

Kaltura Extension for IBM Connections Deployment Guide

Version: Version 1.0

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Preface

This preface contains the following topics:

- [About this Manual](#)
- [Audience](#)
- [Document Conventions](#)

About this Manual

This guide describes how to deploy and configure the Kaltura Extension for IBM Connections.



NOTE: Please refer to the official and latest product release notes for last-minute updates. Technical support may be obtained directly from: [Kaltura Customer Care](#).

Contact Us:

Please send your documentation-related comments and feedback or report mistakes to knowledge@kaltura.com.

We are committed to improving our documentation and your feedback is important to us.

Audience

This guide is intended for IBM Connections administrators.

Document Conventions

Kaltura uses the following admonitions:

- Note
- Workflow



NOTE: Identifies important information that contains helpful suggestions.



Workflow: Provides workflow information.

1. Step 1
2. Step 2

Prerequisites

The following are prerequisites for the Kaltura Extension for IBM Connections:

- Kaltura IBM Connections v3 or above
- A Kaltura Partner account
- A Kaltura Application Framework instance

Before Starting the Deployment Process

Contact your Kaltura representative to create a Kaltura Application Framework instance for your Kaltura Extension for IBM Connections.

You should receive the following:

- The launch point base URL that will be used further in the process
- The Administration application login page URL.

Deployment Process Workflow

The following workflow describes the deployment process.



1. [Install the REST API \(WAR file\).](#)
2. [Configure the Kaltura Extension for IBM Connections Settings.](#)
3. [Configure the Gadgets.](#)
4. [Configuring the CKEditor Extension.](#)

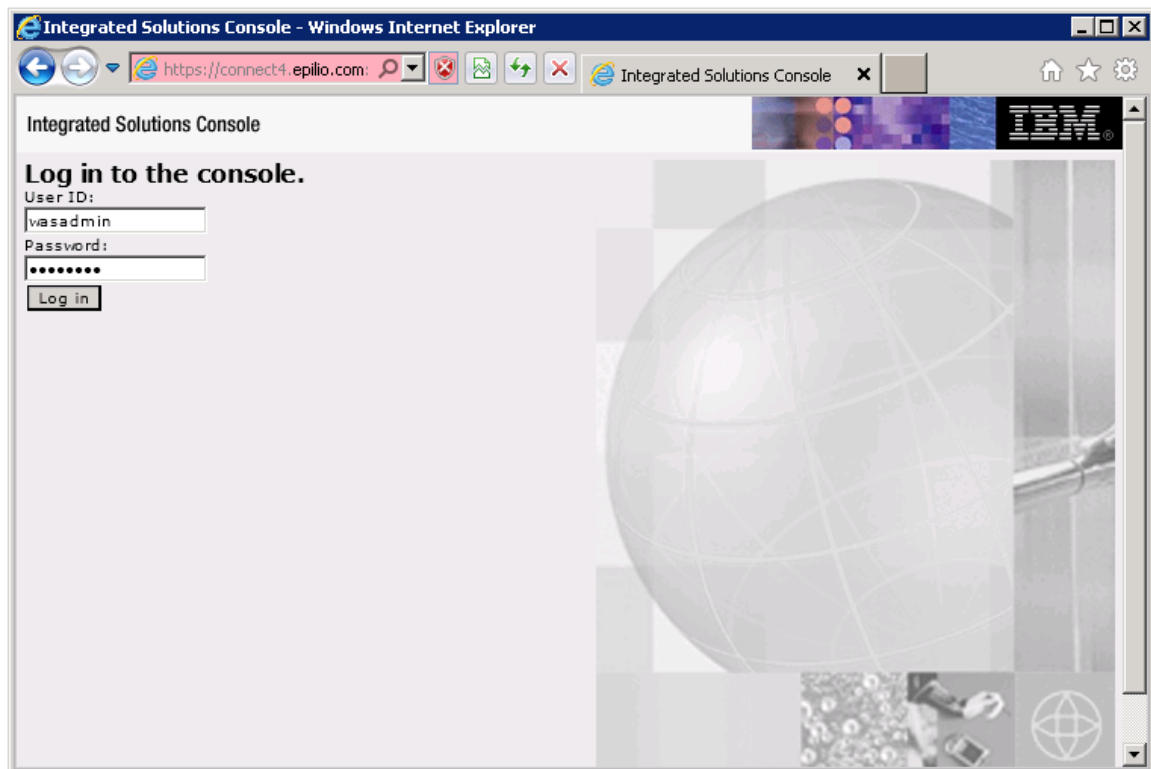
Deploying the Kaltura Extension for IBM Connections

This section describes how to deploy and configure the Kaltura Extension for IBM Connections

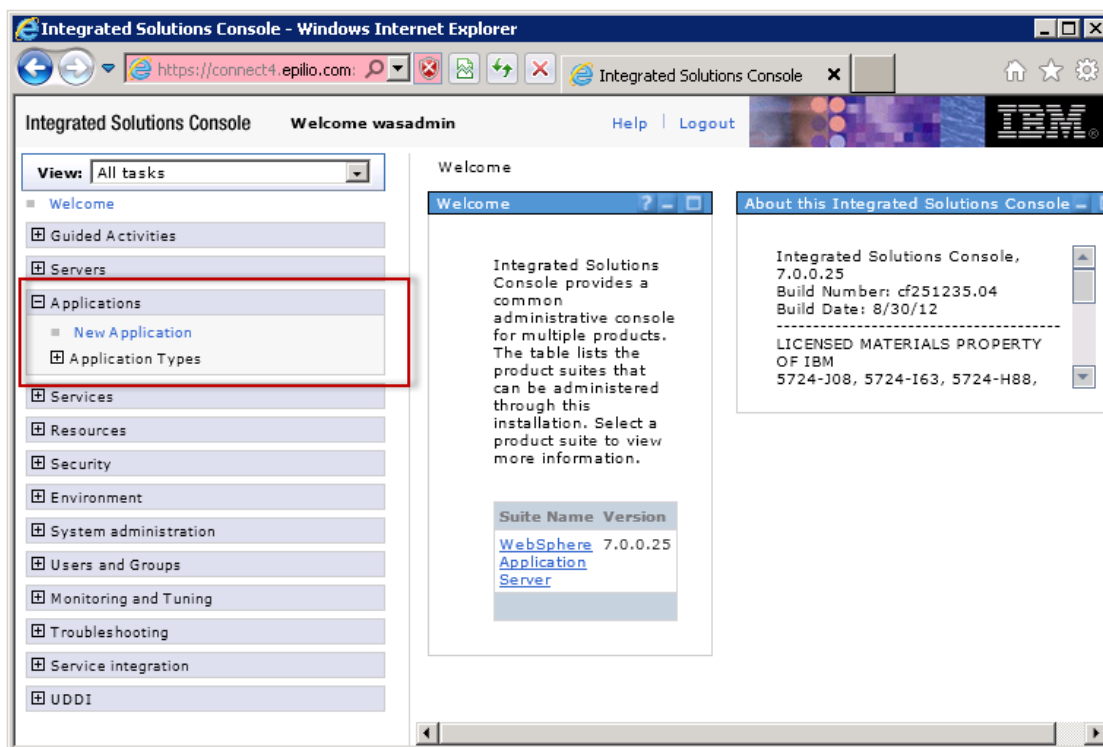
Installing the REST API (WAR file)

 To deploy the Kaltura Video Extension into IBM Connections WebSphere server

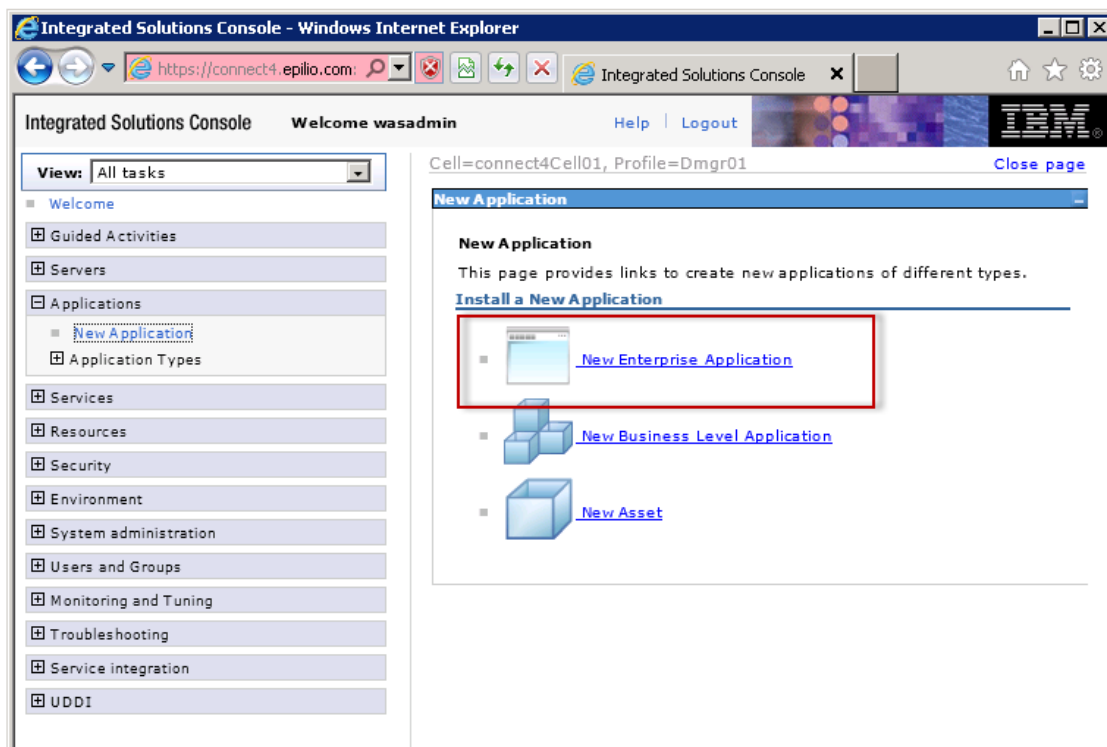
1. Download the Kaltura Extension for IBM Connections WAR file. See <http://corp.kaltura.com/Products/Video-Applications/IBM-Connections-Video-Extension>.
2. Login to IBM WebSphere Administrator Console. <https://<server>:9043/ibm/console>



- After logging in, navigate to the **Applications** section and click on **New Application**.

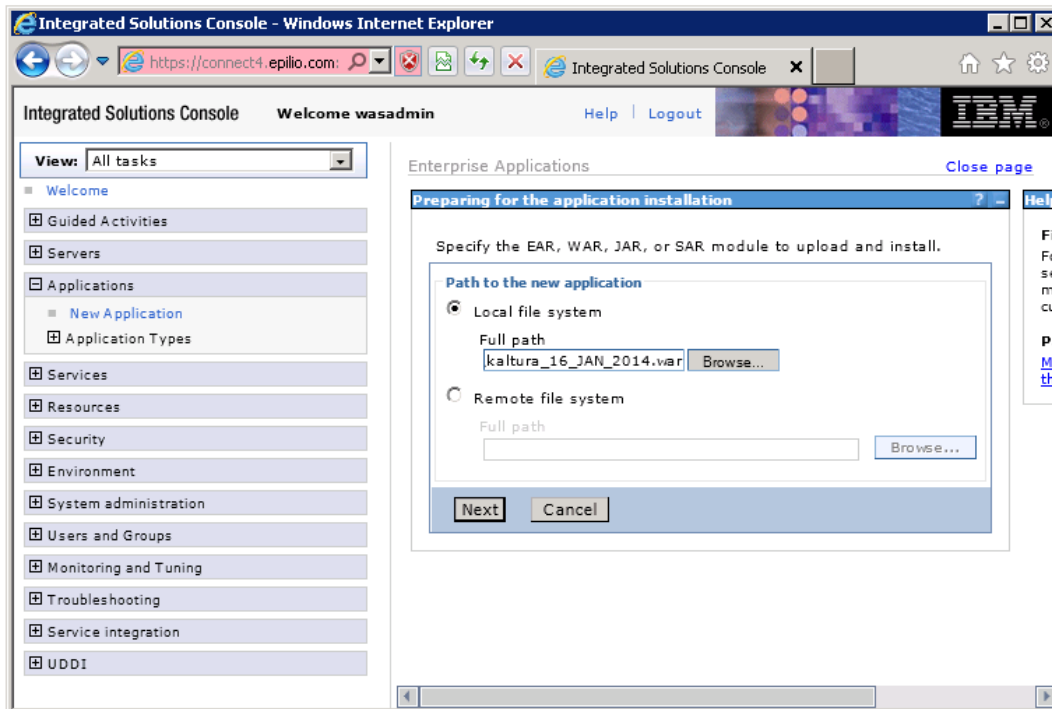


- Select the option for **New Enterprise Application**.

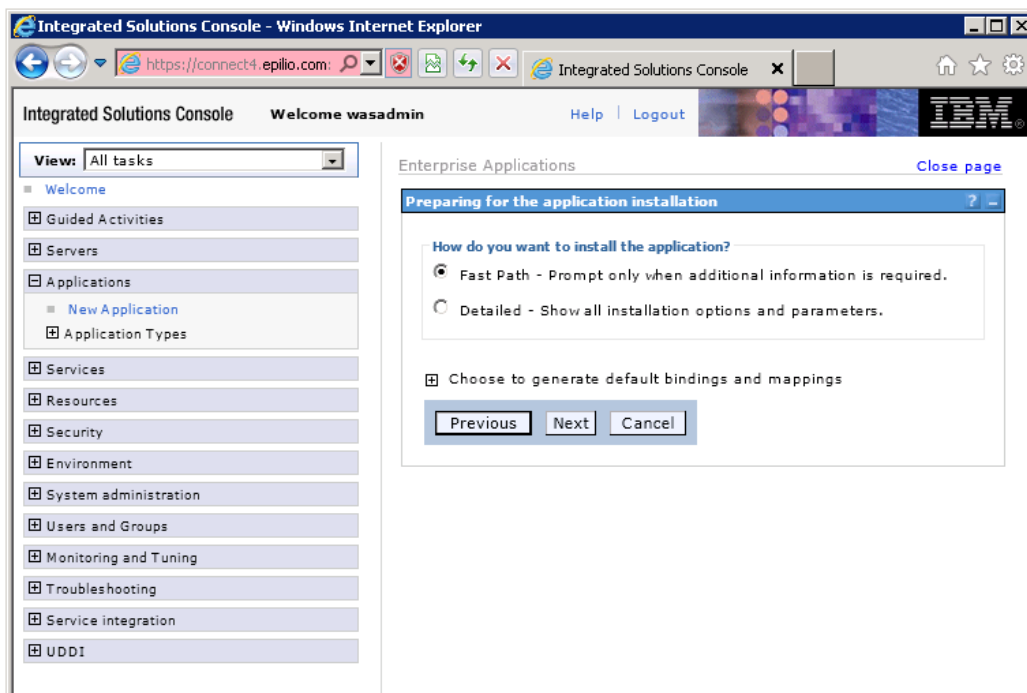


A deployment wizard is displayed to install a WAR file.

5. Select the **Local file system** option and use the **Browse** button to local the WAR file for the Kaltura Extension for IBM Connections.



6. After specifying the path, click on **Next**.
7. Select the **Fast Path** option and click **Next**.



8. In the **Installation Options** form, specify the application directory and name as **Kaltura** and click on **Next**.

Integrated Solutions Console - Windows Internet Explorer

Integrated Solutions Console Welcome wasadmin Help Logout IBM

View: All tasks

- Welcome
- Guided Activities
- Servers
- Applications
- Services
- Resources
- Security
- Environment
- System administration
- Users and Groups
- Monitoring and Tuning
- Troubleshooting
- Service integration
- UDDI

Step 1: Select installation options

Step 2: Map modules to servers

Step 3: Map virtual hosts for Web modules

Step 4: Map context roots for Web modules

Step 5: Summary

Select installation options

Specify the various options that are available to prepare and

☐ Precompile JavaServer Pages files

Directory to install application
kaltura

☒ Distribute application

☐ Use Binary Configuration

☐ Deploy enterprise beans

Application name
kaltura

☒ Create MBeans for resources

☐ Override class reloading settings for Web and EJB modules

Reload interval in seconds
[text field]

☐ Deploy Web services

Validate Input off/warn/fail
warn

☐ Process embedded configuration

File Permission

Allow all files to be read but not written to
Allow executables to execute
Allow HTML and image files to be read by everyone

.*\,dll=755#.*\,so=755#.*\,a=755#.*\,sl=755

Application Build ID
Unknown

☐ Allow dispatching includes to remote resources

9. Accept the specified default settings in **Step 2** and click on **Next**.

Install New Application

Specify options for installing enterprise applications and modules.

Step 1: Select installation options

Step 2: Map modules to servers

Step 3: Map virtual hosts for Web modules

Step 4: Map context roots for Web modules

Step 5: Summary

Map modules to servers

Specify targets such as application servers or clusters of application servers where you want to install the modules that are contained in your application. Modules can be installed on the same application server or dispersed among several application servers. Also, specify the Web servers as targets that serve as routers for requests to this application. The plug-in configuration file (plugin-cfg.xml) for each Web server is generated, based on the applications that are routed through.

Clusters and servers:

WebSphere:cell=connect4Cell01,cluster=Cluster1

WebSphere:cell=connect4Cell01,node=connect4Node01,server=server1

Apply

Select	Module	URI	Server
<input type="checkbox"/>	kaltura_16_JAN_2014.war	kaltura_16_JAN_2014.war,WEB-INF/web.xml	WebSphere:cell=connect4Cell01,cluster=Cluster1

Previous Next Cancel

10. Accept the specified default settings in **Step 3** and click on **Next** .

Install New Application

Specify options for installing enterprise applications and modules.

Step 1 Select installation options
Step 2 Map modules to servers
→ Step 3: Map virtual hosts for Web modules
 ★ **Step 4** Map context roots for Web modules
 Step 5 Summary

Map virtual hosts for Web modules

Specify the virtual host where you want to install the Web modules that are contained in your application. You can install Web modules on the same virtual host or disperse them among several hosts.

☒ Apply Multiple Mappings

Select	Web module	Virtual host
<input type="checkbox"/>	kaltura_16_JAN_2014.war	default_host

Previous Next Cancel

11. Specify the **Context Root** as **/kalturaconnections** and click **Next**.

Install New Application

Specify options for installing enterprise applications and modules.

Step 1 Select installation options
Step 2 Map modules to servers
Step 3 Map virtual hosts for Web modules
→ Step 4: Map context roots for Web modules
 Step 5 Summary

Map context roots for Web modules

Context root defined in the deployment descriptor can be edited.

Web module	URI	Context Root
kaltura_16_JAN_2014.war	kaltura_16_JAN_2014.war,WEB-INF/web.xml	/kalturaconnections

Previous Next Cancel

12. The **Summary** step displays a summary of the specified options. Click **Finish** to install the extension.

Specify options for installing enterprise applications and modules.

[Step 1](#) Select installation options

[Step 2](#) Map modules to servers

[Step 3](#) Map virtual hosts for Web modules

[Step 4](#) Map context roots for Web modules

→ **Step 5: Summary**

Summary

Summary of installation options

Options	Values
Precompile JavaServer Pages files	No
Directory to install application	kaltura
Distribute application	Yes
Use Binary Configuration	No
Deploy enterprise beans	No
Application name	kaltura
Create MBeans for resources	Yes
Override class reloading settings for Web and EJB modules	No
Reload interval in seconds	
Deploy Web services	No
Validate Input off/warn/fail	warn
Process embedded configuration	No
File Permission	.*\,dll=755#.*\,so=755#.*\,a=755#.*\,sl=755
Application Build ID	Unknown
Allow dispatching includes to remote resources	No
Allow servicing includes from remote resources	No
Business level application name	
Asynchronous Request Dispatch Type	Disabled
Allow EJB reference targets to resolve automatically	No
Cell/Node/Server	Click here

Previous
Finish
Cancel

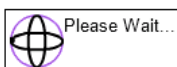
Status updates are displayed while the extension is being installed.

Installing...

If there are enterprise beans in the application, the EJB deployment process can take several minutes. Do not save the configuration until the process completes.

Check the SystemOut.log on the deployment manager or server where the application is deployed for specific information about the EJB deployment process as it occurs.

ADMA5016t: Installation of kaltura started.



13. When the extension installation is complete, click **Save**.

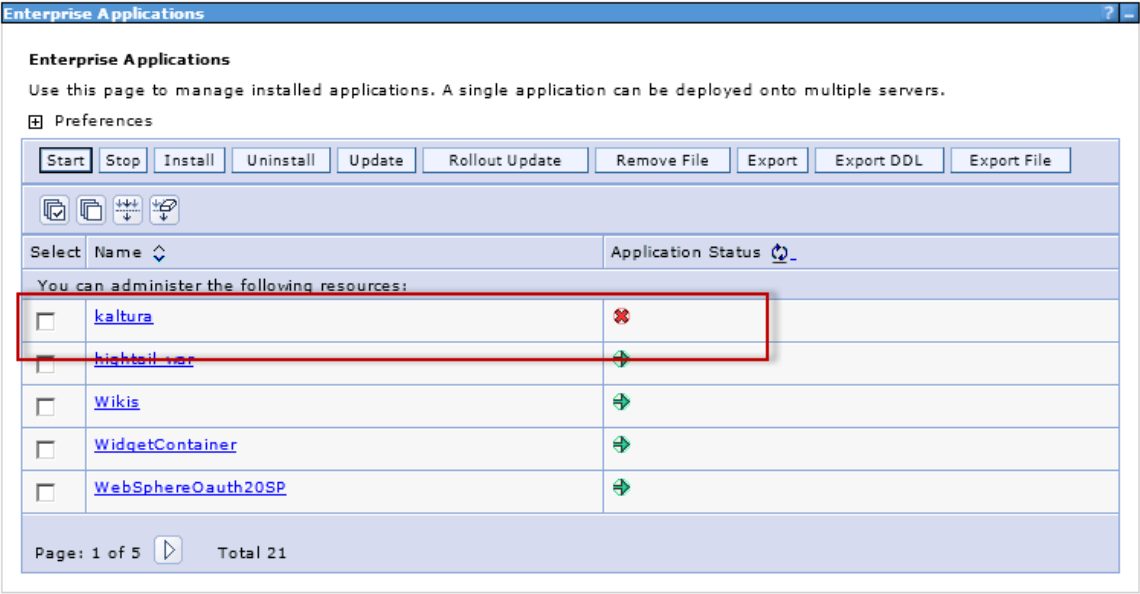
Application kaltura installed successfully.

To start the application, first save changes to the master configuration.

Changes have been made to your local configuration. You can:

- [Save](#) directly to the master configuration.
- [Review](#) changes before saving or discarding.

The Kaltura extension will appear in the list of installed applications. Before you start the application, you will need to [configure the application settings](#).



Configuring the Kaltura Extension for IBM Connections

The Kaltura Video Extension for IBM Connections stores settings in the following two files:

File Name	Path
Settings.xml	<<WebSphere Install Folder>>\AppServer\profiles\<<Server Node>>\kaltura\kaltura.ear\kaltura.war\WEB-INF\classes\org\kalturaconnection\kaltura\settings
Log4j.xml	<<WebSphere Install Folder>>\AppServer\profiles\<<Server Node>>\kaltura\kaltura.ear\kaltura.war\WEB-INF\classes

Modify the settings in the Settings.xml and Log4j.xml files. After you edit the files, the Kaltura Video Extension for IBM Connections can be started from the WebSphere Admin Console.

Settings.xml

```

1  <?xml version="1.0" encoding="UTF-8" ?>
2  <java class="java.beans.XMLDecoder">
3    <object class="org.kalturaconnection.kaltura.settings.Settings">
4      <void property="serviceEndPoint">
5        <string>http://www.kaltura.com</string>
6      </void>
7      <void property="emailId">
8        <string>user@domain</string>
9      </void>
10     <void property="partnerId">
11       <int>1637541</int>
12     </void>
13     <void property="adminSecret">
14       <string>6c4d2a4e27ee7480d0bf04cedef6898a</string>
15     </void>
16     <void property="browseEmbedCallbackURL">
17       <string>https://connect.acme.com/kalturaconnections/browsemediacallback</string>
18     </void>
19   </object>
20 </java>
21

```

To configure the Kaltura Extension for IBM Connections settings.XML file

- Edit the following parameters:
 - serviceEndPoint** –The Kaltura Application Framework launch point. This value is typically: `https://{kaltura.partner.id}.mediaspace.kaltura.com`. You can obtain this value from your Kaltura representative.
 - partnerId** – Your Kaltura Partner ID. The partner ID can be obtained from your KMC, under Settings > Integration Settings. See [To access the account info in the KMC](#).
 - adminSecret** – The admin secret of your Kaltura account. The secret can be obtained

from your KMC, under Settings > Integration Settings. See [To access the account info in the KMC](#).

- **browseEmbedCallbackURL** –This property holds the callback URL that allows Kaltura service to return details for the user selected media file when using the CKEditor integration. The value should be **kalturaconnections/browsemediacallback** assuming the application context during WAR deployment was set to kalturaconnections when the WAR was deployed.

Log4j.xml

The Log4j.xml file holds file location of logs created by the extension. The extension generates two log files to record application work flow and errors:

- kaltura_info.log
- kaltura_error.log.

```

7      <param name="ConversionPattern" value="%d{dd MMM yyyy HH:mm:ss} %5p %c{1} - %m%n"/>
8    </layout>
9  </appender>
10
11  <!--infoAppend Appender for info.log file !-->
12  <appender name="infoAppend" class="org.apache.log4j.RollingFileAppender">
13    <param name="file" value="E:/IBM/WebSphere/AppServer/profiles/AppSrv01/logs/kaltura_info.log"/>
14    <param name="MaxFileSize" value="50MB"/>
15    <!-- Keep five backup files -->
16    <param name="MaxBackupIndex" value="10"/>
17    <layout class="org.apache.log4j.PatternLayout">
18      <param name="ConversionPattern" value="%d{ABSOLUTE} %p %t %c - %m%n"/>
19    </layout>
20  </appender>
21
22  <!--errorAppend Appender for error.log file !-->
23  <appender name="errorAppend" class="org.apache.log4j.RollingFileAppender">
24    <param name="file" value="E:/IBM/WebSphere/AppServer/profiles/AppSrv01/logs/kaltura_error.log"/>
25    <param name="MaxFileSize" value="50MB"/>
26    <!-- Keep one backup file -->
27    <param name="MaxBackupIndex" value="10"/>

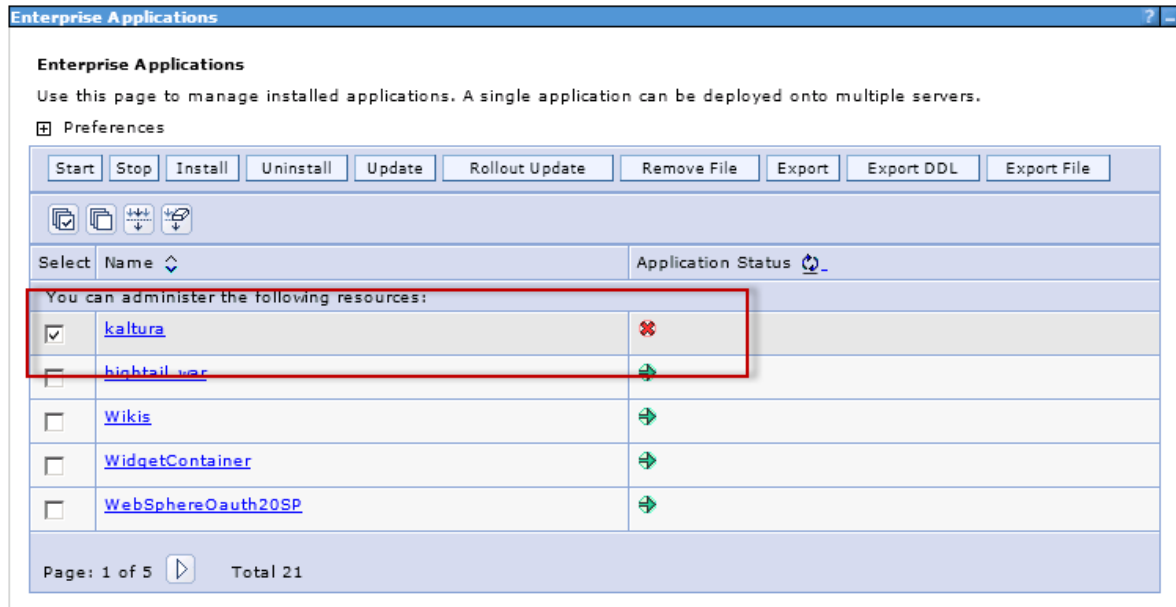
```

To configure the Kaltura Extension for IBM Connections Log4j.XML file

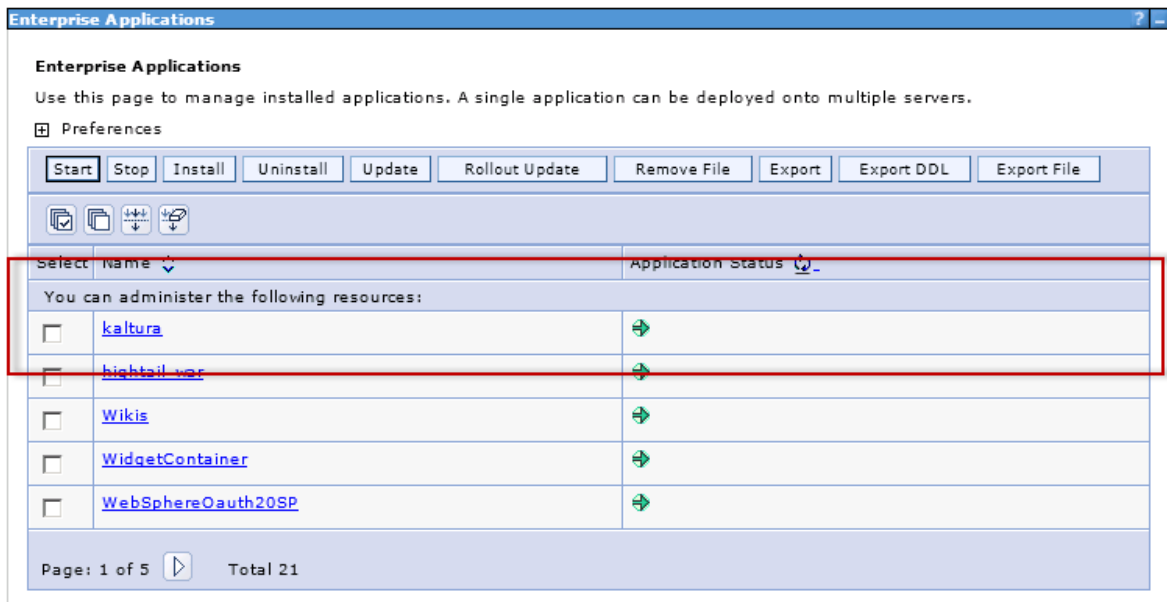
- Edit the XML file paths to point to the WebSphere logs folder.

To start the Kaltura Extension for IBM Connections:

In the Enterprise Applications window, select Kaltura and click Start.



The Application Status turns green.

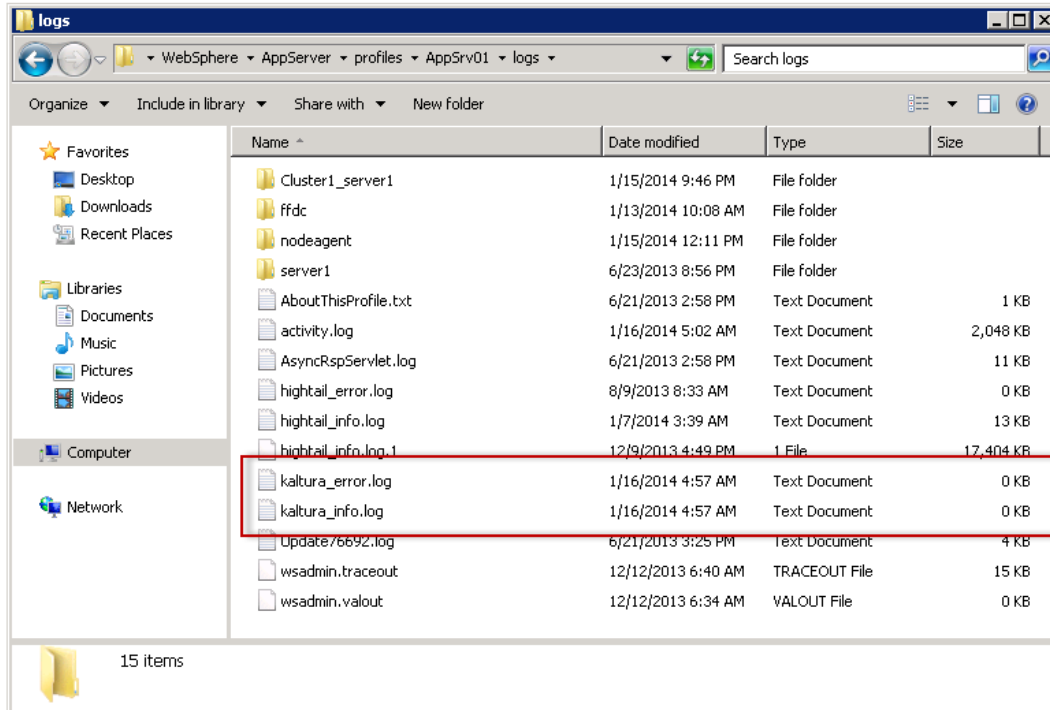


Accessing Log Files

After the Kaltura Video Extension for IBM Connections was successfully deployed and started, two log files are created:

- kaltura_info.log
- kaltura_error.log

These log files allow application developers and system administrators to troubleshoot any issues specific to the application workflow. These files are created under << WebSphere Install Folder>> \AppServer\profiles\<<Server Node>>\logs and are configured to roll over when reaching 500MB.

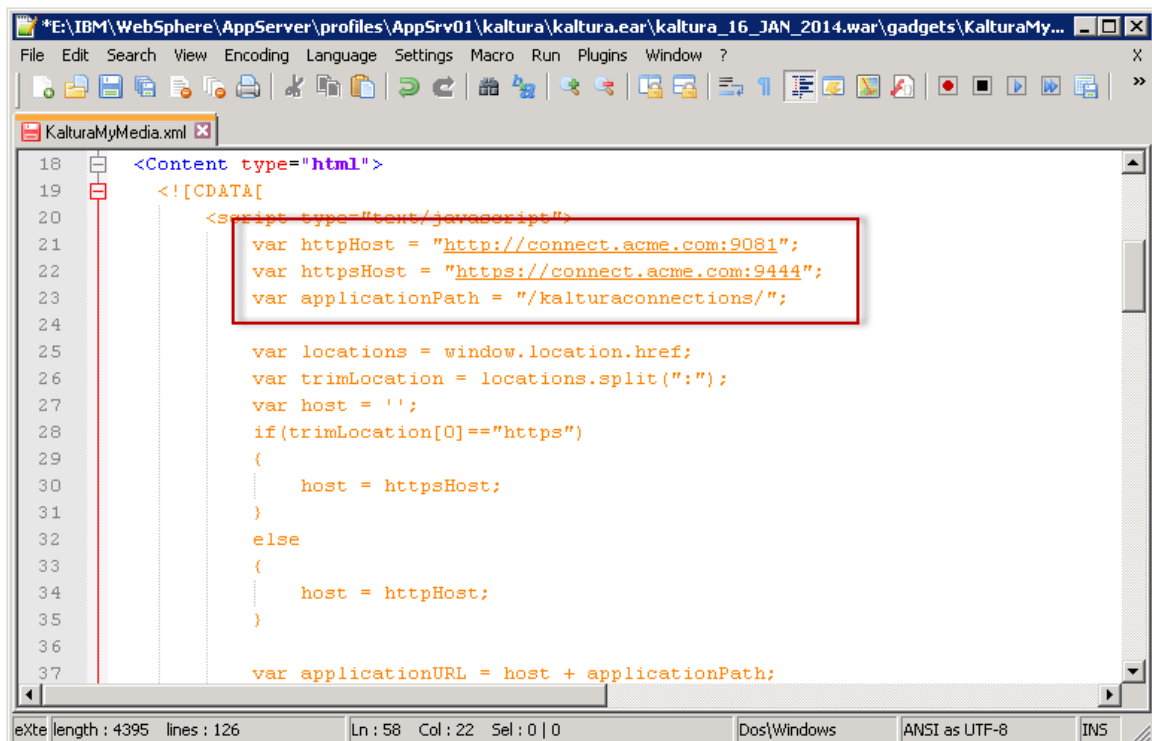


Configuring and Deploying Gadgets

This section describes how to configure the gadgets after the Kaltura Extension for IBM Connections has been deployed.

To configure and deploy the My Media Gadget

1. Open the file **KalturaMyMedia.xml** that is located in: << WebSphere Install Folder>> \AppServer\profiles\<<Server Node>>\kaltura\kaltura.ear\kaltura.war\gadgets

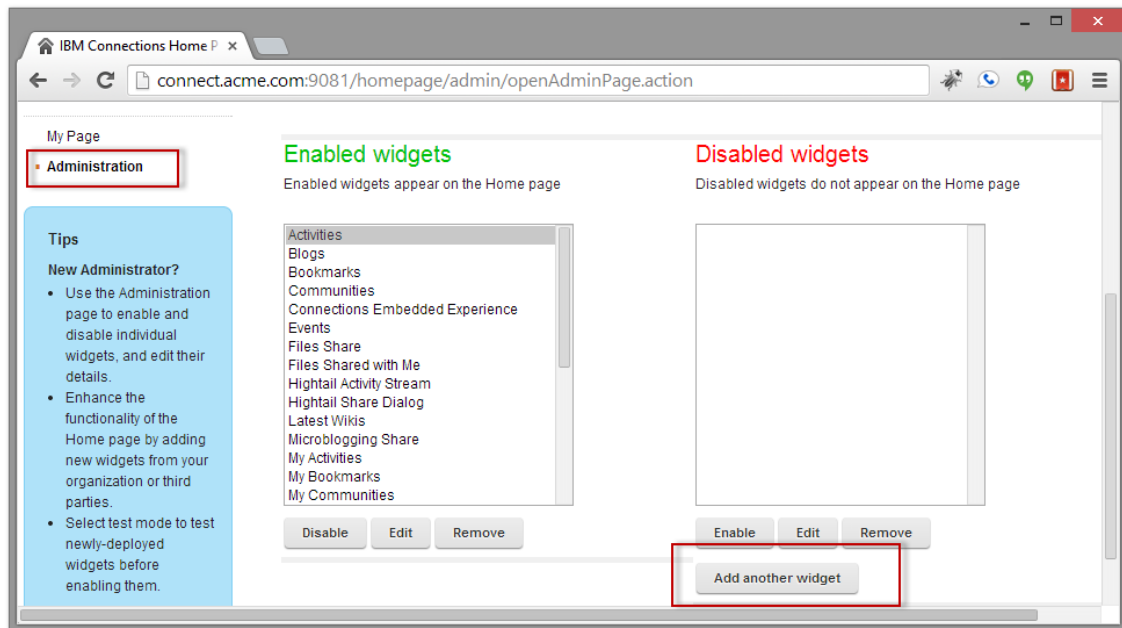


```

18 <Content type="html">
19 <![CDATA[
20 <script type="text/javascript">
21     var httpHost = "http://connect.acme.com:9081";
22     var httpsHost = "https://connect.acme.com:9444";
23     var applicationPath = "/kalturaconnections/";
24
25     var locations = window.location.href;
26     var trimLocation = locations.split(":");
27     var host = '';
28     if(trimLocation[0]=="https")
29     {
30         host = httpsHost;
31     }
32     else
33     {
34         host = httpHost;
35     }
36
37     var applicationURL = host + applicationPath;

```

2. Update the **httpHost** and **httpsHost** values with your IBM Connections server host URL along with the relevant port numbers.
3. The **applicationPath** should point to the application context root defined in the [WAR file installation](#).
4. Login to IBM Connections using an account that has Administrator privileges.
5. Navigate to the **Administration** section and click **Add another widget**.



6. Select the **Widget Type** as **Open Social Gadget**

Widget Type:

☐ iWidget
☒ Open Social Gadget

7. Specify the Gadget Title as **Kaltura My Media**.
8. Specify the URL Address as: **Error! Hyperlink reference not valid.**
9. Specify the Icon URL as: **Error! Hyperlink reference not valid.**
10. Similarly, specify the Secure URLs to the gadget and icon as seen in the following screenshot.
11. Select the checkboxes **Display on the Widgets Page**
12. Under Prerequisites, select the **opensocial** checkbox.

* Widget Title:
 Enter a widget name. For example, Blogs.

Description:
 Enter a widget description. For example, Latest Blogs entries and comments.

* URL Address:
 Enter the widget location. This can be an absolute or relative Web address. For example, http://myserver.com/mywidget.xml.

Secure URL Address:
 Enter the widget location. This can be an absolute or relative secure Web address. For example, https://myserver.com/mywidget.xml.

Icon URL:
 Enter the location of an icon to display for the docked widget. The image should be 16 x 16 pixels in size (favicons are acceptable).

Icon Secure URL:
 Enter the location of an icon to display for the docked widget. The image should be 16 x 16 pixels in size (favicons are acceptable).

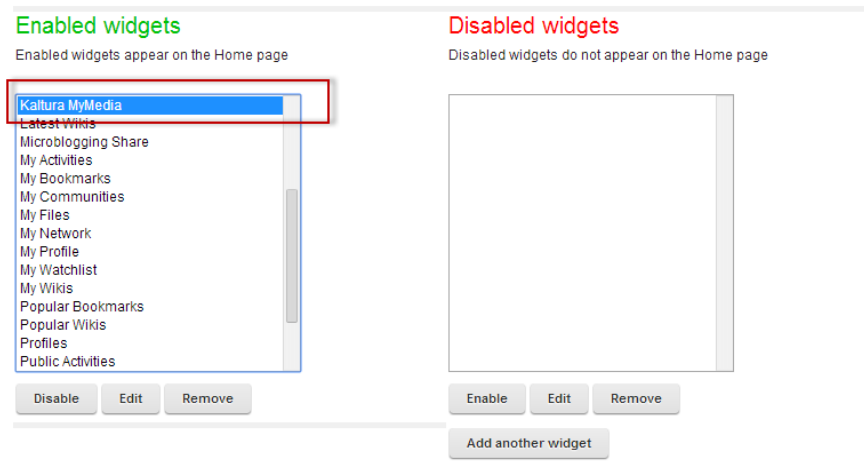
Use IBM Connections specific tags: ☐

Display on the Widgets page: ☒

13. Click **Save** to deploy the widget.

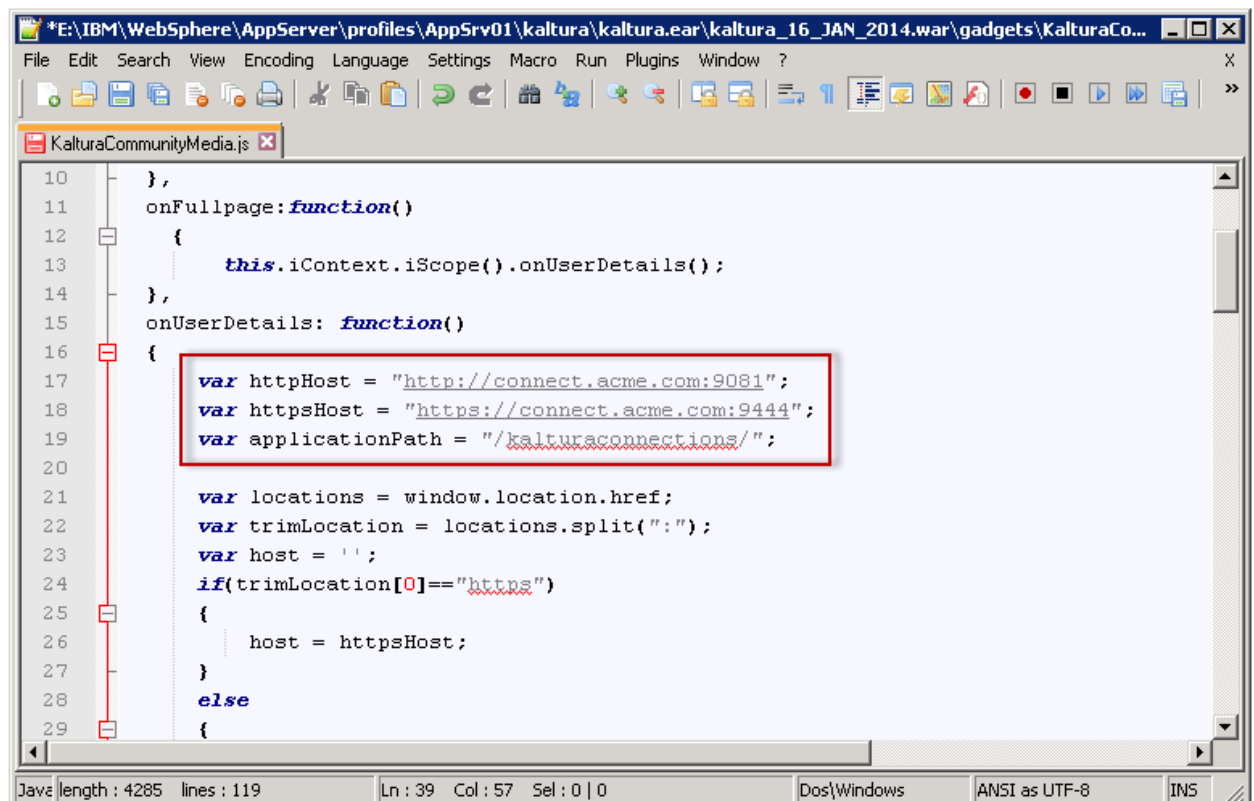
The widget will appear under the **Disabled widgets** list.

14. Select the list entry and click on **Enable** to enable the widget.
15. After the widget is enabled it will appear in the **Enabled widgets** list and will be available for all users.



To configure the Community Media Gallery Gadget

1. Open the file `KalturaCommunityMedia.js` that is located in: `<< WebSphere Install Folder>> \AppServer\profiles\<<Server Node>>\kaltura\kaltura.ear\kaltura.war\gadgets`



2. Update the **httpHost** and **httpsHost** values with your IBM Connections server host URL along with the relevant port numbers.
3. The **applicationPath** should point to the application context root defined during the [WAR file installation](#).
4. Log into the IBM Connections server to deploy the Community Media Gallery gadget.
5. Start a command prompt with administrative privileges.

6. Navigate to <WebSphere Install Folder>\AppServer\profiles\dmgr01\bin
7. Run the following command: `wsadmin -lang jython -user <admin_username> -password <admin_password> -port 8879`

```
Administrator: Command Prompt - wsadmin -lang jython -user wasadmin -password w45admin -port...
Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

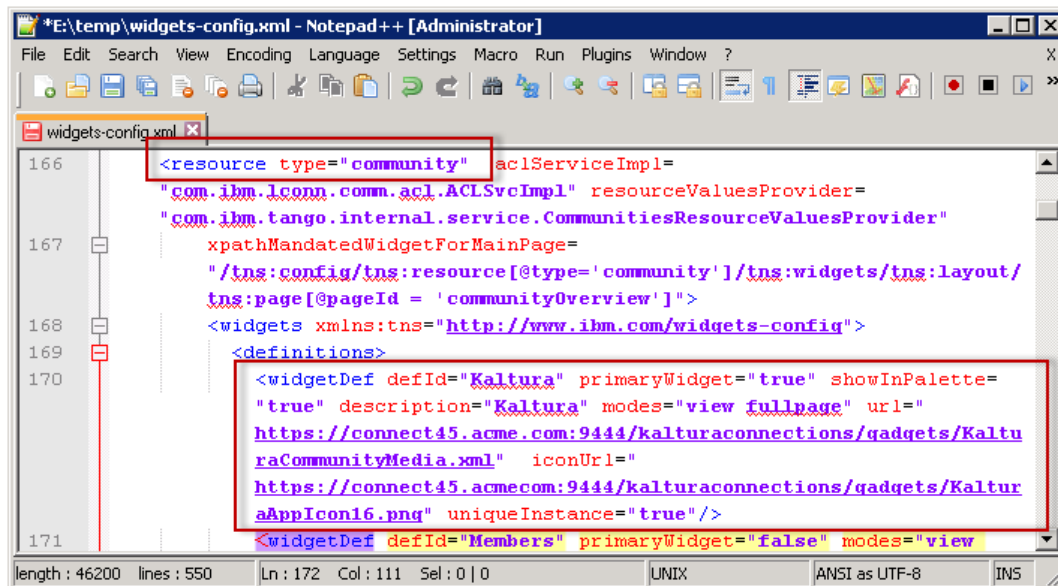
C:\Users\Administrator>e:
E:\>cd IBM
E:\IBM>cd WebSphere
E:\IBM\WebSphere>cd AppServer
E:\IBM\WebSphere\AppServer>cd profiles
E:\IBM\WebSphere\AppServer\profiles>cd Dmgr01
E:\IBM\WebSphere\AppServer\profiles\Dmgr01>cd bin
E:\IBM\WebSphere\AppServer\profiles\Dmgr01\bin>wsadmin -lang jython -user wasadmin -password w45admin -port 8879
WASX7209I: Connected to process "dmgr" on node connect4CellManager01 using SOAP connector; The type of process is: DeploymentManager
WASX7031I: For help, enter: "print Help.help()"
wsadmin>_
```

8. Run the following command: `execfile("communitiesAdmin.py")`
9. Run the following command: `CommunitiesConfigService.checkOutWidgetsConfig("Any Temporary Folder Path", "<Cell Node Name>")`

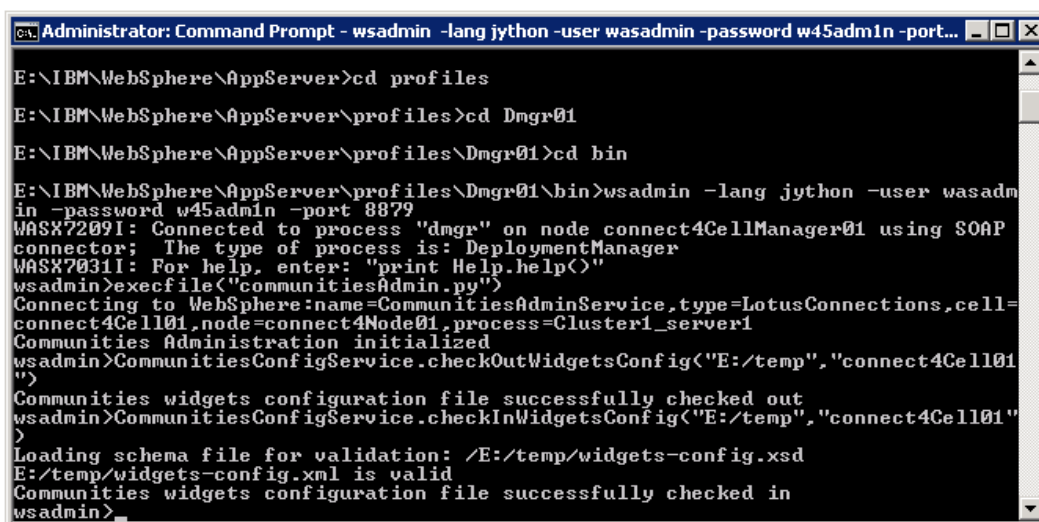
```
Administrator: Command Prompt - wsadmin -lang jython -user wasadmin -password w45admin -port...
E:\>cd IBM
E:\IBM>cd WebSphere
E:\IBM\WebSphere>cd AppServer
E:\IBM\WebSphere\AppServer>cd profiles
E:\IBM\WebSphere\AppServer\profiles>cd Dmgr01
E:\IBM\WebSphere\AppServer\profiles\Dmgr01>cd bin
E:\IBM\WebSphere\AppServer\profiles\Dmgr01\bin>wsadmin -lang jython -user wasadmin -password w45admin -port 8879
WASX7209I: Connected to process "dmgr" on node connect4CellManager01 using SOAP connector; The type of process is: DeploymentManager
WASX7031I: For help, enter: "print Help.help()"
wsadmin>execfile("communitiesAdmin.py")
Connecting to WebSphere:name=CommunitiesAdminService,type=LotusConnections,cell=connect4Cell01,node=connect4Node01,process=Cluster1_server1
Communities Administration initialized
wsadmin>CommunitiesConfigService.checkOutWidgetsConfig("E:/temp","connect4Cell01")
Communities widgets configuration file successfully checked out
wsadmin>_
```

10. Go to the specified folder path. It should have a file named **widgets-config.xml**
11. Open the widgets-config.xml file using a text editor.
12. Under community resource, add the following tag:

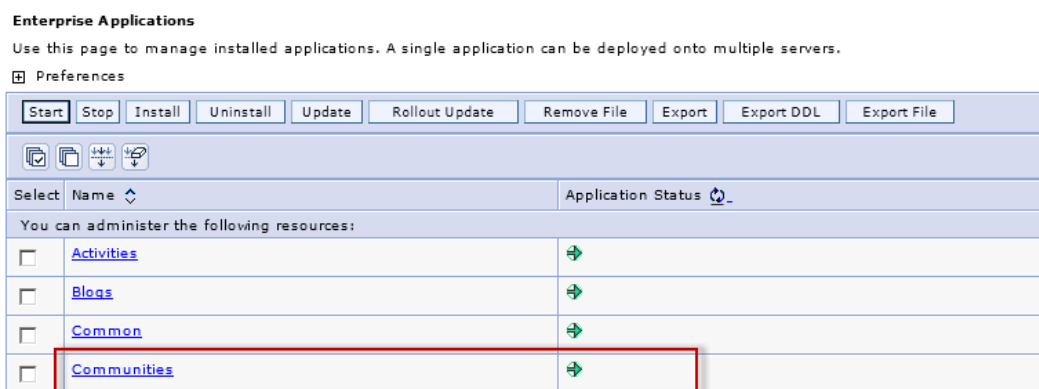
```
<widgetDef defId="Kaltura" primaryWidget="true" showInPalette="true"
  description="Kaltura" modes="view fullpage"
  url="https://<server>:<port>/kalturaconnections/gadgets/KalturaCommunityMedia.xml"
  iconUrl="https://<server>:<port>/kalturaconnections/gadgets/KalturaAppIcon16.png" uniqueInstance="true"/>
```



13. After saving the changes to the widgets-config.xml, run the following command:
 CommunitiesConfigService.checkInWidgetsConfig("Any Temporary Folder Path", "<Cell Node Name>")



14. Close the command prompt.
 15. Log into the WebSphere Web Console and restart the Communities module.

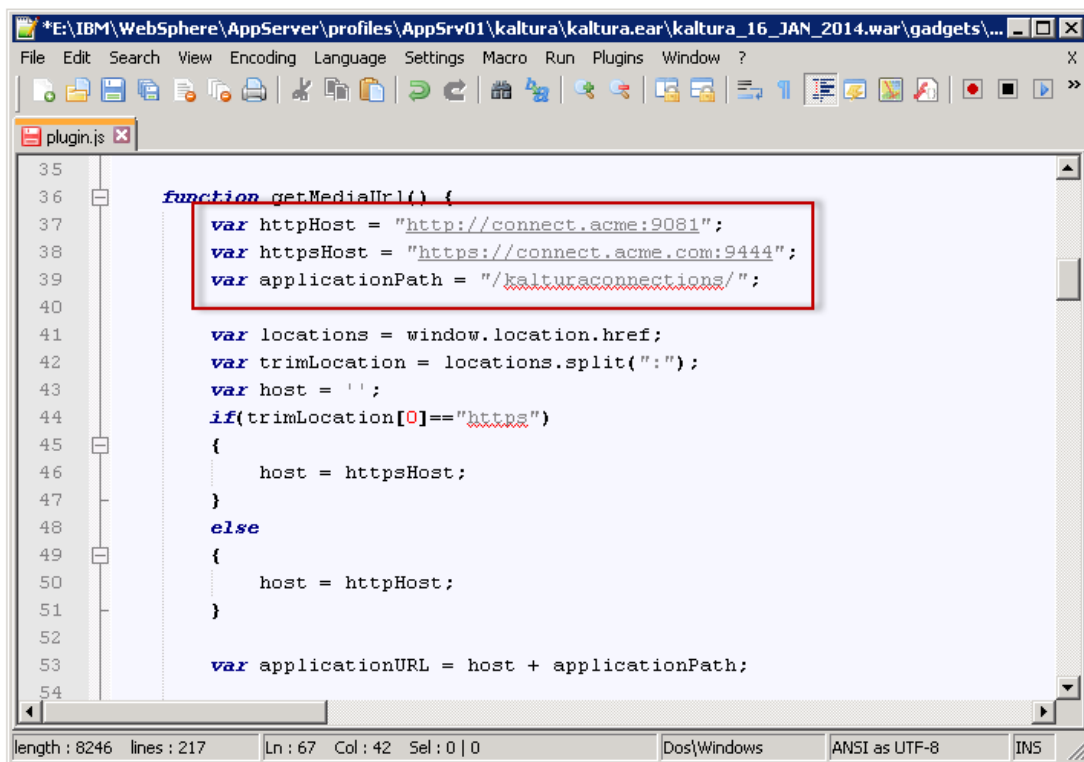


Configuring the CKEditor Extension

This section describes how to configure the CKEditor extension after the Kaltura Extension for IBM Connections has been deployed.

To configure the CKEditor Extension

1. Open the plugin.js that is located in << WebSphere Install Folder >> \AppServer\profiles\<<Server Node>>\kaltura\kaltura.ear\kaltura.war\gadgets\ckeditor\plugin\mediaembed

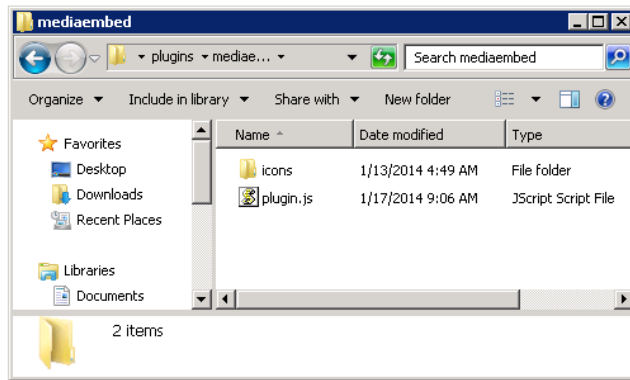


```

35
36  function getMediaUrl() {
37      var httpHost = "http://connect.acme:9081";
38      var httpsHost = "https://connect.acme.com:9444";
39      var applicationPath = "/kalturaconnections/";
40
41      var locations = window.location.href;
42      var trimLocation = locations.split(":");
43      var host = '';
44      if(trimLocation[0]=="https")
45      {
46          host = httpsHost;
47      }
48      else
49      {
50          host = httpHost;
51      }
52
53      var applicationURL = host + applicationPath;
54

```

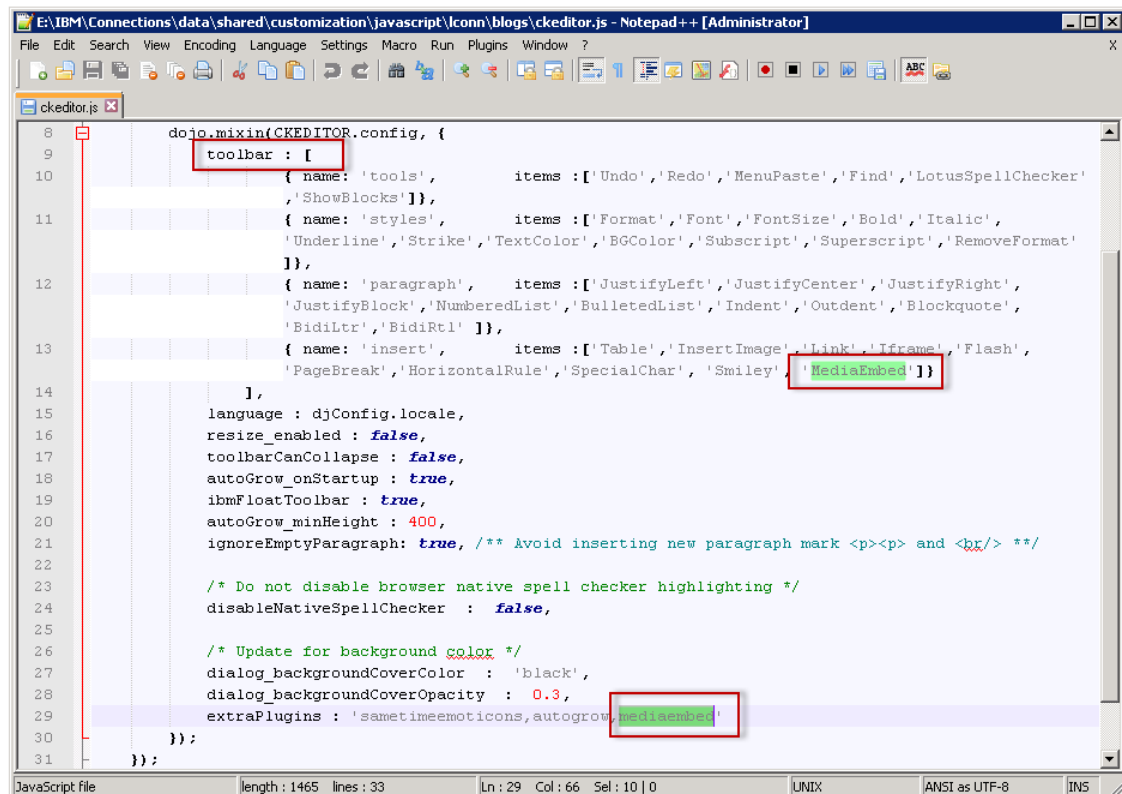
2. Update the **httpHost** and **httpsHost** values with your IBM Connections server host URL along with the relevant port numbers.
3. The **applicationPath** should point to the application context root defined during the [WAR file installation](#).
4. To deploy the CKEditor extension, go to the folder <Connections install folder>\data\shared\customization\javascript
5. In the **javascript** folder create a new folder with the following hierarchy:
com\ibm\oneui\ckeditor\editor\plugins\mediaembed
6. Copy to the newly created folder the files from the following path: <<WebSphere Install Folder>>\AppServer\profiles\<<Server Node>>\kaltura\kaltura.ear\kaltura.war\gadgets\ckeditor\plugin\mediaembed



You now need to [enable the new CKEditor](#) extension for the various IBM Connection modules such as: [Blogs](#), [Wikis](#) and [Forums](#).

To enable the CKEditor Extension for blogs:

1. Go to the folder: <Connections install folder>\data\shared\customization\javascript
2. In the **javascript** folder, create a folder with the following hierarchy: **lconn\blogs**
3. In the created folder, copy **ckeditor.js** from the **resources** folder in <Connections Install Folder>\data\shared\provision\webresources\com.ibm.lconn.blogs.web.resources_X.X.X.XXX XXXXX-XXXX.jar
4. Edit **ckeditor.js** and add references to the Kaltura extension.



To enable the CKEditor Extension for wikis:

1. Go to the folder: <Connections install folder>\data\shared\customization\javascript
2. In the **javascript** folder, create a folder with the following hierarchy: **lconn\wikis\scenes**
3. In the **lconn\wikis** folder, copy **ckeditor.js** from the **resources** folder in <Connections Install Folder>\data\shared\provision\webresources\com.ibm.lconn.wikis.web.resources_X.X.X.XXXX

XXXX-XXXX.jar

4. Edit **ckeditor.js** and add references to the Kaltura extension.

```

13
14  dojo.mixin(CKEDITOR.config, {
15    toolbar_Wiki:
16      [
17        {name: 'tools', items: ['Undo', 'Redo', 'MenuPaste', 'Find', 'LotusSpellChecker',
18          'ShowBlocks']},
19        {name: 'styles', items: ['Format', 'Font', 'FontSize', 'Bold', 'Italic', 'Underline',
20          'Strike', 'TextColor', 'BGColor', 'Subscript', 'Superscript', 'RemoveFormat']},
21        {name: 'paragraph', items: ['JustifyLeft', 'JustifyCenter', 'JustifyRight', 'JustifyBlock',
22          'NumberedList', 'BulletedList', 'Indent', 'Outdent', 'Blockquote', 'BidiLtr', 'BidiRtl']},
23        {name: 'insert', items: ['Table', 'WikiImage', 'MenuLink', 'QuickLink', 'WikiMacros',
24          'Anchor', 'Iframe', 'Flash', 'PageBreak', 'HorizontalRule', 'SpecialChar', 'Smiley',
25          'MediaEmbed']}
26      ]
27  }
28

```

5. In the folder **lconn\wikis\scenes**, copy **ckeditor.js** from **resources\scenes** folder in <Connections Install Folder>\data\shared\provision\webresources\com.ibm.lconn.wikis.web.resources_X.X.X.XXXX XXXX-XXXX.jar
6. Edit the **ckeditor.js** file and add references to the Kaltura extension.

```

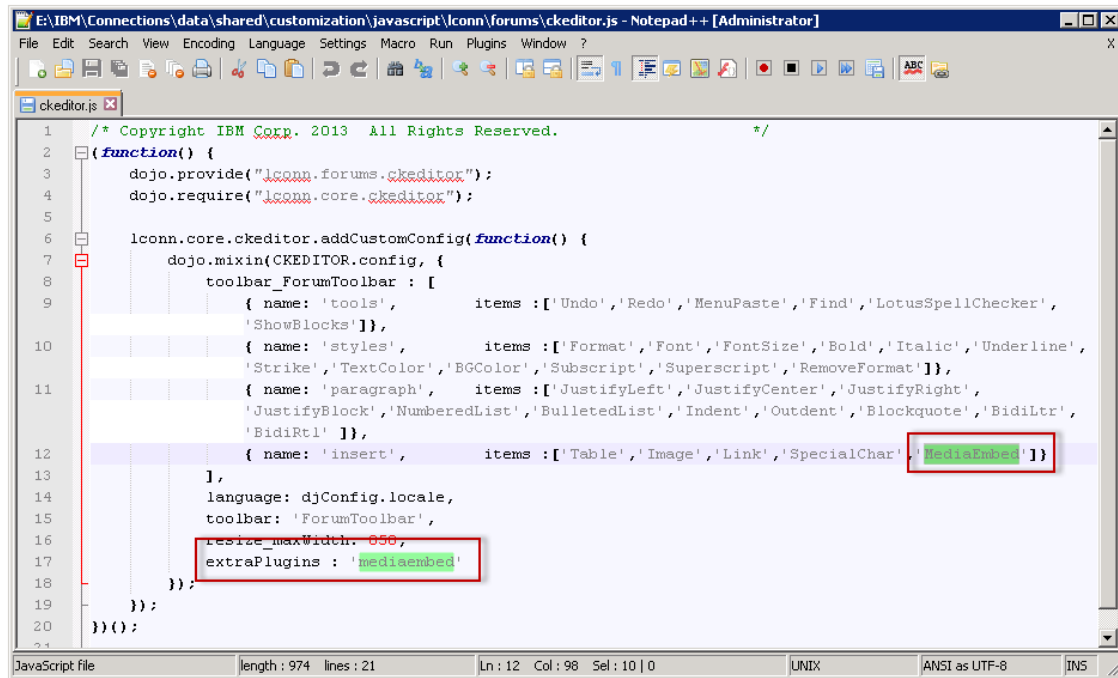
118
119  var ckdata = this.unwrap(opt.html);
120
121  this.editorInstance = CKEDITOR.appendTo(this.editorLocation, {
122    width: '100%',
123    height: height,
124    extraPlugins: dojo.getObject("lconn.share0.config.displayMacrosGUI") ?
125      'wikilinking,quicklink,wikimacros,autogrow,mediaembed' :
126      'wikilinking,quicklink,autogrow,mediaembed',
127    flashUploadTab: false,
128    flashBrowseServer: false,
129    entities: false,
130    actions: actions,
131    menus: menus,
132

```

To enable the CKEditor Extension for forums

1. Go to the folder: <Connections install folder>\data\shared\customization\javascript
2. In the **javascript** folder, create a folder with the following hierarchy: **lconn\forums**
3. In the created folder, copy **ckeditor.js** from **resources** folder in <Connections Install Folder>\data\shared\provision\webresources\com.ibm.lconn.forums.web.resources_X.X.X.XXXXXX-XXXX.jar
4. Edit **ckeditor.js** and add references to the Kaltura extension.

Configuring the CKEditor Extension



```
1  /* Copyright IBM Corp. 2013 All Rights Reserved.          */
2  (function() {
3      dojo.provide("lconn.forums.ckeditor");
4      dojo.require("lconn.core.ckeditor");
5
6      lconn.core.ckeditor.addCustomConfig(function() {
7          dojo.mixin(CKEDITOR.config, {
8              toolbar_ForumToolbar : [
9                  { name: 'tools', items : ['Undo', 'Redo', 'MenuPaste', 'Find', 'LotusSpellChecker',
10                     'ShowBlocks']},
11                  { name: 'styles', items : ['Format', 'Font', 'FontSize', 'Bold', 'Italic', 'Underline',
12                     'Strike', 'TextColor', 'BGColor', 'Subscript', 'Superscript', 'RemoveFormat']},
13                  { name: 'paragraph', items : ['JustifyLeft', 'JustifyCenter', 'JustifyRight',
14                     'JustifyBlock', 'NumberedList', 'BulletedList', 'Indent', 'Outdent', 'Blockquote', 'BidiLtr',
15                     'BidiRtl']},
16                  { name: 'insert', items : ['Table', 'Image', 'Link', 'SpecialChar', 'MediaEmbed']}
17              ],
18              language: djConfig.locale,
19              toolbar: 'ForumToolbar',
20              resize_maxWidth: 650,
21              extraPlugins : 'mediaembed'
22          });
23      })();
24  }
```



NOTE: After modifying the CKEditor files, the IBM Connections server should be rebooted so that new extensions are loaded.