Kaltura LMS Extensions LTI 1.3 integration in Brightspace

Content updated: 03/15/2022

This article is designated for administrators.

About

This article explains how to set up the **Kaltura LMS Extensions LTI 1.3 integration in Brightspace**. It is intended for Brightspace and Kaltura administrators.

Kaltura LMS Extensions is deployed in Brightspace as a set of external tools. Administrators register and deploy these tools using Brightspace's LTI Advantage functionality.

Prerequisites

Make sure you have:

- A Kaltura account
- A Brightspace administrator account
- A KAF Configuration Management instance of type **D2L**, running version 5.99.46 or later

The following modules must be available in the KAF Configuration Management console:

- **D2L** - Required for the Brightspace integration.
- **Hosted** - Required for LTI 1.3 authentication and configuration.
- **Browseandembed** - Required for the Embed Kaltura Media tools.
- **Hostedrelated** - Optional; required only for related-media functionality.
- **Ltigrading** - Required only for Kaltura Video Quiz gradebook sync.

Deployment overview

Complete the following steps to deploy Kaltura LMS Extensions in Brightspace:

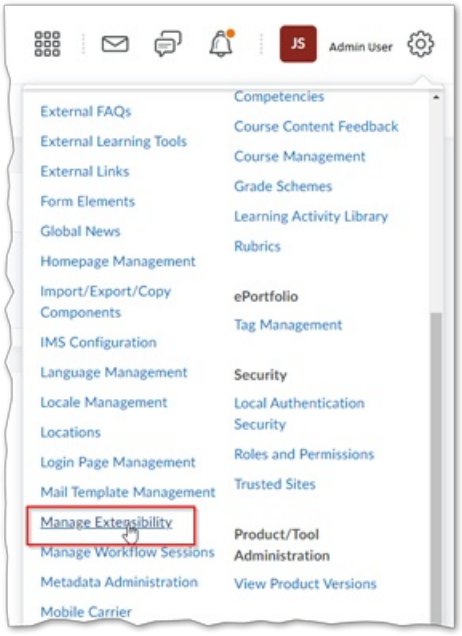
1. Register the Kaltura LTI 1.3 tool in Brightspace.
2. Configure LTI 1.3 in the KAF Configuration Management console.
3. Configure the Kaltura user ID mapping.
4. Create the deployment in Brightspace.
5. Create the Kaltura tool links.

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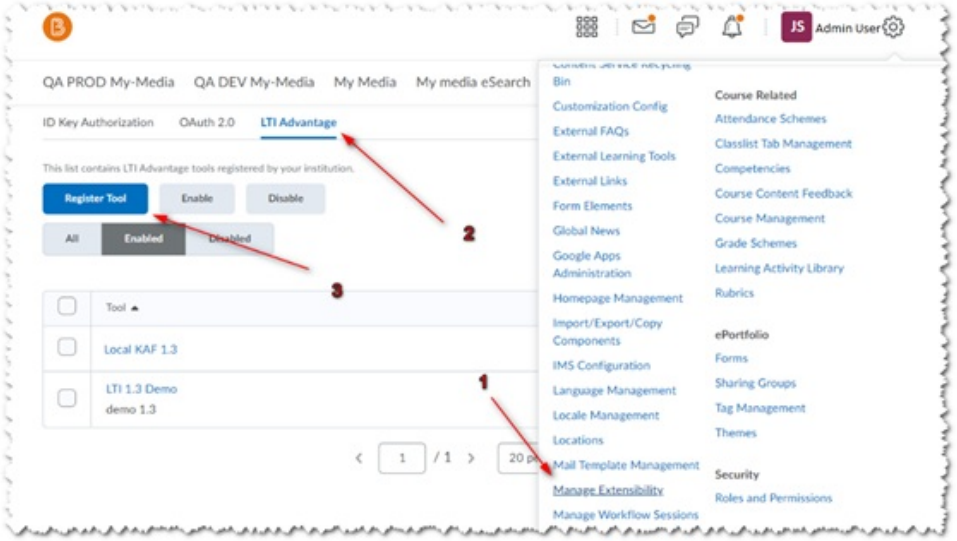
6. Optionally add My Media and Media Gallery to the Brightspace navigation bars.
7. Verify the integration.

Step 1 – Register the Kaltura tool in Brightspace

1. Sign in to Brightspace as an administrator.
2. Click **Admin Tools**, and then select **Manage Extensibility**.

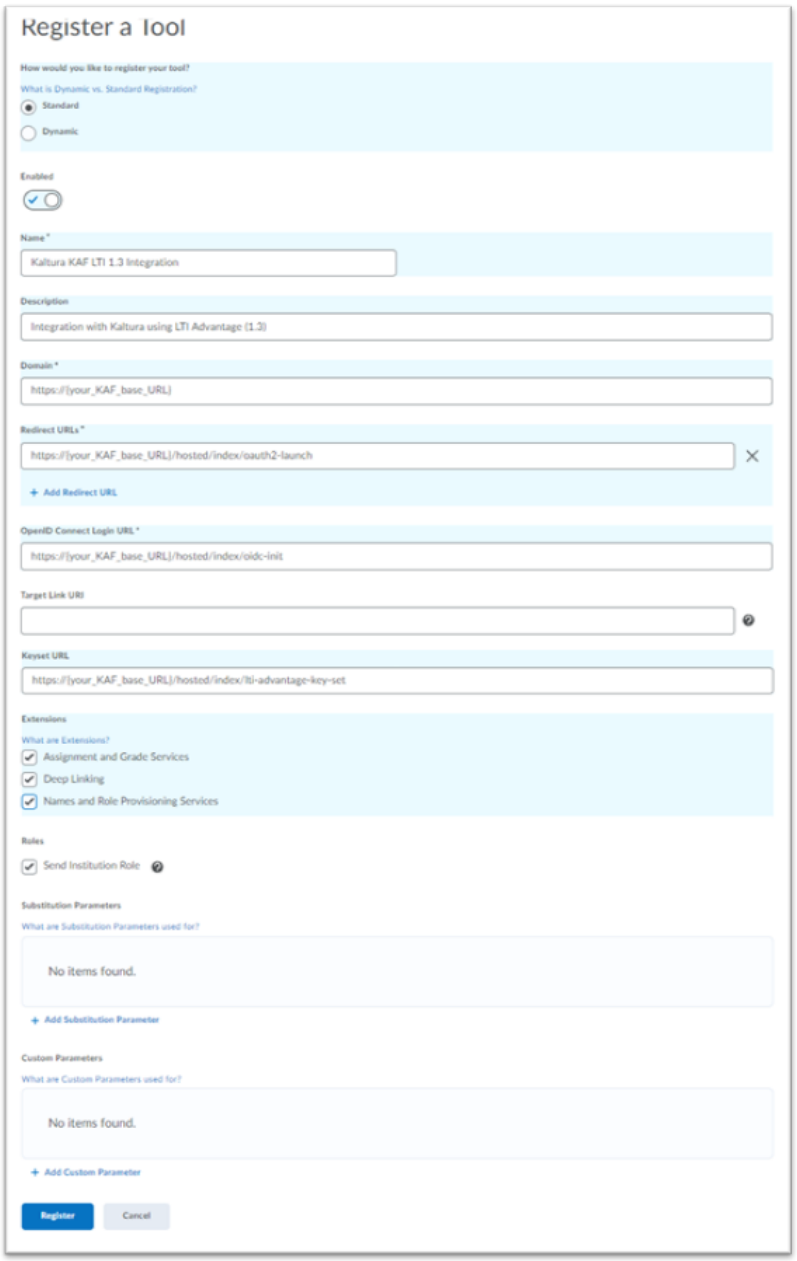


3. On the **Manage Extensibility** page, select the **LTI Advantage** tab, and then click **Register Tool**.



4. On the **Register a Tool** page, select **Standard**.

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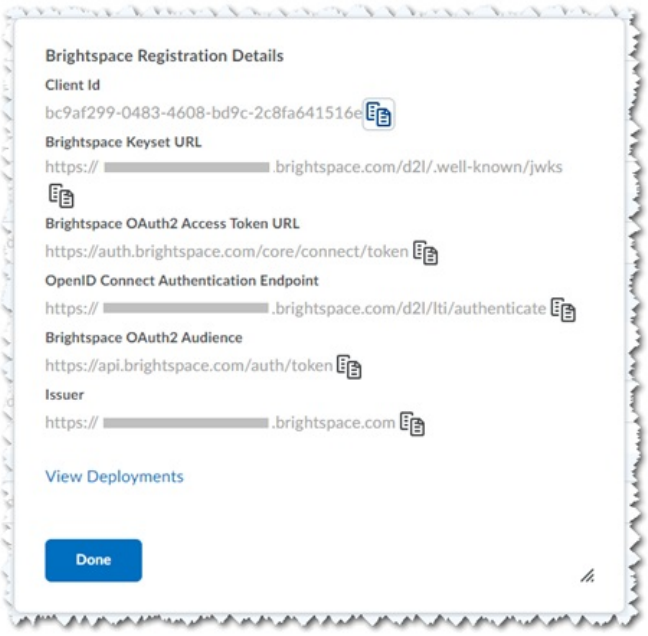
5. Make sure **Enabled** is selected.
6. Configure the following settings:
   - **Name** - Enter a name for the integration, for example, **Kaltura LMS Extensions LTI 1.3**.
   - **Description** - Enter an optional description.
   - **Domain** - Enter `https://{your_KAF_base_URL}`.
   - **Redirect URIs** - Enter `https://{your_KAF_base_URL}/hosted/index/oauth2-launch`.
   - **OpenID Connect Login URL** - Enter `https://{your_KAF_base_URL}/hosted/index/oidc-init`.
   - **Target Link URI** - Leave blank.
   - **Keyset URL** - Enter `https://{your_KAF_base_URL}/hosted/index/lti-advantage-key-set`.

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- **Extensions** - Select:
  - **Assignment and Grade Services**
  - **Deep Linking**
  - **Names and Role Provisioning Services**
- **Roles** - Select **Send Institution Role**.

7. Click **Register**.

   A confirmation window displays the Brightspace registration details.



8. Keep this information available for the next step, and then click **Done**.

Step 2 - Configure LTI 1.3 in the Configuration Management console

1. In Brightspace, navigate to **Admin Tools > Manage Extensibility > LTI Advantage**.
2. Click the name of the tool you registered in Step 1.
3. On the tool configuration page, scroll down to **Brightspace Registration Details**.
4. In a separate browser tab, sign in to the KAF Configuration Management console at `https://{your_KAF_base_URL}/admin`.
5. Open the **Hosted** module at `https://{your_KAF_base_URL}/admin/config/tab/hosted`.
6. Set `authMethod` to **lti1.3**.

   The LTI 1.3 configuration fields display.

7. Complete the following fields using the values in **Brightspace Registration Details**:

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- `lti13PlatformOidcAuthUrl` - Enter the **OpenID Connect Authentication Endpoint**.
- `lti13AuthTokenUrl` - Enter the **Brightspace OAuth2 Access Token URL**.
- `lti13KeysUrl` - Enter the **Brightspace Keyset URL**.
- `lti13ClientId` - Enter the **Client ID**.

8. In the `lti13ServicePrivateKey` section, click **generate key pair here**.
9. In the **Certificate Generator**, click **Use**.

   The keys are saved in the `lti13ServicePrivateKey` and `lti13ServicePublicKey` fields.

10. Scroll to the bottom of the **Hosted** module and click **Save**.



Step 3 - Configure the Kaltura user ID mapping

The user ID mapping determines which Brightspace identifier becomes the user's Kaltura user ID. The mapping must remain consistent so users retain access to their existing media.

Changing the user ID mapping for an existing integration can create duplicate Kaltura users and prevent users from accessing media associated with their previous IDs. If you are migrating an existing integration or the fields already contain different values, contact your Kaltura representative before changing them.

For a Brightspace username-based mapping, configure the following LTI 1.3 fields in the **Hosted** module:

- `lti13UserIdClaim` - `http://www.brightspace.com`
- `lti13UserIdClaimProperty` - `username`

1. Sign in to the KAF Configuration Management console at `https://{your_KAF_base_URL}/admin`.
2. Open the **Hosted** module at `https://{your_KAF_base_URL}/admin/config/tab/hosted`.

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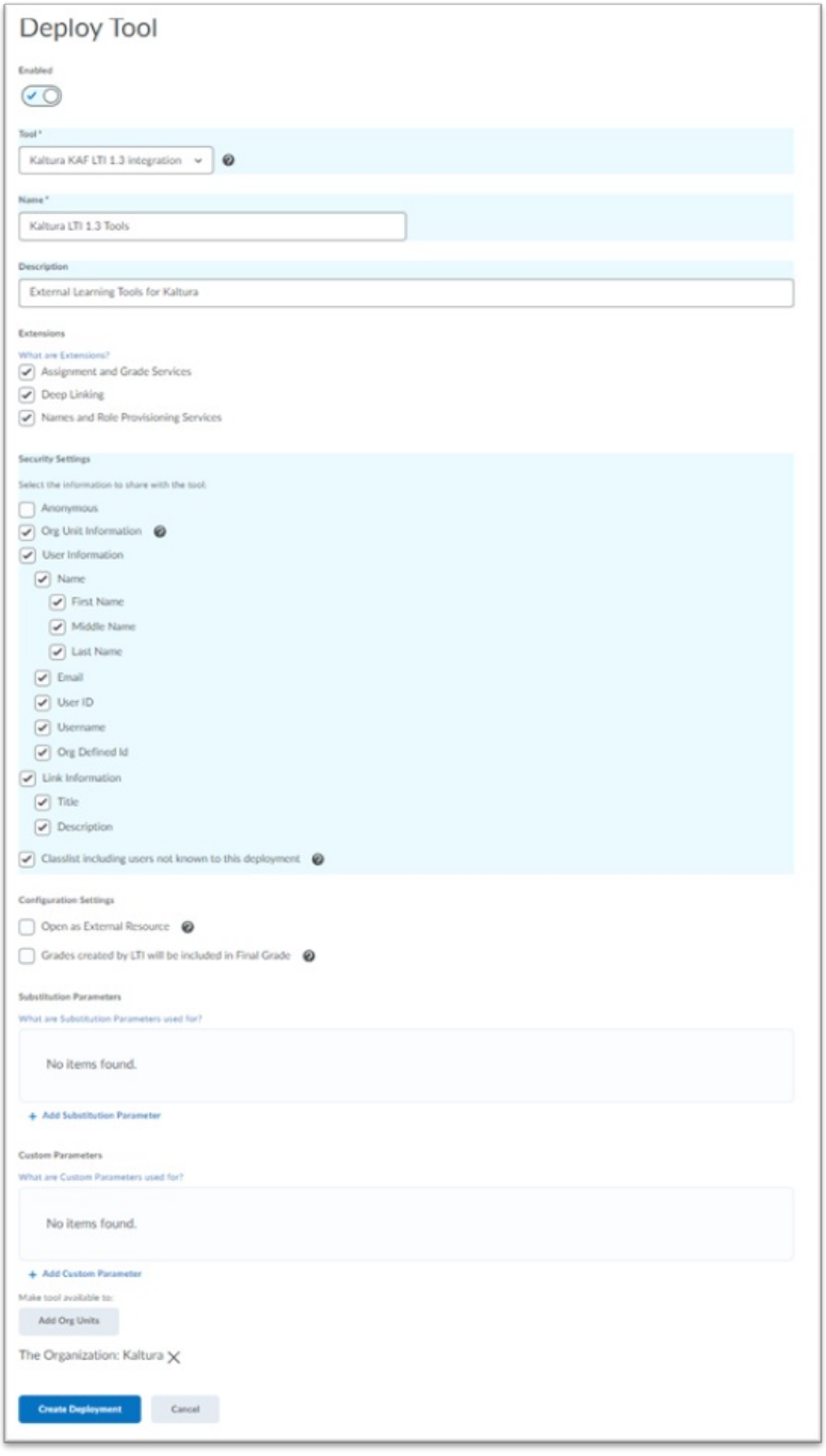
3. Locate `ltiUserIdAttribute`.
4. If `ltiUserIdAttribute` already contains a value, do not change it without confirming the correct mapping for your integration.
5. Set `lti13UserIdClaim` to `http://www.brightspace.com`.
6. Set `lti13UserIdClaimProperty` to `username`.
7. Scroll to the bottom of the **Hosted** module and click **Save**.

For other user ID mappings, see Configure the Kaltura user ID used with an LMS integration.

Step 4 - Create the deployment in Brightspace

1. In Brightspace, navigate to **Admin Tools > Manage Extensibility > LTI Advantage**.
2. Click the name of the registered Kaltura tool.
3. Scroll to the bottom of the page and click **View Deployments**.
4. Click **New Deployment**.
5. Make sure **Enabled** is selected.
6. Configure the following settings:
   - **Tool** - Select the tool registered in Step 1.
   - **Name** - Enter a name for the deployment, for example, **Kaltura LMS Extensions LTI 1.3**.
   - **Description** - Enter an optional description.
   - **Extensions** - Select:
     - **Assignment and Grade Services**
     - **Deep Linking**
     - **Names and Role Provisioning Services**
   - **Security Settings** - Select each option and its child options:
     - **Org Unit Information**
     - **User Information**
     - **Link Information**
     - **Classlist, including users not known to the tool**
   - **Configuration Settings** - Select **Auto Create Grade Items**.
   - **Make tool available to** - Add the applicable org unit and select **All descendants**.

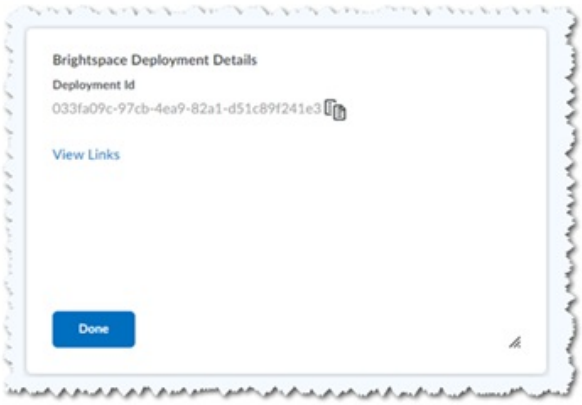
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7. Click **Create Deployment**.

   A confirmation window displays.

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8. Click **View Links**.

If you click **Done**, you can access the links later by opening the registered tool, clicking **View Deployments**, and then clicking **View Links**.

Step 5 - Create the Kaltura tool links

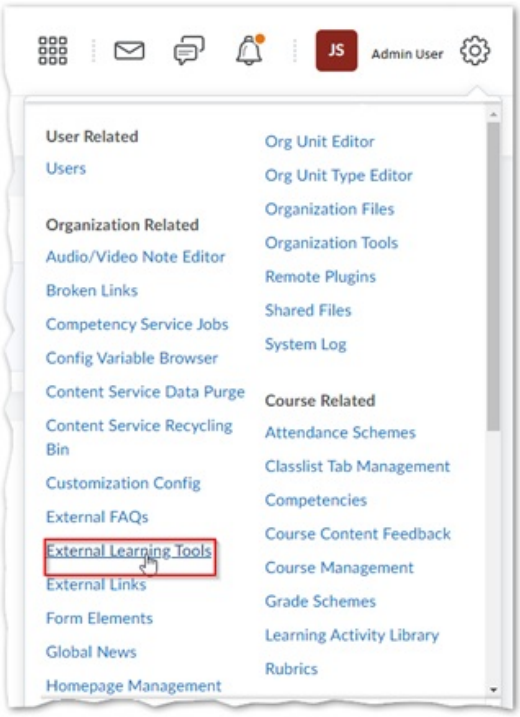
Create the following four links:

- Embed Kaltura Media - Quicklink
- Embed Kaltura Media - Insert Stuff
- My Media
- Course Media Gallery

A separate Video Quiz link is not required. Faculty add video quizzes through the Embed Kaltura Media deep-linking workflow.

1. In Brightspace, navigate to **Admin Tools > External Learning Tools**.

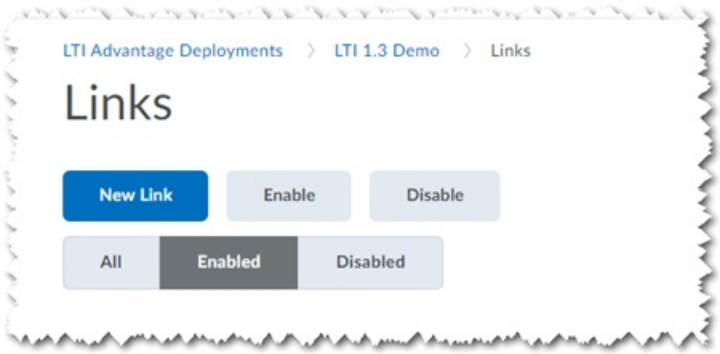
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2. On the **LTI Advantage** page, open the registered Kaltura tool.
3. Scroll to the bottom of the page and click **View Deployments**.
4. Locate the deployment and click **View Links**.



5. Click **New Link**.

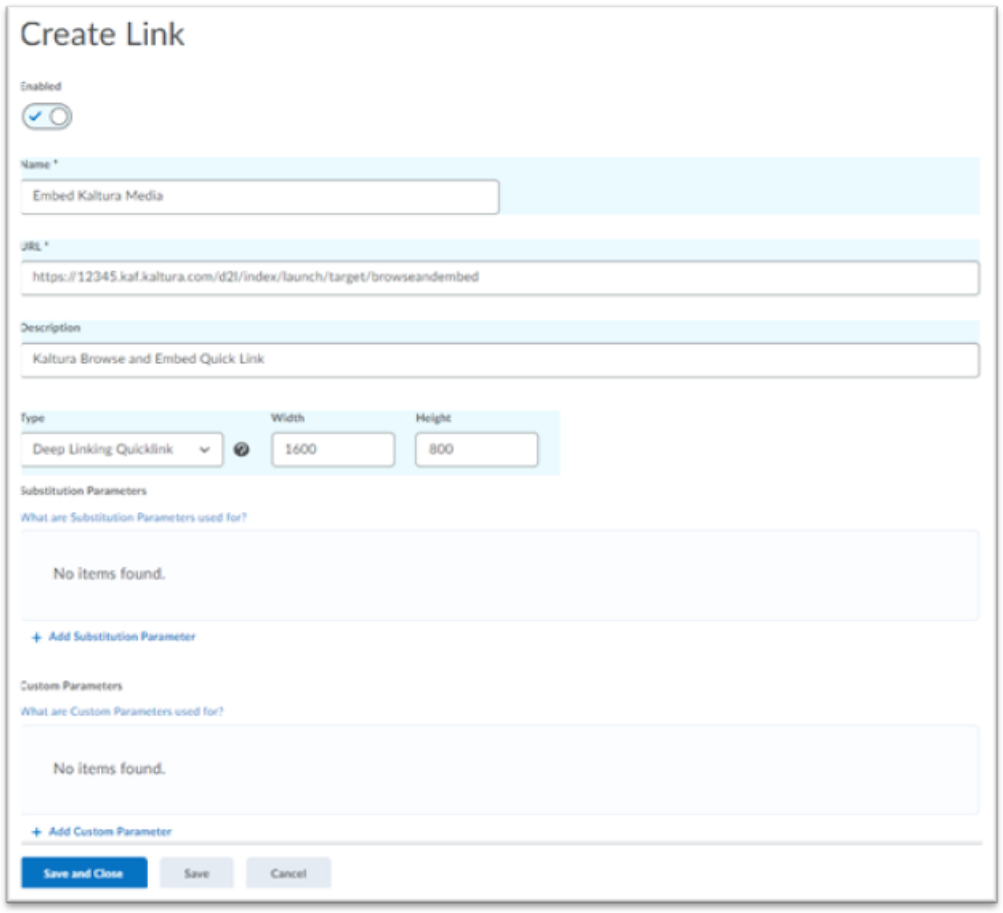


Create the Embed Kaltura Media Quicklink

1. On the **Create Link** page, make sure **Enabled** is selected.

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2. Configure the following settings:
   - **Name** - Enter **Embed Kaltura Media**.
   - **URL** - Enter `https://{your_KAF_base_URL}/d2l/index/launch/target/browseandembed`.
   - **Description** - Enter an optional description.
   - **Type** - Select **Deep Linking Quicklink**.
   - **Width** - Enter `1600`.
   - **Height** - Enter `800`.
   - **Substitution Parameters** - Optional.
   - **Custom Parameters** - Optional.
3. Click **Save**.



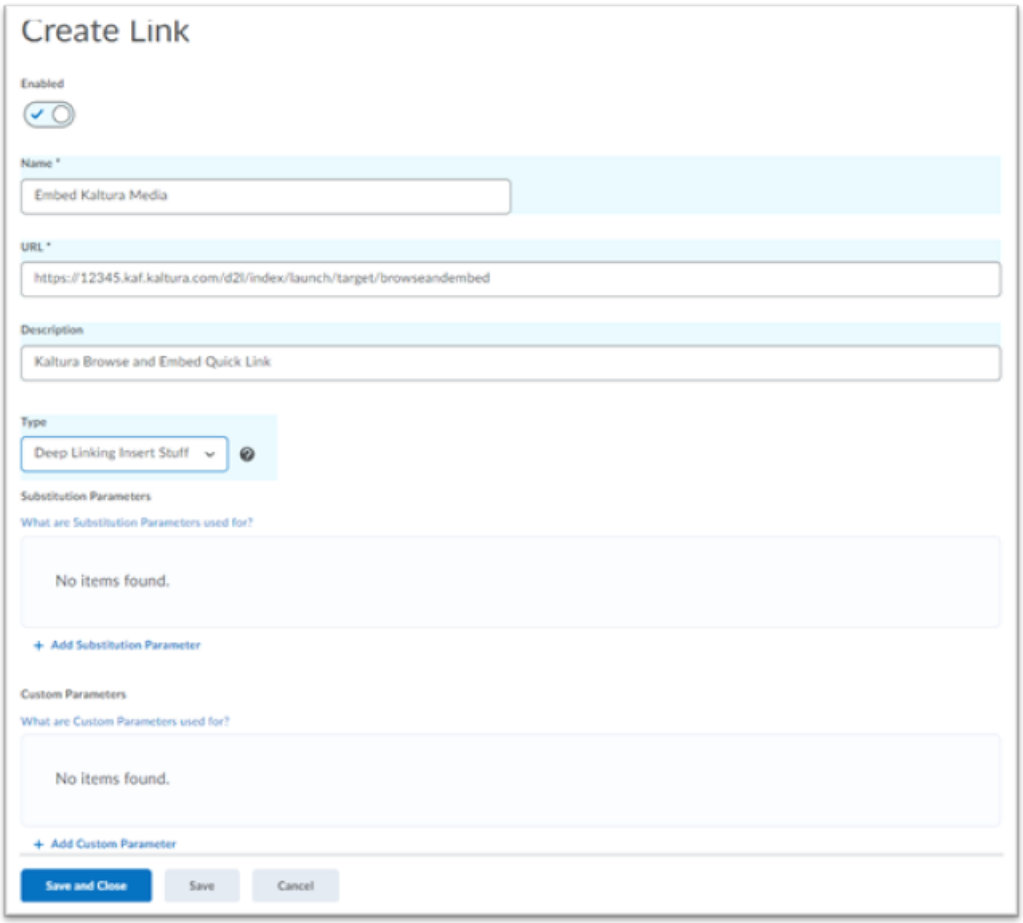
Create the Embed Kaltura Media Insert Stuff link

1. Return to the deployment links page and click **New Link**.
2. On the **Create Link** page, make sure **Enabled** is selected.
3. Configure the following settings:
   - **Name** - Enter **Embed Kaltura Media**.
   - **URL** - Enter `https://{your_KAF_base_URL}/d2l/index/launch/target/browseandembed`.
   - **Description** - Enter an optional description.

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- **Type** - Select **Deep Linking Insert Stuff**.
- **Substitution Parameters** - Optional.
- **Custom Parameters** - Optional.

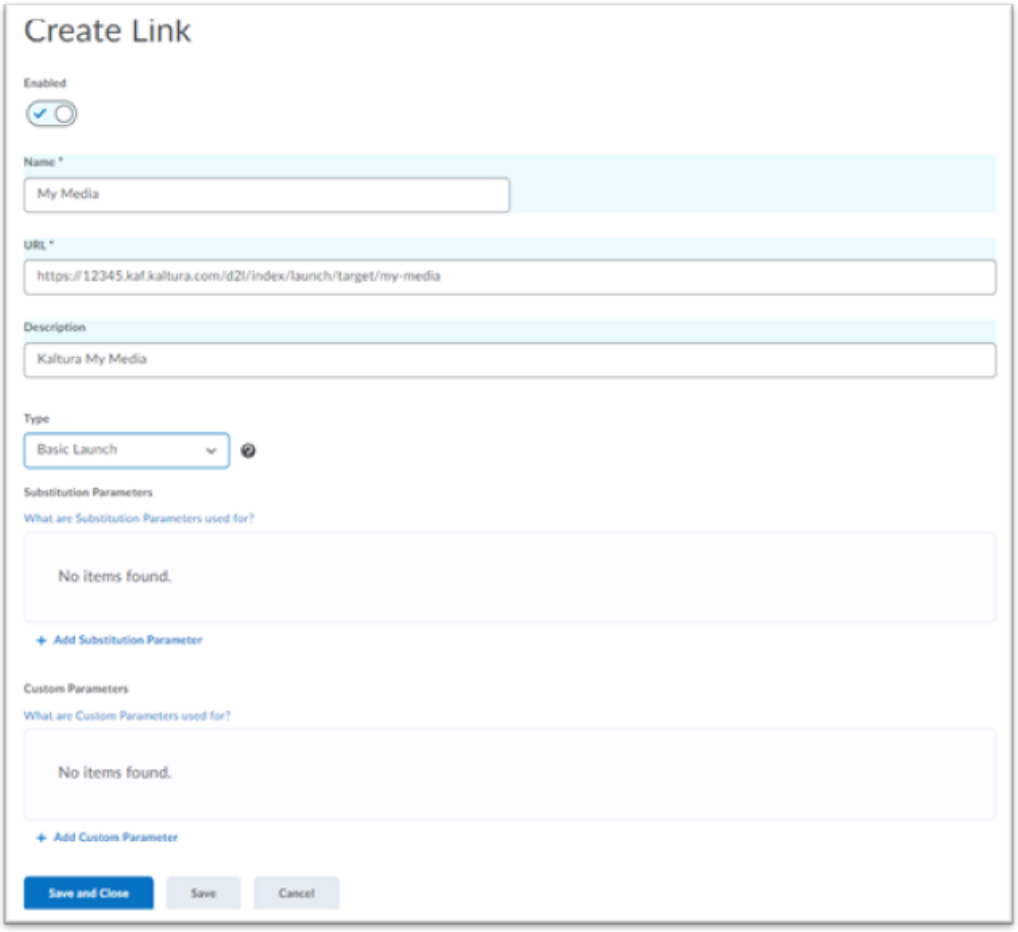
4. Click **Save**.



Create the My Media link

1. Return to the deployment links page and click **New Link**.
2. On the **Create Link** page, make sure **Enabled** is selected.
3. Configure the following settings:
   - **Name** - Enter **My Media**.
   - **URL** - Enter `https://{your_KAF_base_URL}/d2l/index/launch/target/my-media`.
   - **Description** - Enter an optional description.
   - **Type** - Select **Basic Launch**.
   - **Substitution Parameters** - Optional.
   - **Custom Parameters** - Optional.
4. Click **Save**.

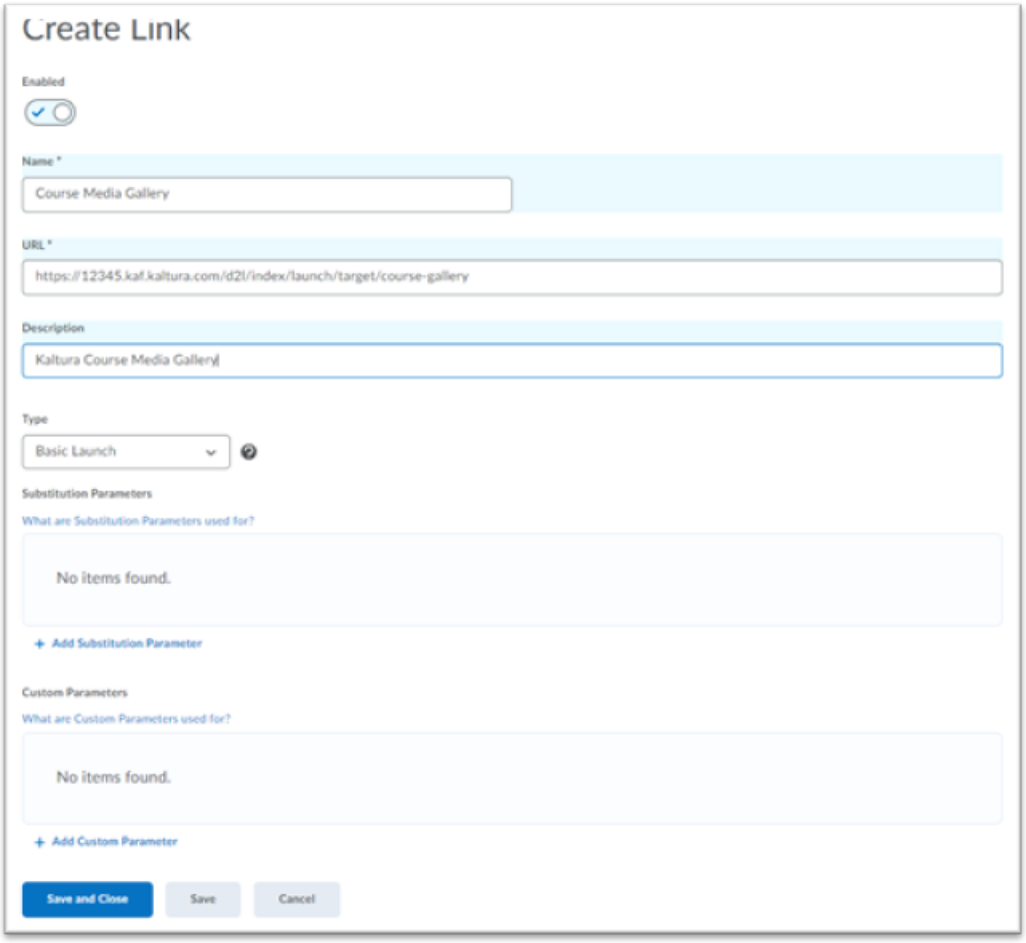
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Create the Course Media Gallery link

1. Return to the deployment links page and click **New Link**.
2. On the **Create Link** page, make sure **Enabled** is selected.
3. Configure the following settings:
   - **Name** - Enter **Course Media Gallery**.
   - **URL** - Enter `https://{your_KAF_base_URL}/d2l/index/launch/target/course-gallery`.
   - **Description** - Enter an optional description.
   - **Type** - Select **Basic Launch**.
   - **Substitution Parameters** - Optional.
   - **Custom Parameters** - Optional.
4. Click **Save**.

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Optional - Add My Media to the org-unit navigation bar

1. Sign in to Brightspace as an administrator and open the applicable org-unit home page.
2. Hover over the navigation bar, click **Actions for Navbar**, and then select **Edit This Navbar**.



3. On the **Edit Navbar** page, click **Add Links**.

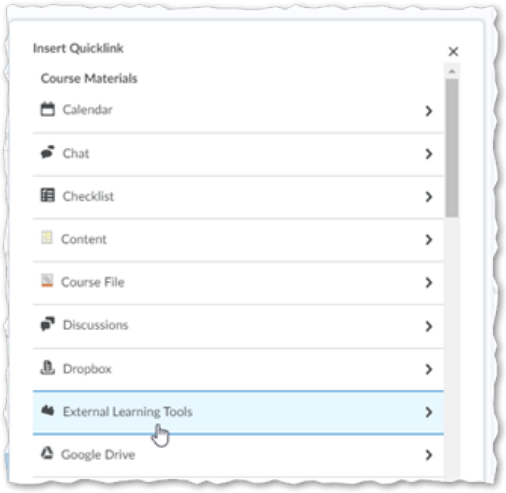
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4. In the **Add Links** window, click **Create Custom Link**.
5. In the **Name** field, enter **My Media**.
6. Click **Insert Quicklink**.



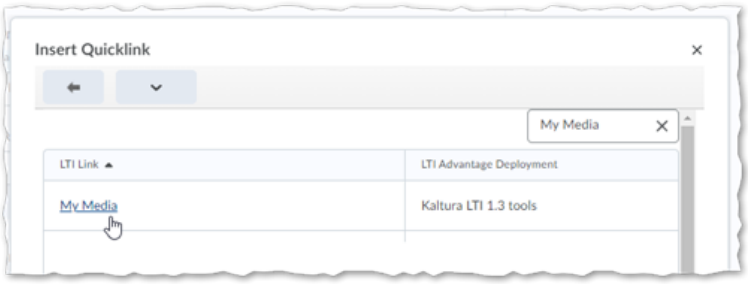
7. In the **Insert Quicklink** window, select **External Learning Tools**.



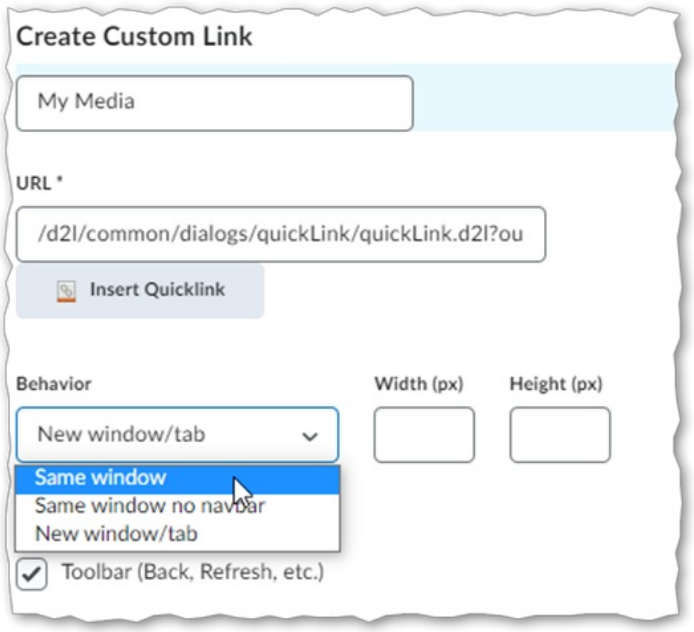
8. Search for and select **My Media**.

   The My Media tool URL is added to the custom link.

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9. Under **Behavior**, select **Same window**.



10. Click **Create**.
11. Click **Add**.
12. On the **Edit Navbar** page, click **Save and Close**.

My Media is added to the org-unit navigation bar.

Optional - Add Course Media Gallery to the course navigation bar

An administrator can add Course Media Gallery to an individual course navigation bar or a course navigation-bar template.

1. Sign in to Brightspace as an administrator and open the applicable org-unit home page.
2. Hover over the navigation bar, click **Actions for Navbar**, and then select **Manage All Course Navbars**.

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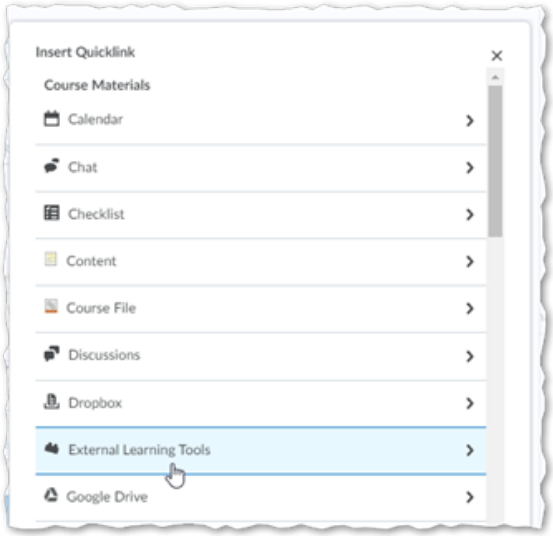
3. Select the course navigation bar where you want to add Course Media Gallery.

   The **Edit Navbar** page displays.

4. Click **Add Links**.
5. In the **Add Links** window, click **Create Custom Link**.
6. In the **Name** field, enter **Course Media Gallery**.
7. Click **Insert Quicklink**.



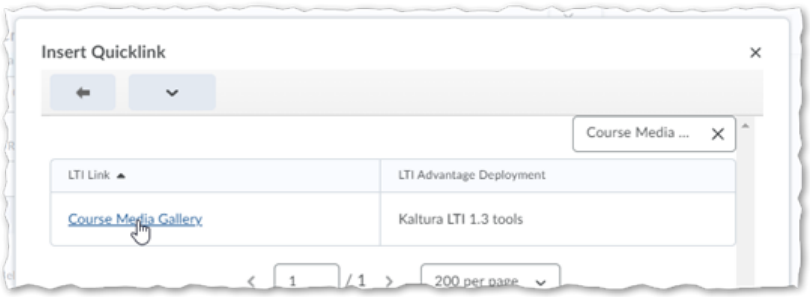
8. In the **Insert Quicklink** window, select **External Learning Tools**.



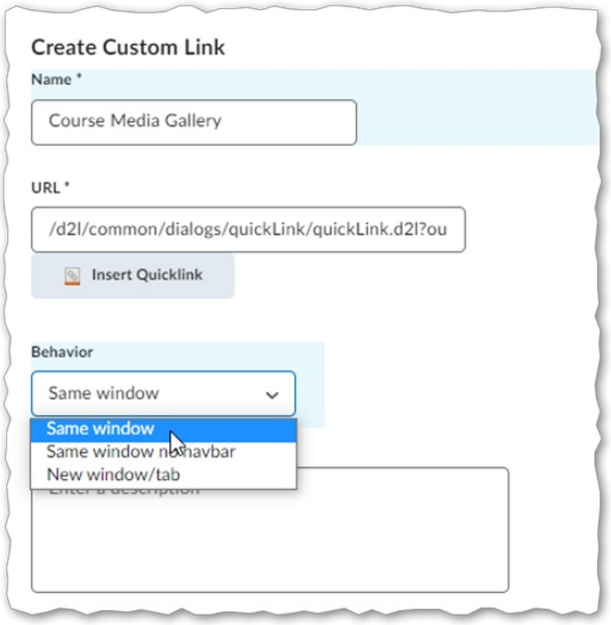
9. Search for and select **Course Media Gallery**.

   The Course Media Gallery tool URL is added to the custom link.

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10. Under **Behavior**, select **Same window**.



11. Click **Create**.
12. Click **Add**.
13. On the **Edit Navbar** page, click **Save and Close**.

Course Media Gallery is added to the course navigation bar.

Verify the integration

After completing the deployment, verify the tools with a test user:

- Open **My Media** and confirm that the user is provisioned correctly.
- Open **Course Media Gallery** and confirm that the correct course gallery loads.
- Use **Embed Kaltura Media** from a Quicklink.
- Use **Embed Kaltura Media** from the **Insert Stuff** editor.
- If Video Quiz gradebook sync is enabled, add and submit a graded video quiz and confirm that the grade reaches the Brightspace gradebook.

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