As you know, we utilize the LGPLv3 license to publish the Alfresco Community. In this blog article, I will explain the basics of this license: why Free Software Foundation created it; a bit of its history; how it applies in the real world for developers, integrators, and application builders; and best practices for legal compliance of your projects.

A bit of history and context

The Free Software Foundation (FSF) published the LGPL in 1991 as version number 2, to go with the GPLv2 license. At the origin it was called Library General Public License. Its purpose was to give more freedom for integration and redistribution than the GPL, particularly with shared libraries used as dependencies of larger applications. This is a compromise between the strong GPL license, and the permissive licenses like the BSD license and the MIT license. It was not so good to distribute LGPL with GPL, so we wrote the LGPLv3.
TLDR: THE LGPL LICENSE EXPLAINED

- LGPL allows to embed software into other softwares as a dependency, including proprietary software.

- Perfect for integration into a comprehensive information system.

- If you modify/improve, you must share your code in LGPL too.

- Mandatory to share sources if you share/distribute.
Angelborroy's Profile | Docker

Displaying 1 to 16 repositories

- angelborroy/alfresco-extension 1.5K 0
  By angelborroy Updated 15 days ago

- angelborroy/alfresco-installer 143 0
  By angelborroy Updated 20 days ago

- angelborroy/alfresco-share 26 0
  By angelborroy Updated 22 days ago
RESOURCES

- GitHub
  - https://github.com/aborroy/alfresco-installer
  - https://github.com/AlfrescoLabs/alfresco-docker-extension

- Docker
  - https://hub.docker.com/u/angelborroy

- LGPL license
TTL SPEAKERS WANTED!

Topics
- Showcase of your best work
- Tips and tricks
- Discussions on best practices
- About Alfresco, Nuxeo, and associated technologies

Benefits for Speakers
- Visibility in the ecosystem
- Goodies
- And other advantages
Online Editing Tools for Alfresco

- Angel Borroy
  - Technical Evangelist at Hyland
Alfresco TTL #144

QUESTION & ANSWERS
Collaborative Editing Tools for Alfresco

ENHANCING COLLABORATION EXPERIENCE WITH ALFRESCO

Angel Borroy
Developer Evangelist

February 15, 2023
AGENDA

Alfresco
- SharePoint Protocol (AOS)
- Google Drive
- Microsoft 365

Community
- ONLYOFFICE
- Collabora Online
## Editing Tools for Alfresco

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<th>Tool</th>
<th>Maintainer</th>
<th>Share</th>
<th>ADF</th>
<th>Collaboration</th>
<th>On Premise</th>
<th>Community</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOS</td>
<td><img src="image" alt="AOS Logo" /></td>
<td><img src="image" alt="Check" /></td>
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<tr>
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<tr>
<td>Microsoft 365</td>
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<td><img src="image" alt="Check" /></td>
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<tr>
<td>ONLYOFFICE</td>
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</tr>
<tr>
<td>Collabora Online</td>
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</tr>
</tbody>
</table>
AOS
SHAREPOINT PROTOCOL
SERVICE CONTRACT

Portion

The SERVICE CONTRACT is void if work is done by parties other than the names and addresses as they appear in the signed agreement. Any work done by any other party shall be done at the cost of the party responsible for such work.

Services

The Service Agency agrees to perform work in accordance with the Service Agreement and shall be responsible for:

- Project management
- Technical support
- System integration
- End-user training
- Documentation

Terms and Conditions

- Payment terms: 50% upon contract execution, 50% upon completion of work.
- Warranty: 90 days from completion of work, subject to inspection by the Customer.
- Cancellation: Cancellation is subject to a 25% cancellation fee.
- Termination: The contract may be terminated by either party upon 30 days written notice.

Trusted Certificate

- Add manually self-signed certificate to local keystore
- Use an out-of-the-box trusted certificate
ALFRESCO OFFICE SERVICES

AOS SharePoint Protocol

- **Documentation**
- **Source Code** (customer credentials)
- Available for Share and ACA / ADW
- Available for Community and Enterprise

**Share**

- Edit in Microsoft Office™
- Edit Offline
- Upload New Version
- View In Browser
- Unlock document
- Move to...

**Alfresco Content Application**

- Edit in Microsoft Office™
- Edit Offline
- Upload New Version

Single user
Installation

- Repository
  - Deploy alfresco-aos-module.amp in Alfresco Repository
  - Deploy _vti_bin.war in Apache Tomcat
  - Provided by default in Repository Docker Images

- Share
  - Action provided by default in out-of-the-box application

- ACA / ADW
  - Action provided by default in out-of-the-box application
  - It can be disabled using building property APP_CONFIG_PLUGIN_AOS=false
ALFRESCO OFFICE SERVICES

Demo environment

- **Source Code**
- Docker Compose template
- AWS deployment (TLS)
  - EC2 Instance for Docker Compose
    - certbot used to get Let’s Encrypt certificate
  - Security Group
    - Opening ports 22, 80, 443
  - Route 53
    - Declaring public DNS ttl.dev.alfresco.me
DEMO TIME!
GOOGLE DRIVE
Google Drive

- **Documentation**
- **Source Code** (public)
- Available for Share
- Available for Community and Enterprise

Share

- Delete Document
- **Edit in Google Docs™**
- Start Workflow
- Check In Google Doc™
- Resume Editing in Google Docs™
- Cancel Editing in Google Docs™

“Multiple users” (external)
Installation

- Repository
  - Deploy alfresco-googledrive-repo-community-3.3.1.amp in Alfresco Repository
  - Add googledocs.enabled=true environment setting
  - It was provided by default in Repository Docker Images (till 7.2)

- Share
  - Deploy alfresco-googledrive-share-3.3.1.amp in Share

- ACA / ADW
  - Not supported
Demo environment

- **Source Code**
- Docker Compose template
- Local plain HTTP configuration
DEMO TIME!
MICROSOFT 365

New window (tab)

Azure AD Authentication

Public DNS
TLS with Trusted Certificate
Microsoft 365

- **Documentation**
- **Source Code** (customer credentials)
- Available for ADW
- Available for Enterprise

**Alfresco Digital Workspace**

- Edit in Microsoft Office™
- **Edit in Word Online**
- Edit Offline

Multiple users
Installation (1)

• OOI Service
  • Deploy Spring Boot App alfresco-ooi-service:1.1.3
    • alfresco.base-url=http://alfresco:8080
    • alfresco.deployment.enabled=true
    • alfresco.deployment.timeout=200000
    • alfresco.admin.username=admin
    • alfresco.admin.password=admin

• ADW
  • Apply configuration
    • APP_CONFIG_PLUGIN_MICROSOFT_ONLINE: 'true'
    • APP_CONFIG_MICROSOFT_ONLINE_OOI_URL: https://ttl.dev.alfresco.me/ooi-service/api/-default-/private/office-integration/versions/1/edit-sessions/
    • APP_CONFIG_MICROSOFT_ONLINE_CLIENTID: <client-id-guid-from-azure-app-registration>
    • APP_CONFIG_MICROSOFT_ONLINE_AUTHORITY: https://login.microsoftonline.com/<tenant-id-guid-from-azure-app-registration>
    • APP_CONFIG_MICROSOFT_ONLINE_REDIRECT: https://ttl.dev.alfresco.me
MICROSOFT 365

Installation (2)

- Azure AD

---

**Alfresco-Sample-Test**

- Display name: Alfresco-Sample-Test
- Client credentials: Add a certificate or secret
- Redirect URIs: 0 web 1 spa 2 public client
- Application ID URI: Add an Application O Auth
- Managed application in Azure AD: Alfresco-Sample-Test
- Directory (tenant) ID: 43e760a7-96a9-401c-a7d8-b0e9d7d78da9
- Managed application in Azure AD: My.organization.

**Configured permissions**

Applications are authorized to call APIs when they are granted permissions by users/admins as part of the consent process. The list of configured permissions should include all the permissions the application needs. Learn more about permissions and consent.

<table>
<thead>
<tr>
<th>API / Permissions name</th>
<th>Type</th>
<th>Description</th>
<th>Admin consent required</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft Graph (2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Files.ReadWrite.All</td>
<td>Delegated</td>
<td>Have full access to all files user can access</td>
<td>No</td>
<td>Granted for MSFT</td>
</tr>
<tr>
<td>User.Read</td>
<td>Delegated</td>
<td>Sign in and read user profile</td>
<td>No</td>
<td>Granted for MSFT</td>
</tr>
</tbody>
</table>
Demo environment

- **Source Code**
- Docker Compose template
- AWS deployment (TLS)
  - EC2 Instance for Docker Compose
    - certbot used to get Let’s Encrypt certificate
  - Security Group
    - Opening ports 22, 80, 443
  - Route 53
    - Declaring public DNS ttl.dev.alfresco.me
- Microsoft Azure Tenant
  - Azure Active Directory
DEMO TIME!
ONLYOFFICE
Uses a **custom protocol** that updates Alfresco Document after **10 seconds** of inactivity in ONLYOFFICE
ONLYOFFICE

ONLYOFFICE

- **Documentation**
- **Source Code** (public)
- Available for Share and ADW 2.0.0
  - Not available for ACA
- Available for Community and Enterprise

**Share**

- **Edit in ONLYOFFICE**
- **Read in ONLYOFFICE**
- **Convert using ONLYOFFICE**

**ADW**

- **Edit in Microsoft Office**
- **Open with OnlyOffice**
- **Edit Offline**

“Multiple users”
https://github.com/cetra3/onlyoffice-alfresco

https://github.com/ONLYOFFICE/onlyoffice-alfresco

https://github.com/atolcd/adf-onlyoffice-extension
Installation

- ONLYOFFICE
  - Deploy *OnlyOffice Document Server* with JWT option enabled
    ```yaml
    onlyoffice-documentserver:
      image: onlyoffice/documentserver
      environment:
        - JWT_ENABLED=true
        - JWT_SECRET=odLFzazK81bNSu5MI90W
    ```

- Repository
  - Deploy *onlyoffice-integration-repo.jar* in Alfresco Repository
  - Add to *alfresco-global.properties* *(only supported in file mode, not as env variable)*
    ```properties
    onlyoffice.url=http://192.168.1.143/
    onlyoffice.jwtsecret=odLFzazK81bNSu5MI90W
    ```

- Share
  - Deploy *onlyoffice-integration-share.jar* in Share
Installation

- ADW (no available for ACA)
  - Detailed instructions available in https://github.com/atolcd/adf-onlyoffice-extension#installation
  - Building custom ADW Docker Image is required
Demo environment

- **Source Code**
- Docker Compose template
- Local plain HTTP configuration
DEMO TIME!
COLLABORA ONLINE
Collabora Online

- **Documentation**
- **Source Code** (public)
- Available for Share and ACA 1.10
- Available for Community and Enterprise

**Alfresco Content Application**

**Share**

- Multiple users

**Edit in Collabora Online**

**Edit with Collabora™ Online**
https://github.com/CollaboraOnline/alfresco-collabora-online

https://github.com/magenta-aps/alfresco-repo-libreoffice-online-module

https://github.com/jeremie-lesage/libreoffice-online-repo

https://github.com/arawa/libreoffice-online-repo
Installation (1)

- CODE Collabora Online Developer Edition
  
  ```yaml
  code:
    image: collabora/code
    environment:
      - password=admin
      - username=admin
      - extra_params=--o:ssl.enable=false
  ports:
    - 9980:9980
  
  - Repository
    - Deploy collabora-platform-extension-0.6.0.jar in Alfresco Repository
    - Add to `alfresco-global.properties` *(both file mode and env variable supported)*
      ```
      ```

  - Share
    - Deploy collabora-share-extension-0.6.0.jar in Share


Installation (2)

- Build ACA Docker Image with Collabora Extension applied

```
FROM node:10 AS builder

ENV GITHUB_ACA="https://github.com/Alfresco/alfresco-content-app"

COPY extensions/* /usr/src/

RUN npm run build

FROM nginx:stable-alpine

WORKDIR /usr/share/nginx/html
COPY --from=builder ${SRC_ACA}/docker/nginx.conf /etc/nginx/nginx.conf
COPY --from=builder ${SRC_ACA}/dist/app/ .
COPY --from=builder ${SRC_ACA}/docker/entrypoint.sh /
```
Demo environment

- **Source Code**
- Docker Compose template
- Local plain HTTP configuration
- Local IP required
DEMO TIME!

Collabora Online
Always happy to get your feedback!

Angel.FernandoBorroy@hyland.com