

Kaltura Video Tool for Sakai Setup Guide

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This guide describes how to setup the Kaltura Video Tool for Sakai. Instructions are provided for setting up the package behavior and how to control user roles and permissions using the Kaltura Application Framework (KAF) Admin Console.

Prerequisites

The following items are required to setup the Kaltura Video Package for Sakai:

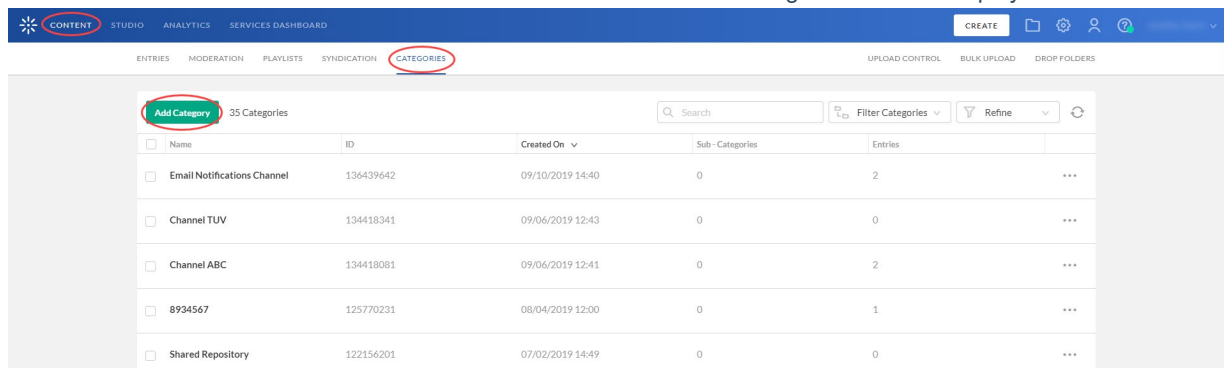
- Access to a Sakai environment with site administrator role.
- A Kaltura account - Please contact your Kaltura representative for your Kaltura account details.
- Installation of the Kaltura Video Tool for Sakai on your Sakai environment. For installation instructions, see [Kaltura Video Tool for Sakai Installation and Upgrade Guide Version 5.0](https://knowledge.kaltura.com/help/kaltura-video-tool-for-sakai-installation-and-upgrade-guide-version-5.0) (<https://knowledge.kaltura.com/help/kaltura-video-tool-for-sakai-installation-and-upgrade-guide-version-5.0>).
- KAF Admin Console – please ask your Kaltura representative for credentials to access your KAF Admin Console instance.

Before You Begin

You will need to create a Sakai root category in the KMC, if not already created for you by your Kaltura representative.

To create the Sakai root category in the KMC:

1. Log into the KMC.
2. Select the CONTENT tab and then select the CATEGORIES tab. The Categories Window displays.



3. Click the Add Category button. The New Category Window displays.

New Category

Name *

Select the parent category under which the new category will appear.

No Parent

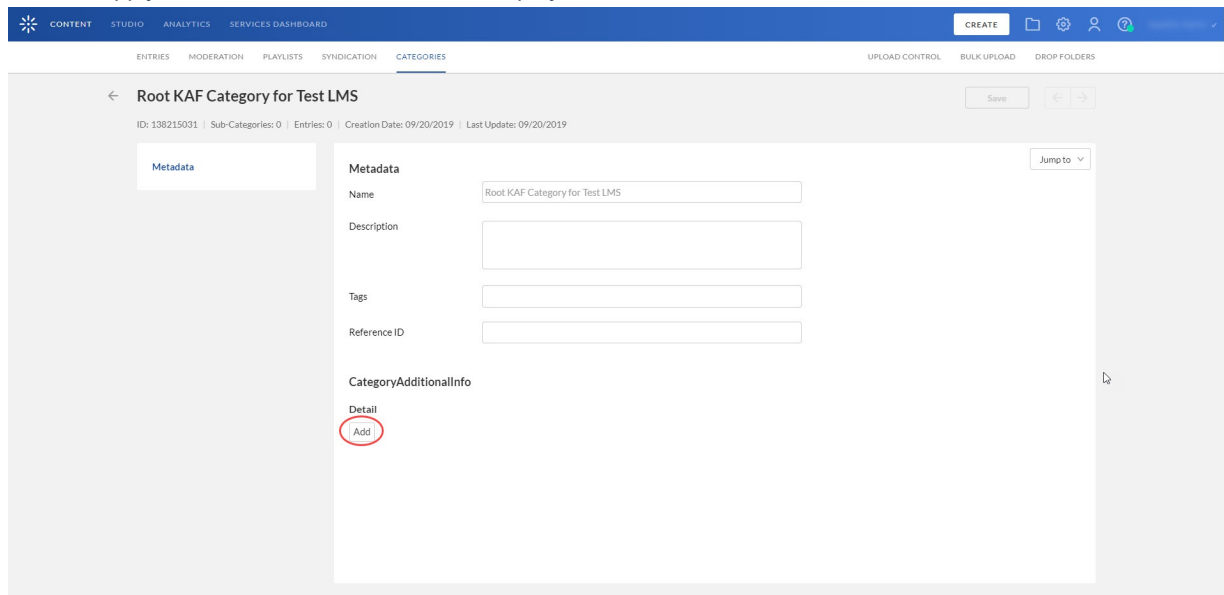
Search Categories

- MediaSpace 5
- Moodle 3
- Samples 4

Selected: No Parent

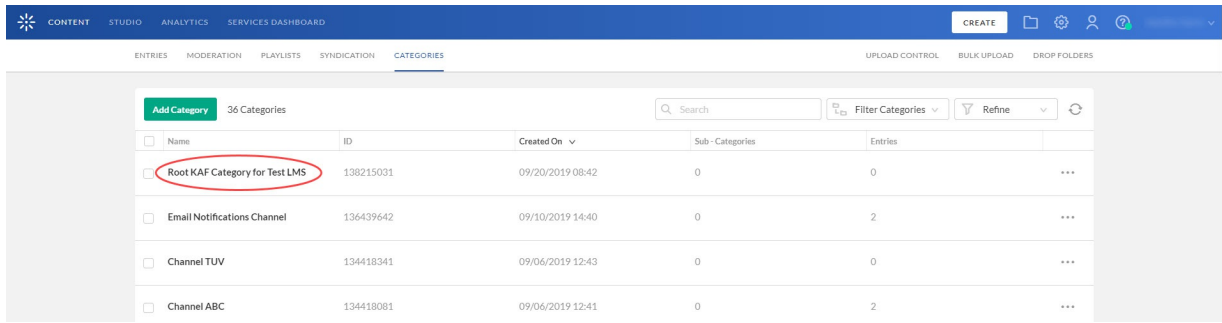
[Cancel](#)

4. Type a Name for the new category and select the position of the root category.
5. Click the Apply button. The Metadata Window displays.



The screenshot shows the 'Root KAF Category for Test LMS' metadata window. The 'Name' field is filled with 'Root KAF Category for Test LMS'. Below the 'Metadata' section, there is a 'CategoryAdditionalInfo' section with a 'Detail' sub-section containing an 'Add' button circled in red. The window also shows a 'Jump to' dropdown menu and a 'Save' button.

6. Type a Description, Tags, and a Reference ID for the new category.
7. In the Category/AdditionalInfo section below Detail, click the Add button.
8. Type Key and Value entries.
9. Click the Save button. The new category now shows in the list of categories on the Categories Window.

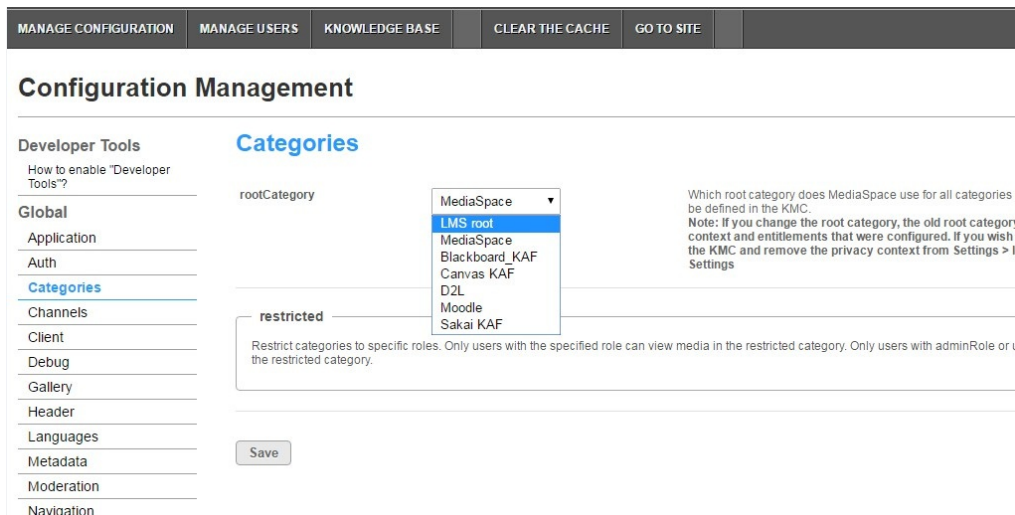


Mandatory Configuration

After installing the Kaltura Video Package for Sakai you will need to specify the root category you created under the Categories module.

Module	Fields	Description
Categories https://knowledge.kaltura.com/help/modified-global-modules-categories	RootCategory	Select the category you created in the KMC.

The root category should not be changed after the plugin is configured.



Understanding the Setup Process

The Kaltura Video Tool for Sakai offers an out-of-the-box solution that enables users to view, record, upload, publish, search, and share video directly from their Sakai environment. This translates into time and money saved for your organization, improved student engagement, creativity and learning results, as well as ease of use for students, faculty and teaching assistants.

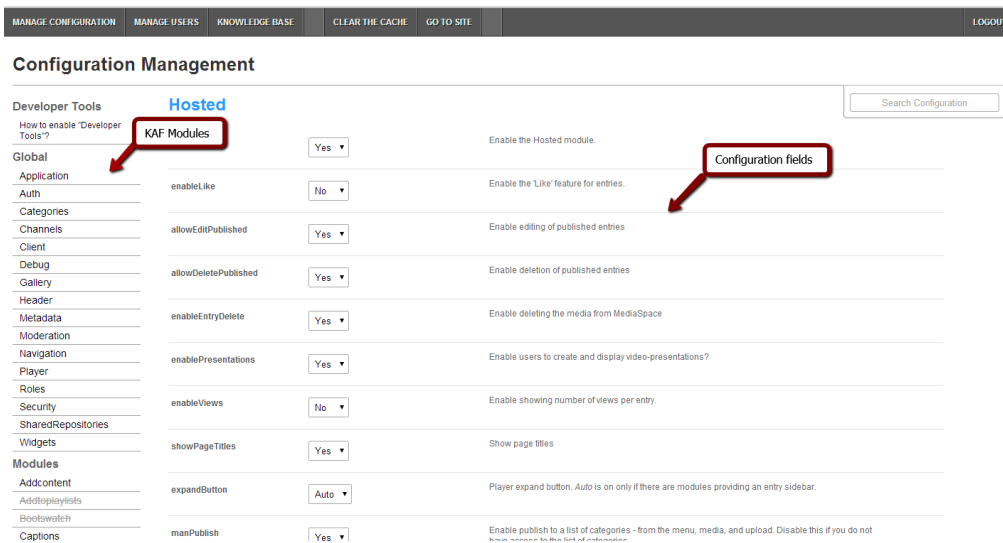
The Kaltura Application Framework (KAF) Admin Console

The Kaltura Video Tool for Sakai is implemented on top of the Kaltura Application Framework (KAF), a feature rich framework that allows flexible and streamlined integration of Kaltura’s video solutions and products into 3rdparty applications such as Sakai. KAF is hosted and served directly from the Kaltura cloud servers and once integrated into your Sakai environment, presents different video components and workflows to users.

At the back end, the Kaltura Application Framework provides a flexible and extensible administration panel, called “KAF Admin Console”. The KAF Admin Console offers full control over the user experience and when interacting with videos inside Sakai. Nearly all configuration aspects of the Kaltura Video Tool for Sakai are configured through the KAF Admin Console.

KAF Modules

Your KAF/KMS instance is composed of multiple **KAF modules**, such as “Application”, “Player”, and “Auth”. Each module controls a different aspect of your KMS/LMS integration. A KAF module is composed of a set of **configuration fields**. All KAF modules are listed on the left menu in your KAF/KMS Admin Console instance.



The screenshot shows the 'Configuration Management' interface. At the top, there are navigation links: MANAGE CONFIGURATION, MANAGE USERS, KNOWLEDGE BASE, CLEAR THE CACHE, GO TO SITE, and LOGOUT. Below this is a search bar labeled 'Search Configuration'. The main content area is titled 'Configuration Management' and features a left-hand navigation menu. Under 'Developer Tools', there is a 'Hosted' section with a 'KAF Modules' link highlighted by a red box and arrow. The main table lists configuration fields for the 'Hosted' module, with 'Configuration fields' highlighted by another red box and arrow. The table includes fields like 'enableLike', 'allowEditPublished', 'allowDeletePublished', 'enableEntryDelete', 'enablePresentations', 'enableViews', 'showPageTitles', 'expandButton', and 'manPublish', each with a dropdown menu and a description.

Your KAF/KMS Admin Console may display modules and configuration fields that are not listed in this guide, some of which may be disabled. It is important that you do not modify the configuration of the disabled modules (and not enable them) without consulting your Kaltura representative.

KAF Administration: Actions and Configurable Fields

Your KAF account comes pre-configured with the following settings. Items marked with * should not be changed.

General Settings

Module	Fields	Description
Application Application	InstanceId, privacyContext, userRoleProfile	Internal constant identifiers of your KAF instance. Please note that privacyContext should be empty.
		All site (set to None if SSL is not

Auth (https://knowledge.kaltura.com/help/auth) Module	sslSettings Fields	used) Description
Debug (https://knowledge.kaltura.com/help/debug)	serviceUrl	https://www.kaltura.com (https://www.kaltura.com/)(set to http://www.kaltura.com if SSL is not used)
	VerifySSL	Yes (set to No if SSL is not used)
Security (https://knowledge.kaltura.com/help/modified-global-modules-security)	allowLoadInframe	Yes*
Addcontent (https://knowledge.kaltura.com/help/addcontent)	enabled	Yes*
Userreports (https://knowledge.kaltura.com/help/userreports)	enabled	Yes*
Publish (https://knowledge.kaltura.com/help/publish)	enabled	Yes*
Browseandembed (https://knowledge.kaltura.com/help/browseandembed)	enabled	Yes*
Sakai (https://knowledge.kaltura.com/help/modified-customcore-modules-sakai)	enabled	Yes*
	enabled	Yes*
	enableLike	Yes/No
	enableViews	Yes/No
		Set to <i>No</i> if you want to prevent users from editing entries after they have

Module	allowEditPublished Fields	been published to a course Media Gallery or embedded using the Browse, Search and Embed module.
Hosted (https://knowledge.kaltura.com/help/hosted)	allowDeletePublished	Set to <i>No</i> if you want to prevent users from deleting entries after they have been published to a course Media Gallery or embedded using the Browse, Search and Embed module.
	enableEntryDelete	Set to <i>No</i> to completely prevent users from deleting entries
	manPublish	Yes* (Unless publish plugin was integrated).
	authMethod	Lti

Configuring Modules

Some fields are displayed only when you select a specific value for a different field. The group's configurable fields follow the group name.

To modify KAF configuration modules

In the KAF Admin window select the Manage Configuration tab.

The following KAF modules are required for configuring the Kaltura Video Tool for Sakai and are described in this guide:

Configuration Management: Global Modules

- [Application](https://knowledge.kaltura.com/help/application) (<https://knowledge.kaltura.com/help/application>)
- [Auth](https://knowledge.kaltura.com/help/auth) (<https://knowledge.kaltura.com/help/auth>)
- [Channels](https://knowledge.kaltura.com/help/modified-global-modules-channels) (<https://knowledge.kaltura.com/help/modified-global-modules-channels>)
- [Client](https://knowledge.kaltura.com/help/client) (<https://knowledge.kaltura.com/help/client>)
- [Debug](https://knowledge.kaltura.com/help/debug) (<https://knowledge.kaltura.com/help/debug>)
- [Gallery](https://knowledge.kaltura.com/help/gallery) (<https://knowledge.kaltura.com/help/gallery>)
- [Languages](https://knowledge.kaltura.com/help/languages) (<https://knowledge.kaltura.com/help/languages>)
- [Moderation](https://knowledge.kaltura.com/help/moderation) (<https://knowledge.kaltura.com/help/moderation>)
- [Player](https://knowledge.kaltura.com/help/modified-global-modules-player) (<https://knowledge.kaltura.com/help/modified-global-modules-player>)
- [Security](https://knowledge.kaltura.com/help/modified-global-modules-security) (<https://knowledge.kaltura.com/help/modified-global-modules-security>)
- [Shared Repositories](https://knowledge.kaltura.com/help/shared-repositories) (<https://knowledge.kaltura.com/help/shared-repositories>)
- [Widgets](https://knowledge.kaltura.com/help/widgets) (<https://knowledge.kaltura.com/help/widgets>)
- [Search](https://knowledge.kaltura.com/help/modified-global-modules-search) (<https://knowledge.kaltura.com/help/modified-global-modules-search>)

- [MediaCollaboration](https://knowledge.kaltura.com/help/media-collaboration) (https://knowledge.kaltura.com/help/media-collaboration)
- [PlaylistPage](https://knowledge.kaltura.com/help/playlistpage) (https://knowledge.kaltura.com/help/playlistpage)

Configuration Management: Configuration Modules

- [Addcontent](https://knowledge.kaltura.com/help/addcontent) (https://knowledge.kaltura.com/help/addcontent)
- [Captions](https://knowledge.kaltura.com/help/mod-configuration-management-modules-kms-management-consolekaf-admin-captions) (https://knowledge.kaltura.com/help/mod-configuration-management-modules-kms-management-consolekaf-admin-captions)
- [CaptureSpace](https://knowledge.kaltura.com/help/capturespace) (https://knowledge.kaltura.com/help/capturespace)
- [Channelplaylists](https://knowledge.kaltura.com/help/channelplaylists) (https://knowledge.kaltura.com/help/channelplaylists)
- [Comments](https://knowledge.kaltura.com/help/comments) (https://knowledge.kaltura.com/help/comments)
- [Embed](https://knowledge.kaltura.com/help/embed) (https://knowledge.kaltura.com/help/embed)
- [EmbedPlaylist](https://knowledge.kaltura.com/help/embedplaylist) (https://knowledge.kaltura.com/help/embedplaylist)
- [Publish](https://knowledge.kaltura.com/help/publish) (https://knowledge.kaltura.com/help/publish)
- [SidemyMedia](https://knowledge.kaltura.com/help/sidemymedia) (https://knowledge.kaltura.com/help/sidemymedia)
- [Thumbnails](https://knowledge.kaltura.com/help/thumbnails) (https://knowledge.kaltura.com/help/thumbnails)
- [Userreports](https://knowledge.kaltura.com/help/userreports) (https://knowledge.kaltura.com/help/userreports)

Configuration Management: Channel Modules

- [Channelmoderation](https://knowledge.kaltura.com/help/channelmoderation) (https://knowledge.kaltura.com/help/channelmoderation)

Configuration Management: Entry Type Modules

- [Audioentry](https://knowledge.kaltura.com/help/audioentry) (https://knowledge.kaltura.com/help/audioentry)
- [Imageentry](https://knowledge.kaltura.com/help/imageentry) (https://knowledge.kaltura.com/help/imageentry)

Modules/Custom/Core/KAF

- [Browseandembed](https://knowledge.kaltura.com/help/browseandembed) (https://knowledge.kaltura.com/help/browseandembed)
- [Hosted](https://knowledge.kaltura.com/help/hosted) (https://knowledge.kaltura.com/help/hosted)
- [Hostedrelated](https://knowledge.kaltura.com/help/hostedrelated) (https://knowledge.kaltura.com/help/hostedrelated)
- [Sakai](https://knowledge.kaltura.com/help/modified-customcore-modules-sakai) (https://knowledge.kaltura.com/help/modified-customcore-modules-sakai)

Roles and Permissions

See [Common Use Cases of Role Configuration](#) for recommendations for common role configurations in the Kaltura Application Framework Generic LTI Integration.

Introduction to Role Mapping

The Kaltura Video Tool for Sakai implements role mapping from Sakai roles to Kaltura roles via [LIS roles](#) (<http://www.imsglobal.org/lti/blti/bltiv1p0/ltiBLTIimgv1p0.html>). Each role that is assigned to a user in Sakai is mapped to one of the roles defined in the LIS standard. When a user is assigned with a role in a Sakai site – Access or Maintain for example – Sakai translates this role to an LIS role which is then sent to KAF. On KAF's side, a dedicated module provides flexible mapping between LIS roles and Kaltura roles, allowing a granular control over the behavior of the different Kaltura Video Package components in Sakai.

This process is described in the following workflow.

1. [Users are assigned a LMS course-level role after being assigned to a course.](#)

2. The LMS sends the corresponding LIS role to Kaltura.
3. KAF Grants Permissions according to mapping.

Assign a LMS Course-level Role

Users are assigned a LMS role when added to courses.

Sakai Sends the Corresponding LIS Role to Kaltura

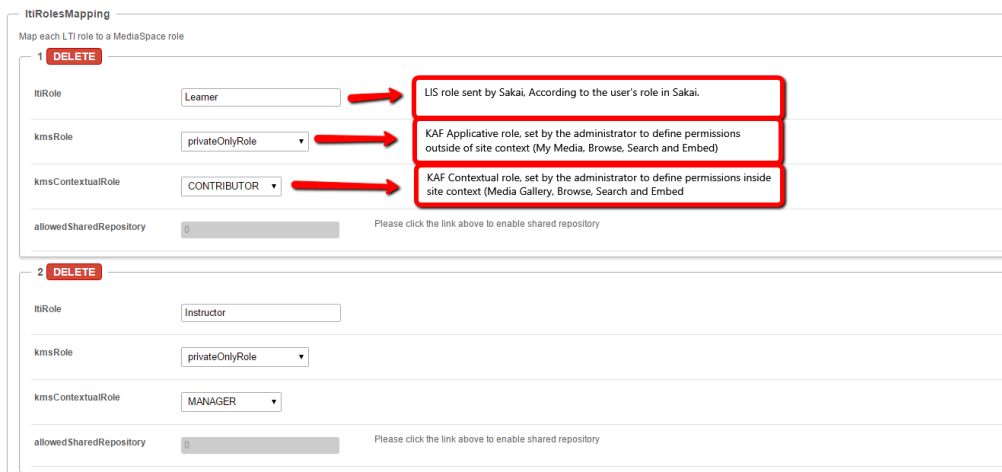
When a user accesses a Course-level Kaltura module, such as Media Gallery or the Browse, Search and Embed, the LMS sends the corresponding LIS role to Kaltura, according to the following mapping:

Sakai Site-level role	LIS role
Access	Learner
Maintain	Instructor

KAF Grants Permissions According to the Mapping

On the KAF Admin Console side, each LIS role can be mapped back to Kaltura roles. KAF grants different permissions according to the mapping provided in the Hosted module in the KAF Admin Console.

For example:



As displayed, each LIS role is mapped in Kaltura to two roles – an **Applicative Role** (`kmsRole`) and a **Contextual Role** (`kmsContextualRole`). These roles correspond to different cases/scenarios in the Kaltura Application Framework Generic LTI Integration. Setting these roles changes the permissions a user has in the following scenarios:

- **Applicative role (KMSRole)**- Defines the user roles and permissions in Kaltura widgets that are out of course context (for example: My Media)
 - **anonymousRole**– Not relevant to the Kaltura Application Framework Generic LTI Integration and should not be

used.

- **viewerRole**– The user will not have access to My Media, and will not be able to upload new content to either My Media, Media Gallery or using the Embed Kaltura Media text-editor button.
- **privateOnlyRole**– The user will have access to My Media and will have the ability to create new content.
- **adminRole, unmoderatedAdminRole**– Not relevant to the Kaltura Application Framework Generic LTI Integration and should not be used.
- **Contextual role (KMScontextualrole)**- Defines the user roles and permission in Kaltura widgets when in a course (site) context (for example: Media Gallery)
 - **Member**: The user will be able to view content in Media Galleries of courses to which the user is enrolled, but will not be able to contribute (publish) to the galleries.
 - **Contributor**: The user has Member permissions with the ability to publish content to the Media Gallery.
 - **Moderator**: The user has Contributor permissions with the ability to moderate content added to the Media Gallery.
 - **Manager**: The user has Moderator permissions with the ability edit the Media Gallery settings, and view the course gallery analytics.

From the Kaltura module’s perspective, the permissions are as follows:

- **My Media**
 - **Applicative role**: If viewerRole, the user will not have access to My Media and will not be able to upload new content. If privateOnlyRole the user will be able to have its own My Media repository to where he can upload his own private content.
 - **Contextual role**: does not impact My Media.
- **Media Gallery**
 - **Applicative role**: If the user has a contextual role that allows publishing/adding content to the Media Gallery (see the following table), and the user has an Applicative role of **privateOnlyRole**, the user will be able to upload new content or contribute content from its own private My Media repository.
 - **Contextual role**: Determines the role of the user inside the Media Gallery (note – users can access a course Media Gallery after they have access to the course page in the LMS, regardless of their Kaltura role.

Role	Permissions
Member	If the user has Member contextual role, the user will be treated as a “viewer only” in the Media Gallery, and will only be able to view content, and will not be able to contribute content to the Gallery (regardless of the user’s Applicative role).
Contributor	Users with Contributor role can view Media Gallery entries and upload and contribute entries from My Media (if applicative role is privateOnlyRole). Students are usually assigned Member or Contributor contextual roles.
Moderator	Moderator role allows the users to moderate content published to a Media Gallery (and to contribute new content). Teaching Assistants usually have Moderator contextual roles.

Role Manager	Permissions A Manager role provides full access to the Media Gallery, including the ability to moderate content, edit the Media Gallery's settings and metadata, and access the Media Gallery Analytics. Instructors usually have Manager contextual roles

- **Browse, Search and Embed** (rich-text editor button)
 - **Applicative role:** If **viewerRole**, the user will not have access to My Media and will not be able to create new content. If **privateOnlyRole** the user will be able to have their own My Media repository to where they can upload their private content.
 - **Contextual role:** does not impact Embed Kaltura Video.

Summary of Default Sakai -> LIS -> Kaltura Roles Mapping

Sakai role	LIS role	Default Kaltura applicative role (kmsRole)	Default Kaltura contextual role (kmsContextualRole)
Student	Learner	privateOnlyRole	CONTRIBUTOR
Instructor	Instructor	privateOnlyRole	MANAGER
Maintain	Instructor	privateOnlyRole	MANAGER
Access	Learner	privateOnlyRole	CONTRIBUTOR
Teaching Assistant	Learner	privateOnlyRole	CONTRIBUTOR

Common Use Cases of Role Configuration

This section provides recommendations for common role configuration in the Kaltura Video Tool for Sakai.

The following use cases are described:

- [Allowing Students to Upload Content](#)
- [Allowing Faculty Only to Upload and Create New Content](#)

Allowing Students to Upload Content

Description: Allow all users to author new content (upload, webcam recording, screencast recording, etc.) and publish to courses, Media Galleries, regardless of their contextual role.

Sakai Side Configuration

No special configuration is required on the Sakai side for this case. Assign all students to the Sakai Access role and teachers to the Sakai maintain Role.

KAF Side Configuration

In your KAF instance, configure the following mapping under the Hosted module:

ItiRole	kmsRole	kmsContextualRole
Learner	privateOnlyRole	CONTRIBUTOR
Instructor	privateOnlyRole	MANAGER

Allowing Faculty Only to Upload and Create New Content

Description: Allow only faculty members to create and upload new media. Students should not have access to My Media and should not be able to contribute to any course Media Gallery.

Sakai-side Configuration

To accomplish this configuration, the My Media link should be hidden to all logged in users but Teachers.

It is important to hide the My Media link. If students are able to access the My Media link, an “Access Denied” message will be displayed as they are prevented from accessing My Media by the KAF-side configuration (see below).

KAF Side Configuration

In your KAF instance, configure the following mapping under the Hosted module:

ItiRole	kmsRole	kmsContextualRole
Learner	viewRole	MEMBER
Instructor	privateOnlyRole	MANAGER