rSmart CLE

Google Docs Integration

Configuration Guide

Version 2.8

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Duffy Gillman <duffy@rsmart.com>

Enable Google Docs Integration in CLE

1. Open $TOMCAT_HOME/sakai/local.properties in your favorite editor

2. Enable or create the following property:

    google-content.enabled=true

3. [optional] If you wish to load a Google OAuth Provider from the google-content component definition file ($TOMCAT_HOME/components/google-content-pack/WEB-INF/components.xml) enable or create the following property:

    google-content.loadOAuthProvider=true

Register the CLE with Google

1. You will need to have a user account with Google. If you do not already have a Google account you can obtain one here:

    https://www.google.com/accounts/NewAccount

2. Visit the Google domain management page:

    https://www.google.com/accounts/ManageDomains

3. Enter the domain name for your CLE instance into the “Add a New Domain” field. For our example we will use the domain name “mydomain.edu”. Next click “Add Domain”.

4. Under “Manage registration” follow the link labeled “Manage mydomain.edu”

5. Follow the instructions to verify ownership. Google gives four options for verification. The first few options involve storing a special code generated by Google in a location to which only the domain administrator would have access. The last option involves linking to an existing Google Analytics account.

6. Once your domain is verified, return to the “Manage mydomain.edu” page.

7. In the field labeled “Target URL path prefix” enter the CLE endpoint for processing OAuth tokens. For mydomain.edu this will be “http://mydomain.edu/google-content-tool/oauth”

8. Click “Save”.

9. Copy the values labeled “OAuth Consumer Key” and “OAuth Consumer Secret”. These will be the credentials which your CLE instance will use to authenticate with the Google Docs service.

Create or Enable the Google OAuth Provider in CLE

1. Login to your CLE instance as an admin user.

2. Visit the “OAuth Administration” tool within the Administrator Workspace.

3. If a provider is listed with the name “google” select the checkbox to the left of that provider entry and click “Edit”. Otherwise click “Add” to create a new provider entry.

4. Ensure that the provider entry is configured with the following values:

Field	Value
Provider’s Name	Google Docs
Consumer Key	[enter the value you copied from “OAuth Consumer Key” in step 9 of Register the CLE with Google above]
HMAC-SHA1 Shared Secret	[enter the value you copied from “OAuth Consumer Secret” in step 9 of Register the CLE with Google above]

5. Ensure the radio button beside “HMCA-SHA1 Shared Secret” is selected.

6. Add an entry (or modify an existing entry) under “Additional Parameters” with the name “scope” and the value “https://docs.google.com/feeds/ https://spreadsheets.google.com/feeds/ https://docs.googleusercontent.com/”

7. Click “Submit”

Upgrade to RSA-SHA1 Signatures

1. Generate a 1024-bit RSA private key and certificate pair using the following command:

```
openssl req -x509 -nodes -days 365 -newkey rsa:1024 -sha1 \
-subj '/C=US/ST=AZ/L=Phoenix/CN=mydomain.edu' \
-keyout mydomain-key.pem -out mydomain-cert.pem
```

Replace the values after -subj with appropriate values for your country, state, locale, and common name (domain name). Rename the -keyout and -out parameters to match your CLE domain name.

2. Convert the RSA private key from PEM format to PKCS8 format using the following command:

```
openssl pkcs8 -in mydomain-key.pem -topk8 -nocrypt -out mydomain-key.pk8
```

3. In your browser log into the Google Manage Domains page and click “Manage mydomain.edu”.

4. Beside the label “Upload new X.509 cert” click “Choose File” and select the mydomain-cert.pem file

5. Click “Save”. Above the “Upload new X.509 cert” label you should now see “We have a certificate for your domain”.

6. In your browser log in as the administrator of your CLE instance and navigate to the OAuth Administration tool within the Administrator Workspace.

7. Copy the content of the file mydomain-key.pk8 into the text area labeled “RSA-SHA1 Key” and make sure the appropriate radio button is selected.

8. Click “Submit”.