admin.

1. Login to Brightspace as the administrator of the org unit you want to add the link to and go to the org unit home page.
2. Hover over the navigation bar in order for the **Actions for Navbar** button to appear and click on the Manage All Course Navbars option.

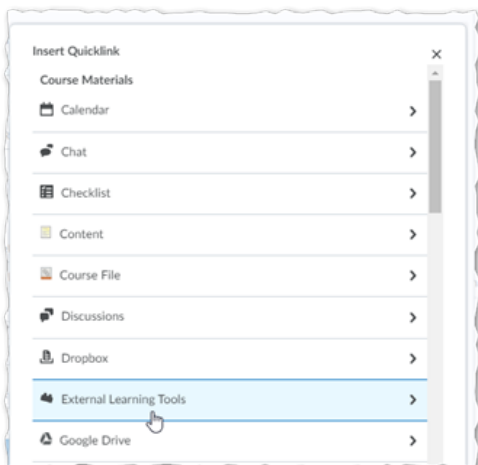


3. Select the **Course Navbar** that you would like to add the Course Media Gallery link

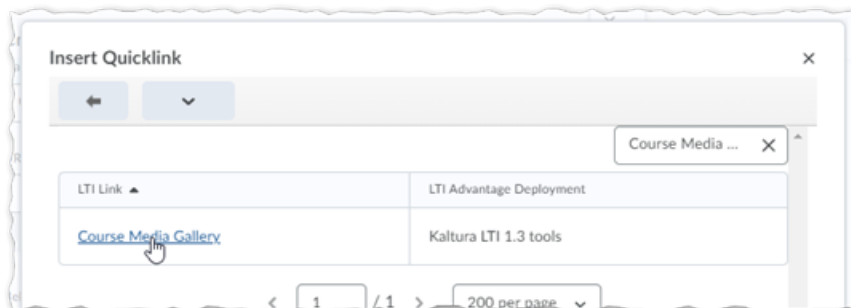
- to. The **Edit Navbar** window opens.
4. In the **Edit Navbar** window, click on the **Add Links** button.
 5. In the **Add Links** window, click on Create Custom Link.
 6. In the **Create Custom Link** window:
 - a. **Name** - the name that users will see for the navbar link: **“Course Media Gallery”**
 - b. Click on **Insert Quicklink**



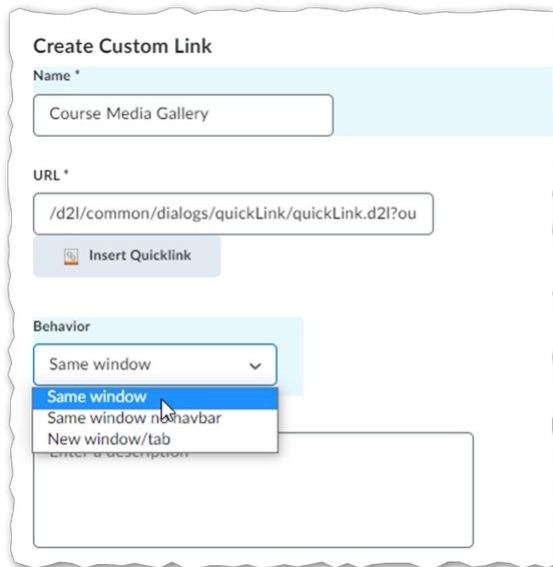
- c. In the **Insert Quicklink** window, click on **External Learning Tools**.



- d. In the **Insert Quicklink** window, search for **Course Media Gallery** and click on it. The URL for the Course Media Gallery tool for your LTI Advantage Deployment will be added to the URL setting in the Create Custom Link window.



- e. On the **Create Custom Link** page under **Behavior**, select the iframe behavior for the Course Media Gallery. Kaltura recommends selecting **Same window**.



- f. Click **Create**.
7. Click **Add**.
8. In the **Edit Navbar** window click **Save and Close**. The **Course Media Gallery** link is now added to the **Course Navbar**.

Step 9 - Remove LTI 1.1 Tools

1. Test that all the LTI 1.3 tools/links that you have added are working properly.
2. Remove any navigation bar links for the LTI 1.1 My Media and Media Gallery quick links.
3. Change the visibility to the external tool links for the Kaltura tools to **Off**.
 - a. Go to Admin Tools.
 - b. Click on External Learning Tools.
 - c. Click on **Manage Tool Links (Legacy)**.
 - d. Click on the title for each of the Kaltura LTI 1.1 tools (e.g., Embed Kaltura Media, insert stuff, quicklinks).
 - e. Uncheck the setting **Allow users to view this link**.