HAPPY NEW YEAR
UPDATE ON AARM AND DOCKER DESKTOP

- **AARM**
  - [github.com/aborroy/alfresco-dockerx-builder](github.com/aborroy/alfresco-dockerx-builder)
  - Running Alfresco on Apple M1 chips
  - Progress is being made, tests and feedback welcome

- **Docker Desktop Extension**
  - [github.com/AlfrescoLabs/alfresco-docker-extension](github.com/AlfrescoLabs/alfresco-docker-extension)
  - Not yet available on marketplace
The rise of AARCH64

AARCH64 (also referred to as ARM64) is a CPU architecture primarily known for their energy efficiency and low power consumption

- Docker started to support aarch64 architecture for Docker Images in 2019
- Apple started to use aarch64 architecture with the Apple Silicon chips back in November 2020
- The previous architecture, the one used for Apple Intel chips computers, is known as x86_64 or AMD64
  - Many development computers, both Windows and Linux based, are still using AMD64 architectures

If you are using a Mac computer with Apple Silicon the following instructions will help to configure a healthy development environment with Alfresco Docker Images.
JOIN THE CONVERSATION: YOUR OPINION COUNTS

- Partnership with a research firm
- Short survey on developer tools and platforms to help inform our strategy and advance our developer programs and community
- Your personal information is completely confidential
- Link on the Hub
Stay tuned later this month for a formal re-launch of the DevCon registration

- CFP re-opening
- Great venue, program and speakers
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
Alfresco Enterprise Viewer
Overview

- Georges Steimer
- Service Product Portfolio owner
AGENDA

- Overview and Demo
- AEV Deep Dive
- Architecture
AEV OVERVIEW AND DEMO
## COMMON CHALLENGES WITH BROWSER BASED VIEWING

<table>
<thead>
<tr>
<th>Unsecure Viewing of Documents</th>
<th>Slow Viewing of Documents</th>
<th>Standard Viewers don’t allow for annotation</th>
<th>Document contents need to be protected</th>
<th>Document Editing during viewing</th>
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</thead>
<tbody>
<tr>
<td>• Documents can be downloaded too easily</td>
<td>• Standard documents taking too long to view first page</td>
<td>• Adding standard annotation types (highlight, underline, box, circle, &amp; more)</td>
<td>• Redact based on patterns (ex: social security numbers, phone numbers)</td>
<td>• No way to adjust scanned image document (ex: rotate, reorder pages)</td>
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<tr>
<td>• Documents do not contain any audit trail of who downloaded</td>
<td>• Large Documents take a long time to download and view</td>
<td>• Annotation on video and audio content</td>
<td>• Ad hoc Redactions (ex: PII, account numbers, etc.)</td>
<td>• No way to split, prune or delete pages</td>
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<tr>
<td>• Uncontrolled printing of documents</td>
<td></td>
<td>• No way to view or annotating a document in real time (collaboration)</td>
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Alfresco Enterprise Viewer provides high-speed and secure viewing of document, video and audio content with team collaborative annotation, redaction and other modern document capabilities for Alfresco Content Services.

**Increased Efficiency**
- Browser based – High Speed and Secure Viewing
- PDF Editing including page reorder, split, prune and delete
- Large doc sectioning

**Annotation**
- Sticky Notes
- Drawing tools: lines, arrows, ellipse, rectangles, text
- Predefined Stamps
- File Attachments

**Security**
- Redaction of sensitive data – Pattern or Ad Hoc
- Watermarks
- Audit Trail

**Collaboration**
- See annotations, replies and chats in real time
- Follow other participants location
- Chat with other users
AVAILABILITY

Flexible deployment options

Alfresco Cloud (PaaS)  Private Cloud  On-Prem
ALFRESCO ENTERPRISE VIEWER CAPABILITIES

- Toolbar
- Thumbnails and Bookmarks
- Search in the document
- Colleagues working on this document
- Predefined Stamps
- Annotations Summary
- Highlighting
- Redactions
- Sticky Note
- Drawing tools
ALFRESCO ENTERPRISE VIEWER CAPABILITIES

Annotation comments and Optional Thumbnail

Video Viewer

Annotation Markers
Users want to view the document quickly and securely.

Full text search within the document, highlighting of results.

Manual and automatic redaction.

Watermarking overlays to discourage the usage of screenshots.

Collaboratively annotate documents using common types like sticky notes, text box, highlight, or stamps.

Custom apps can leverage AEV.

Small updates, e.g. documents can be upside down or require minor corrections.

...and many more features
AEV DEMO
AEV DEEP DIVE
HIGH SPEED SECURE VIEWING

- **High Speed Viewer**
  - Fast retrieval regardless of document size
  - 1,000-page document view in less than a second
  - Consistent viewer for all document types
    - PDF, Word, PowerPoint, Video, Audio, Images

- **Secure Viewer**
  - Users cannot download documents outside of the system
    - Data Loss Prevention - users do not have access to the full document
    - Documents can be watermarked with date/time and user that viewed the document
FAST & SECURE VIEWING

Documents are automatically split, secured and sent to the user’s machine individually before being destroyed to prevent a user from retrieving the page image.
REDICATIONS

- Remove sensitive information to keep in compliance with HIPAA, GDPR, PCI/PHI Regulations
  - NOT just a black box – text data is removed
  - User can enter an optional “Reason for Redaction”
  - “Suggested Redaction” Patterns to more efficiently redact large documents with multiple occurrences

- Multiple Redact Modes
  - Permanent Redact
  - Redact to Version (default)
  - Redact to Copy
    - Typically paired with an ACS behavior to modify security

ARCHITECTURE
Requires Services Engagement from Hyland Global Services

 subsystem

 Alfresco

 OPEN CONTENT ENGINE

 HIGH LEVEL ARCHITECTURE

 AEV

 High speed document viewer, annotations, redactions

 REST

 Chrome, Firefox, Edge
 Backbone.JS
 jQuery
 Bootstrap
 Material Design
Questions / Discussion