Upgrade the Kaltura LMS Extensions integration in Brightspace from LTI 1.1 to LTI 1.3

Content updated: 05/19/2022

This article is designated for administrators.

About

This guide explains how to upgrade the **Kaltura LMS Extensions integration in Brightspace from LTI 1.1 to LTI 1.3**.

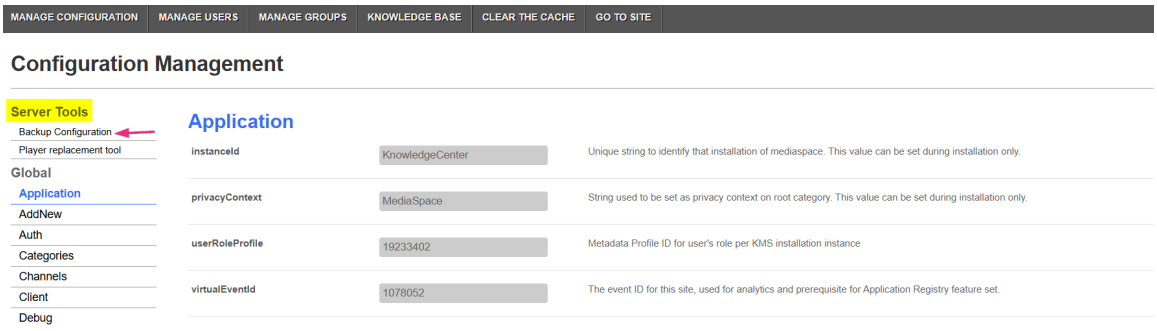
As of August 8, 2022, with the release of KAF version 5.108.10x, KAF instances configured for LTI 1.3 can continue to launch existing embed codes added through the LTI 1.1 Kaltura Browse, Search, and Embed tool when the same KAF instance is used.

Prerequisites

- Administrator access to the Brightspace account integrated with Kaltura
- A Kaltura Application Framework (KAF) instance of type **D2L**, version 5.108.10x or later

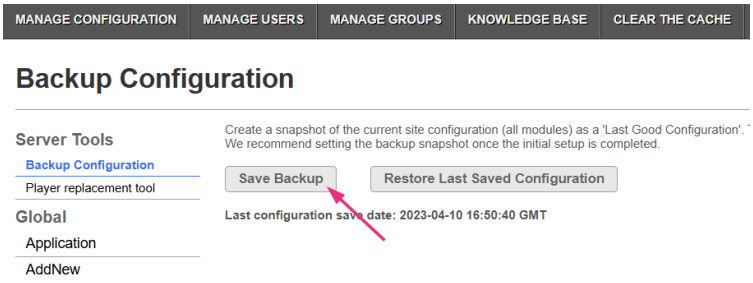
Step 1 - Back up your KAF configuration

1. Sign in to your KAF Configuration Management console at `https://{your_KAF_base_URL}/admin`.
2. Under **Server Tools**, click **Backup Configuration**.



3. Click **Save Backup**.

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

4. Click **Yes**, and then click **Save**.



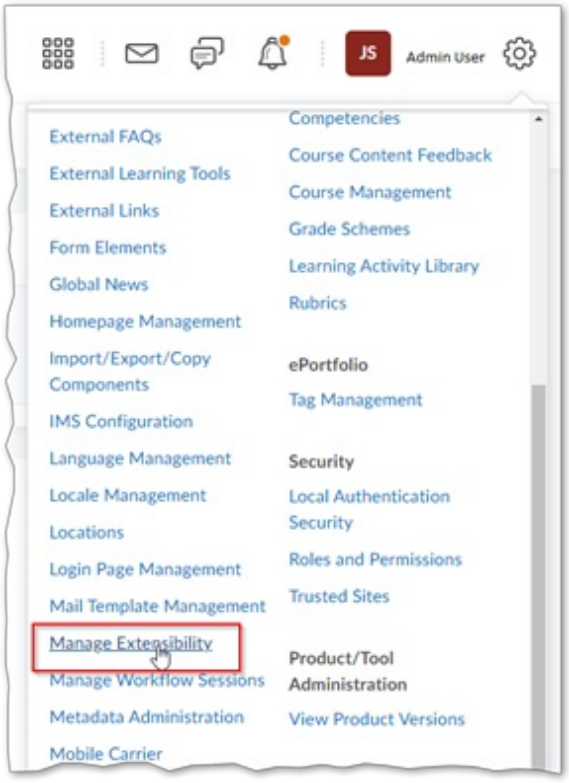
Once the backup is complete, the following confirmation message displays: *Configuration file was saved successfully.*

The backup page displays the last configuration save date. This is the date on which the configuration settings were last modified, not the date on which the backup was performed.

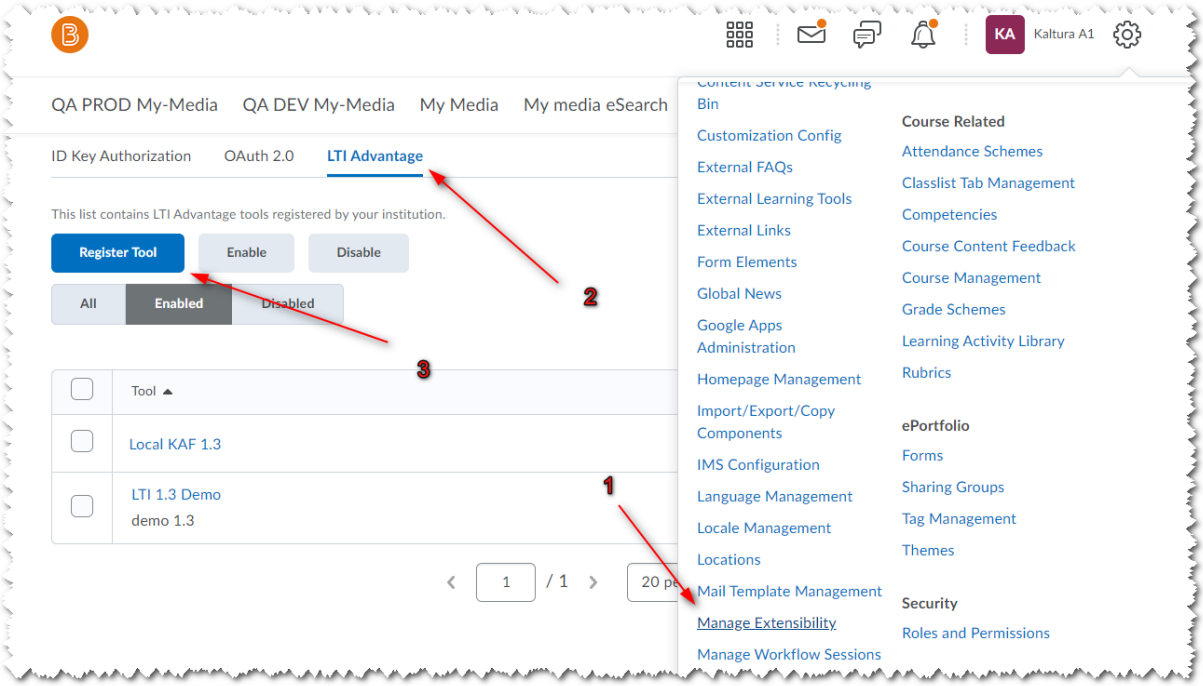
Step 2 - Register the Kaltura tool in Brightspace

1. Sign in to your Brightspace instance with an administrator account.
2. Click the **Admin Tools** gear icon in the upper-right corner, and then select **Manage Extensibility**.

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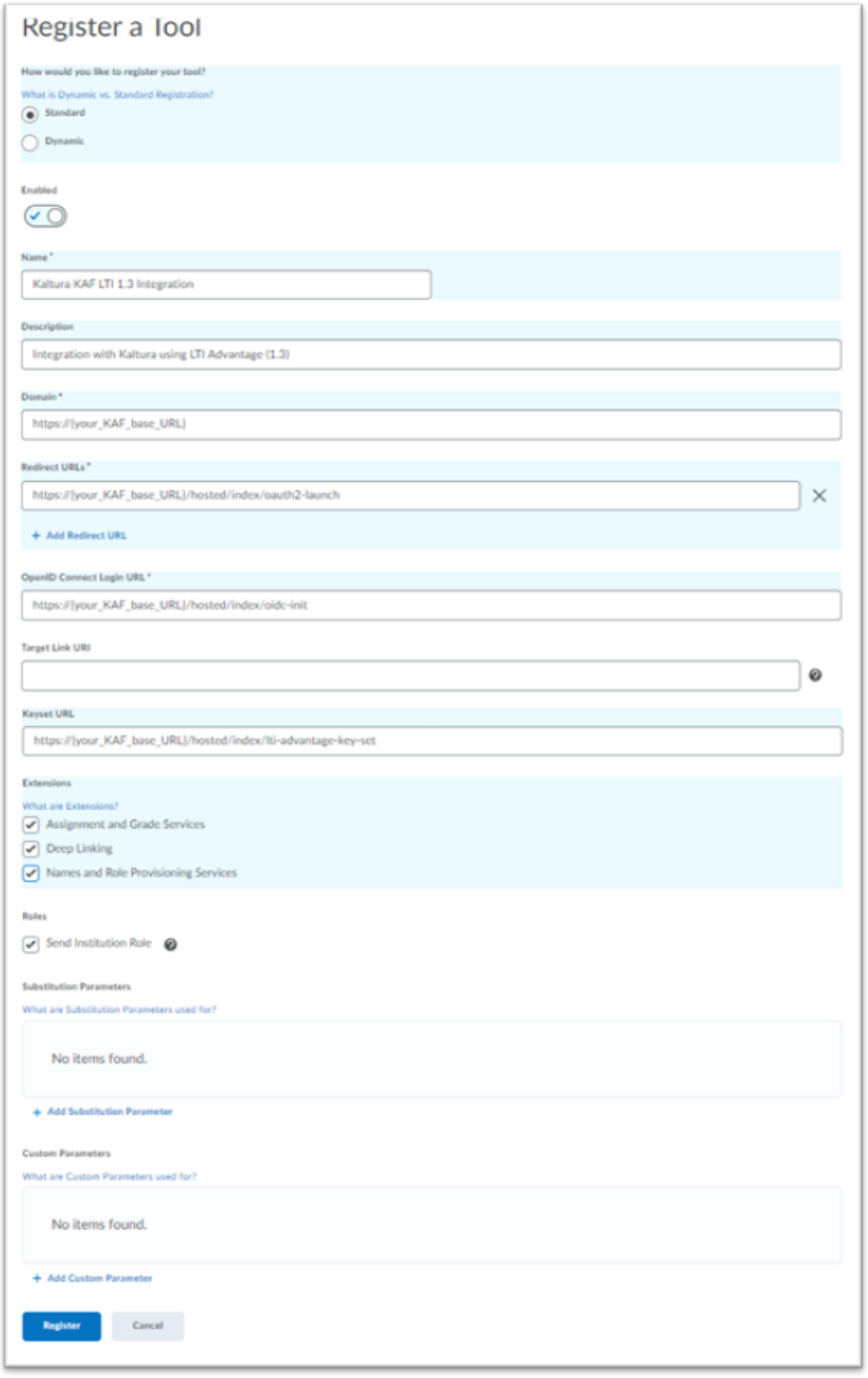
3. On the **Manage Extensibility** page, select the **LTI Advantage** tab, and then click **Register Tool**.



The **Register a Tool** page displays.

4. Select **Standard** to display the tool registration fields.

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Make sure **Enabled** is selected. If it isn't, enable the tool.

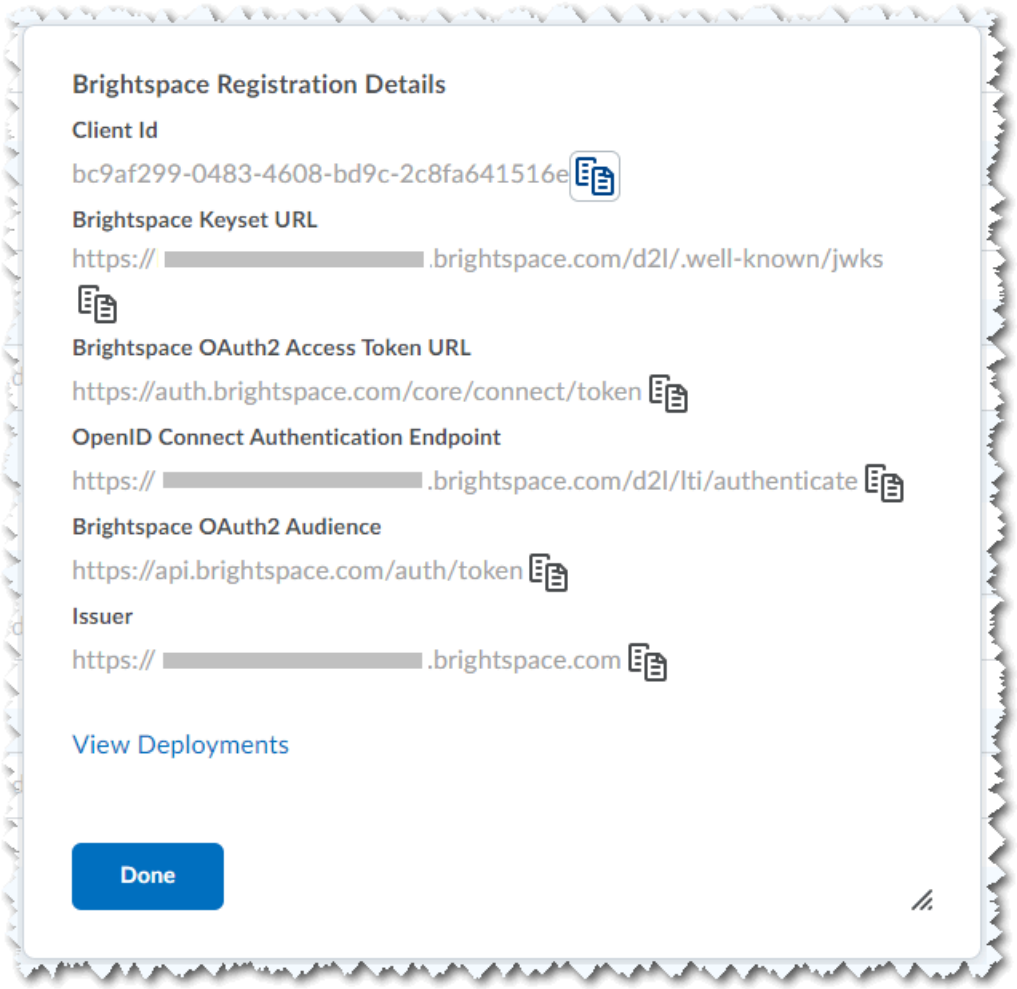
5. Complete the following fields:
   - **Name** - Enter a general name for the tool, for example, **Kaltura KAF LTI 1.3 integration**.
   - **Description** - Optional.
   - **Domain** - Enter your KAF base URL: `https://{your_KAF_base_URL}`. For example, `https://12345.kaf.kaltura.com`.

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- **Redirect URIs** - Enter `https://{your_KAF_base_URL}/hosted/index/oauth2-launch`. For example, `https://12345.kaf.kaltura.com/hosted/index/oauth2-launch`.
- **OpenID Connect Login URL** - Enter `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** - Enter `https://{your_KAF_base_URL}/hosted/index/lti-advantage-key-set`. For example, `https://12345.kaf.kaltura.com/hosted/index/lti-advantage-key-set`.
- **Extensions** - Select the following:
  - **Assignment and Grade Services**
  - **Deep Linking**
  - **Names and Role Provisioning Services**
- **Roles** - Select **Send Institution Role**.

6. Click **Register**.

The following confirmation message displays.



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7. Click **Done**.

Step 3 - Update your instance to LTI 1.3

1. In Brightspace, navigate to **Admin Tools > Manage Extensibility > LTI Advantage**. Refer to steps 1–3 in Register the Kaltura tool in Brightspace.
2. Click the name of the tool you created.
3. On the tool editing page, scroll down to **Brightspace Registration Details**.
4. In a separate browser tab or window, sign in to your D2L KAF Configuration Management console at `https://{your_KAF_base_URL}/admin`.
5. Navigate to the **Hosted** module at `https://{your_KAF_base_URL}/admin/config/tab/hosted`.
6. Use the information under **Brightspace Registration Details** to configure the following settings:
   a. Set `authMethod` to **lti1.3**. This exposes the LTI 1.3 configuration fields.
   b. Set `lti13PlatformOidcAuthUrl` to the value listed for **OpenID Connect Authentication Endpoint**. For example, `https://{your_D2L_Domain}/d2l/lti/authenticate`.
   c. Set `lti13AuthTokenUrl` to the value listed for **Brightspace OAuth2 Access Token URL**. For example, `https://auth.brightspace.com/core/connect/token`.
   d. Set `lti13KeysUrl` to the value listed for **Brightspace Keyset URL**. For example, `https://{your_D2L_domain}/d2l/.well-known/jwks`.
   e. Set `lti13ClientId` to the value listed for **Client Id**.
   f. Under `lti13ServicePrivateKey`, click **Generate key pair here**. This generates the private and public keys.
   g. In the **Certificate Generator** window, click **Use** to save the key pair to the `lti13ServicePrivateKey` and `lti13ServicePublicKey` fields.
7. Scroll to the bottom of the **Hosted** module and click **Save**.



D2L Brightspace LTI migration: Upgrade legacy links to LTI Advantage (1.3)

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Once your instance is updated to LTI 1.3, consider migrating any existing LTI 1.1 links to ensure compatibility. The recommended migration methods are:

- **Migrate button** - Use the **Manage Tool Links (Legacy)** tab in Brightspace to migrate links manually to LTI 1.3.
- **LTI Migration API** - Automate the migration process with the LTI Migration API for large-scale changes.
- **Course Import** - Reimport 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.

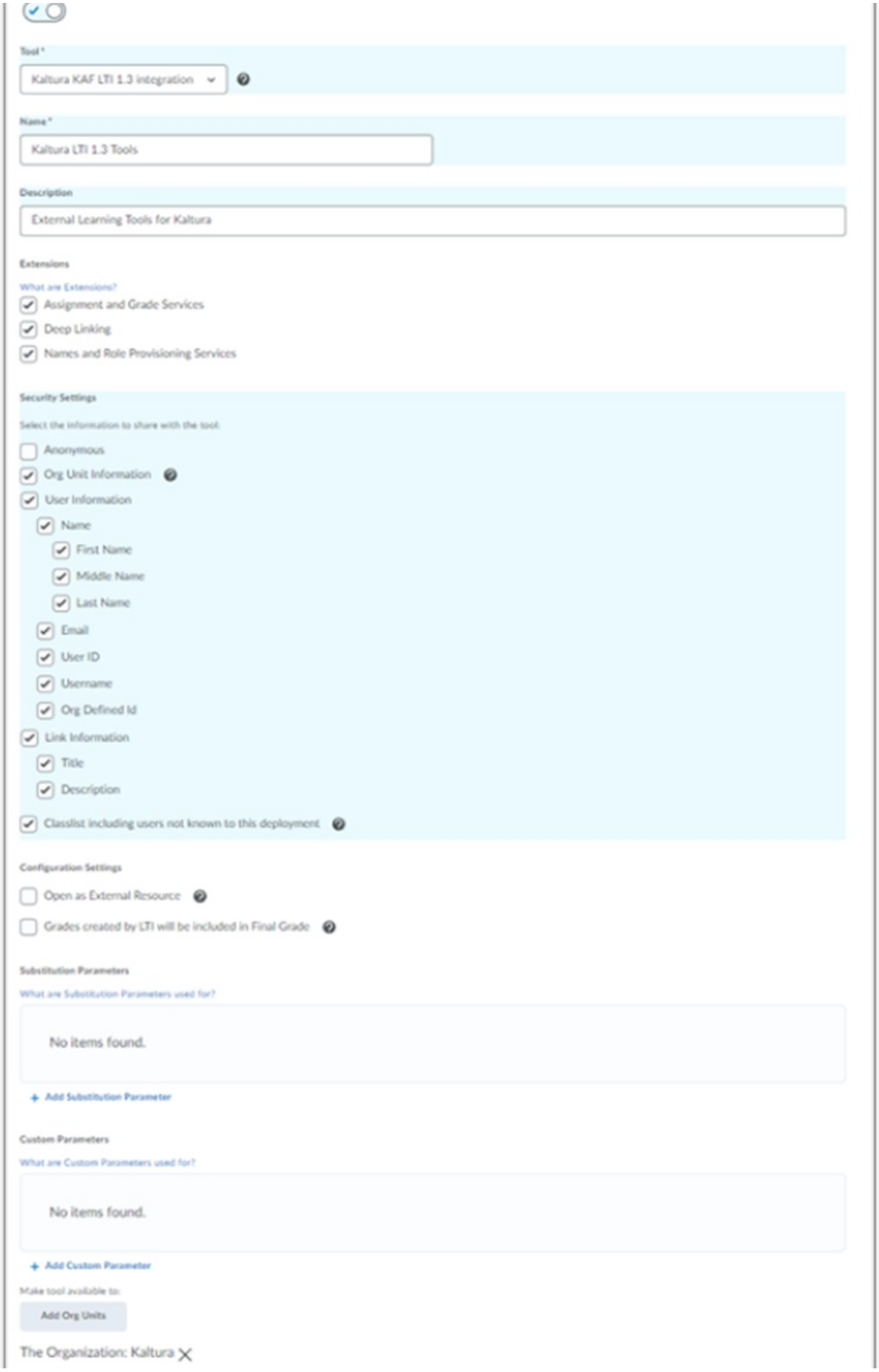
For detailed instructions about each method, see the Brightspace integration documentation.

Step 4 - Add the LTI 1.3 tools

1. In Brightspace, navigate to **Admin Tools > Manage Extensibility > LTI Advantage**. Refer to steps 1–3 in Register the Kaltura tool in Brightspace.
2. Click the name of the tool you created, and then scroll to the bottom of the page.
3. Click **View Deployments**.
4. Click **New Deployment**.
5. Make sure **Enabled** is selected. If it isn't, enable the tool.
6. Complete the following configuration settings:
   - **Tool** - Select the tool registered in the **Register the Kaltura tool in Brightspace** section.
   - **Name** - Enter a name for the tool set, for example, **Kaltura LTI 1.3 Tools**.
   - **Description** - Optional.
   - **Extensions** - Select the following:
     - **Assignment and Grade Services**
     - **Deep Linking**
     - **Names and Role Provisioning Services**
   - **Security Settings** - Select the following options and their 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 the tool available to** - Select your org unit and **All descendants**.



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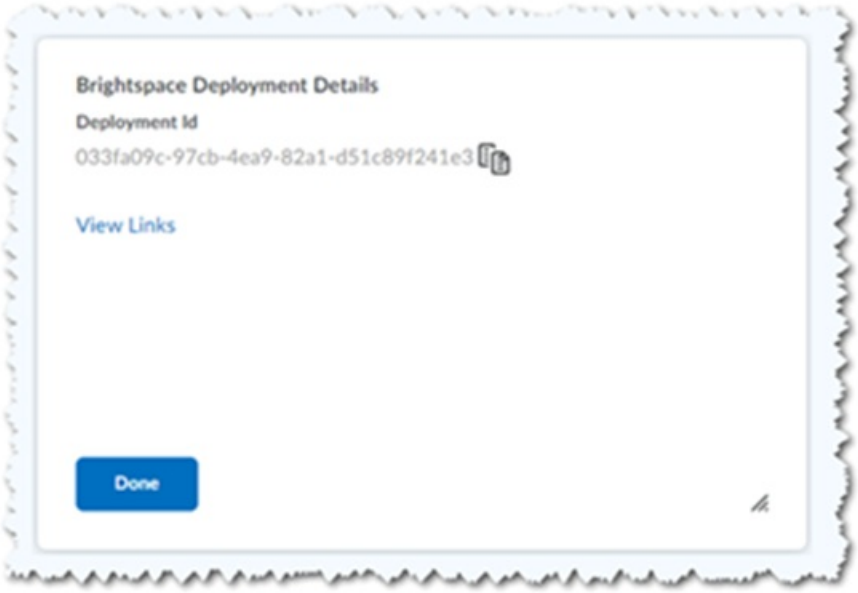


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7. Click **Create Deployment**.

   The following confirmation message displays.



8. Click **View Links** to continue.

If you click **Done** by mistake, you can access the links page in the next section.

Step 5 - Configure the Kaltura user ID value

By default, the Kaltura user ID is your Brightspace user ID.

With the Kaltura LMS integration, user ID records are passed from the LMS to Kaltura during the LTI launch. A Kaltura administrator can configure the KAF settings that determine which claim and property pair is used as the Kaltura user ID.

Kaltura added the following fields to the **Hosted** module to support user ID assignment with LTI 1.3:

- `lti13UserIdClaim` - The LTI claim from which the user ID is taken.
- `lti13UserIdClaimProperty` - The property within the claim from which the user ID is taken.

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When using LTI 1.1 as the authentication method (`KAF > Hosted > authMethod = lti`), administrators use the `ltiUserIdAttribute` field in the KAF **Hosted** module to determine which LTI attribute is used as the user ID.

The default LTI 1.1 value is:

- `ltiUserIdAttribute` = `ext_d2l_username`

If `ltiUserIdAttribute` in your KAF instance is not set to `ext_d2l_username` , review Configure the Kaltura user ID value for your LMS integration before proceeding.

When using LTI 1.3 as the authentication method (`KAF > Hosted > authMethod = lti1.3`), administrators use the `lti13UserIdClaim` and `lti13UserIdClaimProperty` fields in the KAF **Hosted** module to determine which LTI attribute is used as the user ID.

The default LTI 1.3 values are:

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

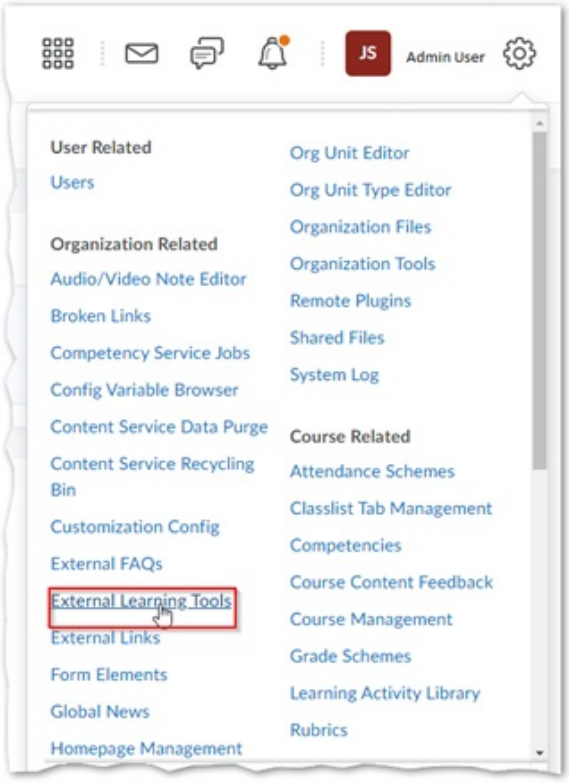
To view and configure these settings using the default values:

1. Sign in to your KAF Configuration Management console at `https://{your_KAF_base_URL}/admin` .
2. Navigate to the **Hosted** module at `https://{your_KAF_base_URL}/admin/config/tab/hosted` .
3. Scroll down to the `ltiUserIdAttribute` setting.
4. If `ltiUserIdAttribute` is set to `ext_d2l_username` , proceed to step 6. Otherwise, review Configure the Kaltura user ID value for your LMS integration before proceeding.
5. Clear the value of `ltiUserIdAttribute` .
6. Set `lti13UserIdClaim` to `http://www.brightspace.com` .
7. Set `lti13UserIdClaimProperty` to `username` .
8. Scroll to the bottom of the **Hosted** module and click **Save**.

Step 6 - Add the Kaltura tools and links

1. In Brightspace, click the **Admin Tools** gear icon in the upper-right corner, and then select **External Learning Tools**.

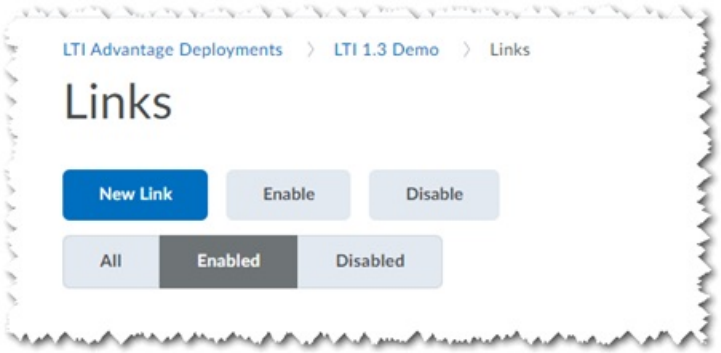
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2. On the **LTI Advantage** page, click the tool you created. Scroll to the bottom of the page, and then click **View Deployments**. The deployment ID and a **View Links** link display.
3. Click **View Links**. A new browser tab opens.



4. Click **New Link**, and then configure each Kaltura tool you want to create.

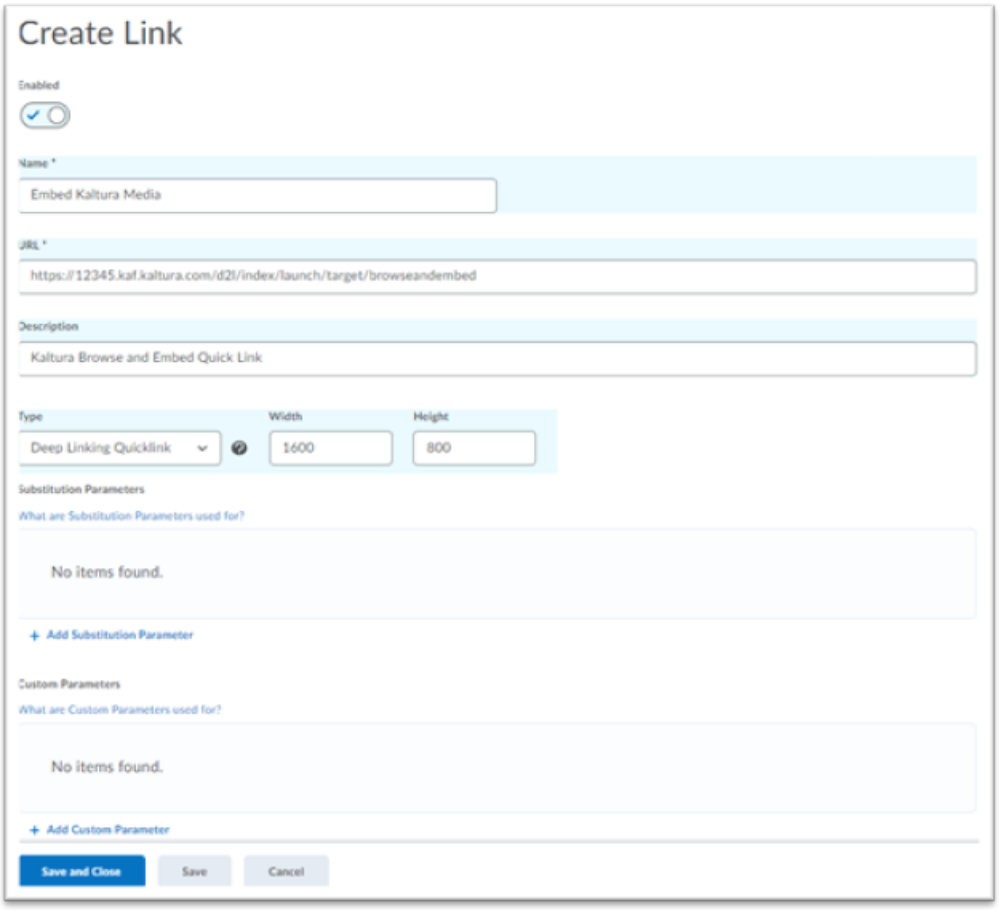


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Browse, Search, and Embed (BSE) - Quicklink

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

1. Click **New Link**. The **Create Link** page displays.
2. Make sure **Enabled** is selected. If it isn't, enable the tool.
3. Complete the following fields:
   - **Name** - Enter the name displayed to users: **Embed Kaltura Media**.
   - **URL** - Enter `https://{your_KAF_Base_URL}/d2l/index/launch/target/browseandembed`. For example, `https://12345.kaf.kaltura.com/d2l/index/launch/target/browseandembed`.
   - **Description** - Optional.
   - **Type** - Select **Deep Linking Quicklink**, set **Width** to `1125`, and set **Height** to `600`.
   - **Substitution Parameters** - Optional.
   - **Custom Parameters** - Optional.
4. Click **Save**.

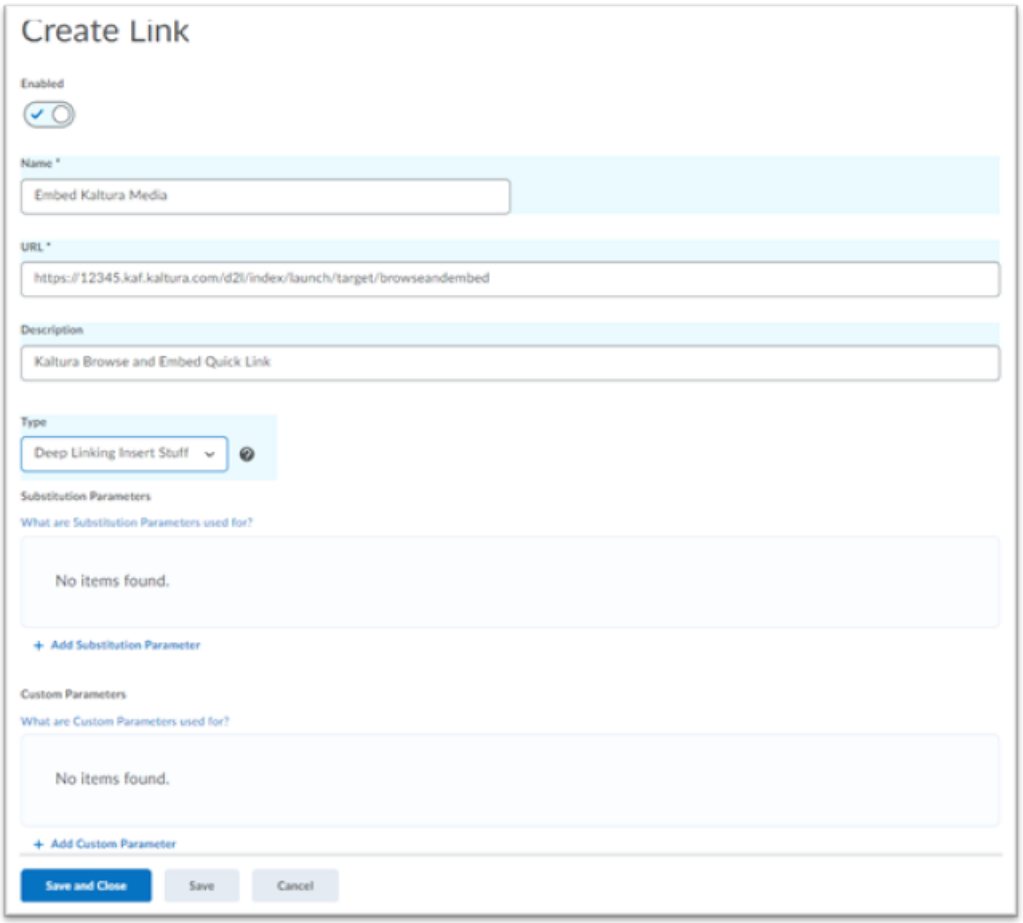


Browse, Search, and Embed (BSE) - Insert Stuff

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

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1. Click **New Link**. The **Create Link** page displays.
2. Make sure **Enabled** is selected. If it isn't, enable the tool.
3. Complete the following fields:
   - **Name** - Enter the name displayed to users: **Embed Kaltura Media**.
   - **URL** - Enter `https://{your_KAF_Base_URL}/d2l/index/launch/target/browseandembed`. For example, `https://12345.kaf.kaltura.com/d2l/index/launch/target/browseandembed`.
   - **Description** - Optional.
   - **Type** - Select **Deep Linking Insert Stuff**.
   - **Substitution Parameters** - Optional.
   - **Custom Parameters** - Optional.
4. Click **Save**.



My Media

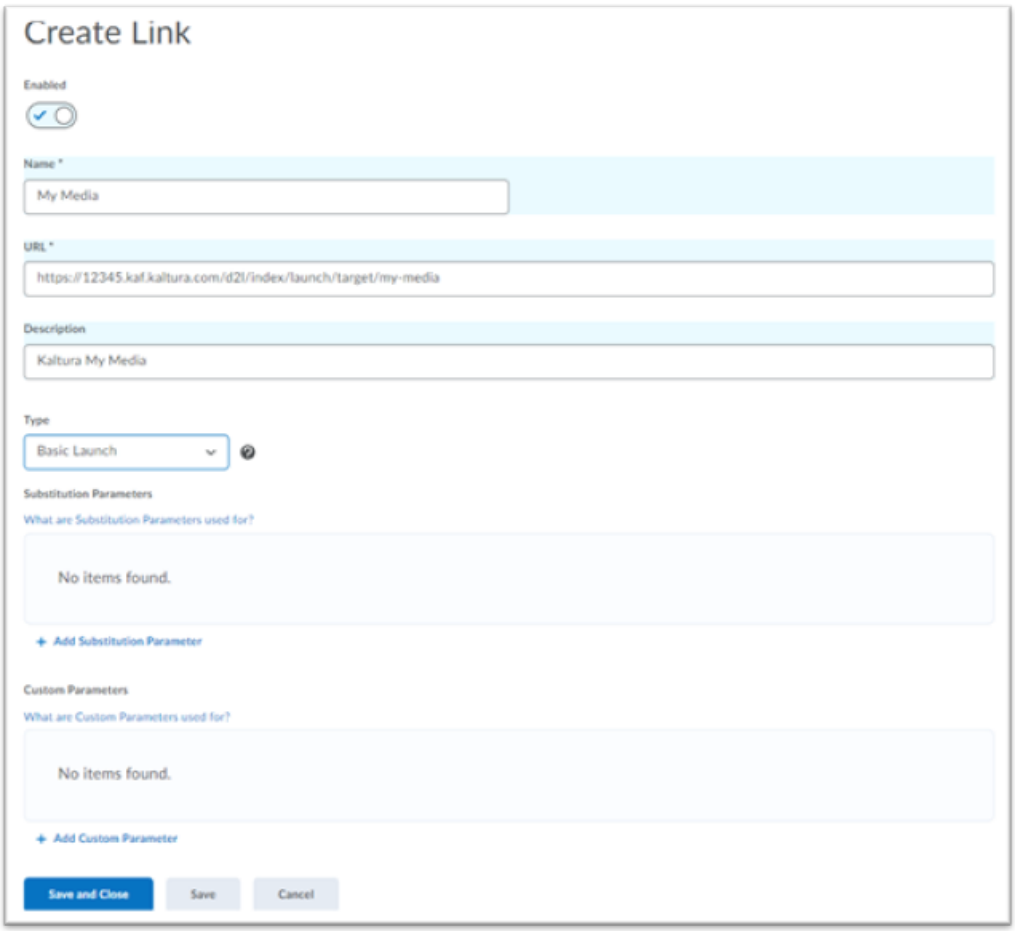
Use these steps to add My Media to Brightspace.

1. Click **New Link**. The **Create Link** page displays.
2. Make sure **Enabled** is selected. If it isn't, enable the tool.
3. Complete the following fields:

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- **Name** - Enter the name displayed to users: **My Media**.
- **URL** - Enter `https://{your_KAF_Base_URL}/d2l/index/launch/target/my-media`. For example, `https://12345.kaf.kaltura.com/d2l/index/launch/target/my-media`.
- **Description** - Optional.
- **Type** - Select **Basic Launch**.
- **Substitution Parameters** - Optional.
- **Custom Parameters** - Optional.

4. Click **Save**.



Media Gallery

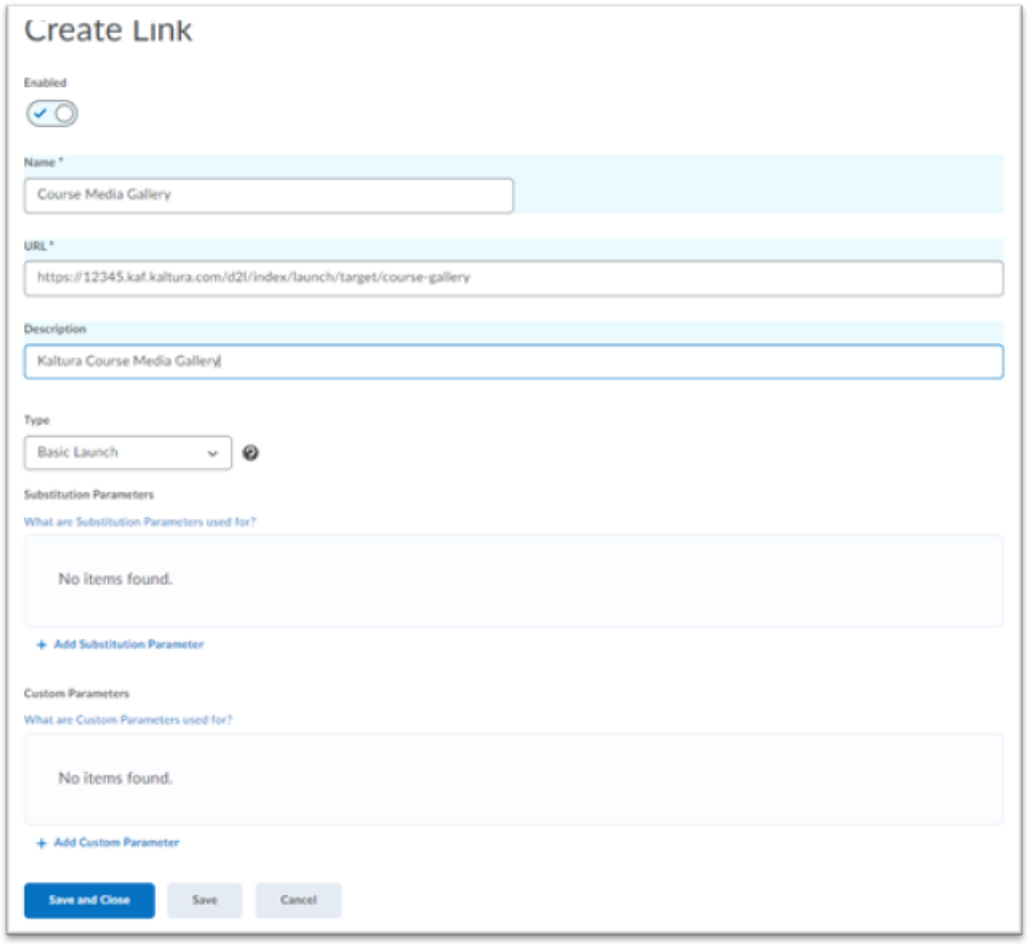
Use these steps to add the Kaltura Media Gallery tool to Brightspace.

1. Click **New Link**. The **Create Link** page displays.
2. Make sure **Enabled** is selected. If it isn't, enable the tool.
3. Complete the following fields:
   - **Name** - Enter the name displayed to users: **Course Media Gallery**.
   - **URL** - Enter `https://{your_KAF_Base_URL}/d2l/index/launch/target/course-gallery`. For example, `https://12345.kaf.kaltura.com/d2l/index/launch/target/course-gallery`.

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- **Description** - Optional.
- **Type** - Select **Basic Launch**.
- **Substitution Parameters** - Optional.
- **Custom Parameters** - Optional.

4. Click **Save**.



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

1. Sign in to Brightspace as the administrator of the org unit where you want to add the My Media link, and then open the org unit home page.
2. Hover over the navigation bar to display **Actions for Navbar**, and then click **Edit This Navbar**.



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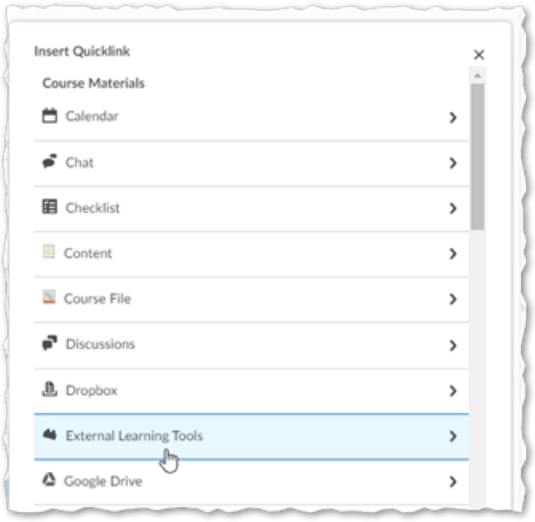
3. On the **Edit Navbar** page, click **Add Links**.



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

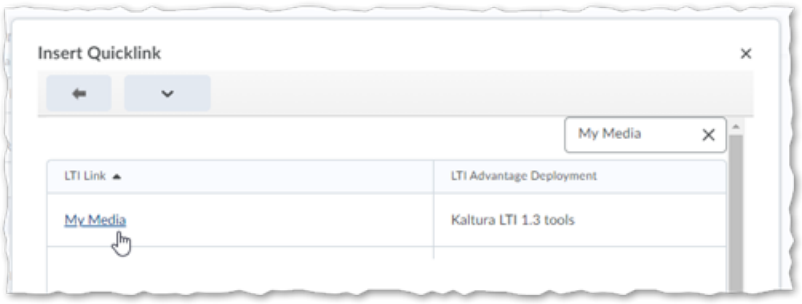


7. In the **Insert Quicklink** window, click **External Learning Tools**.

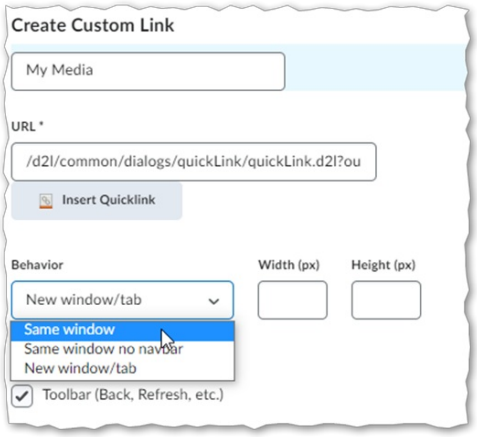


8. Search for and select **My Media**. The URL for the My Media tool in your LTI Advantage deployment is added to the **URL** setting in the **Create Custom Link** window.

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



10. Click **Create**.
11. Click **Add**.
12. In the **Edit Navbar** window, click **Save and Close**. The **My Media** link is added to the org unit navigation bar.

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

The administrator can add the Course Media Gallery tool to a course template, or an individual course administrator can add it to a course.

1. Sign in to Brightspace as the administrator of the org unit where you want to add the link, and then open the org unit home page.
2. Hover over the navigation bar to display **Actions for Navbar**, and then click **Manage All Course Navbars**.

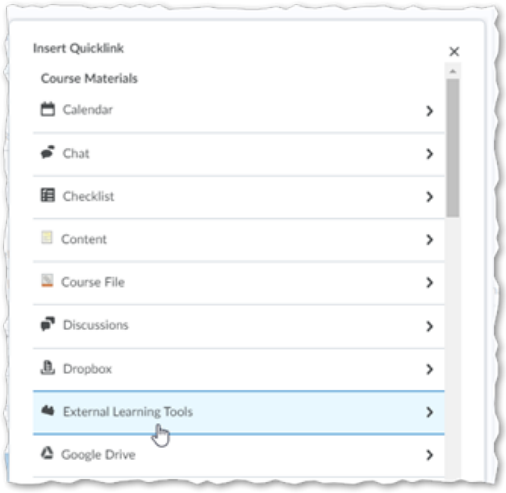
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3. Select the **Course Navbar** to which you want to add the Course Media Gallery link. The **Edit Navbar** window opens.
4. In the **Edit Navbar** window, click **Add Links**.
5. In the **Add Links** window, click **Create Custom Link**.
6. In the **Create Custom Link** window, enter **Course Media Gallery** in the **Name** field.
7. Click **Insert Quicklink**.

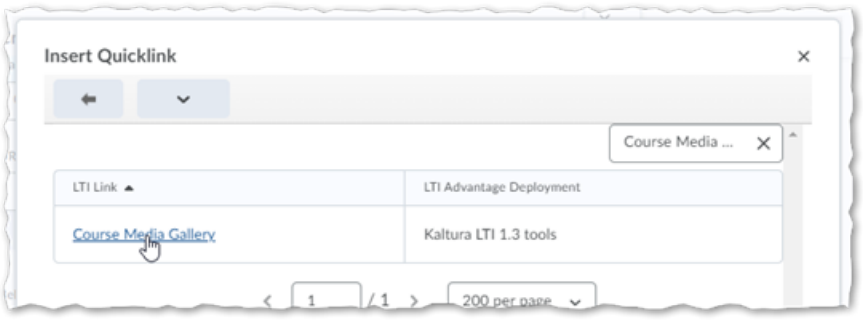


8. In the **Insert Quicklink** window, click **External Learning Tools**.

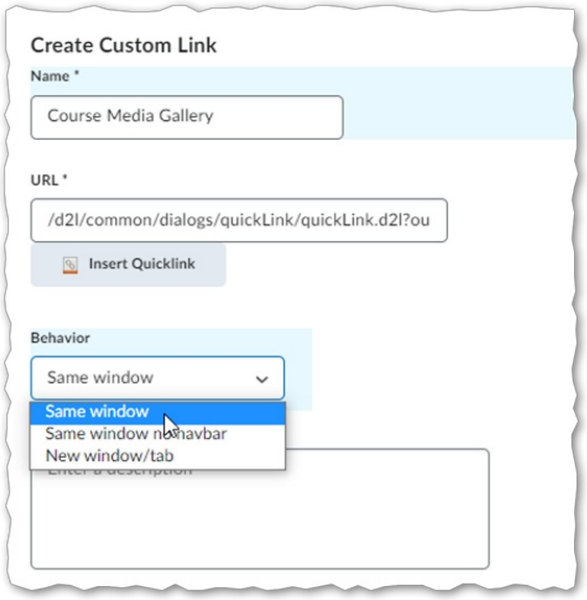


9. Search for and select **Course Media Gallery**. The URL for the Course Media Gallery tool in your LTI Advantage deployment is added to the **URL** setting in the **Create Custom Link** window.

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



11. Click **Create**.
12. Click **Add**.
13. In the **Edit Navbar** window, click **Save and Close**. The **Course Media Gallery** link is added to the course navigation bar.

Step 9 - Remove the LTI 1.1 tools

1. Test that all the LTI 1.3 tools and links you added are working properly.
2. Remove any navigation bar links for the LTI 1.1 My Media and Media Gallery Quicklinks.
3. Set the visibility of the Kaltura LTI 1.1 external tool links to **Off**:
   a. Go to **Admin Tools**.
   b. Click **External Learning Tools**.
   c. Click **Manage Tool Links (Legacy)**.
   d. Click the title of each Kaltura LTI 1.1 tool, such as Embed Kaltura Media, Insert Stuff, or Quicklinks.

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e. Clear **Allow users to view this link**.

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