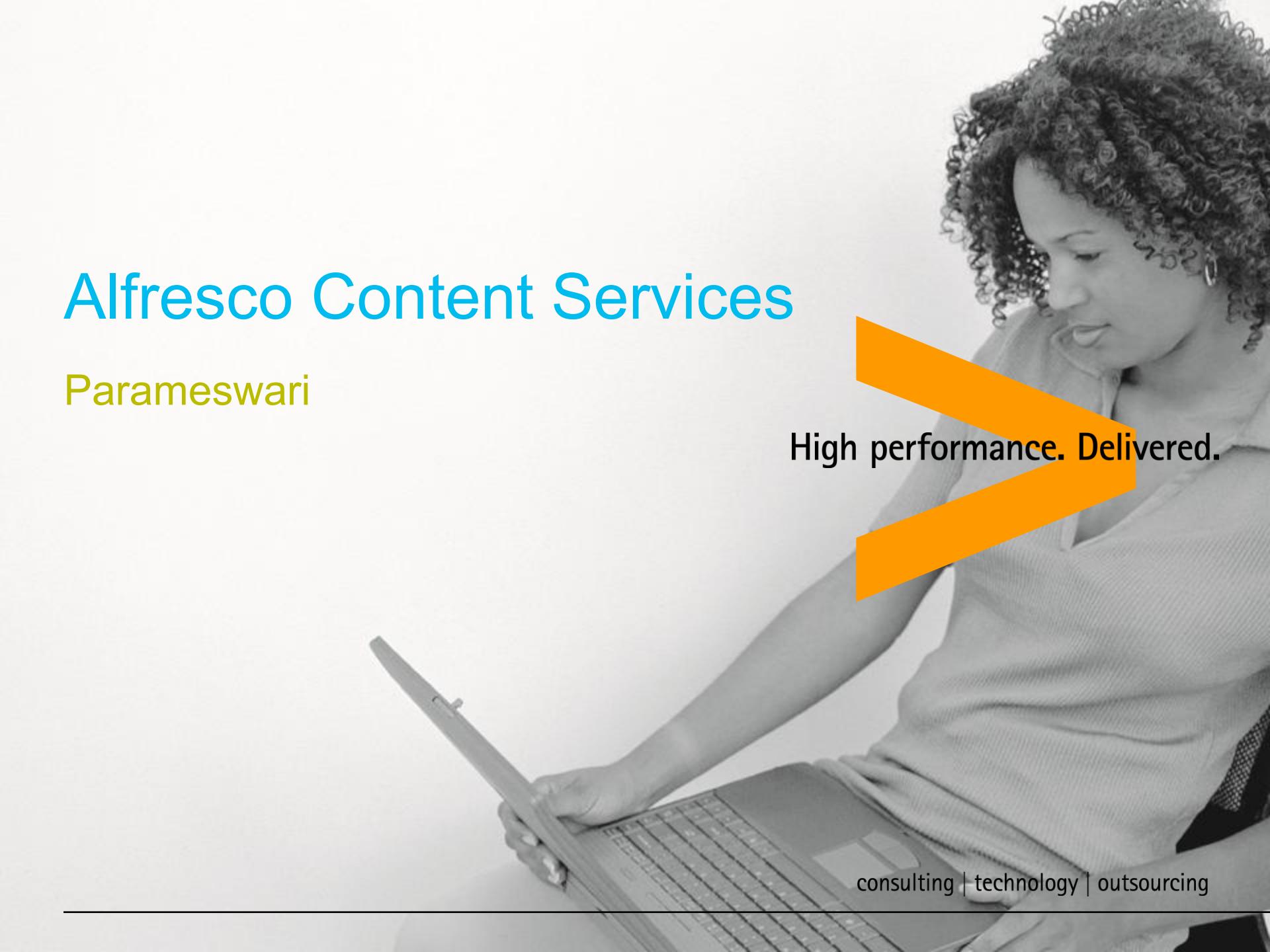


Alfresco Content Services

Parameswari



High performance. Delivered.

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Goals

- Alfresco Architecture
- Installation
- Content Model
- Configuration and Layouts
- Alfresco Share Components Customization
- Working with the new Aikau framework in Alfresco Share
- Workflows

1990s — The Web Revolution and the Birth of the CMS



-  **The Web Changes Everything**
- In the **early 1990s**, the invention of the **World Wide Web (1991)** and **HTML (Tim Berners-Lee)** turned content publishing from desktop typesetting into online delivery.
- Companies needed ways to **manage and publish digital content** (HTML pages, documents, images) to their websites — leading to the **first generation of CMS**.
- The first CMS-like systems were **custom-built**, often tied to specific websites (e.g., newsrooms, universities).

1990s — The Web Revolution and the Birth of the CMS



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1990s — The Web Revolution and the Birth of the CMS



-  **Key Early Systems**
- **Vignette StoryServer (1995)**: One of the first commercial web CMS platforms — introduced the concept of “templates,” “workflow,” and “content reuse.”
- **Interwoven TeamSite (1996)**: Added version control, workflow, and template-based publishing — heavily used by enterprises.
- **Documentum (1990, commercialized mid-1990s)**: Pioneered enterprise document management, later evolving toward full **enterprise content management (ECM)**.
- **FileNet (acquired later by IBM)**: Early leader in document and workflow management.

1990s — The Web Revolution and the Birth of the CMS



-  **Trends**

- From “print” → “publish to web.”
- HTML pages became modular: content stored separately from presentation.
- Enterprises realized **content reuse** and **workflow** improved consistency.
- Static sites → template-driven dynamic pages → early CMS logic.
- Focus on **intranets**, **knowledge bases**, and **corporate websites**.

2000s — Enterprise Content Management (ECM) and Open Source CMS



-  **Rise of ECM**
- As content exploded across email, file servers, and web portals, organizations wanted **a single platform** to manage **documents, records, web content, and collaboration**.
- This decade saw the birth of the term **“Enterprise Content Management (ECM)”** — integrating document management, web content, records, imaging, and workflow.



2000s — Enterprise Content Management (ECM) and Open Source CMS



-
- Major ECM Players
 - Documentum (EMC)
 - FileNet (IBM)
 - OpenText
 - Alfresco (founded 2005, open-source ECM alternative)
 - SharePoint (Microsoft, launched 2001)



2000s — Enterprise Content Management (ECM) and Open Source CMS



-
- Each offered:
 - Versioning, metadata, retention, workflows.
 - Integration with Office tools and intranet portals.
 - Secure document repositories with search and access control.



2000s — Enterprise Content Management (ECM) and Open Source CMS



-  **Open Source CMS Explosion**
- While ECM focused on enterprise, open-source CMS platforms revolutionized **web content publishing**:
- **WordPress (2003)**: Blogging → full-featured web CMS.
- **Joomla! (2005)** and **Drupal (2001)**: Enabled community sites, intranets, and corporate portals.
- These democratized content publishing — anyone could set up a CMS.



2000s — Enterprise Content Management (ECM) and Open Source CMS



-
-  **Concepts Introduced**
 - Separation of content from presentation.
 - Template engines and themes.
 - WYSIWYG editors.
 - User roles, workflows, and versioning.
 - Plugin ecosystems.



- **Cloud CMS & SaaS**
- The 2010s saw migration to **cloud-based content platforms** — eliminating the need for on-premise servers.
- Examples:
 - **Adobe Experience Manager (AEM)**
 - **Sitecore**
 - **Contentful (2013)**
 - **Kentico Cloud, Prismic, Storyblok**
- Enterprises moved to “**Content-as-a-Service (CaaS)**”: content delivered via APIs to any device.



- **Headless CMS Architecture**
- Traditional CMS tightly coupled content + front-end.
- **Headless CMS** decouples content storage (back end) from delivery (front end), accessed via REST or GraphQL APIs.
- Ideal for multi-channel publishing — web, mobile, IoT, digital signage.



- 🧠 **Digital Experience Platforms (DXPs)**
- Companies started managing not just content, but **personalized digital experiences**:
 - Integration of CMS + analytics + marketing automation.
 - Examples: **Adobe Experience Cloud, Sitecore XP, Liferay DXP**.



- **Governance, AI, and Collaboration**
 - Rise of **records management, compliance (GDPR),** and secure collaboration.
 - Platforms like **Alfresco Content Services** evolved to support **hybrid deployments, automation, APIs, and AI-based search.**



2020s — Intelligent and Composable Content Management



-  **Key Trends**
- **Composable architectures** — use of microservices, APIs, and cloud-native components (e.g., CMS + DAM + analytics + AI).
- **AI-driven content management:**
 - Auto-tagging, semantic search, and summarization.
 - Predictive personalization.
 - Intelligent workflows.
- **Integration-first systems** like **Alfresco**, **Contentful**, **Strapi**, **Sanity**, and **Hyland** focus on extensibility and cloud orchestration.
- **Zero-trust security** and **hybrid cloud deployments** for governance-heavy industries.



ECM Solutions in 2021



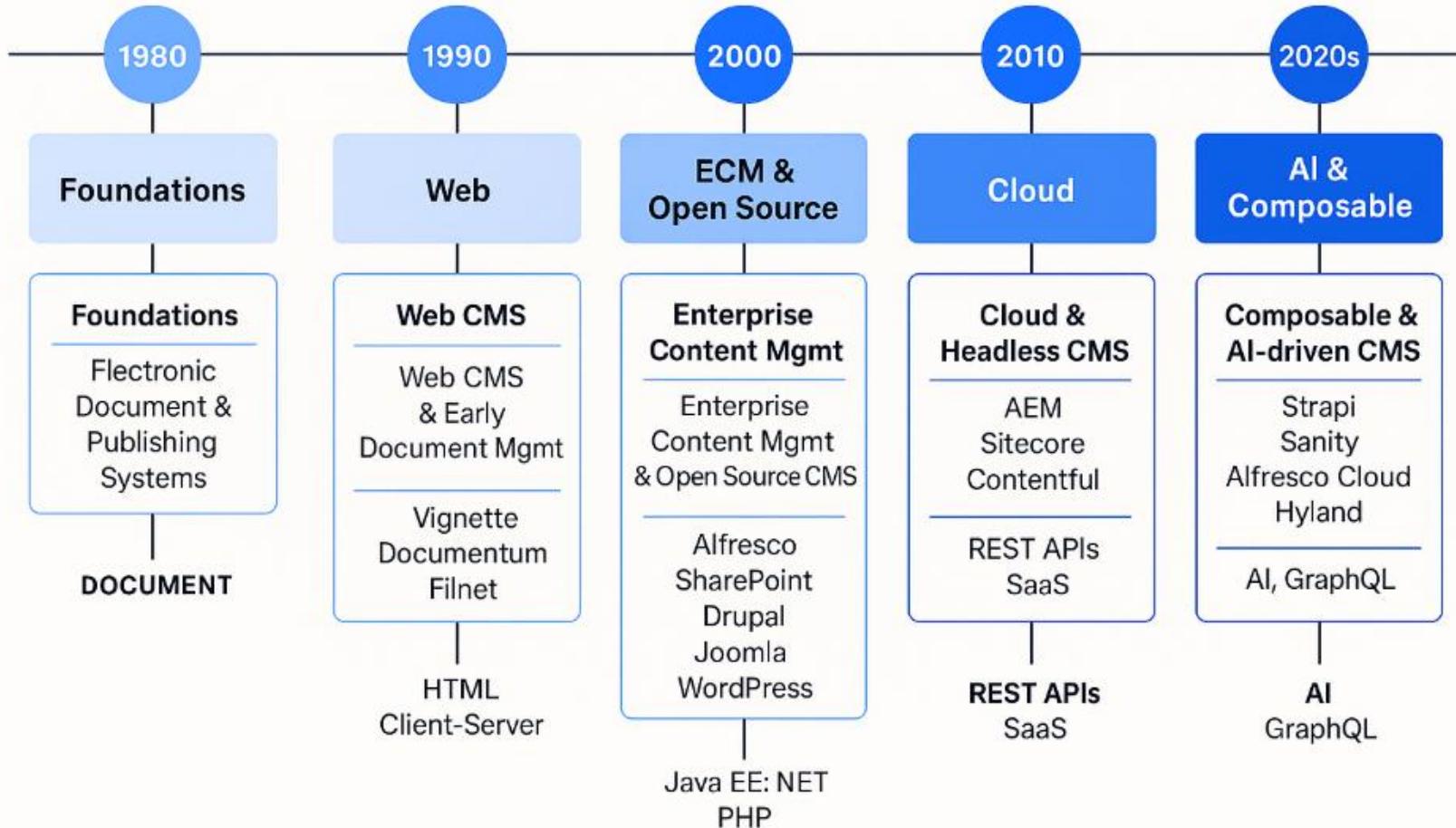


Summary Timeline



Era	Focus	Key Technologies	Representative Systems
1980s	Electronic Document & Publishing Systems	Mainframes, Local Networks	Atex, IBM SCRIPT, DEC Text, Interleaf
1990s	Web CMS & Early Document Mgmt	HTML, Client–Server, Relational DBs	Vignette, Documentum, FileNet
2000s	Enterprise Content Mgmt & Open Source CMS	Java EE, .NET, PHP	Alfresco, SharePoint, Drupal, Joomla, WordPress
2010s	Cloud & Headless CMS	REST APIs, SaaS, Microservices	AEM, Sitecore, Contentful
2020s	Composable & AI-driven CMS	AI, GraphQL, Kubernetes, API-first	Strapi, Sanity, Alfresco Cloud, Hyland

The Content Management Story So Far (1980s–2020s)



Content Management Types -

1. By Purpose / Use Case



Type	Description	Examples
Document Management System (DMS)	Focuses on storing, organizing, and versioning electronic documents and files. Supports check-in/out, metadata, audit trails.	Alfresco, SharePoint, OpenText, M-Files
Web Content Management System (WCMS)	Manages website content (text, media, pages). Provides authoring, templating, publishing, and site management.	WordPress, Joomla, Drupal, Sitecore
Enterprise Content Management (ECM)	Unifies document management, records, web, imaging, and workflow under one enterprise platform.	Alfresco, Documentum, IBM FileNet, OpenText, SharePoint
Digital Asset Management (DAM)	Manages rich media (images, videos, audio, design files) for brand and marketing teams. Includes tagging, rights, and versioning.	Bynder, Adobe Experience Manager (AEM) Assets, Canto
Records Management System (RMS)	Ensures secure storage, retention, and legal compliance for records. Integrated with DMS or ECM.	OpenText RM, Alfresco RM, Laserfiche

Content Management Types --

1. By Purpose / Use Case



Component Content Management System (CCMS)	Manages small “content components” (paragraphs, sections, modules) — ideal for technical documentation and reuse.	Adobe Experience Manager Guides, SDL Tridion Docs, Paligo, MadCap Flare
Learning Content Management System (LCMS)	Manages learning/training materials (courses, quizzes, multimedia) integrated with LMS platforms.	Xyleme, Adobe Captivate Prime, Docebo, Moodle
Headless / API-First CMS	Stores content separately from presentation; delivers content via APIs (REST/GraphQL) to any channel (web, mobile, IoT).	Contentful, Strapi, Sanity, Prismic, Hygraph
Digital Experience Platform (DXP)	Combines CMS with analytics, personalization, CRM, and marketing automation for omnichannel experiences.	Adobe Experience Cloud, Sitecore XP, Liferay DXP, Acquia

Content Management Types --

2. By Architecture



Architecture Type	Description	Example Platforms
Traditional (Coupled)	Content, front-end, and templates are tightly integrated. Easier for editors but less flexible.	WordPress, Joomla, Drupal (classic mode)
Decoupled CMS	Content and presentation layers are separated, but CMS still controls both via APIs.	Magnolia CMS, Adobe Experience Manager
Headless CMS	Only the content backend; front-end (React, Angular, Flutter, etc.) consumes content through APIs.	Contentful, Strapi, Sanity, Hygraph
Hybrid CMS	Offers both traditional templating and headless delivery.	Drupal (Decoupled mode), Kentico, dotCMS, Sitecore XM Cloud

Content Management Types --

3. By Deployment Model



Deployment Model	Description	Examples
On-Premises CMS	Installed and managed on the organization's own servers. Gives full control but needs IT resources.	Alfresco, Documentum, OpenText, Liferay
Cloud-Based CMS (SaaS)	Hosted and maintained by the vendor; users access via browser. Scalable and maintenance-free.	Contentful, HubSpot CMS, Wix, Squarespace
Hybrid / Managed Cloud	Combines on-prem control with cloud scalability (often containerized deployments).	Alfresco Cloud, Sitecore XM Cloud, Adobe AEM as a Cloud Service

Content Management Types --

4. By Industry Focus



Industry	CMS Focus	Example
Publishing / Media	Multi-channel editorial workflows, digital publishing	Atex, WoodWing, Brightspot
Education / E-learning	Course content, assessments, and interactive learning	Moodle, Xyleme, Canvas
Government / Legal	Records retention, compliance, citizen service portals	OpenText, Alfresco, Liferay DXP
E-commerce	Product content, catalogs, personalization	Magento (Adobe Commerce), Shopify CMS, Contentstack

Content Management Types --

5. Modern CMS Convergence



- Today, many platforms blend categories — for example:
- **Alfresco** = DMS + ECM + RM + API-first CMS
- **AEM** = CMS + DAM + DXP
- **Drupal + Acquia** = Open Source CMS + Cloud + DXP
- **Contentful / Strapi** = Headless + Composable architecture



Content Management Types

1. By Purpose/Use Case

DMS

WCMS

ECM

DAM

RMS

CCMS

Headless / API-First

2. By Architecture

Traditional
(Coupled)

Decoupled CMS

Headless CMS

3. By Deployment

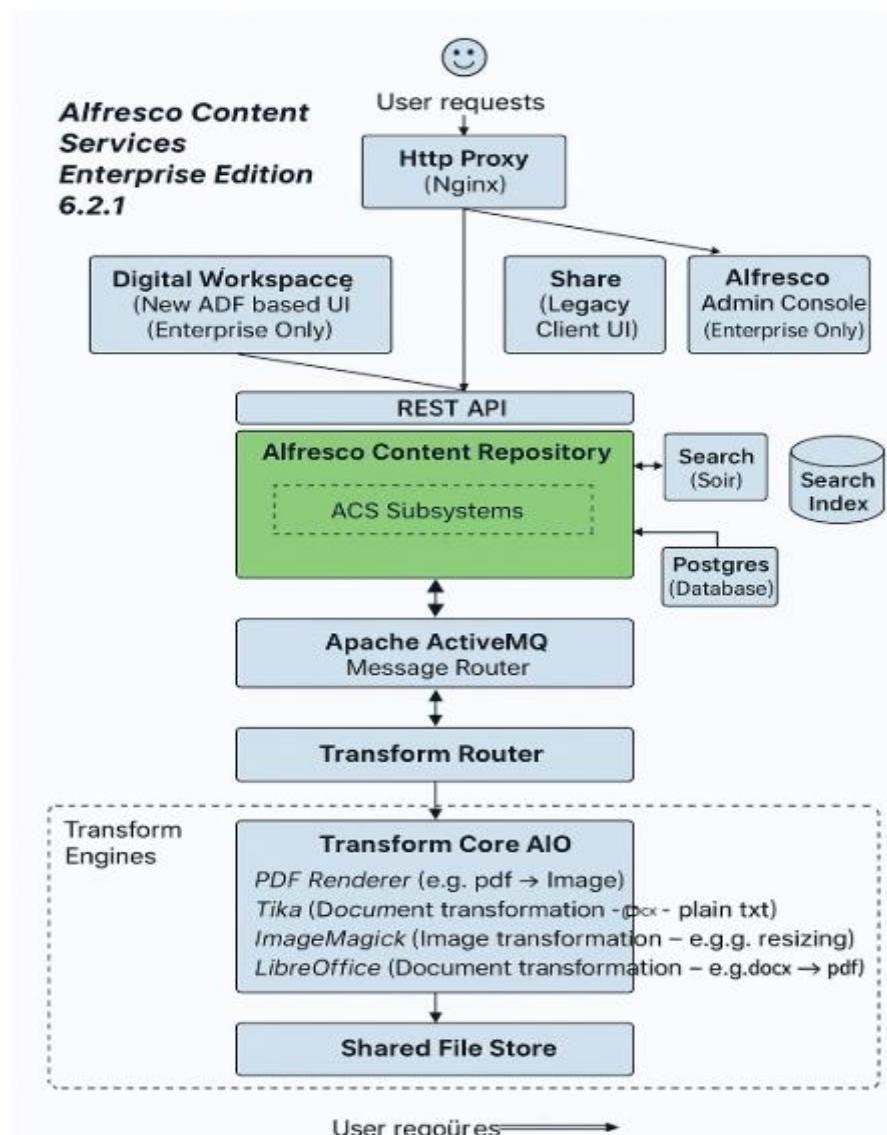
On-Premises CMS

Cloud-Based CMS
(SaaS)

Hybrid / Managed Cloud



Alfresco Content Services (ACS)





Alfresco Content Services (ACS)

-  **1. User and Interface Layer**
- **Components:**
- **Digital Workspace** (ADF-based modern UI)
- **Share** (legacy web client)
- **Admin Console** (enterprise-only management interface)
- These provide **end-user interaction**, allowing document upload, search, and workflow management.



Alfresco Content Services (ACS)

- **🌐 2. Proxy and API Layer**
- **Component:**
- **Http Proxy (Nginx)**
Handles routing, SSL termination, and load balancing between the user interface and backend.
- **ReST API:**
Exposes RESTful endpoints to integrate with external apps or automation workflows.



Alfresco Content Services (ACS)

-  **3. Core Repository Layer**
- **Component:**
- **Alfresco Content Repository (ACS)**
The heart of the system — manages documents, metadata, versioning, access control, and business rules.
- **ACS Subsystems include:**
- Authentication and authorization
- File storage management
- Rules engine
- Content model services



Alfresco Content Services (ACS)

- 🔎 **4. Search & Database Layer**
- **Components:**
- **Search (Apache Solr)** — Indexes metadata and full-text content for rapid search and retrieval.
- **PostgreSQL Database** — Stores metadata, content associations, users, and permissions.
- **Search Index** — Persistent index store for Solr queries.



Alfresco Content Services (ACS)

-  **5. Messaging & Workflow Layer**
- **Components:**
- **Apache ActiveMQ** — Message router enabling asynchronous communication between components (e.g., document transformations).
- **Transform Router** — Directs file conversions (e.g., Word → PDF, PDF → image).



Alfresco Content Services (ACS)

- 🧠 **6. Transformation Services Layer**
- **Transform Core AIO** – Converts files into viewable/searchable formats using:
- **PDF Renderer** — Renders PDF pages as images.
- **Tika** — Extracts text from documents.
- **ImageMagick** — Handles image resizing/format conversion.
- **LibreOffice** — Converts office documents (e.g., DOCX → PDF).



Alfresco Content Services (ACS)

-  **7. Storage Layer**
- **Component:**
- **Shared File Store** — Stores binary content (BLOBs).
Can be local, NAS, or cloud-based (e.g., AWS S3, Azure Blob).



Alfresco Content Services (ACS)

-  **8. Data Flow Summary**
- User → UI → REST API → Repository
- Repository communicates with Solr (search) and PostgreSQL (metadata)
- Transform requests routed via ActiveMQ → Transform services
- Final content stored in **Shared File Store** and indexed for search.



Alfresco ECM Customers





Enterprise content management system (ECM)

- Enterprise Content Management (ECM) is a **strategic framework and software suite** that allows organizations to **capture, manage, store, preserve, and deliver** all forms of content (structured & unstructured) across the enterprise.
- It provides a **centralized digital repository** that controls the content lifecycle — from creation to archival — ensuring compliance, accessibility, and collaboration.
- 📖 Definition (AIIM-AIIM stands for **Association for Intelligent Information Management**.):
“ECM is the strategies, methods, and tools used to capture, manage, store, preserve, and deliver content and documents related to organizational processes.”

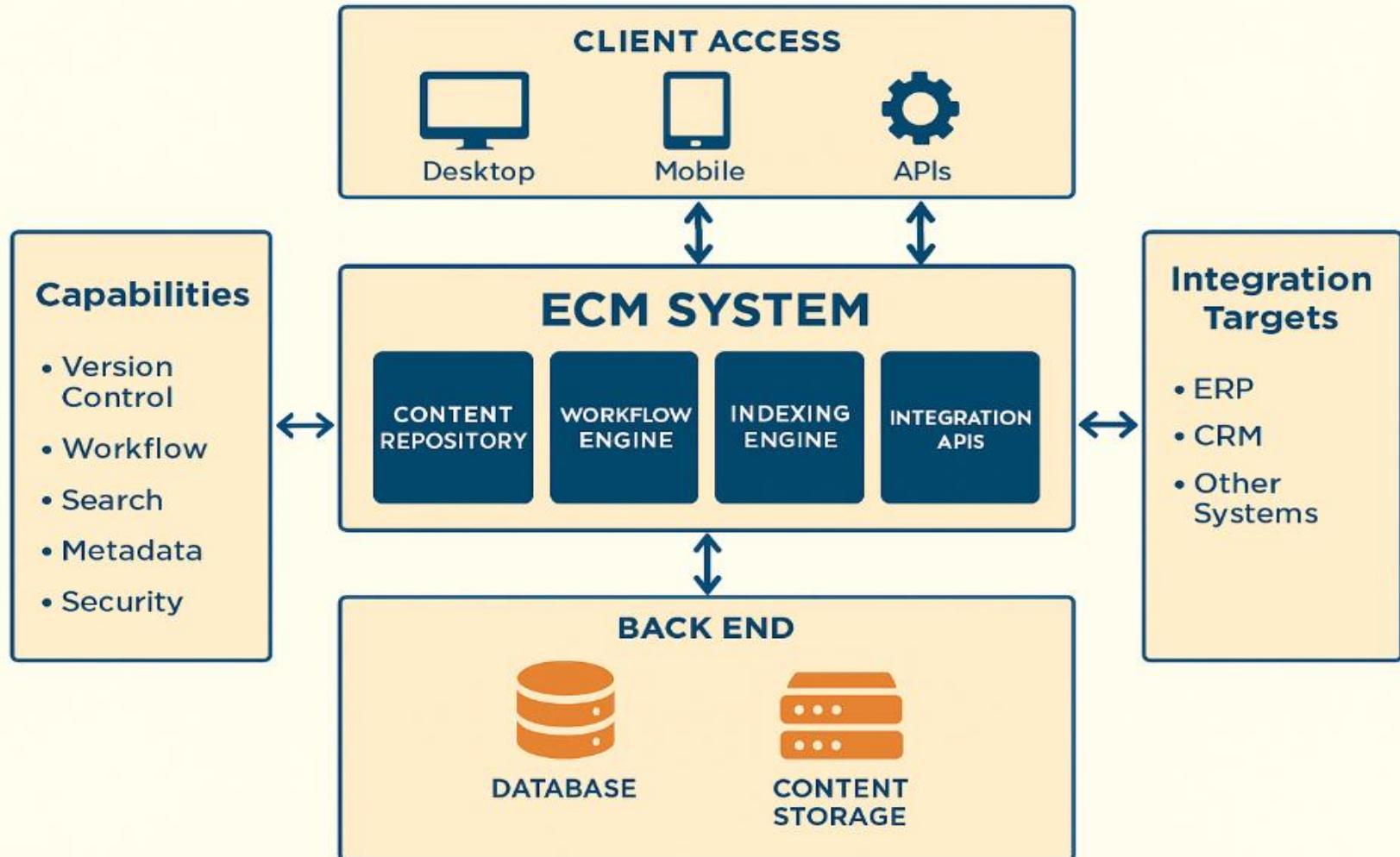


Core Components of ECM

Component	Purpose	Examples
Capture	Digitizes physical documents and imports digital files. Includes OCR, scanning, and email ingestion.	Kofax, ABBYY, Nuxeo, OpenText Capture
Manage	Organizes and categorizes documents using metadata, taxonomies, workflows, and access rules.	Alfresco, SharePoint, FileNet
Store	Central repository for current content (documents, records, images, multimedia).	SQL/NoSQL DBs, File stores, Cloud storage
Preserve (Archive)	Long-term retention for compliance and historical records. Supports retention policies and audit trails.	WORM storage, AWS Glacier, OpenText Archive Center
Deliver	Makes content accessible through portals, APIs, and mobile apps. Enables search, collaboration, and sharing.	REST APIs, SharePoint Online, Alfresco ADF



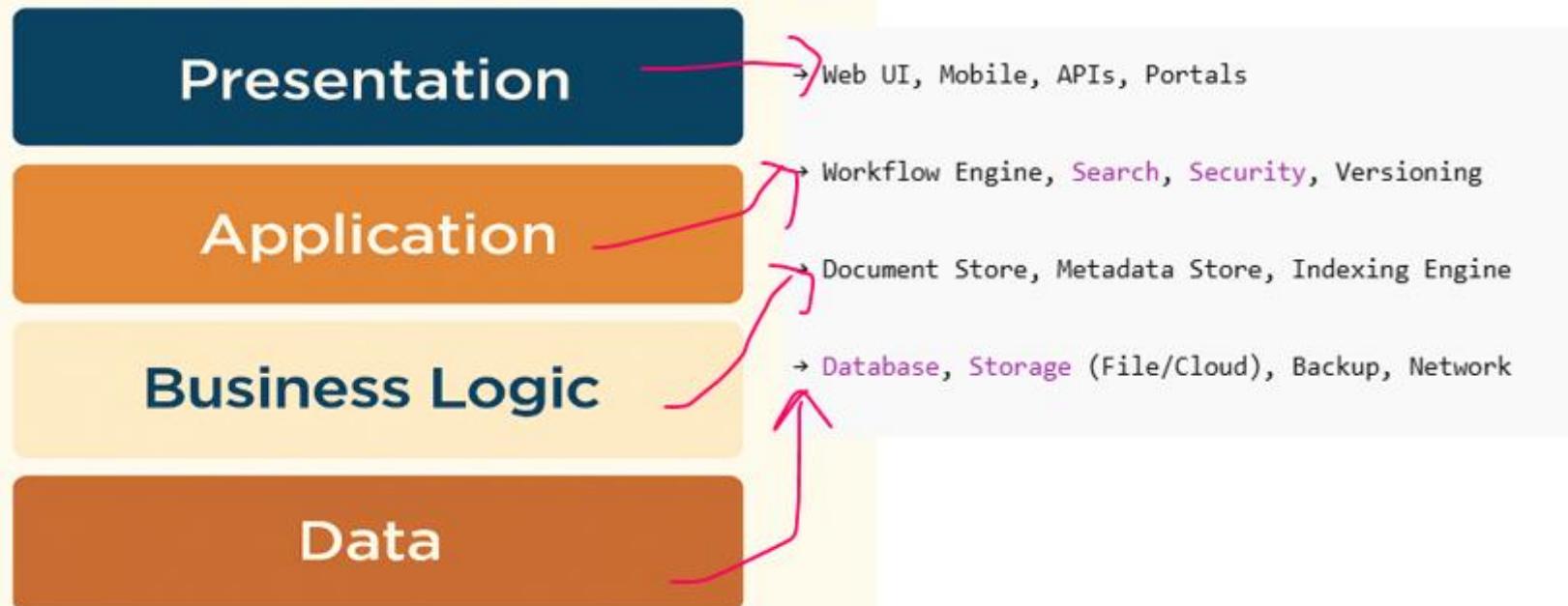
ECM System Architecture





ECM System Architecture

Logical Layers





ECM System Architecture

- **B. Main Modules**
 - **Content Repository** – Stores both documents and metadata.
 - **Workflow Engine** – Automates business processes (approvals, reviews, etc.).
 - **Records Management** – Ensures compliance (retention, audit, legal hold).
 - **Search & Indexing** – Uses Solr/Elasticsearch for metadata + full-text search.
 - **Security & Access Control** – Role-based permissions, encryption, SSO.
 - **Integration APIs** – REST, SOAP, CMIS for ERP/CRM integration (SAP, Salesforce).



Key ECM Functionalities

Functionality	Description
Version Control	Tracks changes and maintains revision history.
Metadata & Tagging	Classifies documents for fast retrieval.
Workflow Automation	Automates document routing, approvals, and escalations.
Access Control	Manages permissions based on user roles/groups.
Audit Trails	Logs all user and system activities for compliance.
Collaboration Tools	Supports real-time editing, comments, and sharing.
Search & Retrieval	Full-text and faceted search using indexes and filters.
Retention Policies	Automatically archives or deletes documents based on rules.



Security & Compliance

- ECM systems are designed with **governance and legal compliance** in mind:
 - **Role-based Access Control (RBAC)**
 - **Data Encryption (in-transit & at-rest)**
 - **Digital Signatures / e-Signature Integration**
 - **Retention Schedules & Legal Holds**
 - **Audit Trails & ISO/DoD 5015.2 Compliance**
 - **GDPR / HIPAA / SOX alignment for regulated industries**



Deployment Models

Type	Description	Example
On-Premises ECM	Installed on enterprise infrastructure; full control.	Alfresco Enterprise, OpenText Content Suite
Cloud ECM (SaaS)	Hosted and managed by vendor; subscription-based.	Hyland Cloud, M-Files Cloud, SharePoint Online
Hybrid ECM	Combines local storage + cloud scalability.	Alfresco Cloud Hybrid, IBM FileNet P8 Hybrid



ECM Content Lifecycle

Phase	Activity	Purpose
Capture	Scanning, importing, OCR	Digitize and centralize content
Manage	Classify, index, secure, automate	Organize and control access
Store	Persist content with metadata	Ensure integrity and retrievability
Preserve	Archive, backup, retain	Meet legal and compliance rules
Deliver	Share, search, publish, integrate	Enable collaboration and decision-making



ECM Integration Capabilities

- ECM systems typically integrate with:
 - **ERP systems** – SAP, Oracle E-Business Suite
 - **CRM platforms** – Salesforce, Dynamics 365
 - **Collaboration tools** – Microsoft Teams, Slack, Outlook
 - **Email & Scanning Tools** – Outlook plugins, Kofax, ABBYY
 - **APIs & Standards** – CMIS (Content Management Interoperability Services)



Modern ECM Trends

Trend	Description
Cloud-Native ECM	Containerized and scalable systems (Kubernetes, Docker).
AI & Machine Learning	Auto-classification, OCR text extraction, intelligent search.
Low-Code/No-Code Workflows	Non-technical users can automate approvals easily.
Mobile ECM	Access and approvals via smartphones securely.
Composable ECM	Microservice-based architecture allowing flexible integration.
Zero-Trust Security	Continuous authentication and least-privilege principles.



Leading ECM Platforms

Vendor	Highlights
Alfresco (Hyland)	Open-source core, API-first, strong workflow engine (Activiti/Flowable).
OpenText Content Suite	Enterprise-grade scalability, compliance, extensive integrations.
IBM FileNet	Proven for large enterprises with AI-infused automation.
Microsoft SharePoint	Seamless with Office 365; strong collaboration features.
M-Files	Metadata-driven, AI-powered document classification.
Nuxeo (Hyland)	Cloud-native ECM with flexible APIs and DAM features.



-  **Efficiency:** Eliminates paper, speeds up document retrieval.
-  **Compliance:** Meets regulatory standards automatically.
-  **Cost Reduction:** Reduces storage, printing, and manual processes.
-  **Security:** Centralized control prevents unauthorized access.
-  **Collaboration:** Improves productivity through shared workspaces.
-  **Business Continuity:** Cloud backup ensures disaster recovery.



Example: Alfresco ECM Architecture



- **Core Components:**
- **Repository (Java + Spring)**
- **Database (PostgreSQL/MySQL/Oracle)**
- **Content Store (File system or S3)**
- **Search (Apache Solr / OpenSearch)**
- **Workflow Engine (Activiti / Flowable)**
- **Authentication (LDAP / SSO / Keycloak)**
- **UI Layer (Alfresco Share / ADF / REST APIs)**



ECM Product Capabilities



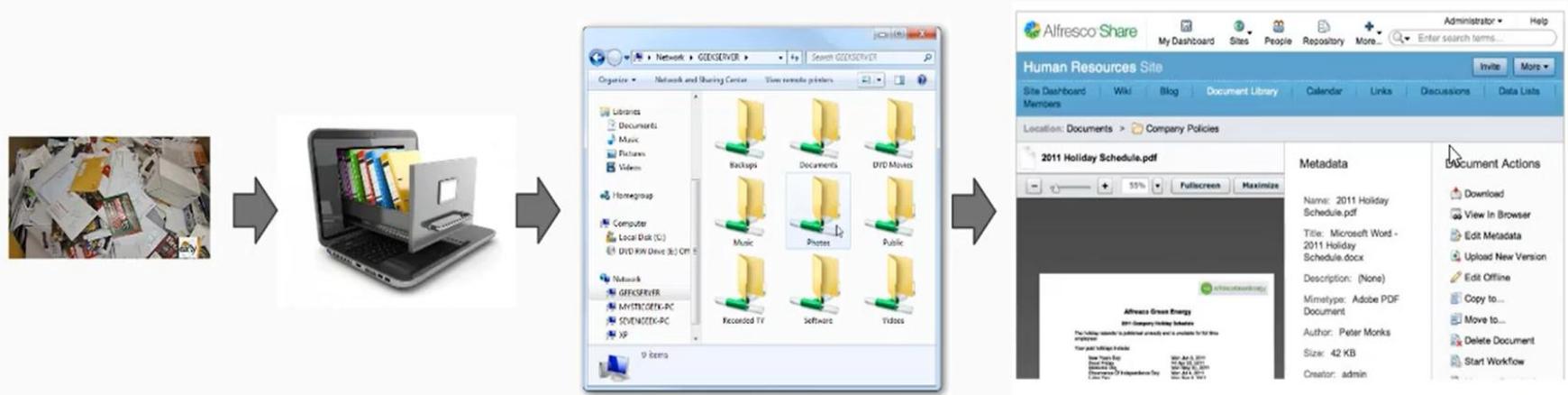


Surrounding Functional Modules

Function	Description
Document Management	Manages creation, versioning, and access of business documents (Word, Excel, PDF, etc.).
Web Content Management	Publishes and manages web pages and digital assets across web channels.
Email Archive	Archives emails and attachments, integrates with Outlook/Thunderbird.
Image Management	Manages scanned images and photos with metadata and OCR support.
Content Repository	Centralized storage for all document types and media with secure access.
Workflow	Automates document-centric business processes like approvals and reviews.
Electronic Records Management	Ensures retention, compliance, and legal governance of documents.
Collaboration	Supports team-based content sharing, version control, and discussions.



Document Management

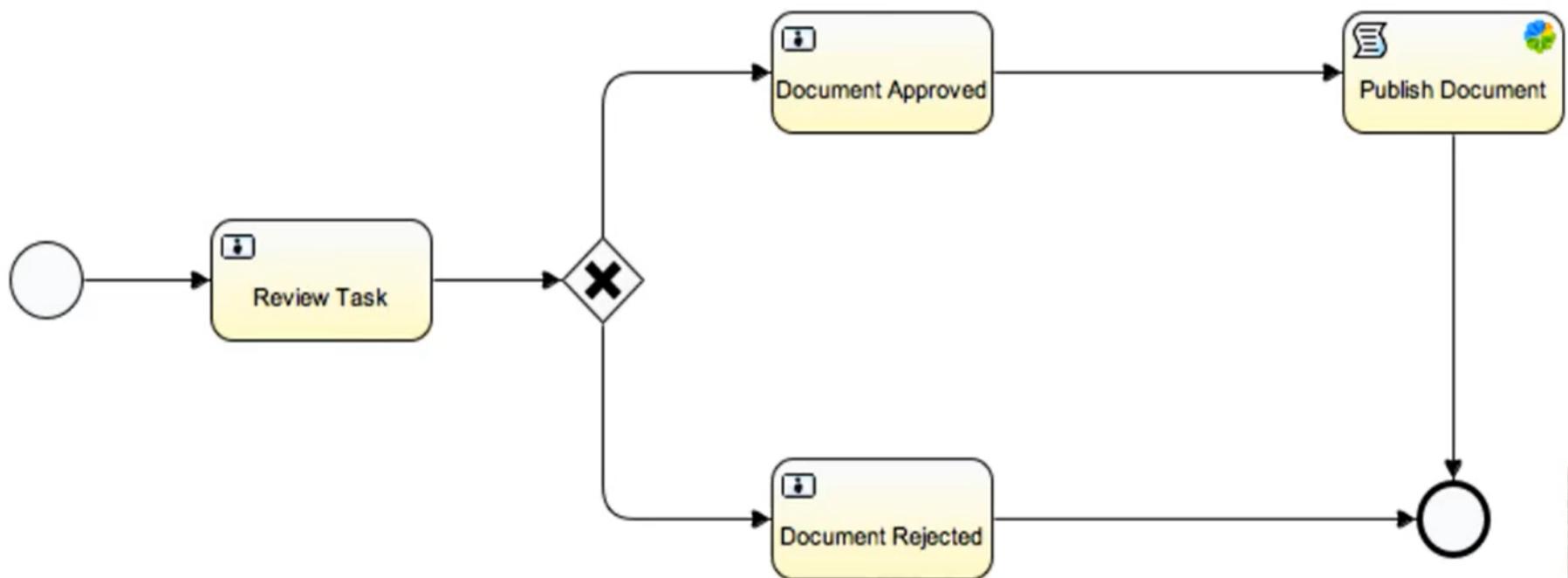


Can store and track all type of documents.



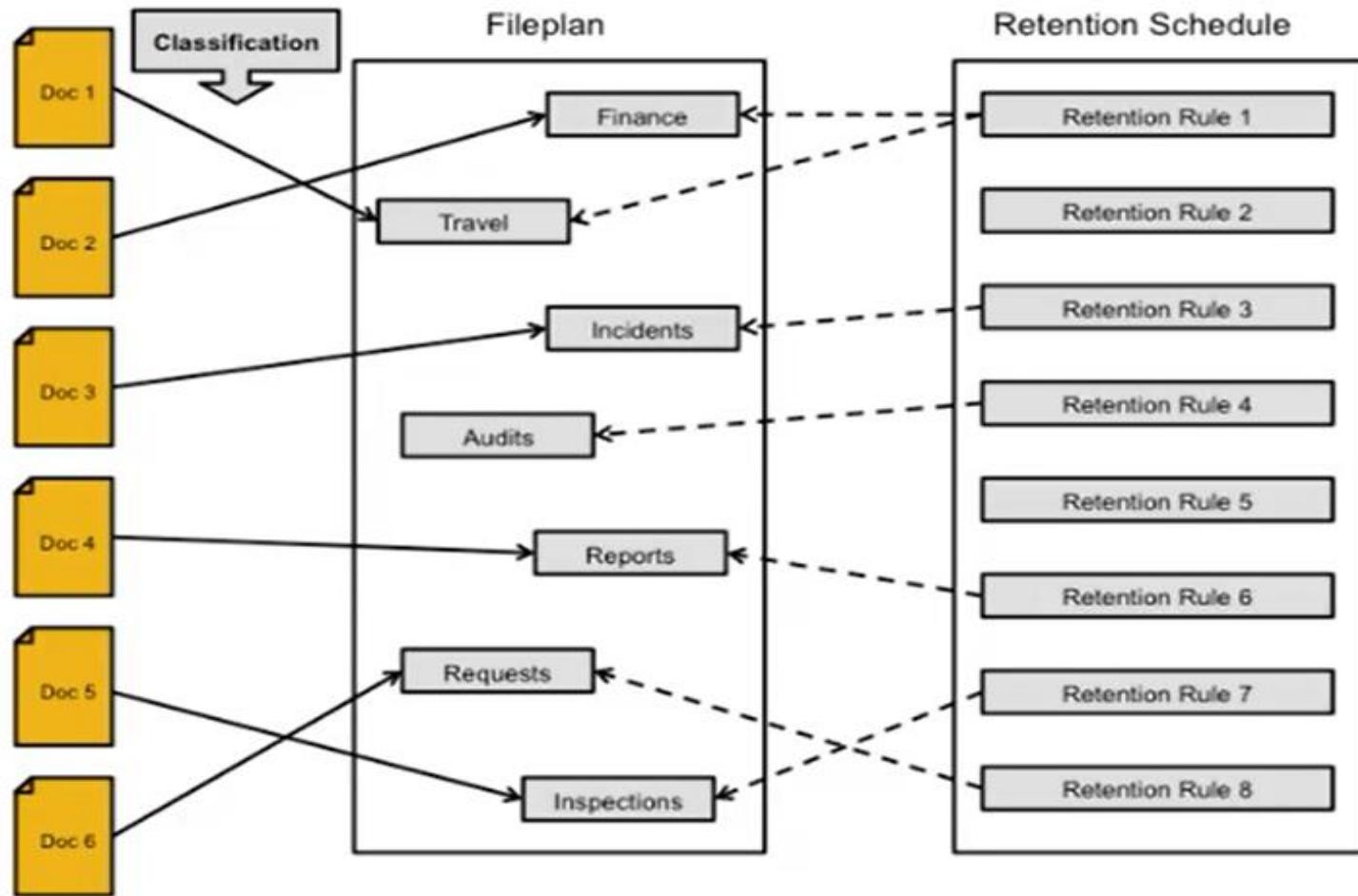
Workflow Management

- In Alfresco a workflow is a sequence of connected tasks applied to a document or other item of content.
- Each task can be performed by a person, a group, or automatically.
- There are number of tools you get to design, execute, and monitor your workflows.





Electronics Record Management





Electronics Record Management

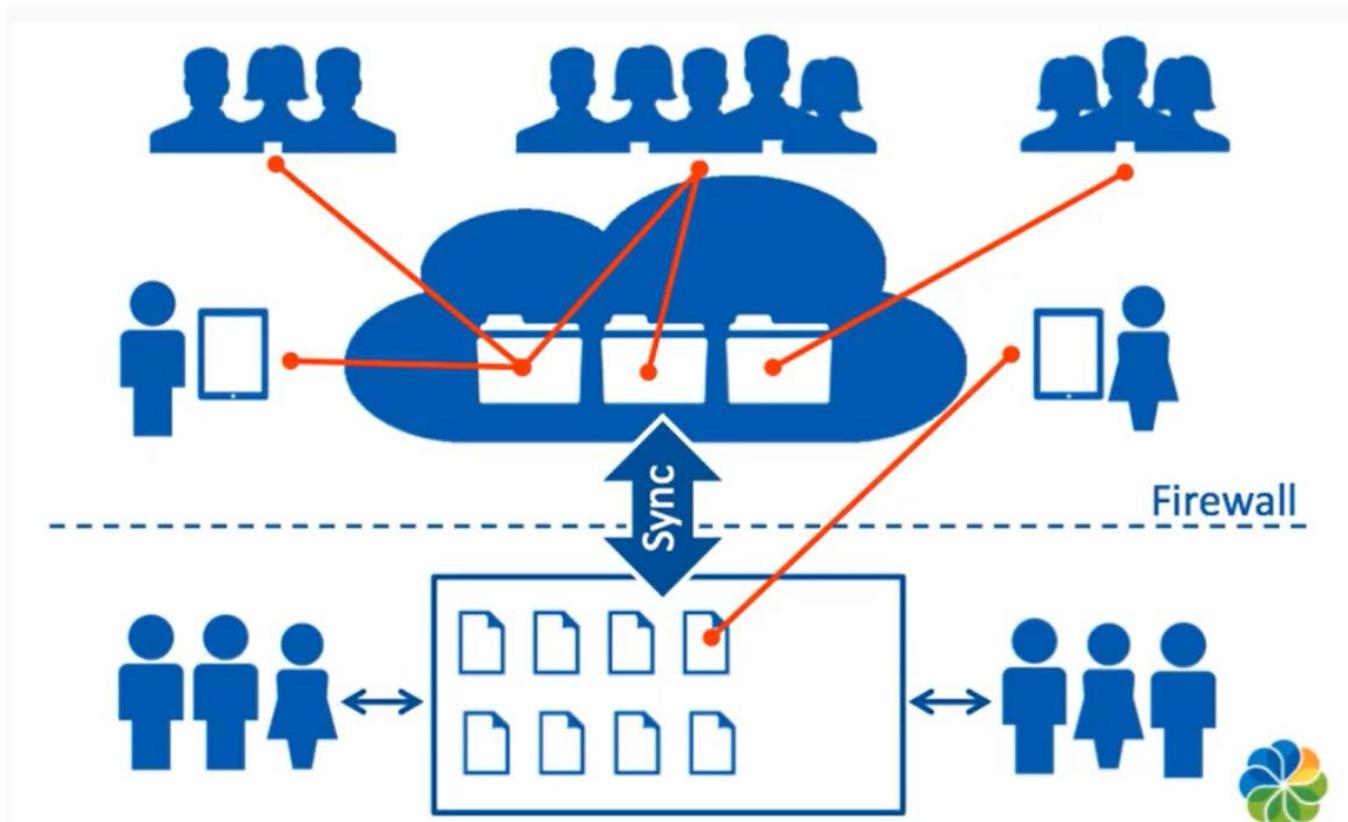
- Can manage records which can be either tangible objects, such as paper documents like birth certificates, driver's licenses, and physical medical x-rays, or digital information, such as electronic office documents, data in application databases, web site content, and electronic mail (email).





Enterprise Collaboration

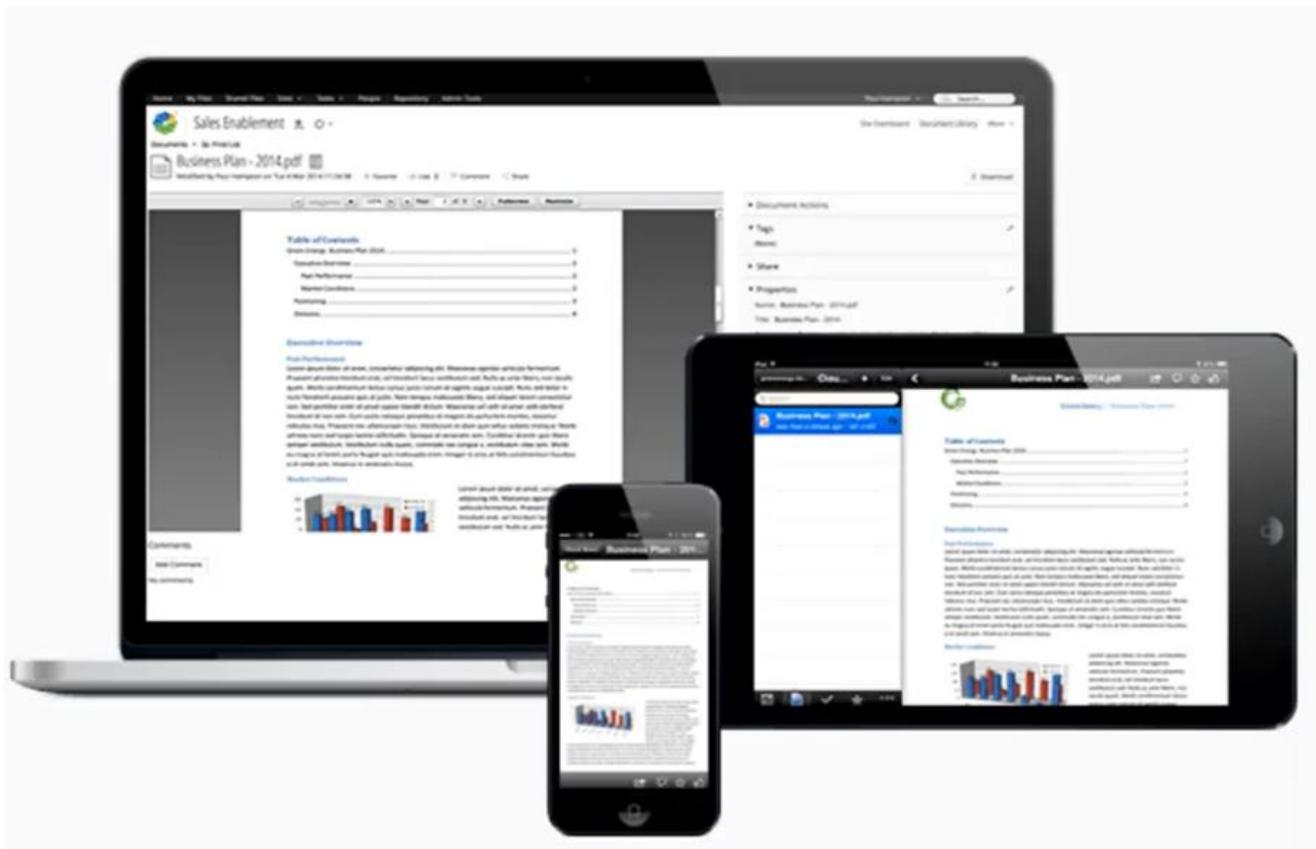
- For effective Collaboration Alfresco provides tools to facilitate communication, share information, and run projects within your team as well as to include partners, consultants, external agencies, and customers.





Mobile Content Management

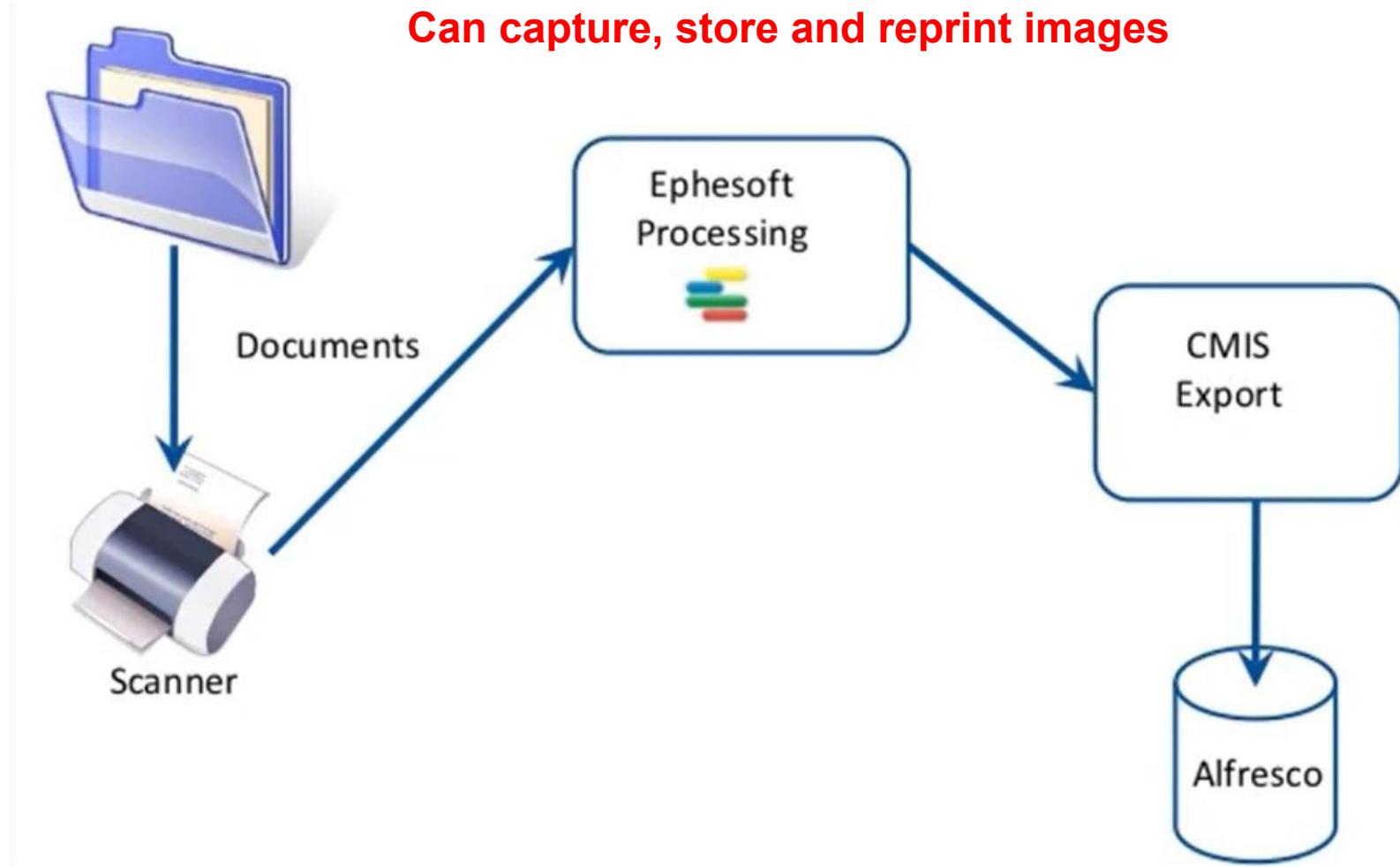
- Allow users with little knowledge of web / Mobile programming languages or markup languages to create and manage website content with relative ease





Scanning

Can capture, store and reprint images





Content Management

- Allow users with little knowledge of web programming languages or markup languages to create and manage website content with relative ease





Case Study

- Requirements
 - End user should be able to upload different types of documents on website in support of the application.
 - The document is further validated by Admin.
 - All users of the portal have secure inbox access wherein they are notified about account activities/admin change actions/application statuses.
 - These emails should be saved as PDF documents.
 - Authorized persons should be able to view/edit the static web content of the application as and when required.



Case Study

- Challenges
 - We needed one solution to fit all above requirements.
 - We knew the content size would grow with time.
- The key points which we considered:
 - A system with strong security.
 - A scalable solution to meet future requirements.
 - A system which can be easily integrated with existing Java application.



Case Study

- Solution:
 - After analyzing available ECMs we figured out Alfresco was able to cater to all these requirements and was a cost-effective solution.
 - With following features, Alfresco stood as a solution encompassing all our requirements.
 - Alfresco guarantees content safety through its security model which is comprised of authentication and authorization.
 - Alfresco One-Enterprise edition is highly modular and scalable.
 - We could easily integrate Java application with Alfresco using its OpenCMIS extension which depends on Apache Chemistry OpenCMIS libraries.

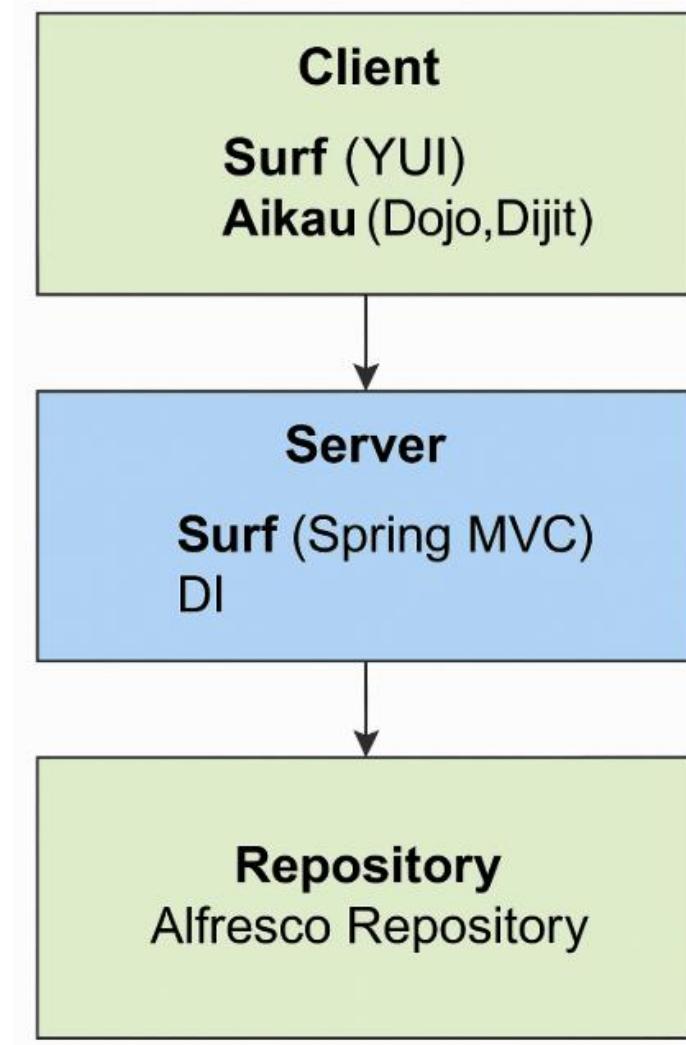


Alfresco Limitations:

- Though alfresco meets most of the requirements there are few limitations of this ECM as per different users.
 - The system lacks backup capabilities.
 - Its support system needs improvement in Live chat and FAQ sections.
 - Few of the UI features can be automated and provide better user experience.
 - Enrichment of current content is not so easy, have to reload the content.
 - No support for XQuery.
 - Content transformation is absent.

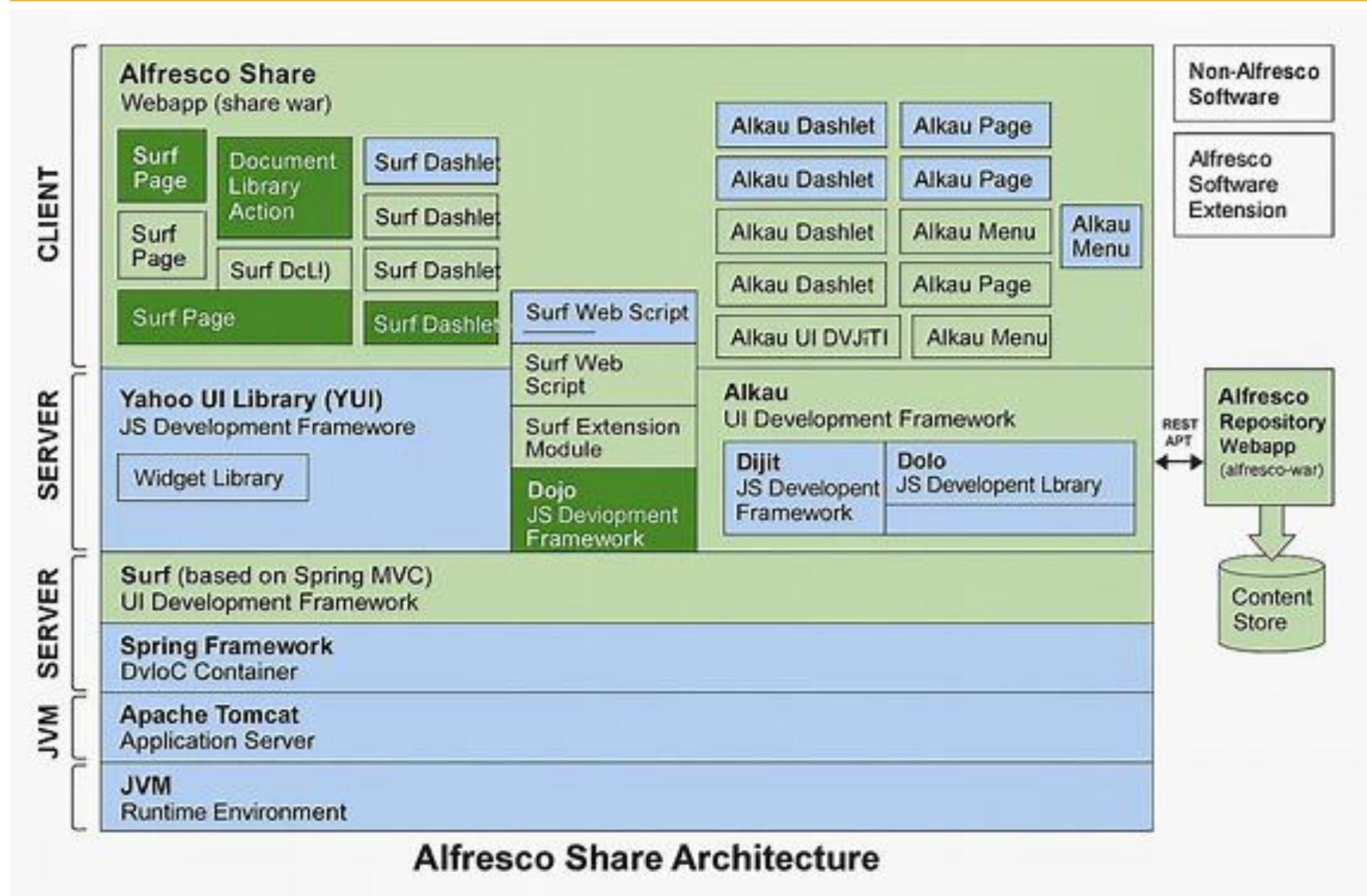


The Alfresco Share architecture





The Alfresco Share architecture





CLIENT Layer – User Interface Components

-  Client Side (Browser)
- This layer handles the **presentation and interaction logic.**
- **1. Alfresco Share Webapp (share.war)**
- This is the main front-end application containing:
- **Surf Pages** – Define page layouts and navigation.
- **Dashlets** – Mini widgets displayed in user dashboards.
- **Web Scripts** – REST endpoints returning HTML, XML, or JSON.
- **Document Library Actions** – UI components for managing files and folders.



CLIENT Layer – User Interface Components

- **2. Frameworks Used**
- **YUI (Yahoo UI Library):**
 - Legacy JavaScript framework for early UI components.
 - Provides widget libraries and client-side interactivity.
- **Aikau:**
 - Modern replacement for YUI.
 - Built on **Dojo** and **Dijit**, offering modular, AMD-based JavaScript widgets.
 - Components include:
 - *Aikau Page* (full view)
 - *Aikau Dashlet* (dashboard widgets)
 - *Aikau Menu* (navigation menus)



Server Side (Backend)

-  Handles the **application logic, web scripts, and integration**.
- **1. Surf Framework (Spring MVC-based)**
- Provides the **UI Development Framework**.
- Supports the concept of “web scripts” (controller + template pairs).
- Integrates with Spring for dependency injection and configuration.
- **2. Spring Framework**
- Acts as a **Dependency Injection (DI) and Inversion of Control (IoC)** container.
- Manages lifecycle of Surf components and configuration.



Server Side (Backend)

- **3. Apache Tomcat**
- The **application server** hosting share.war and alfresco.war.
- **4. JVM**
- The **Java Virtual Machine** executes all Alfresco server-side logic.



Repository Layer

- **Alfresco Repository Webapp (`alfresco.war`):**
- Provides REST APIs for Share to access content, metadata, and workflows.
- Connects to the **Content Store** (file storage system).



Integration and Extension

- **Alfresco OOTB (Out-Of-The-Box) components –** Standard modules like document library and site dashboard.
- **Extension Points –** For custom UI pages, dashlets, and backend web scripts.
- **Non-Alfresco Software –** Third-party tools integrated via APIs or extensions.



Summary

Layer	Component	Responsibility
Client (Browser)	Surf, Aikau, YUI, Dojo/Dijit	Rendering UI, user interaction
Server (App)	Surf MVC, Spring Framework	Processing UI requests, serving content
Repository	alfresco.war	Data access and storage
Platform	Tomcat + JVM	Execution environment



Minimum Configuration Requirements

Component	Minimum Requirement
Operating System	Windows Server 2019+, RHEL/CentOS 8+, Ubuntu 20.04+
Java Runtime Environment (JVM)	Java 11 or 17 (OpenJDK or Oracle JDK)
Application Server	Apache Tomcat 9.0+
RAM	Minimum 8 GB (Recommended: 12–16 GB)
CPU	Minimum 4 cores (Recommended: 8 cores for production)
Disk Space	Minimum 20 GB (Recommended: 100 GB+)
Database	PostgreSQL 13+, MySQL 8.0+, or MariaDB 10.5+
Browser Support	Chrome (latest), Firefox (latest), Edge (latest), Safari (latest)



Repository & Content Storage



Component	Requirement
Repository WAR (alfresco.war)	Must be deployed in the same Tomcat instance as Share or a separate one if scaling
Content Store	Local or mounted network storage with at least 10 GB free space (expandable)
Search Index (Solr/Elasticsearch)	At least 2 GB RAM dedicated
Ports	Default: 8080 (Tomcat), 8443 (HTTPS), 8983 (Solr)



Network and Connectivity

Requirement	Details
REST API Access	Must be open between Share and Repository
SMTP	Required for email notifications
LDAP / SSO (optional)	For authentication integration with AD or Keycloak
HTTPS (SSL)	Recommended for production security

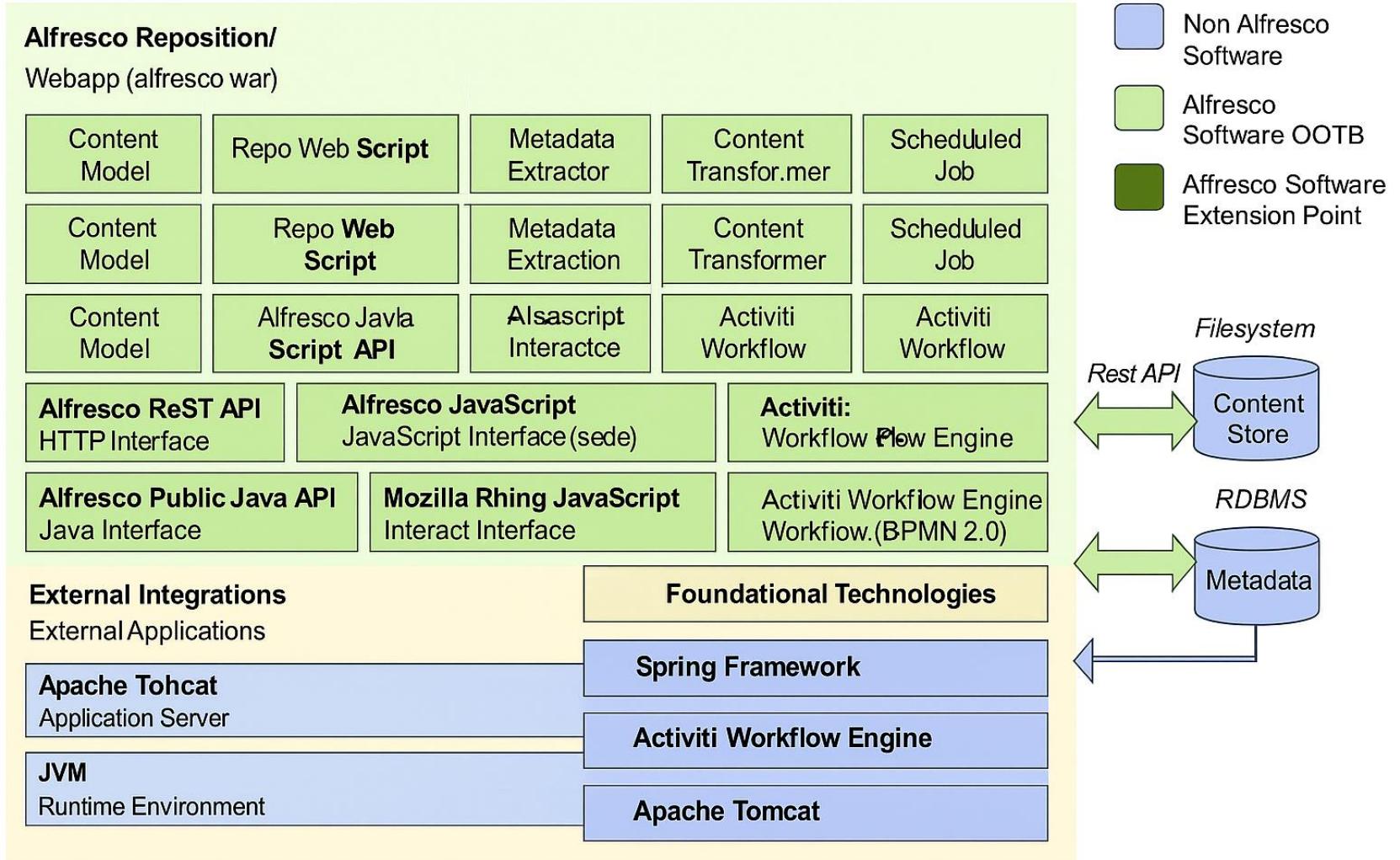


Software Dependencies

Dependency	Minimum Version
Spring Framework	5.3.x or later
Surf Framework	Included with Alfresco Share
Aikau (UI Framework)	Bundled version (usually latest Dojo/Dijit supported)
Dojo/Dijit	As provided with the bundled Aikau release

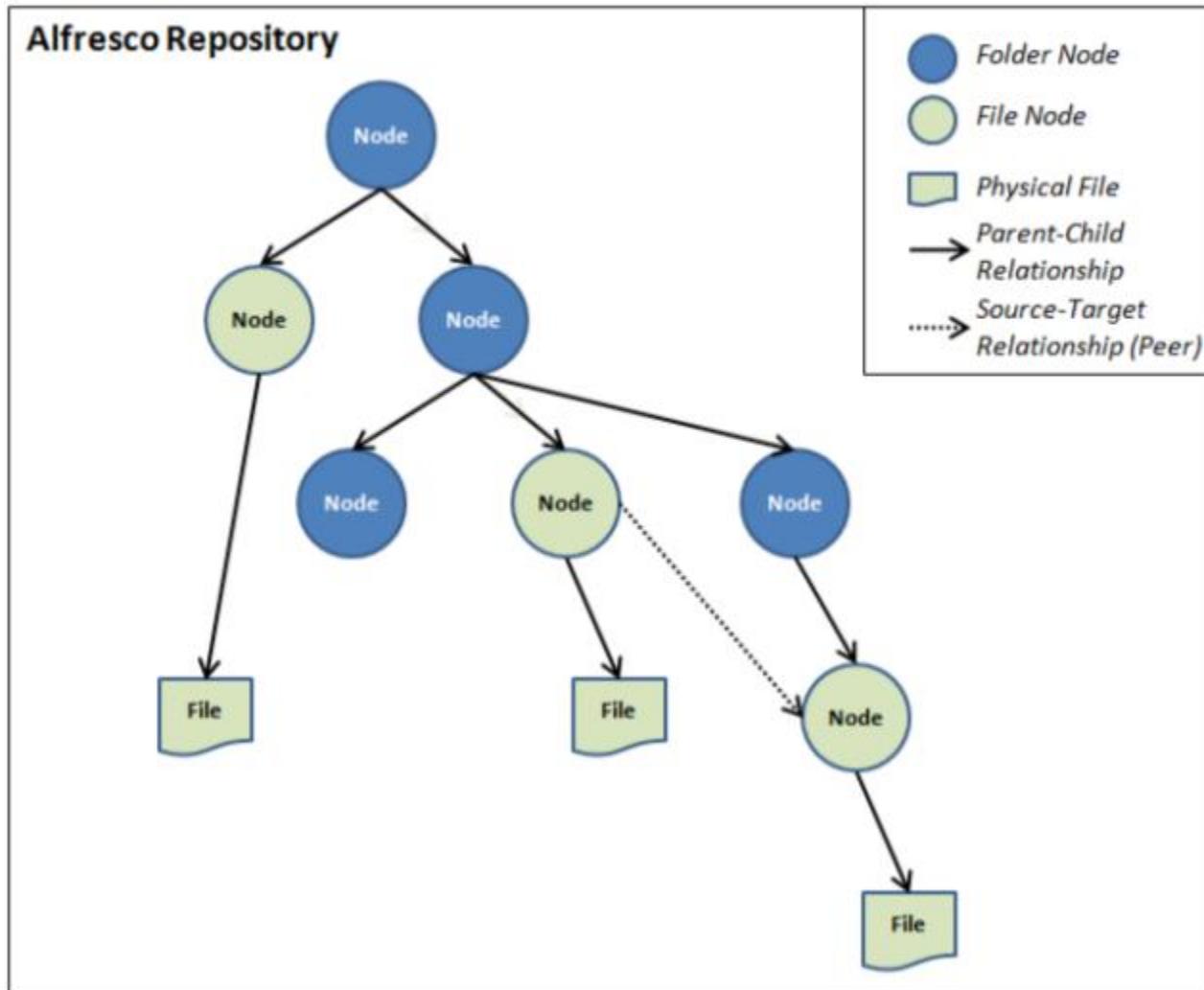


Alfresco Repository Architecture





Alfresco Repository Concepts





Key Repository Components

Component	Description
Content Model	Defines document types, aspects, and metadata structure.
Policies	Business rules triggered by repository events (e.g., onCreate, onUpdate).
Repo Web Scripts	REST endpoints implemented as JavaScript/FreeMarker scripts.
Repo Actions	Predefined operations like move, copy, transform, or delete.
Metadata Extractor	Extracts metadata (e.g., author, title) from uploaded documents.
Content Transformer	Converts files between formats (e.g., DOCX → PDF).
Scheduled Jobs	Background tasks for indexing, cleanup, or workflow automation.
Activiti Workflow	Manages BPMN 2.0-based workflows for business processes.



APIs and Interfaces

API / Engine	Role
Alfresco REST API	Standard HTTP interface for CRUD operations on nodes, metadata, and sites.
Alfresco CMIS API	Industry-standard interface for content management interoperability.
Alfresco JavaScript API	Server-side scripting API, using Mozilla Rhino JS Engine for logic execution.
Alfresco Public Java API	Java-based interface for custom extensions and integrations.



Framework and Infrastructure



Layer	Function
Spring Framework	Dependency Injection and configuration container for all repository services.
Activiti Workflow Engine	Executes workflow definitions (BPMN 2.0 compliant).
Apache Tomcat	Hosts the repository web application.
JVM	Executes Java-based components.



External Integrations



Integration	Description
Alfresco Share (share.war)	Front-end user interface connecting via REST API.
Apache Solr (solr4.war)	Search service for indexing and querying repository data.
Content Store	File system location where actual binary content is stored.
RDBMS	Database (PostgreSQL/MySQL) that stores metadata, user info, and audit logs.



Alfresco Repository Overview

- The **Alfresco Repository** (packaged as alfresco.war) is the **core backend** of the Alfresco platform.
It manages:
 - **Content** (files and folders)
 - **Metadata**
 - **Security (permissions, roles)**
 - **Versioning**
 - **Workflows**
 - **APIs (REST, CMIS, Java.)**
- It provides a **central content store** that can be accessed via the **Alfresco Share UI, custom applications, or integrations.**



2. Core Concepts



- **a. Node**
- A **node** is the fundamental data structure in Alfresco.
- Everything — documents, folders, users, rules — is represented as a node.
- Each node has:
 - A **unique NodeRef** (Node Reference)
 - **Properties** (metadata)
 - **Aspects** (extra behavior)
 - **Associations** (links to other nodes)



2. Core Concepts



- **b. Content Store**
- The **file system storage** where actual binary content (files, images, etc.) is saved.
- Alfresco stores:
 - Metadata in the **RDBMS**
 - Binary files in the **Content Store** (on disk)
- File contents are stored as **content URLs (content://...)** with deduplication and versioning.



2. Core Concepts



- **d. Content Model**
- Defines the **structure and behavior** of content in the repository.

Concept	Description
Type	Defines a base entity, e.g., cm:content, cm:folder.
Aspect	Adds extra properties or behavior dynamically (e.g., versionable, auditable).
Property	Metadata fields (e.g., title, author, createdDate).
Association	Links between nodes (e.g., document linked to author).



3. Services in the Repository



Service	Description
Node Service	Creates, updates, and deletes nodes.
Content Service	Manages binary streams in the content store.
Search Service	Interfaces with Solr for full-text and metadata searches.
Version Service	Handles document versioning.
Lock Service	Prevents concurrent modifications.
Permission Service	Manages ACLs and user roles.
Action Service	Executes automatic actions (e.g., transformations).
Workflow Service	Executes business processes (Activiti/BPMN 2.0).



4. Workflows

- Managed by the **Activiti Workflow Engine**.
- Define business processes like document approval or review.
- Written in **BPMN 2.0 XML** format.
- Can trigger policies, scripts, or actions.



5. APIs and Interfaces

API	Description
REST API	For CRUD operations on nodes, sites, and content.
CMIS API	Standardized API for enterprise content systems.
JavaScript API	Server-side scripting via Mozilla Rhino.
Java API	Programmatic integration for custom extensions.



6. Policies and Behaviors

- Define **rules** triggered by repository events.
- Example: When a document is added → run metadata extraction or move to a folder.
- Implemented using:
 - **Policies** – define the “when” (onCreate, onDelete).
 - **Behaviors** – define the “what” (custom logic to execute).



7. Transformers and Extractors

Component	Purpose
Content Transformer	Converts files (e.g., DOCX → PDF).
Metadata Extractor	Reads metadata from file headers (e.g., EXIF, Office properties).



8. Scheduled Jobs

- Automate periodic tasks like:
 - Index maintenance
 - Temporary file cleanup
 - Audit data processing



🔍 9. Indexing and Search

- Uses **Apache Solr** (via REST API).
- Indexed data includes:
 - Node properties
 - Content text (full-text search)
 - Access control information

10. External Integrations

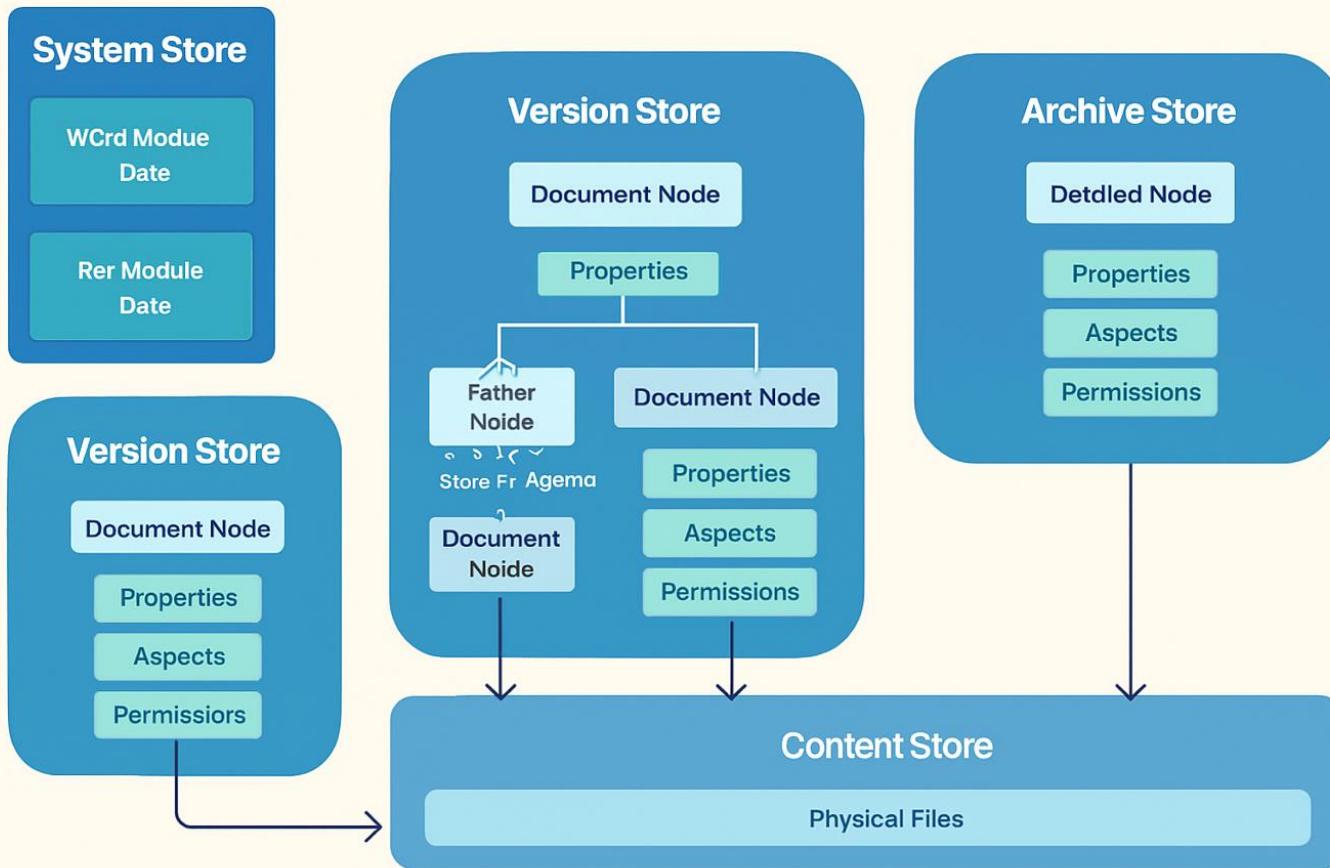


-
- Alfresco Share – UI that communicates with the repository.
 - **Solr** – Search and indexing engine.
 - **RDBMS** – Stores metadata.
 - **File System** – Stores binary content.
 - **LDAP / SSO / Keycloak** – Authentication integration.



Alfresco Repository Store View

Alfresco Repository





2. Key Repository Stores



- 🧠 **System Store**
- Holds **internal configuration data** and module-specific information.
- Examples:
 - **WCM Module Data** → for Web Content Management
 - **RM Module Data** → for Records Management
- Not visible to end users and not used for document storage.



2. Key Repository Stores



- **Version Store**
- Stores **previous versions** of documents when versioning is enabled.
- Each version creates a **Document Node** with its own:
 - **Properties** (metadata values)
 - **Aspects** (extra features like versionable/auditable)
 - **Permissions** (security access control)
- Maintains **version lineage** (e.g., 1.0 → 1.1 → 2.0).
- Each document node references a **physical file** in the **Content Store**.



2. Key Repository Stores



- **Working Store (Not explicitly shown in this version)**
- The **active workspace** where live documents reside during use.
- Links to the **Content Store** for actual binary files.
- When versioning is turned on, copies metadata to the **Version Store**.



2. Key Repository Stores



- 🗑️ **Archive Store**
- Stores **deleted nodes** for recovery or audit purposes.
- Metadata (properties, aspects, permissions) is retained until permanent deletion.
- Enables “**undelete**” or administrative restoration.



2. Key Repository Stores



- **Content Store**
- The **file system** where actual document binaries are stored.
- Each file is referenced by a **content URL** (e.g., `content://store/yyyy/mm/dd/...`).
- Versioned and deleted files remain stored here until cleanup jobs remove orphaned binaries.

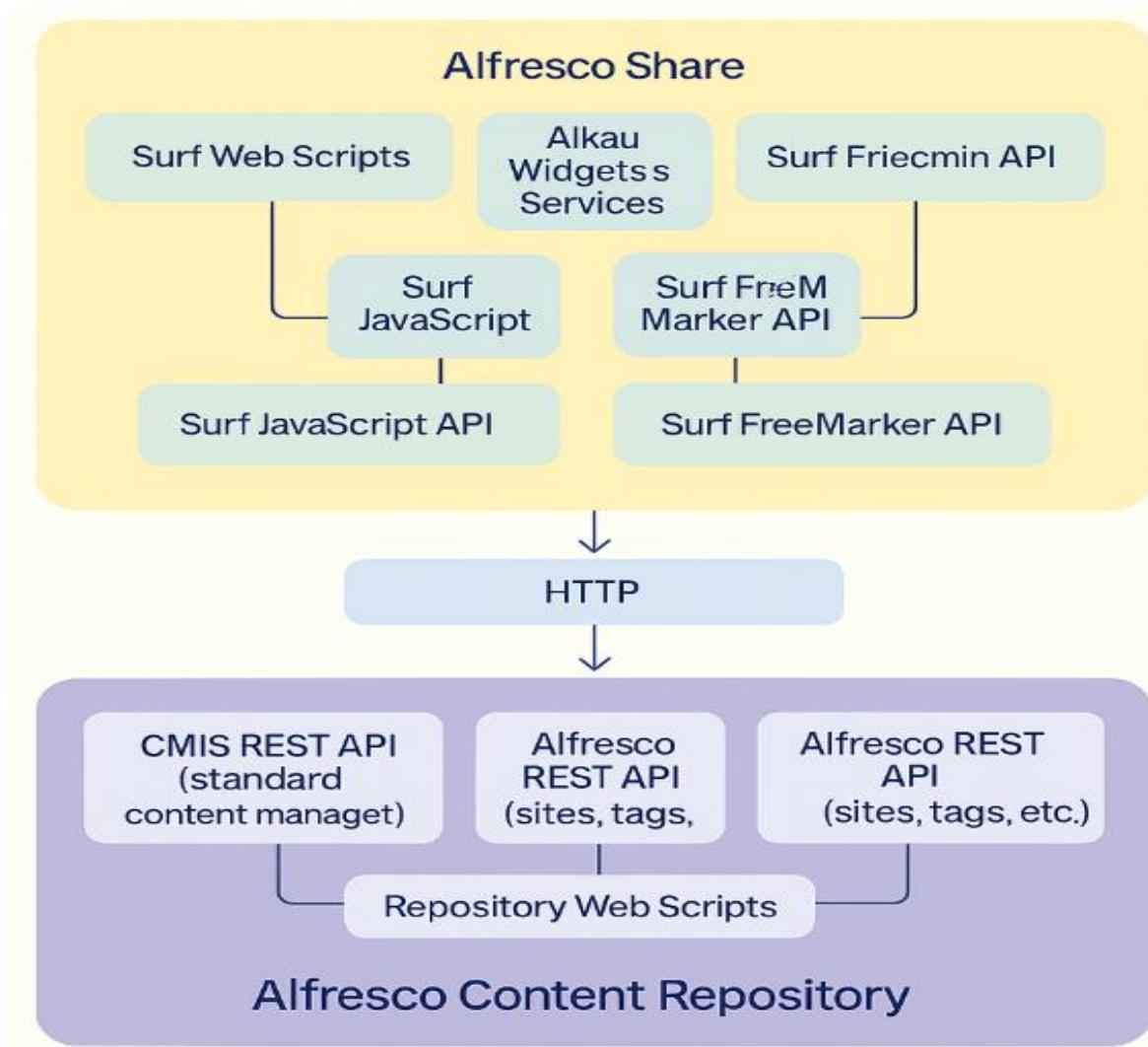


3. Data Flow Summary

Action	Movement
Document Created	Metadata → Working Store; File → Content Store
Version Created	Metadata copy → Version Store; New binary → Content Store
Document Deleted	Metadata → Archive Store; Binary reference stays in Content Store
System Data	Stored separately in System Store



Alfresco API Architecture





◆ 1. Core API Layers

• A. Public REST APIs

- These are modern **HTTP/JSON-based** endpoints, often prefixed with:
- /alfresco/api/-default-/public/alfresco/versions/1
-  **Features:**
 - CRUD operations on content and metadata
 - Folder and file management
 - Permissions and access control
 - Search, tags, ratings, comments
 - Workflow initiation and status tracking



◆ 1. Core API Layers

-  **Example:**
 - GET /alfresco/api/-default-/public/alfresco/versions/1/nodes/{nodeId}
- → Returns metadata and content info for a document.
-  **Components:**
 - Built on **Spring Web MVC** (Java)
 - Backed by the **Alfresco Repository Services**
 - Follows **REST resource principles**
 - Includes **OpenAPI/Swagger** documentation

B. CMIS (Content Management Interoperability Services) API



- A **standard protocol** defined by **OASIS**, allowing interoperability between different CMS systems.

Type	Description
AtomPub Binding	XML-based HTTP interface
Browser Binding	JSON-over-HTTP interface
Web Services Binding	SOAP-based (legacy support)

CMIS Features:

- Repository-independent API for content
- Supports folder navigation, document CRUD, versioning
- Works with clients like Apache Chemistry OpenCMIS

Example:

GET /alfresco/api/-default-/public/cmis/versions/1.1/browser/root



C. Web Scripts Framework

- The **backbone of Alfresco extensibility**.
-  **Definition:**
- A **Web Script** is a lightweight HTTP endpoint defined by:
 - A **controller script (*.js)**
 - An **optional FreeMarker template (*.ftl)**
 - A **descriptor XML** defining method, URL, and format.

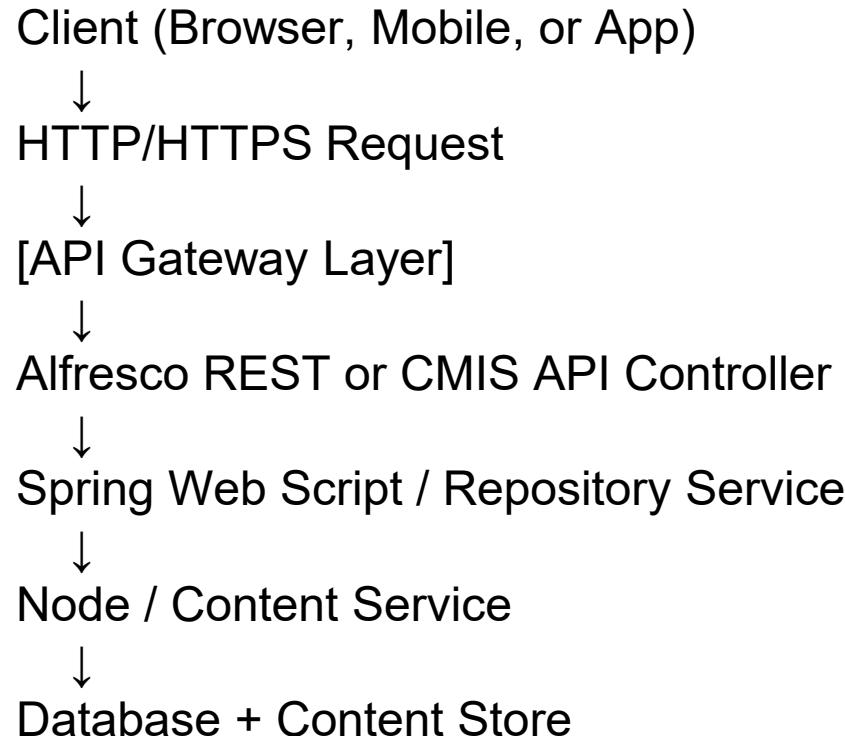


C. Web Scripts Framework

- <webscript>
- <shortname>List Nodes</shortname>
- <url>/sample/list</url>
- <format default="json" />
- <authentication>user</authentication>
- </webscript>
-  **Benefits:**
 - Quick to develop & deploy
 - Can return **HTML, JSON, XML, or binary**
 - Perfect for **custom APIs and integrations**



2. API Processing Flow





3. Repository Service Layer



Service	Purpose
NodeService	Handles creation/deletion of nodes.
ContentService	Manages binary streams.
SearchService	Integrates with Solr for queries.
VersionService	Manages document versioning.
PermissionService	Controls user access.
ActionService	Executes rules or automated actions.
WorkflowService	Integrates with Activiti for BPM.



4. Authentication and Security



Mechanism	Description
Basic Auth	For legacy systems (username/password).
OAuth2 / Keycloak	For secure, token-based authentication.
CSRF Protection	Enabled for Share and REST APIs.
SSL/TLS	Recommended for all API calls.



5. Extension Points



- Developers can extend Alfresco APIs in multiple ways:
- Add new **Web Scripts**
- Extend existing **Java Services**
- Create **custom REST controllers** under /api/
- Register **behaviors and policies** that trigger on content events



6. Integration Options

Integration	Description
Alfresco Share	Uses Surf and Aikau layers that internally consume REST and Web Scripts.
Mobile SDKs	Android/iOS SDKs wrap the Public REST APIs.
3rd-Party Tools	Power BI, BPM tools, and ECM integrations via CMIS.
Custom Apps	Can directly consume Alfresco REST endpoints or custom Web Scripts.



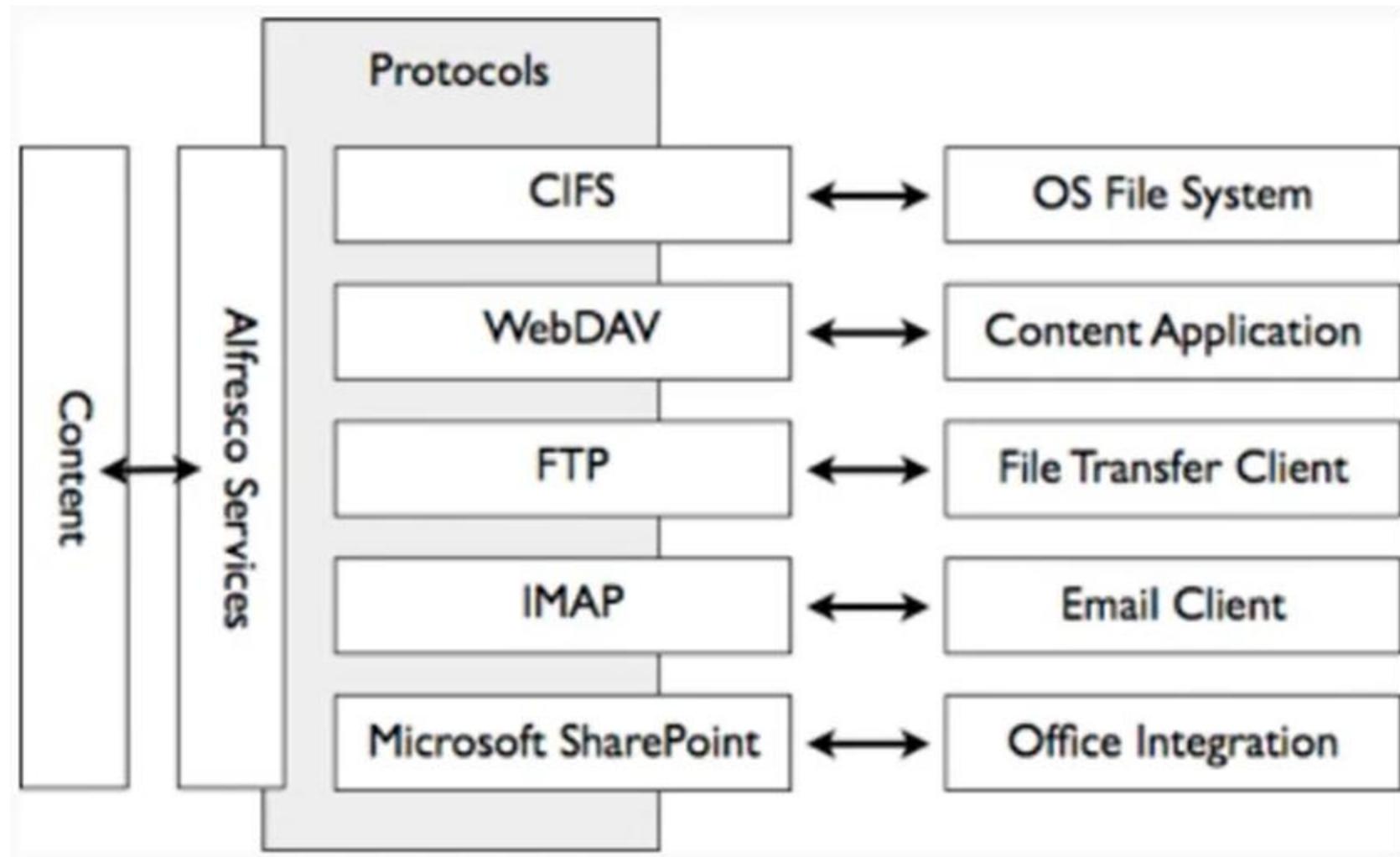
7. API Layer Stack Summary



Layer	Technology	Description
UI Layer	Surf, Aikau, Dojo	Front-end (Share)
REST Layer	Spring MVC	Exposes content operations
CMIS Layer	OASIS Standard	Interoperability interface
Web Script Layer	JavaScript + FreeMarker	Custom endpoint framework
Repository Service Layer	Spring Beans	Node, Content, Workflow, Versioning
Persistence Layer	DB + File Store	Stores metadata and content



Alfresco Protocols (Addition to HTTP)





Protocols and Their Integrations

Protocol	Purpose	Typical Client / Integration	Description
CIFS (Common Internet File System)	File system access	OS File System (Windows/Mac/Linux)	Allows Alfresco to appear as a shared network drive. Users can drag and drop files as if they were working with a local folder.
WebDAV (Web Distributed Authoring and Versioning)	Web-based content editing	Content Applications (e.g., Adobe, Dreamweaver)	Enables remote users to manage files over HTTP using standard WebDAV clients; useful for collaborative editing.
FTP (File Transfer Protocol)	File transfer	File Transfer Clients (e.g., FileZilla, WinSCP)	Provides traditional FTP access for uploading and downloading content from Alfresco repositories.



Protocols and Their Integrations

Protocol	Purpose	Typical Client / Integration	Description
IMAP (Internet Message Access Protocol)	Email access	Email Clients (e.g., Outlook, Thunderbird)	Let's users access Alfresco content as if it were an email folder, making it easier to save and retrieve attachments.
Microsoft SharePoint Protocol	Office integration	Microsoft Office Suite	Allows seamless integration with MS Office applications (Word, Excel, PowerPoint) — check-in/check-out, version control, etc.



3. Installation Options



- **<https://www.hyland.com/en/resources/alfresco-trial#content>**

Try Alfresco Content Services



**Download Alfresco Content Services
30-day free trial**

Get your free trial of our Docker-based,
open-source solution.

[Download now](#)



**Activate Alfresco Content Services 14-day
free online trial**

Receive your activation email in five
minutes and get started on any device.

[Launch](#)



**Try Alfresco Content Services
Community now**

Deploy the free and open source
edition of ACS.

[Download now](#)



3. Installation Options



- **<https://www.hyland.com/en/resources/alfresco-trial#content>**

Try Alfresco Content Services

Start your 30-day trial of Alfresco Content Services, a flexible, highly scalable enterprise content management system.

[Share](#)

If you are a developer and want to install and configure Alfresco Content Services locally, this trial gives you the flexibility to:

- Try the advanced features of Alfresco Content Services Enterprise
- Develop and test additional components
- Try integration extensions, Alfresco platform customizations and

Alfresco Content Services 30-day free trial

First Name: *

Last Name: *

Email Address (must be work address): *



3. Installation Options

The screenshot shows a Microsoft Teams interface. On the left, there's a sidebar with a search bar and various icons. Below it is a list of messages:

- Today**
 - The Alfresco Team: Start Your Alfresco Tria... 7:37 PM
- P parameswaribala@gmail.co...** Requirement for techni... 6:58 PM
PFA On Thu, Oct 23, 2025 at 2:59 ...
Node JS Trainin... +1
- Yesterday**
 - G Google Cloud Fundamentals: Co... Hello...? Google C... Wed 2:09 AM
Hi Parameswari Bala, just a quick ...
- This week**
 - O Opsgenie

On the right, a promotional message for Alfresco is displayed:

Start Your Alfresco Trial Now [Summarize](#)

Alfresco 30 Day Trial

You are only a few steps away from trying Alfresco Content Services using Docker:

- [Install](#) Docker and start it
- Download the Alfresco [docker-compose](#) file
- Follow the detailed instructions below

[Download Docker Compose yml file](#)

Installation Instructions

Open a command prompt or terminal window.



3. Installation Options

Installation Instructions

- Open a command prompt or terminal window
- Navigate to the folder where you saved the docker-compose.yml file
- Issue the following three commands:

```
docker login quay.io -u="alfresco+acs_v6_trial"
```

Enter the following password when prompted (Copy and Paste):

XVQWI167IGBPDNJU3ANO6J1V5BP01YQO41KQN4Z890AERGF7WW6VVQVI3DQ1U1X0

```
docker-compose up
```

- Your default username/password is: **admin/admin**

Docker-compose up -d



3. Installation Options

```
c:\ Administrator: Command Prompt - docker-compose up -d

E:\alfresco\23102025>docker login quay.io -u="alfresco+acs_v6_trial"
Password:

Login Succeeded

E:\alfresco\23102025>docker-compose up -d
[+] Running 0/16
 - digital-workspace Pulling
 - shared-file-store Pulling
 - sync-service Pulling
 - activemq Pulling
 - postgres Pulling
 - audit-storage Pulling
 - transform-core-aio Pulling
 - proxy Pulling
 - share Pulling
 - alfresco Pulling
 - elasticsearch Pulling
 - search-reindexing Pulling
 - kibana Pulling
 - transform-router Pulling
 - control-center Pulling
 - search Pulling
```



3. Installation Options

```
c:\ Administrator: Command Prompt
r-compose-sync-service-1
2efcaa2034ce quay.io/alfresco/alfresco-share:25.2.0           "/usr/local/tomcat/s..."  5 minutes ago Up 2 minutes (healthy)      8000/tcp, 8080/tcp
docke
r-compose-share-1
a499d3697404 quay.io/alfresco/alfresco-elasticsearch-reindexing:5.1.1   "/bin/sh -c 'exec ja..."  5 minutes ago Exited (0) About a minute ago
docke
r-compose-search-reindexing-1
3e4394033f65 quay.io/alfresco/alfresco-transform-core-aio:5.2.0
, [:]:8090->8090/tcp
"/docker-entrypoint..."  5 minutes ago Up 4 minutes (healthy)      0.0.0.0:8090->8090/tcp
docke
r-compose-transform-core-aio-1
ad28b1ab95d6 quay.io/alfresco/alfresco-transform-router:4.2.0
, [:]:8095->8095/tcp
"/bin/sh -c 'java ${..."  5 minutes ago Up 4 minutes (healthy)      0.0.0.0:8095->8095/tcp
docke
r-compose-transform-router-1
55a3e15b1741 kibana:7.17.26
, [:]:5601->5601/tcp
"/bin/tini -- /usr/l..."  5 minutes ago Up 3 minutes (healthy)      0.0.0.0:5601->5601/tcp
docke
r-compose-kibana-1
5c9931f30ae1 quay.io/alfresco/alfresco-audit-storage:1.1.0
"/bin/sh -c 'java ${..."  5 minutes ago Up 3 minutes (healthy)      8080/tcp, 8443/tcp
docke
r-compose-audit-storage-1
15a4d6a63d0c quay.io/alfresco/alfresco-content-repository:25.2.0
001/tcp
"catalina.sh run -se..."  5 minutes ago Up 4 minutes (healthy)      8000/tcp, 8080/tcp, 10
docke
r-compose-alfresco-1
f4d77c678b5 quay.io/alfresco/alfresco-shared-file-store:4.2.0
, [:]:8099->8099/tcp
"/bin/sh -c 'java $J..."  5 minutes ago Up 4 minutes (healthy)      0.0.0.0:8099->8099/tcp
docke
r-compose-shared-file-store-1
0683da7f9a8b postgres:16.5
, [:]:5432->5432/tcp
"docker-entrypoint.s..."  5 minutes ago Up 4 minutes (healthy)      0.0.0.0:5432->5432/tcp
docke
r-compose-postgres-1
5b1f816ae7ac quay.io/alfresco/alfresco-control-center:10.0.1
"/docker-entrypoint..."  5 minutes ago Up 4 minutes (healthy)      8080/tcp
docke
r-compose-control-center-1
a44b052a43df quay.io/alfresco/alfresco-activemq:5.18-jre17-rockylinux8
, [:]:5672->5672/tcp, 0.0.0.0:8161->8161/tcp, [:]:8161->8161/tcp, 0.0.0.0:61613->61613/tcp, [:]:61613->61613/tcp, 0.0.0.0:61616->61616/tcp, [:]:61616->61616/tcp
"/bin/sh -c './init....'"  5 minutes ago Up 4 minutes (healthy)      0.0.0.0:5672->5672/tcp
docke
r-compose-activemq-1
45bb76aa1138 traefik:3.1
, [:]:8080->8080/tcp, 0.0.0.0:8888->8888/tcp, [:]:8888->8888/tcp
"/entrypoint.sh --ap..."  5 minutes ago Up 4 minutes (healthy)      0.0.0.0:8080->8080/tcp
docke
r-compose-proxy-1
56e4c5622b30 quay.io/alfresco/alfresco-digital-workspace:7.0.1
"/docker-entrypoint..."  5 minutes ago Up 4 minutes (healthy)      8080/tcp
docke
r-compose-digital-workspace-1
df27b77ba8f3 elasticsearch:8.17.3
, [:]:9200->9200/tcp, 0.0.0.0:9300->9300/tcp, [:]:9300->9300/tcp
"/bin/tini -- /usr/l..."  5 minutes ago Up 4 minutes (healthy)      0.0.0.0:9200->9200/tcp
docke
r-compose-elasticsearch-1

E:\alfresco\23102025>
```



19:54
ENG IN
23-10-2025



3. Installation Options

- **Verify startup:**
 - Repository: <http://localhost:8080/alfresco>
 - Share: <http://localhost:8080/share>
 - ES: <http://localhost:9200>
 - DB: PostgreSQL running on port 5432
- **Default login:**
- Username: admin
- Password: admin



3. Installation Options

-  Containers created:
 - alfresco (repository)
 - share (web client)
 - postgres (database)
 - Elastic Search(replaced by solr)
 - transform-core-aio (transform service)
 - activemq (message broker)



3. Installation Options

Component	Purpose	Replaces
alfresco-elasticsearch-live-indexing	Real-time indexing of repository content	ES indexer
elasticsearch	Search & analytics engine	ES search core
alfresco-elasticsearch-reindexing	One-off or scheduled reindexing jobs	ES reindex core
kibana	Search diagnostics UI	ES Admin console



3. Installation Options

ⓘ localhost:8080/alfresco/



Enterprise - 25.2.0 (r5e3fd217-blocal)

[Online Documentation](#)

[Alfresco Share](#)

[Alfresco WebDav](#)

[Alfresco WebScripts Home \(admin only - INTERNAL\)](#)

[Alfresco API Explorer](#)

[Alfresco Administration Console \(admin only\)](#)

[Alfresco Support](#)

[CMIS 1.0 AtomPub Service Document](#)

[CMIS 1.0 Web Services WSDL Document](#)

[CMIS 1.1 AtomPub Service Document](#)

[CMIS 1.1 Browser Binding URL](#)



Alfresco Subsystems

- A **Subsystem** in Alfresco is a self-contained component that provides a specific service (like authentication, email, file servers, etc.).
- It can be independently configured, started, or stopped.
Subsystems make it easier to customize and maintain different parts of Alfresco without changing global configurations.



Alfresco Subsystems

- **◆ Key Characteristics**
- Each subsystem has **its own configuration space**.
- You can create multiple **instances** of the same subsystem type (e.g., multiple authentication chains).
- They can be **hot-reloaded** — configuration changes can take effect without restarting the whole repository.
- Configurations can be managed via the **Admin Console (JMX)** or configuration files.



◆ Common Types of Subsystems

Subsystem Type	Description
Authentication	Defines how users authenticate (LDAP, Kerberos, AlfrescoNtlm, passthru, etc.). Supports multiple authentication chains.
File Servers	Provides CIFS/FTP/SMB access to Alfresco repository content.
Email	Handles inbound (IMAP) and outbound (SMTP) email integration.
Synchronization (LDAP Sync)	Syncs user/group data from external directory servers.
Search	Manages search engines (Solr, Lucene). Each Solr core is a subsystem.
Transformers	Handles content transformations (e.g., converting Office → PDF, image resize).
Activities Feed	Manages the activity and feed generation subsystem.
Replication	Controls replication of content between repositories.
Audit	Provides auditing and logging configuration.



Subsystem Configuration Location

- **◆ Subsystem Configuration Location**
- Subsystems are configured under the alfresco/subsystems directory in alfresco-global.properties or classpath configuration.

```
alfresco/
└ subsystems/
    └ Authentication/
        └ ldap/
        └ alfrescoNtLm/
    └ FileServers/
        └ default/
    └ IMAP/
        └ default/
```



Subsystem Configuration Location

Alfresco System Summary

System Summary	
Consoles	Google Docs Console
	Model and Messages Console
	Tenant Console
	Workflow Console
Email Services	Inbound Email
	Outbound Email
General	License
	Repository Information
	System Settings
Repository Services	Activities Feed
	Repository Server Clustering
	Search Service Sharding
	Process Engines
	Query Accelerator
	Replication Service
	Search Service

System Information

Alfresco Content Services Home:	Operating System: Linux
Alfresco Content Services Edition:	Version: 5.15.167.4-microsoft-standard-WSL2
Alfresco Content Services Version:	Architecture: amd64
Java Home: /usr/lib/jvm/java-17-openjdk-17.0.15.0.6-2.e19.x86_64	Free Memory (GB): 0.2
Java Version: 17.0.15	Maximum Memory (GB): 1.48
Java VM Vendor: Red Hat, Inc.	Total Memory (GB): 0.56
	CPUs: 12

File Systems

FTP: (disabled)	Enabled
WebDAV: (enabled)	Enabled

Indexing Subsystem

Solr 6: (disabled)	Disabled
Elasticsearch: (enabled)	Enabled
No Index: (disabled)	Disabled

Repository Clustering

Clustering: (enabled)	Enabled
--	---------

Email

Inbound: (disabled)	Disabled
IMAP: (disabled)	Disabled

Auditing Services

Audit: (enabled)	Enabled
CMIS Change Log: (disabled)	Disabled
Access: (disabled)	Disabled
Tagging: (enabled)	Enabled

Sync: Information is currently unavailable



◆ Subsystem Lifecycle

- Each subsystem supports:
- **Initialization** – Loads configuration.
- **Start** – Activates the component (e.g., starts IMAP server).
- **Stop/Shutdown** – Gracefully stops services.
- **Reload** – Applies new configuration without full server restart.



Alfresco Customization

- Customization means modifying Alfresco to meet your organization's business and technical needs — such as:
 - Adding custom metadata fields and content models
 - Changing workflows or approval processes
 - Integrating with external systems (ERP, CRM, mail servers, etc.)
 - Customizing the Share user interface or repository behavior
 - Extending REST APIs or adding new ones



2. Levels of Customization

Level	Customization Type	Description
Configuration	Simplest form	Modify property files (e.g., alfresco-global.properties) or XML files to configure behavior (ports, authentication, email, indexing, etc.).
Modeling	Metadata & types	Define new content types , aspects , and metadata using content model XML files.
Business Logic	Repository extensions	Add custom Java classes, behaviors, policies, and actions that extend repository logic.
Workflow	Process automation	Use BPMN-based Activiti/Flowable workflows to model document approval, review, or publishing processes.
UI Customization	Share or ADF front-end	Modify the Alfresco Share interface using Surf extensions or build modern UIs using the Alfresco Application Development Framework (ADF) (Angular/React).
Integration & APIs	REST/CMIS/GraphQL	Extend REST APIs or integrate with third-party systems using CMIS, REST, or custom web scripts.
Subsystem Extension	Deep customization	Create or override subsystems (Authentication, Search, Audit, etc.) for advanced needs.



Customize Dashboard

Dashboard	Description
User Dashboard	Appears when a user logs in; customizable per user.
Site Dashboard	Shown for each Share site (Project, Team, etc.).
Custom / Global Dashboard	Created by admins or developers with predefined dashlets and layout.



Alfresco Global Properties

- **What is alfresco-global.properties**
- This is the central properties file where you configure global settings for ACS (repository, indexing, clustering, content stores, etc.).
- It uses standard Java properties format (key = value) and is typically placed under the <classpathRoot> (for example shared/classes/ in a Tomcat installation).
- A sample file alfresco-global.properties.sample is typically included with the installation. You copy/ rename it to remove the .sample extension to activate it.
- When ACS starts up, it uses this file to initialize various subsystem settings. However:
 - Once configured via the Admin Console or via JMX in the database, those settings may override what's in this file.
 - If you edit the file, you'll typically need to restart ACS for changes to take effect (unless a subsystem supports dynamic update)



Configuration Directories

Directory	Purpose / what lives there
shared/classes/ (e.g., <TOMCAT_HOME>/shared/classes/)	Location of the global properties file (alfresco-global.properties / sample). E.g., the docs say: for Tomcat browse to \$TOMCAT_HOME/shared/classes/.
shared/classes/alfresco/extension/	Place custom configuration overrides, modules, keystore dirs etc (for example: keystore under alfresco/extension/keystore).
tomcat/conf/	Standard Tomcat config directory (server.xml, catalina.properties etc). For custom Tomcat setups when ACS is bundled.
alf_data (or whatever dir.root is set to)	Root of content store + indexes + binary content. The dir.root property points here (in alfresco-global.properties).
<store>/contentstore etc (under dir.root)	Sub-directories for the content binaries, e.g., contentstore under dir.root.



Configuration Directories

```
C:\Windows\System32>docker exec -it c22b47626eee /bin/bash
[alfresco@c22b47626eee tomcat]$ ls
BUILDING.txt      LICENSE  README.md      RUNNING.txt  alfresco-mmt  bin    lib    native-jni-lib  temp      work
CONTRIBUTING.md   NOTICE   RELEASE-NOTES  alf_data     amps        conf   logs   shared           webapps
[alfresco@c22b47626eee tomcat]$ cd shared
[alfresco@c22b47626eee shared]$ ls
classes
[alfresco@c22b47626eee shared]$ cd classes
[alfresco@c22b47626eee classes]$ ls
alfresco  alfresco-global.properties
[alfresco@c22b47626eee classes]$ cd alfresco
[alfresco@c22b47626eee alfresco]$ ls
extension
[alfresco@c22b47626eee alfresco]$ cd extension
[alfresco@c22b47626eee extension]$ ls
dev-log4j2.properties  disable-webscript-caching-context.xml  keystore  mimetypes  transform
[alfresco@c22b47626eee extension]$ ■
```



Configuration Directories

```
c:\ @3baa3b4ca64c:/usr/local/tomcat/shared/classes/alfresco/web-extension
C:\Windows\System32>docker exec -it 3baa3b4ca64c bash
[root@3baa3b4ca64c tomcat]# ls
BUILDING.txt      NOTICE          RUNNING.txt    alfresco.log.2024-06-30  alfresco.log.2024-07-04  bin    logs           temp
CONTRIBUTING.md   README.md       alfresco-mmt  alfresco.log.2024-07-02  alfresco.log.2024-07-05  conf   native-jni-lib  webapps
LICENSE          RELEASE-NOTES  alfresco.log  alfresco.log.2024-07-03  amps_share           lib    shared         work
[root@3baa3b4ca64c tomcat]# cd shared
[root@3baa3b4ca64c shared]# ls
classes
[root@3baa3b4ca64c shared]# cd classes
[root@3baa3b4ca64c classes]# ls
alfresco
[root@3baa3b4ca64c classes]# cd alfresco
[root@3baa3b4ca64c alfresco]# ls
substituter.sh  web-extension
[root@3baa3b4ca64c alfresco]# cd web-extension
[root@3baa3b4ca64c web-extension]# ls
custom-slingshot-application-context.xml.sample  share-config-custom.xml  smartfolders-amp-actions-config.xml
[root@3baa3b4ca64c web-extension]# ■
```



Configuration Directories

```
C:\ @c22b47626eee:/usr/local/tomcat/webapps/alfresco/WEB-INF
exit

C:\Windows\System32>docker exec -it c22b47626eee /bin/bash
[alfresco@c22b47626eee tomcat]$ ls
BUILDING.txt      LICENSE  README.md      RUNNING.txt  alfresco-mmt  bin    lib    native-jni-lib  temp      work
CONTRIBUTING.md   NOTICE   RELEASE-NOTES  alf_data     amps        conf   logs   shared           webapps
[alfresco@c22b47626eee tomcat]$ cd webapps
[alfresco@c22b47626eee webapps]$ ls
ROOT _vti_bin alfresco api-explorer
[alfresco@c22b47626eee webapps]$ cd alfresco
[alfresco@c22b47626eee alfresco]$ ls
META-INF WEB-INF admin cmis-browser-app cmisfs css error.jsp favicon.ico images index.jsp scripts
[alfresco@c22b47626eee alfresco]$ cd WEB-INF
[alfresco@c22b47626eee WEB-INF]$ ls
classes cmis10 cmis11 lib licenses web-application-context.xml web.xml
[alfresco@c22b47626eee WEB-INF]$ cd ..
[alfresco@c22b47626eee alfresco]$ cd ..
[alfresco@c22b47626eee webapps]$ cd ..
[alfresco@c22b47626eee tomcat]$ ls
BUILDING.txt      LICENSE  README.md      RUNNING.txt  alfresco-mmt  bin    lib    native-jni-lib  temp      work
CONTRIBUTING.md   NOTICE   RELEASE-NOTES  alf_data     amps        conf   logs   shared           webapps
[alfresco@c22b47626eee tomcat]$ cd webapps
[alfresco@c22b47626eee webapps]$ ls
ROOT _vti_bin alfresco api-explorer
[alfresco@c22b47626eee webapps]$ cd alfresco
bash: cd: alfesco: No such file or directory
[alfresco@c22b47626eee webapps]$ cd alfresco
[alfresco@c22b47626eee alfresco]$ ls
META-INF WEB-INF admin cmis-browser-app cmisfs css error.jsp favicon.ico images index.jsp scripts
[alfresco@c22b47626eee alfresco]$ cd WEB-INF
[alfresco@c22b47626eee WEB-INF]$ ls
classes cmis10 cmis11 lib licenses web-application-context.xml web.xml
[alfresco@c22b47626eee WEB-INF]$ ■
```



Configuration Directories

```
C:\Windows\System32>docker exec -it c22b47626eee /bin/bash
[alfresco@c22b47626eee tomcat]$ ls
BUILDING.txt      LICENSE  README.md      RUNNING.txt  alfresco-mmmt  bin    lib    native-jni-lib  temp    work
CONTRIBUTING.md   NOTICE   RELEASE-NOTES  alf_data     amps        conf   logs   shared       webapps
[alfresco@c22b47626eee tomcat]$ cd webapps
[alfresco@c22b47626eee webapps]$ ls
ROOT _vti_bin alfresco api-explorer
[alfresco@c22b47626eee webapps]$ cd alfresco
[alfresco@c22b47626eee alfresco]$ ls
META-INF WEB-INF admin cmis-browser-app cmisfs css error.jsp favicon.ico images index.jsp scripts
[alfresco@c22b47626eee alfresco]$ cd WEB-INF
[alfresco@c22b47626eee WEB-INF]$ ls
classes cmis10 cmis11 lib licenses web-application-context.xml web.xml
[alfresco@c22b47626eee WEB-INF]$ cd classes
[alfresco@c22b47626eee classes]$ ls
THIRD-PARTY.txt alfresco log4j2.properties logging.properties org
[alfresco@c22b47626eee classes]$ cd alfresco
[alfresco@c22b47626eee alfresco]$ ls .
alfresco-jmxrmi.access extension subsystems version.properties           web-client-security-config.xml
alfresco-jmxrmi.password module   templates web-client-application-context.xml
[alfresco@c22b47626eee alfresco]$
```



Configuration Directories

```
C:\Windows\System32>docker exec -it 3baa3b4ca64c bash
[root@3baa3b4ca64c tomcat]# ls
BUILDING.txt      NOTICE      RUNNING.txt    alfresco.log.2024-06-30  alfresco.log.2024-07-04  bin    logs      temp
CONTRIBUTING.md   README.md   alfresco-mmt   alfresco.log.2024-07-02  alfresco.log.2024-07-05  conf   native-jni-lib webapps
LICENSE          RELEASE-NOTES alfresco.log   alfresco.log.2024-07-03  amps_share           lib    shared    work
[root@3baa3b4ca64c tomcat]# cd webapps
[root@3baa3b4ca64c webapps]# ls
share
[root@3baa3b4ca64c webapps]# ls
share
[root@3baa3b4ca64c webapps]# cd share
[root@3baa3b4ca64c share]# ls
META-INF  cmm      css      error500.jsp  index.jsp  js        site-index.jsp  themes
WEB-INF   components  ctools  favicon.ico  jquery     modules   templates    yui
[root@3baa3b4ca64c share]# cd META-INF
[root@3baa3b4ca64c META-INF]# ls
MANIFEST.MF  maven
[root@3baa3b4ca64c META-INF]# cd WEB-INF
bash: cd: WEB-INF: No such file or directory
[root@3baa3b4ca64c META-INF]# cd ..
[root@3baa3b4ca64c share]# cd WEB-INF
[root@3baa3b4ca64c WEB-INF]# ls
classes  lib  surf.xml  urlrewrite.xml  web.xml
[root@3baa3b4ca64c WEB-INF]# cd classes
[root@3baa3b4ca64c classes]# ls
THIRD-PARTY.txt  hotswap-agent.properties  org                  surf-config.xml
alfresco         log4j2.properties       share-config.properties  web-application-config.xml
[root@3baa3b4ca64c classes]# cd alfresco
[root@3baa3b4ca64c alfresco]# ls
enterprise-config.xml  share-cmm-config.xml      share-security-config.xml      slingshot-documentlibrary-context.xml
form-config.xml       share-config.xml        share-workflow-form-config.xml  team-config.xml
messages            share-datalist-form-config.xml  site-data                 templates
module              share-documentlibrary-config.xml site-webscripts  web-extension
```



Customization using UI

Drag and drop the available dashlets into a column to add them to your dashboard. You can also reorder the dashlets within the columns using drag and drop.

Add Dashlets

Close

My Meeting Workspaces

My Profile

My Sites

My Tasks

My Document Workspaces

My Calendar

My Discussions

Saved Search

Site Search

Web View

▲

▼

When using the keyboard, use the Tab key to select a dashlet. Use the arrow keys to move the selected dashlet. Press Escape to deselect an item. Press Delete to delete an item.

Column 1

My Sites

My Tasks

My Calendar

Web View

Column 2

My Activities

My Documents

Site Search

Saved Search

My Discussions

Column 3

My Meeting Workspaces

My Profile

Content I'm Editing





WebView Dashlet

Wikipedia

Saved Search

No results found.

Configure Web View Dashlet

Link Title:

URL: *

OK Cancel

This screenshot shows a configuration dialog for a WebView dashlet. The dialog is titled "Configure Web View Dashlet". It contains two input fields: "Link Title" with the value "Wikipedia" and "URL" with the value "https://wikipedia.org" followed by a mandatory asterisk. At the bottom are "OK" and "Cancel" buttons. In the background, there's a "Saved Search" section showing a message "No results found." and a "Wikipedia" dashlet preview.



User Profile

About

First Name: PARAMESWARI *

Last Name: E

Job Title:

Location:

Summary:

Photo



[Upload](#)

[Use Default](#)

Your image will be resized to 64px by 64px.

Changes to your photo image take effect immediately.

Contact Information

Telephone: 09952032862

Mobile:

Email: parameswaribala@gmail.com *

Skype:

IM:



User Profile

Active Tasks ▾ Start Workflow

Active Tasks | Completed Tasks

Review the tasks assigned to you

Different types of tasks can appear in this task list and you need to address each one. This could involve reviewing a document or simply accepting an invitation to a site.

I've Recently Modified ▾

 profile.jpg
Created a minute ago by PARAMESWARI E

My Calendar

No upcoming events

Site Search

 Search 10 ▾

 Wikipedia

 WIKIPEDIA
The Free Encyclopedia

Saved search

No results found.

 PARAMESWARI E

Email: parameswaribala@gmail.com
Telephone: 09952032862
Skype:
IM:

Content I'm Editing

Documents
No items to display

Blog posts
No items to display

Wiki pages

 Milestones
Edited over 14 years ago in Sample:
Web Site Design Project

Meetings



Admin Tools

 Admin Tools

▼ Tools

- Application
- Category Manager
- Module Browser
- Node Browser
- Search Manager
- Tag Manager
- Model Manager
- Sites Manager

Repository

- Replication Jobs

Users and Groups

- Groups
- Users

New User

Info

First Name: *

Last Name:

Email: *

About User



Admin Tools

localhost:8080/share/page/

The screenshot shows a web browser window with the URL 'localhost:8080/share/page/' in the address bar. The main content is a login form for 'Alfresco Share'.

The Alfresco logo (a stylized four-petaled flower) and the tagline 'make business flow' are displayed at the top of the form.

The form fields are labeled:

- Username: eswaribala
- Password: (represented by a series of dots)

A large blue 'Sign In' button is located at the bottom of the form.

At the very bottom of the page, there is a small copyright notice: '© 2005-2025 Alfresco Software Inc. All rights reserved.'



Admin Tools

Home My Files Shared Files Sites ▾ Tasks ▾ People Repository eswari bala ▾

 eswari bala Dashboard

 **GET STARTED**
Take a quick tour of Alfresco Share or learn about advanced features.

My Sites
All ▾  Create Site
 Quickly access your sites
A site is a project area where you can share and discuss content with other site members.

My Activities
Everyone's activities ▾ all items ▾ in the last 7 days ▾
 Follow what's going on in your sites
The activities in this list let you follow the changes in the sites you belong to. You'll see things such as who is joining and leaving your sites.

My Tasks ?
Active Tasks ▾  Start Workflow
Active Tasks | Completed Tasks
 Review the tasks assigned to you

My Documents
I've Recently Modified ▾
 Keep track of your own content
This dashlet lists all of the content that's important to you, no matter which site it is in. Use the fil



My Files

Document Details

My Files

AlfrescoInstallation 1.0

Modified by eswari bala on Sun 26 Oct 2025 09:17:03 | ★ Favorite | Like 0 | Comment | Share

Download

Previous Next 1 / 1 125% Maximize Download

```
docker login quay.io -u="alfresco+acs_v6_trial"
Enter the following password when prompted (Copy and Paste):
XVQWI167IGBPDNJU3AN06J1V5BP01YQ041KQN4Z890AERGF7WW6VVQVI3DQ1U1X0
```

View In Browser

Edit in Alfresco Share

Edit Offline

Upload New Version

Edit Properties

Move to...

Copy to...

Delete Document

Edit in Google Docs™

Start Workflow

Manage Permissions

Become Owner

Manage Aspects

Change Type

Comments



My Files

My Documents

I've Recently Modified ▾



AlfrescoInstallation

Created just now by eswari bala



File Not Visible For Others

Repository Browser

Select + Create... Upload Selected Items... Name ▾ Options ▾

Repository > User Homes > roshvicka

Drag and drop to upload files!

Drag files from your desktop and drop them here to upload.

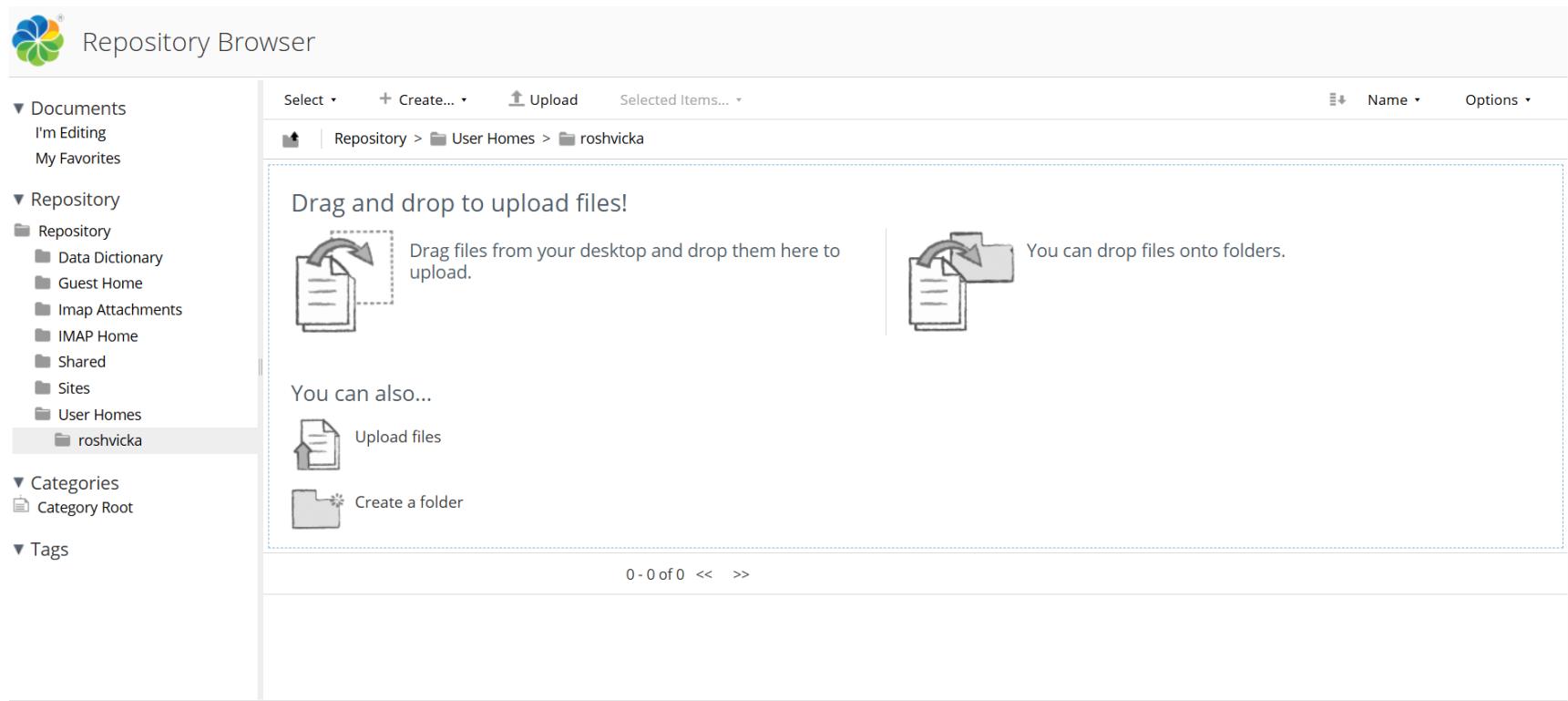
You can drop files onto folders.

You can also...

Upload files

Create a folder

0 - 0 of 0 << >>





Folders

Repository Browser

Documents

- I'm Editing
- My Favorites

Repository

- Repository
 - Data Dictionary
 - Guest Home
 - Imap Attachments
 - IMAP Home
 - Shared
 - Sites
- Training
- User Homes

Categories

- Category Root

Tags

Select + Create... Upload Selected Items...

Repository > Training

Drag and drop to up

Drag files from upload.

You can also...

- Upload files
- Create a folder

New Folder

New Folder Details

* Required Fields

Name:

Title:

Description:

Save Cancel

0 - 0 of 0 << >>

You can drop files onto folders.



Folders

Home My Files Shared Files Sites Tasks People Repository Admin Tools PARAMESWARI E ▾

Repository Browser

Documents I'm Editing My Favorites

Repository

- Repository
 - Data Dictionary
 - Guest Home
 - Imap Attachments
 - IMAP Home
 - Shared
 - Sites
 - User Homes

Categories

- Category Root

Tags

Select + Create... Upload Selected Items... ▾

Repository

Data Dictionary
Modified
User made
No Tags
★ Favorite

Guest
Created
The guest
No Tags
★ Favorite

Imap Attachments
Created
Imap Attachments
No Tags
★ Favorite

IMAP Home
Created
IMAP Home
No Tags
★ Favorite

Create Folder From Template

Update the template folder properties

* Required Fields

Name: * Training

Title: Project Specific

Description:

Save Cancel



Edit Folder Properties

Folder Details

Repository > Training

Training
Modified by PARAMESWARI E on Sun 26 Oct 2025 17:20:03 | ★ Favorite | Like 0 | Comment

Comments

[Add Comment](#)

No comments

Folder Actions

- Download as Zip
- Edit Properties
- Move to...
- Copy to...
- Delete Folder

Manage

- Manage Permissions
- Become Owner
- Manage Aspects
- Change Type
- Manage Rules

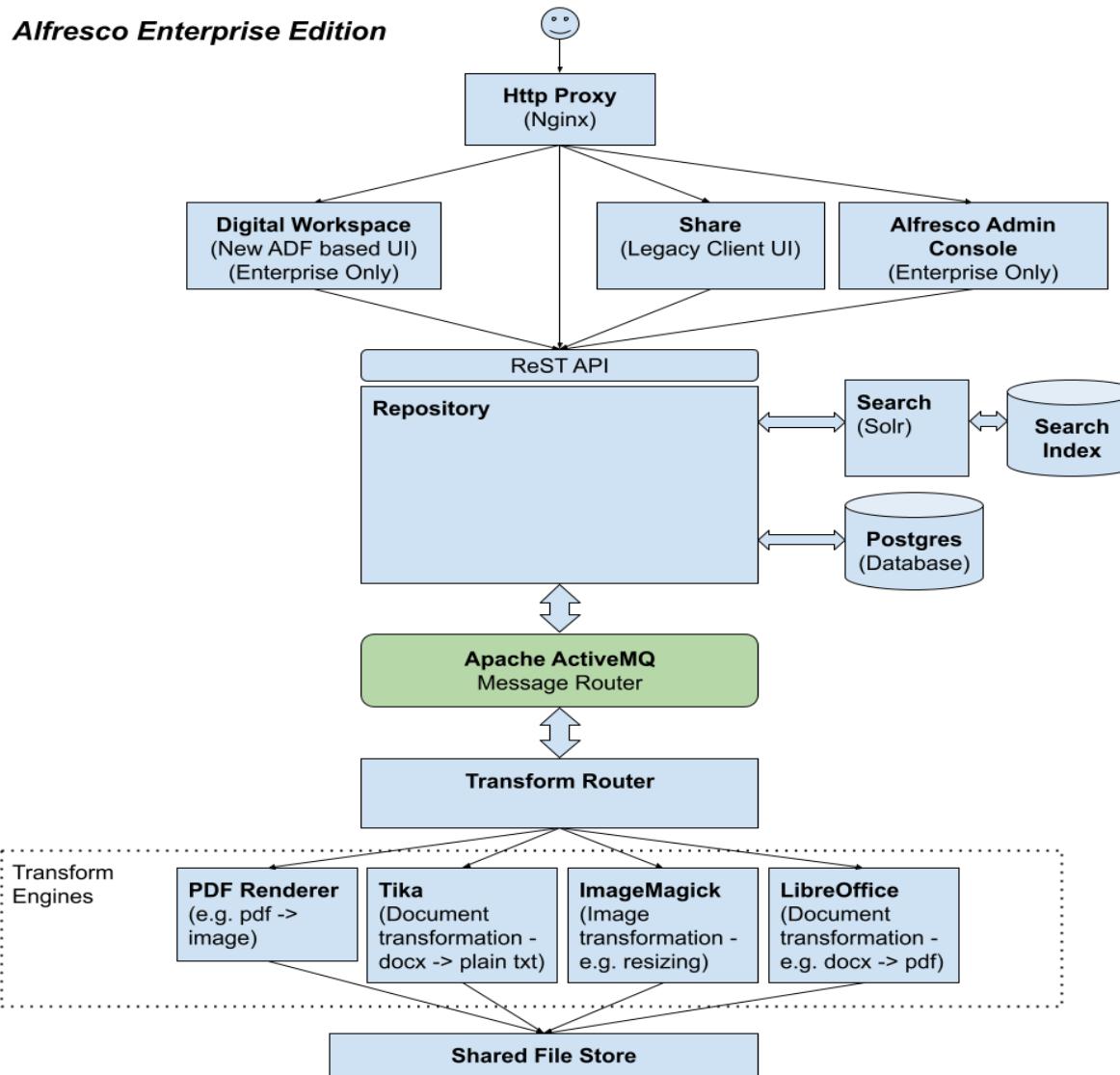
Share

Copy this link to share the current page

```
http://localhost:8080/share/page/folder-details?nodeRef=workspace%3ATraining
```



Software Architecture





Software Architecture

-  **Top Layer – User Interfaces**
- These are the **UI clients** used to interact with the Alfresco Repository:
- **Digital Workspace** – New ADF (Application Development Framework)-based interface for Enterprise Edition.
- **Share** – The **legacy web client** for document management and collaboration.
- **Admin Console** – Used by administrators for configuration and system monitoring (Enterprise only).
All of them communicate through the **ReST API** exposed by the repository.



Software Architecture

-  **Http Proxy (Nginx)**
- Acts as the **front door** for incoming HTTP/HTTPS requests.
- Routes requests to the correct backend service (Share, Repository, Solr, etc.).
- Often used for SSL termination, caching, and reverse proxying.



Software Architecture

-  **Repository Layer (Core of Alfresco)**
- The **heart of Alfresco** — handles content, metadata, permissions, and versioning.
- Implements the **ReST API** and **CMIS** standards.
- Uses:
 - **Postgres** as the **metadata database** (stores node properties, users, ACLs, etc.).
 - **Solr** as the **search engine** to index and search content.



Software Architecture

- 🔎 **Search (Solr) and Search Index**
- **Solr** continuously indexes the repository content.
- Enables full-text and metadata-based search across all content.
- **Search Index** is a separate storage that contains searchable tokens extracted from documents.



Software Architecture

-  **Database (PostgreSQL)**
- Stores all **structured metadata** (content model info, users, audit logs).
- Content binaries are not stored here — only metadata.



Software Architecture

-  **Apache ActiveMQ (Message Router)**
- Used for **asynchronous communication** between Repository and Transformation services.
- Ensures reliable and scalable document transformation pipelines.
- Message flow example: Repository → ActiveMQ → Transform Router → Tika/LibreOffice.



Software Architecture

-  **Transform Router**
- Orchestrates and delegates **document transformations** to different engines.
- Examples:
 - Converts .docx → .pdf
 - Extracts text from .pdf → .txt
 - Converts images or generates thumbnails.



Software Architecture

-  **Transformation Engines**
- Each specialized service handles specific conversion tasks:
- **PDF Renderer** – Converts PDF pages into images.
- **Apache Tika** – Extracts plain text or metadata (used for indexing).
- **ImageMagick** – Resizes and manipulates images.
- **LibreOffice** – Converts Office documents to PDF or other formats.



Software Architecture

-  **Shared File Store**
- The **binary content storage** (actual files).
- Can be on disk, NFS, or an S3-compatible store.
- Repository only stores references (content URLs) pointing to this store.



Software Architecture

-  **End-to-End Flow Summary**
- A user (via Share/Digital Workspace) uploads or views a document.
- The request goes through **Nginx** → **Repository**.
- Metadata is saved in **Postgres**, and content is stored in **Shared File Store**.
- **ActiveMQ** triggers **Transform Router** to generate previews or extract text via Tika/ImageMagick/LibreOffice.
- **Solr** indexes the document for fast retrieval.
- Users can search and retrieve content through the ReST API/UI.



Alfresco SDK Prerequisites

Tool	Recommended Version	Notes
Java JDK	11 or 17	Matches your Alfresco version
Apache Maven	3.8+	Required for SDK build
Git	Latest	Optional, for cloning starter projects
Docker Desktop	Latest	For running the platform & DB quickly
IDE	IntelliJ IDEA / Eclipse	With Maven support

<https://docs.alfresco.com/content-services/6.2/develop/sdk/#gettingstarted>



Alfresco SDK Prerequisites

mvn archetype:generate -Dfilter=org.alfresco:

```
E:\alfresco\23102025\Workspace>mvn archetype:generate -Dfilter=org.alfresco:  
[INFO] Scanning for projects...  
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-metadata.xml  
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/mojo/maven-metadata.xml  
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/mojo/maven-metadata.xml (21 kB at 47 kB/s)  
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-metadata.xml (14 kB at 31 kB/s)  
[INFO]  
[INFO] -----< org.apache.maven:standalone-pom >-----  
[INFO] Building Maven Stub Project (No POM) 1  
[INFO] -----[ pom ]-----  
[INFO]  
[INFO] >>> archetype:3.4.1:generate (default-cli) > generate-sources @ standalone-pom >>>  
[INFO]  
[INFO] <<< archetype:3.4.1:generate (default-cli) < generate-sources @ standalone-pom <<<  
[INFO]  
[INFO]  
[INFO] --- archetype:3.4.1:generate (default-cli) @ standalone-pom ---  
[INFO] Generating project in Interactive mode  
[INFO] No archetype defined. Using maven-archetype-quickstart (org.apache.maven.archetypes:maven-archetype-quickstart:1.0)  
Choose archetype:  
1: remote -> org.alfresco.maven.archetype:activiti-jar-archetype (DEPRECATED - UNSUPPORTED - EXPERIMENTAL)  
2: remote -> org.alfresco.maven.archetype:alfresco-allinone-archetype (Sample multi-module project for All-in-One development on the Alfresco platform. Includes modules for Platform/Repository JAR and Share JAR)  
3: remote -> org.alfresco.maven.archetype:alfresco-amp-archetype (Sample project with full support for lifecycle and rapid development of Repository AMPs (Alfresco Module Packages))  
4: remote -> org.alfresco.maven.archetype:alfresco-platform-jar-archetype (Sample project with full support for lifecycle and rapid development of Platform/Repository JARs and AMPs (Alfresco Module Packages))  
5: remote -> org.alfresco.maven.archetype:alfresco-share-jar-archetype (Share project with full support for lifecycle and rapid development of JARs and AMPs (Alfresco Module Packages))  
6: remote -> org.alfresco.maven.archetype:share-amp-archetype (Share project with full support for lifecycle and rapid development of AMPs (Alfresco Module Packages))  
Choose a number or apply filter (format: [groupId:]artifactId, case sensitive contains): :
```



Alfresco SDK Prerequisites

```
Administrator: Command Prompt - mvn archetype:generate -Dfilter=org.alfresco:  
ackages))  
4: remote -> org.alfresco.maven.archetype:alfresco-platform-jar-archetype (Sample project with full support for lifecycle and rapid development of Platform/Repository JARs  
and AMPs (Alfresco Module Packages))  
5: remote -> org.alfresco.maven.archetype:alfresco-share-jar-archetype (Share project with full support for lifecycle and rapid development of JARs and AMPs (Alfresco Modul  
e  
    Packages))  
6: remote -> org.alfresco.maven.archetype:share-amp-archetype (Share project with full support for lifecycle and rapid development of AMPs (Alfresco Module  
    Packages))  
Choose a number or apply filter (format: [groupId:]artifactId, case sensitive contains): : 2  
Choose org.alfresco.maven.archetype:alfresco-allinone-archetype version:  
1: 2.0.0-beta-1  
2: 2.0.0-beta-2  
3: 2.0.0-beta-3  
4: 2.0.0-beta-4  
5: 2.0.0  
6: 2.1.0  
7: 2.1.1  
8: 2.2.0  
9: 3.0.0  
10: 3.0.1  
11: 3.1.0  
12: 4.0.0-beta-1  
13: 4.0.0  
14: 4.1.0  
15: 4.2.0  
16: 4.3.0  
17: 4.4.0  
18: 4.5.0  
19: 4.6.0  
20: 4.7.0  
21: 4.8.0  
22: 4.9.0  
23: 4.10.0  
24: 4.11.0-A2  
25: 4.11.0  
26: 4.12.0-A1  
27: 4.12.0  
28: 4.13.0-A1  
29: 4.13.0-A2  
30: 4.13.0-A3  
31: 4.13.0-A4  
32: 4.13.0-A5  
33: 4.13.0-A6  
34: 4.13.0-A8  
Choose a number: 34: 34
```





Alfresco SDK Prerequisites

```
Administrator: Command Prompt
Define value for property 'groupId': com.cog
Define value for property 'artifactId': all-in-one
Define value for property 'package' com.cog:
Confirm properties configuration:
version: 1.0-SNAPSHOT
groupId: com.cog
artifactId: all-in-one
package: com.cog
Y:
[INFO] -----
[INFO] Using following parameters for creating project from Archetype: alfresco-allinone-archetype:4.13.0-A8
[INFO] -----
[INFO] Parameter: groupId, Value: com.cog
[INFO] Parameter: artifactId, Value: all-in-one
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Parameter: package, Value: com.cog
[INFO] Parameter: packageInPathFormat, Value: com/cog
[INFO] Parameter: package, Value: com.cog
[INFO] Parameter: groupId, Value: com.cog
[INFO] Parameter: artifactId, Value: all-in-one
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Parent element not overwritten in E:\alfresco\23102025\Workspace\all-in-one\all-in-one-platform\pom.xml
[INFO] Parent element not overwritten in E:\alfresco\23102025\Workspace\all-in-one\all-in-one-share\pom.xml
[INFO] Parent element not overwritten in E:\alfresco\23102025\Workspace\all-in-one\all-in-one-integration-tests\pom.xml
[INFO] Parent element not overwritten in E:\alfresco\23102025\Workspace\all-in-one\all-in-one-platform-docker\pom.xml
[INFO] Parent element not overwritten in E:\alfresco\23102025\Workspace\all-in-one\all-in-one-share-docker\pom.xml
[INFO] Executing META-INF/archetype-post-generate.groovy post-generation script
[INFO] Project created from Archetype in dir: E:\alfresco\23102025\Workspace\all-in-one
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 06:45 min
[INFO] Finished at: 2025-10-27T21:57:20+05:30
[INFO] -----
```

E:\alfresco\23102025\Workspace>



Alfresco SDK Prerequisites

```
C:\ Administrator: Command Prompt
Volume Serial Number is 369D-E7A4

Directory of E:\alfresco\23102025\Workspace\all-in-one

27-10-2025  21:57      <DIR>          .
27-10-2025  21:57      <DIR>          ..
27-10-2025  21:57            19,711 pom.xml
27-10-2025  21:57      <DIR>          docker
27-10-2025  21:57            2,511 run.sh
27-10-2025  21:57            2,648 README.md
27-10-2025  21:57            3,017 run.bat
27-10-2025  21:57            519 .gitignore
27-10-2025  21:57      <DIR>          all-in-one-platform
27-10-2025  21:57      <DIR>          all-in-one-share
27-10-2025  21:57      <DIR>          all-in-one-integration-tests
27-10-2025  21:57      <DIR>          all-in-one-platform-docker
27-10-2025  21:57      <DIR>          all-in-one-share-docker
      5 File(s)        28,406 bytes
     8 Dir(s)  688,688,463,872 bytes free

E:\alfresco\23102025\Workspace\all-in-one>
```



Alfresco SDK Prerequisites

run.bat build_start

```
E:\alfresco\23102025\Workspace\all-in-one>run.bat build_start
[INFO] Scanning for projects...
[WARNING] The project com.cog:all-in-one:pom:1.0-SNAPSHOT uses prerequisites which is only intended for maven-plugin projects but not for non maven-plugin projects. For such purposes you should use the maven-enforcer-plugin. See https://maven.apache.org/enforcer/enforcer-rules/requireMavenVersion.html
[INFO] -----
[INFO] Reactor Build Order:
[INFO]
[INFO] AIO - SDK 4.13.0-A7-SNAPSHOT                               [pom]
[INFO] Alfresco Platform/Repository JAR Module                      [jar]
[INFO] Alfresco Share JAR Module                                    [jar]
[INFO] Integration Tests Module                                   [jar]
[INFO] Alfresco Platform/Repository Docker Module                 [jar]
[INFO] Alfresco Share Docker Module                                [jar]
[INFO]
[INFO] -----< com.cog:all-in-one >-----
[INFO] Building AIO - SDK 4.13.0-A7-SNAPSHOT 1.0-SNAPSHOT          [1/6]
[INFO]   from pom.xml
[INFO] -----[ pom ]-----
[INFO]
[INFO] --- clean:3.2.0:clean (default-clean) @ all-in-one ---
[INFO]
[INFO] --- resources:3.1.0:copy-resources (copy-and-filter-docker-resources) @ all-in-one ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Copying 1 resource
[INFO]
[INFO] --- closure-compiler:2.28.0:minify (compress-assembly) @ all-in-one ---
[INFO] Starting JavaScript task:
[WARNING] No valid JavaScript source files found to process.
[INFO]
[INFO] --- closure-compiler:2.28.0:minify (compress-resources) @ all-in-one ---
[INFO] Starting JavaScript task:
[WARNING] No valid JavaScript source files found to process.
[INFO]
[INFO] --- jrebel:1.1.8:generate (generate-rebel-xml) @ all-in-one ---
```





Alfresco SDK Prerequisites

```
Administrator: Command Prompt - run.bat build_start
//webservices.impl.server.opencmis.chemistry.apache.org/]AclServiceService from class org.apache.chemistry.opencmis.commons.impl.jaxb.ACIServicePort
all-in-one-acs-1 | 27-Oct-2025 16:31:16.973 INFO [main] org.apache.cxf.endpoint.ServerImpl.initDestination Setting the server's publish address to be /ACIService
all-in-one-acs-1 | 27-Oct-2025 16:31:16.974 INFO [main] org.apache.cxf.wsdl.service.factory.ReflectionServiceFactoryBean.buildServiceFromClass Creating Service {http://webservices.impl.server.opencmis.chemistry.apache.org/}PolicyServiceService from class org.apache.chemistry.opencmis.commons.impl.jaxb.PolicyServicePort
all-in-one-acs-1 | 27-Oct-2025 16:31:16.982 INFO [main] org.apache.cxf.endpoint.ServerImpl.initDestination Setting the server's publish address to be /PolicyService
all-in-one-acs-1 | 27-Oct-2025 16:31:16.988 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [/usr/local/tomcat/webapps/alfresco] has finished in [68,932] ms
all-in-one-acs-1 | 27-Oct-2025 16:31:16.988 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [/usr/local/tomcat/webapps/api-explorer]
all-in-one-acs-1 | 27-Oct-2025 16:31:17.083 INFO [main] org.apache.jasper.servlet.TldScanner.scanJars At least one JAR was scanned for TLDs yet contained no TLDs. Enable debug logging for this logger for a complete list of JARs that were scanned but no TLDs were found in them. Skipping unneeded JARs during scanning can improve startup time and JSP compilation time.
all-in-one-acs-1 | 27-Oct-2025 16:31:17.829 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [/usr/local/tomcat/webapps/api-explorer] has finished in [841] ms
all-in-one-acs-1 | 27-Oct-2025 16:31:17.830 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [/usr/local/tomcat/webapps/ROOT]
all-in-one-acs-1 | 27-Oct-2025 16:31:17.842 WARNING [main] org.apache.tomcat.util.digester.SetPropertiesRule.begin Match [Context] failed to set property [debug] to [100]
all-in-one-acs-1 | 27-Oct-2025 16:31:17.912 INFO [main] org.apache.jasper.servlet.TldScanner.scanJars At least one JAR was scanned for TLDs yet contained no TLDs. Enable debug logging for this logger for a complete list of JARs that were scanned but no TLDs were found in them. Skipping unneeded JARs during scanning can improve startup time and JSP compilation time.
all-in-one-acs-1 | 27-Oct-2025 16:31:17.914 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [/usr/local/tomcat/webapps/ROOT] has finished in [84] ms
all-in-one-acs-1 | 27-Oct-2025 16:31:17.915 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [/usr/local/tomcat/webapps/_vti_bin]
all-in-one-acs-1 | 27-Oct-2025 16:31:18.067 INFO [main] org.apache.jasper.servlet.TldScanner.scanJars At least one JAR was scanned for TLDs yet contained no TLDs. Enable debug logging for this logger for a complete list of JARs that were scanned but no TLDs were found in them. Skipping unneeded JARs during scanning can improve startup time and JSP compilation time.
all-in-one-acs-1 | 27-Oct-2025 16:31:18.070 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [/usr/local/tomcat/webapps/_vti_bin] has finished in [155] ms
all-in-one-acs-1 | 27-Oct-2025 16:31:18.078 INFO [main] org.apache.coyote.AbstractProtocol.start Starting ProtocolHandler ["http-nio-8080"]
all-in-one-acs-1 | 27-Oct-2025 16:31:18.099 INFO [main] org.apache.catalina.startup.Catalina.start Server startup in [63575] milliseconds
```



Alfresco SDK Prerequisites

Screenshot of the Alfresco Share Administrator Dashboard at localhost:8180/share/page/user/admin/dashboard.

The dashboard features a navigation bar with links to Home, My Files, Shared Files, Sites, Tasks, People, Repository, Admin Tools, and Debug Menu. The user is logged in as Administrator.

Administrator Dashboard

GET STARTED (Icon: lightbulb) Take a quick tour of Alfresco Share or learn about advanced features.

My Sites

- All (Create Site)
- Quickly access your sites:
A site is a project area where you can share and discuss content with other site members.
We've included a sample site for you. Use this to explore the features in Alfresco Content Services.
- Sample: Web Site Design Project
This is a Sample Alfresco Team site.
★ Favorite

My Activities

- Everyone's activities (all items, in the last 7 days)
- Follow what's going on in your sites:
The activities in this list let you follow the changes in the sites you belong to. You'll see things such as content also see who is joining and leaving your sites.

My Tasks

- Active Tasks (Start Workflow)
- Active Tasks | Completed Tasks
- Review the tasks assigned to you:
Different types of tasks can appear in this task list and you need to address each one. This could involve reviewing a document or simply accepting an invitation to a site.

My Documents

- I've Recently Modified
- Keep track of your own content:
This dashlet lists all of the content that's important to you, no matter which site it is in. Use the filters to easily find it.



Alfresco SDK Prerequisites

Task	Description
build_start	Build the whole project, recreate the ACS and Share docker images, start the dockerised environment composed by ACS, Share, ASS and PostgreSQL and tail the logs of all the containers.
build_start_it_supported	Build the whole project including dependencies required for IT execution, recreate the ACS and Share docker images, start the dockerised environment composed by ACS, Share, ASS and PostgreSQL and tail the logs of all the containers.
start	Start the dockerised environment without building the project and tail the logs of all the containers.
stop	Stop the dockerised environment.
purge	Stop the dockerised environment and delete all the persistent data (docker volumes).



Alfresco SDK Prerequisites

purge

Stop the dockerised environment and delete all the persistent data (docker volumes).

tail

Tail the logs of all the containers.

reload_share

Build the Share module, recreate the Share docker image and restart the Share container (not available in the Alfresco Platform JAR archetype).

reload_acs

Build the ACS module, recreate the ACS docker image and restart the ACS container (only available in the All-In-One archetype).

build_test

Build the whole project, recreate the ACS and Share docker images, start the dockerised environment, execute the integration tests from the `integration-tests` module and stop the environment.

test

Execute the integration tests (the environment must be already started).



Alfresco SDK Prerequisites

```
c:\ Administrator: Command Prompt - run.bat build_start
Terminate batch job (Y/N)? y

E:\alfresco\23102025\Workspace\all-in-one>run.bat stop
time="2025-10-27T22:10:42+05:30" level=warning msg="E:\alfresco\23102025\Workspace\all-in-one\target\classes\docker\docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion"
[+] Running 6/6
✓ Container docker-all-in-one-ass-1      Removed
✓ Container docker-all-in-one-share-1    Removed
✓ Container docker-all-in-one-activemq-1 Removed
✓ Container docker-all-in-one-acs-1      Removed
✓ Container docker-all-in-one-postgres-1 Removed
✓ Network docker_default                Removed

E:\alfresco\23102025\Workspace\all-in-one>dir
Volume in drive E is T7
Volume Serial Number is 369D-E7A4

Directory of E:\alfresco\23102025\Workspace\all-in-one

27-10-2025  21:57    <DIR>          .
27-10-2025  21:57    <DIR>          ..
27-10-2025  21:57            19,711 pom.xml
27-10-2025  21:57    <DIR>          docker
27-10-2025  21:57            2,511 run.sh
27-10-2025  21:57            2,648 README.md
27-10-2025  21:57            3,017 run.bat
27-10-2025  21:57            519 .gitignore
27-10-2025  21:57    <DIR>          all-in-one-platform
27-10-2025  21:57    <DIR>          all-in-one-share
27-10-2025  21:57    <DIR>          all-in-one-integration-tests
27-10-2025  21:57    <DIR>          all-in-one-platform-docker
27-10-2025  21:57    <DIR>          all-in-one-share-docker
27-10-2025  21:59    <DIR>          target
      5 File(s)        28,406 bytes
     9 Dir(s)  688,665,657,344 bytes free
```



Alfresco SDK Prerequisites

```
Administrator: Command Prompt - run.bat build_start - docker-compose up -d
```

```
E:\alfresco\23102025\Workspace\all-in-one\target>docker-compose up -d
[+] Running 12/17
✓ Network docker-compose_default          Created
✓ Container docker-compose-proxy-1         Started
✓ Container docker-compose-digital-workspace-1 Started
- Container docker-compose-activemq-1       Waiting
- Container docker-compose-elasticsearch-1  Waiting
- Container docker-compose-shared-file-store-1 Waiting
- Container docker-compose-postgres-1        Waiting
- Container docker-compose-alfresco-1        Waiting
✓ Container docker-compose-control-center-1 Started
✓ Container docker-compose-kibana-1          Created
✓ Container docker-compose-audit-storage-1   Created
✓ Container docker-compose-transform-router-1 Created
✓ Container docker-compose-transform-core-aio-1 Created
✓ Container docker-compose-sync-service-1    Created
✓ Container docker-compose-search-reindexing-1 Created
✓ Container docker-compose-share-1           Created
✓ Container docker-compose-search-1          Created
```



Updating extension code

- Open up the `my-all-in-one-project/my-all-in-one-project-platform/src/main/resources/alfresco/extension/templates/webscripts/alfresco/tutorials/helloworld.get.html.ftl`
- Change it to
- Message: `'${fromJS}' '${fromJava}' UPDATED!`
- `my-all-in-one-project mbergljung$./run.sh reload_acs`



Updating extension code

```
MINGW64:/e/alfresco/23102025/Workspace/all-in-one
param@Parameswari MINGW64 /e/alfresco/23102025/Workspace/all-in-one
$ ./run.sh reload_acs
time="2025-10-27T22:29:27+05:30" level=warning msg="E:\\alfresco\\23102025\\Workspace\\all-in-one\\target\\classes\\docker\\docker-compose.yml: the attribute `version` is o
bsolute, it will be ignored, please remove it to avoid potential confusion"
no container to killtime="2025-10-27T22:29:27+05:30" level=warning msg="E:\\alfresco\\23102025\\Workspace\\all-in-one\\target\\classes\\docker\\docker-compose.yml: the attr
ibute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion"
Going to remove docker-all-in-one-acs-1
Container docker-all-in-one-acs-1 Removing
Container docker-all-in-one-acs-1 Removed
[INFO] Scanning for projects...
[INFO] -----
[INFO] Reactor Build Order:
[INFO]
[INFO] Alfresco Platform/Repository JAR Module [jar]
[INFO] Integration Tests Module [jar]
[INFO] Alfresco Platform/Repository Docker Module [jar]
[INFO]
[INFO] -----< com.cog:all-in-one-platform >-----
[INFO] Building Alfresco Platform/Repository JAR Module 1.0-SNAPSHOT [1/3]
[INFO]   from pom.xml
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- clean:3.2.0:clean (default-clean) @ all-in-one-platform ---
[INFO] Deleting E:\\alfresco\\23102025\\Workspace\\all-in-one\\all-in-one-platform\\target
[INFO]
[INFO] --- closure-compiler:2.28.0:minify (compress-assembly) @ all-in-one-platform ---
[INFO] Starting JavaScript task:
[WARNING] No valid JavaScript source files found to process.
[INFO]
[INFO] --- closure-compiler:2.28.0:minify (compress-resources) @ all-in-one-platform ---
[INFO] Starting JavaScript task:
[WARNING] No valid JavaScript source files found to process.
[INFO]
[INFO] --- resources:3.1.0:resources (default-resources) @ all-in-one-platform ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Copying 16 resources
[INFO]
[INFO] --- jrebel:1.1.8:generate (generate-rebel-xml) @ all-in-one-platform ---
[INFO] Processing com.cog:all-in-one-platform with packaging jar
[INFO]
[INFO] --- compiler:3.8.0:compile (default-compile) @ all-in-one-platform ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 3 source files to E:\\alfresco\\23102025\\Workspace\\all-in-one\\all-in-one-platform\\target\\classes
[INFO]
[INFO] --- resources:3.1.0:testResources (default-testResources) @ all-in-one-platform ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory E:\\alfresco\\23102025\\Workspace\\all-in-one\\all-in-one-platform\\src\\test\\resources
[INFO]
[INFO] --- compiler:3.8.0:testCompile (default-testCompile) @ all-in-one-platform ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to E:\\alfresco\\23102025\\Workspace\\all-in-one\\all-in-one-platform\\target\\test-classes
[INFO]
[INFO] --- surefire:3.2.5:test (default-test) @ all-in-one-platform ---
```

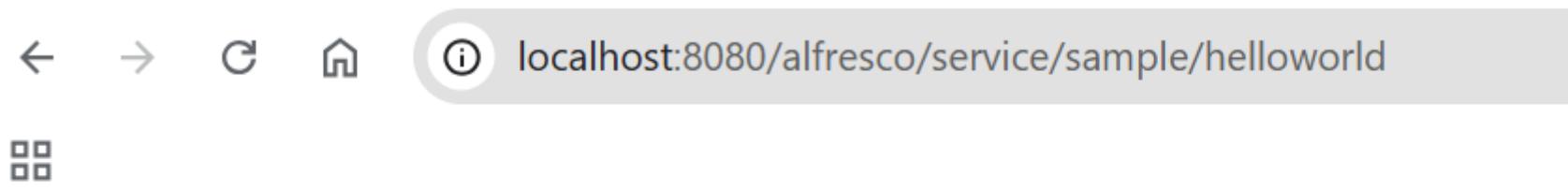


ENG
IN 27-10-2025 22:35



Updating extension code

- <http://localhost:8080/alfresco/service/sample/helloworld>



Message: 'Hello from JS!' 'HelloFromJava' UPDATED!



Updating extension code

The screenshot shows the IntelliJ IDEA interface with the following details:

- Project View:** Shows the project structure under 'all-in-one-platform'. Key components include '.idea', 'src' (containing 'main' and 'java' packages), 'resources' (containing 'alfresco' and 'extension.templates.webscripts.alfresco.tuto'), 'test', 'target', 'pom.xml', 'External Libraries', and 'Scratches and Consoles'.
- Code Editor:** The file 'helloworld.get.html.ftl' is open. The code contains the following FTL template:

```
<#> helloworld.get.html.ftl
1   Message: ${fromJS} ${fromJava}! Latest Changes!
```

A yellow lightbulb icon is shown next to the placeholder text.
- Toolbars and Status Bar:** Standard IntelliJ IDEA toolbars are visible at the top. The status bar at the bottom shows the path 'all-in-one-platform > src > main > resources > alfresco > extension > templates > webscripts > alfresco > tutorials > <#> helloworld.get.htr', the time '1:31', and other system information.
- Bottom Taskbar:** Shows various system icons for file explorer, search, task manager, and network.
- Tooltip:** A tooltip in the bottom right corner indicates a 'Suggested plugin Jakarta EE: Web Services (JAX-WS) available' with buttons for 'Configure plugins...' and 'Don't suggest again'.



Updating extension code

- <http://localhost:8080/alfresco/service/sample/helloworld>



Message: 'Hello from JS!' 'HelloFromJava' Latest Changes!



Updating Extension Code

Screenshot of an IDE showing the code editor for `simple-page.get.js`. A pink curly brace highlights the `model.jsonModel` object.

```
model.jsonModel = {
  widgets: [
    {
      id: "SET_PAGE_TITLE",
      name: "alfresco/header/SetTitle",
      config: {
        title: "This is a updated page title"
      }
    },
    {
      id: "MY_HORIZONTAL_WIDGET_LAYOUT",
      name: "alfresco/layout/HorizontalWidgets",
      config: {
        widgetWidth: 50,
        widgets: [
          {
            id: "DEMO_SIMPLE_LOGO",
            name: "alfresco/logo/Logo",
            config: {
              logoClasses: "alfresco-logo-only"
            }
          },
          {
            id: "DEMO_SIMPLE_MSG",
            name: "tutorials/widgets/TemplateWidget"
          }
        ]
      }
    }
]
```

The IDE interface includes:

- Project tree on the left showing the file structure of the `all-in-one-share` project.
- Code editor with syntax highlighting for JavaScript.
- Toolbars and status bar at the bottom.
- Taskbar at the bottom with various application icons.



Updating extension code

```
MINGW64:/e/alfresco/23102025/Workspace/all-in-one
param@Parameswari MINGW64 /e/alfresco/23102025/Workspace/all-in-one
$ ./run.sh reload_acs
time="2025-10-27T22:29:27+05:30" level=warning msg="E:\\alfresco\\23102025\\Workspace\\all-in-one\\target\\classes\\docker\\docker-compose.yml: the attribute `version` is o
bsolute, it will be ignored, please remove it to avoid potential confusion"
no container to killtime="2025-10-27T22:29:27+05:30" level=warning msg="E:\\alfresco\\23102025\\Workspace\\all-in-one\\target\\classes\\docker\\docker-compose.yml: the attr
ibute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion"
Going to remove docker-all-in-one-acs-1
Container docker-all-in-one-acs-1 Removing
Container docker-all-in-one-acs-1 Removed
[INFO] Scanning for projects...
[INFO] -----
[INFO] Reactor Build Order:
[INFO]
[INFO] Alfresco Platform/Repository JAR Module [jar]
[INFO] Integration Tests Module [jar]
[INFO] Alfresco Platform/Repository Docker Module [jar]
[INFO]
[INFO] -----< com.cog:all-in-one-platform >-----
[INFO] Building Alfresco Platform/Repository JAR Module 1.0-SNAPSHOT [1/3]
[INFO]   from pom.xml
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- clean:3.2.0:clean (default-clean) @ all-in-one-platform ---
[INFO] Deleting E:\\alfresco\\23102025\\Workspace\\all-in-one\\all-in-one-platform\\target
[INFO]
[INFO] --- closure-compiler:2.28.0:minify (compress-assembly) @ all-in-one-platform ---
[INFO] Starting JavaScript task:
[WARNING] No valid JavaScript source files found to process.
[INFO]
[INFO] --- closure-compiler:2.28.0:minify (compress-resources) @ all-in-one-platform ---
[INFO] Starting JavaScript task:
[WARNING] No valid JavaScript source files found to process.
[INFO]
[INFO] --- resources:3.1.0:resources (default-resources) @ all-in-one-platform ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Copying 16 resources
[INFO]
[INFO] --- jrebel:1.1.8:generate (generate-rebel-xml) @ all-in-one-platform ---
[INFO] Processing com.cog:all-in-one-platform with packaging jar
[INFO]
[INFO] --- compiler:3.8.0:compile (default-compile) @ all-in-one-platform ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 3 source files to E:\\alfresco\\23102025\\Workspace\\all-in-one\\all-in-one-platform\\target\\classes
[INFO]
[INFO] --- resources:3.1.0:testResources (default-testResources) @ all-in-one-platform ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory E:\\alfresco\\23102025\\Workspace\\all-in-one\\all-in-one-platform\\src\\test\\resources
[INFO]
[INFO] --- compiler:3.8.0:testCompile (default-testCompile) @ all-in-one-platform ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to E:\\alfresco\\23102025\\Workspace\\all-in-one\\all-in-one-platform\\target\\test-classes
[INFO]
[INFO] --- surefire:3.2.5:test (default-test) @ all-in-one-platform ---
```





Updating Extension Code

localhost:8180/share/page/hdp/ws/simple-page

Home My Files Shared Files Sites Tasks People Repository Admin Tools Debug Menu

This is a updated page title

Hello from i18n



Editing a Share theme

- Open Share /usr/tomcat/webapps/share/themes
- Open the presentation.css file.
- Locate the properties at the end of the presentation.css file.
- Edit the following four properties:
 - color
 - background
 - background-color
 - border



Editing a Share theme

Updated Green Theme Presentation.css

Screenshot of the Alfresco Administrator Dashboard showing the updated Green Theme.

The dashboard features a top navigation bar with a search field and a gear icon. Below the header, there's a yellow banner with a lightbulb icon and the text "GET STARTED" followed by a description: "Take a quick tour of Alfresco Share or learn about advanced features." A "Hide" button is located in the top right corner of this banner.

The main content area is divided into two sections:

- My Sites**: This section includes a "Create Site" button and a "Quickly access your sites" card. The card describes what a site is and mentions a sample site named "Sample: Web Site Design Project". It also includes a "Favorite" button.
- My Activities**: This section shows activity filters: "Everyone's activities", "all items", and "in the last 7 days". It includes a "Follow what's going on in your sites" card, which explains how users can follow changes in their sites and see who is joining and leaving.



Custom Theme – Red Theme - Steps

- The following steps are usually needed to customize the Share UI using a custom theme:
- Copy one of the existing out-of-the-box themes and use it as a basis for the new theme
- Give the new theme a name
- Update the CSS files with the new theme name
- Create an XML file <new theme name>.xml to let Share know about the new theme
- Replace logos and other images
- Customize the look and feel of YUI components by updating presentation.css and skin.css
- Customize the look and feel of Aikau components by overriding LESS variables in <new theme name>.xml



Custom Theme – Red Theme - Steps

- Create a new themes directory under: aio/aio-share-jar/src/main/resources/META-INF.
- Copy an existing theme, such as the Green Theme, from alfresco/tomcat/webapps/share/themes/greenTheme into the new aio/aio-share-jar/src/main/resources/META-INF/themes directory.
- Rename the theme directory to a custom theme name.
- Change the aio/aio-share-jar/src/main/resources/META-INF/themes/greenTheme directory name to aio/aio-share-jar/src/main/resources/META-INF/themes/redTheme.



Custom Theme – Red Theme - Steps

- Update the theme name in the CSS files.
- In both the aio/aio-share-jar/src/main/resources/META-INF/themes/redTheme/presentation.css file and the aio/aio-share-jar/src/main/resources/META-INF/themes/redTheme/yui/assets/skin.css file, search for the greenTheme name and replace it with redTheme.
- Add a theme's descriptor file called redTheme.xml to the aio/aio-share-jar/src/main/resources/alfresco/web-extension/site-data/themes directory (you would have to create the themes directory too):



Custom Theme – Red Theme - Steps

```
<?xml version='1.0' encoding='UTF-8'?>
<theme>
    <title>Tutorial Theme</title>
    <title-id>theme.tutorialTheme</title-id>
    <css-tokens>
        </css-tokens>
</theme>
```



Custom Theme – Red Theme - Steps

- Optionally add an i18n resource file with the Theme title label.
- Replace logos.
- Customize the YUI components in the Share user interface.
- Customize the Aikau components in the Share user interface.
- This is done by overriding LESS variables in the `aio/aio-share-jar/src/main/resources/alfresco/web-extension/site-data/themes/redTheme.xml` file.



Custom Theme – Red Theme - Steps

- Build and start the application server as follows:
- `/all-in-one$./run.sh build_start`



Custom Theme – Red Theme - Steps

The screenshot shows the Android Studio interface with the project 'all-in-one-share' selected. The left sidebar displays the project structure:

- com.cog
- resources
 - alfresco
 - module.all-in-one-share
 - log4j2.properties
 - module.properties
 - web-extension
 - messages
 - all-in-one-share.properties
 - site-data
 - extensions
 - themes
 - redTheme.xml
 - site-webscripts
 - META-INF
 - resources.all-in-one-share.js.tutorials.widgets
 - themes.redTheme
 - images
 - yui.assets
 - presentation.css
 - test
 - target
 - pom.xml

A red oval highlights the 'redTheme.xml' file. Several pink checkmarks point to the 'images', 'yui.assets', and 'presentation.css' files within the 'themes.redTheme' folder.

On the right side of the interface, there is a list of keyboard shortcuts:

 - Search Everywhere Double Shift
 - Go to File Ctrl+Shift+N
 - Recent Files Ctrl+E
 - Navigation Bar Alt+Home
 - Drop files here to open them



Custom Theme – Red Theme

Home My Files Shared Files Sites Tasks People Repository Admin Tools Debug Menu Administrator Search files, people, sites

RPS GROUP
Building Futuristic Infrastructure

My Files

Documents

- All Documents
- I'm Editing
- Others are Editing
- Recently Modified
- Recently Added
- My Favorites

My Files

- My Files** (selected)
- Data Dictionary
- Guest Home
- Imap Attachments
- IMAP Home
- Shared
- Sites
- User Homes

Categories

- Category Root

Tags

7

My Files

Data Dictionary
Modified 19 hours ago by System User
User managed definitions
No Tags

Guest Home
Created 19 hours ago by System User
The guest root space
No Tags

Imap Attachments
Created 19 hours ago by System User
Imap Attachments
No Tags

IMAP Home
Created 19 hours ago by System User
IMAP Home

Select Create... Upload Selected Items... Name Options

Favorite Like 0 Comment

Favorite Like 0 Comment

Favorite Like 0 Comment

Favorite Like 0 Comment

17:14



Custom Theme – Red Theme

Home My Files Shared Files Sites Tasks People Repository Admin Tools Debug Menu Administrator

RPS GROUP
Building Futuristic Infrastructure

Admin Tools

Tools

- Application
- Category Manager
- Module Browser
- Node Browser
- Search Manager
- Tag Manager
- Model Manager
- Sites Manager

Administration and Management Console

Options

Theme: Red Theme

Logo:

Upload Reset

Maximum recommended image height is 48 pixels.

RPS GROUP
Building Futuristic Infrastructure

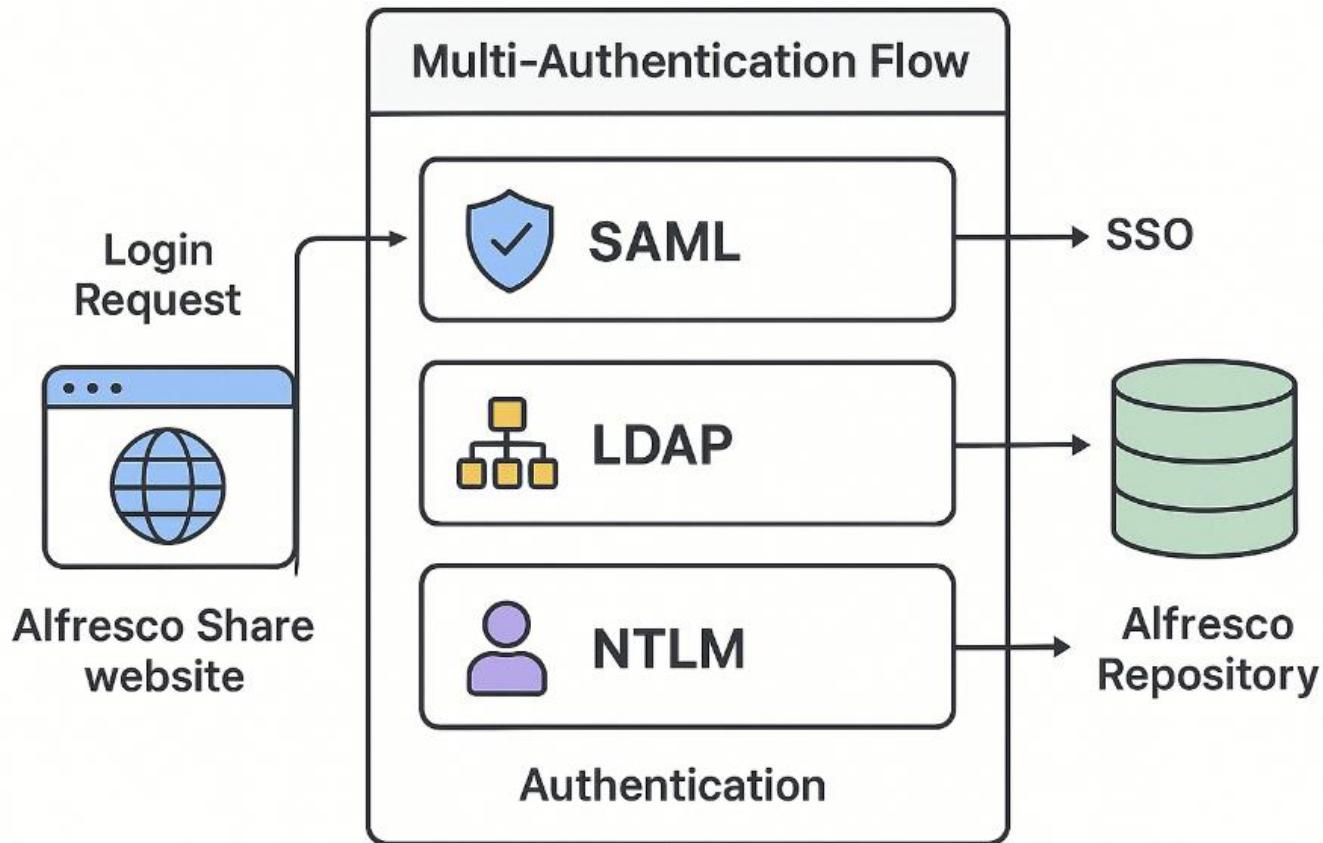
Apply

How does Alfresco allow multiple authentication modes for a website and how it is used?



- Alfresco supports **multiple authentication subsystems** so that organizations can integrate different identity sources and access methods for their users — both internal (employees) and external (partners, customers).

How does Alfresco allow multiple authentication modes for a website and how it is used?





1. Alfresco Authentication Subsystems



Subsystem	Description
alfrescoNtIbm	Alfresco's built-in authentication using the database (default mode).
ldap-ad	Integrates with Microsoft Active Directory (LDAP + Kerberos).
ldap	Generic LDAP authentication for other directory servers (e.g., OpenLDAP).
passthru	Pass-through authentication that delegates to an external domain controller for SSO.
kerberos	Allows Kerberos SSO integration (SPNEGO).
saml	SAML 2.0 SSO integration, typically with an identity provider (Keycloak, Okta, ADFS).
external	Allows web-tier authentication through a proxy or external header (used for reverse proxies or SSO gateways).



2. Enabling Multiple Authentication Modes



- In alfresco-global.properties, you can **chain multiple subsystems** so Alfresco tries them in sequence when a user logs in.
- Example:
 - authentication.chain=alfrescoNtLm1:alfrescoNtLm,ldap1:ldap-ad,saml1:saml
- Here:
 - Alfresco will first check **alfrescoNtLm** (local users).
 - Then check **LDAP/AD** for domain users.
 - Then try **SAML** for single sign-on via an IdP.
 - You can mix any number of subsystems, and each one is configured separately under:
 - alfresco/tomcat/shared/classes/alfresco/extension/subsystems/authentication/



2. Enabling Multiple Authentication Modes



[Containers](#) / docker-all-in-one-ac-s-1

docker-all-in-one-ac-s-1

< be52538ff689 ⚡ [alfresco-content-services-all-in-one:developer](#) STATUS Running (21 minutes ago)

[8080:8080](#) ↗ [8888:8888](#) ↗

Logs Inspect Bind mounts Exec **Files** Stats

[Hide file editor](#)

Name ↑	Note	Size	Last modified	Mode
> transform			4 months ago	drwxr-xr-x
alfresco-global.properties	MODIFIED	3.7 kB	2 days ago	-rw-r--r--
> temp	MODIFIED		2 days ago	drwxrwx---

/usr/local/tomcat/shared/classes/alfresco-global.properties

Properties files ▾

```
79 # Embedded broker without persistence
80 messaging.broker.url=vm://localhost?broker.persistent=false
81
82 # Disable ATS
83 transform.service.enabled=false
84 local.transform.service.enabled=false
85 legacy.transform.service.enabled=false
86 ldap.authentication.active=true
87 authentication.chain=localLDAP:ldap,alfrescoNTLM1:alfrescoNTLM
88 #ldap.authentication.allowGuestLogin=false
89 ldap.authentication.userNameFormat=cn=%s,ou=people,o=sevenseas
90 ldap.authentication.java.naming.provider.url=ldap://host.docker.internal:389
```



3. How It Is Used for a Website

- When you deploy **Alfresco Share** or a **custom web client**, these authentication subsystems apply automatically — the web tier (Tomcat/Share) delegates login requests to Alfresco Repository, which authenticates through the configured chain.
- **Example use case:**
- **Internal employees** log in automatically using SSO (Kerberos or SAML).
- **External partners/customers** use username/password (LDAP or local Alfresco accounts).
- Both user types access the same Alfresco web portal but are authenticated differently.
- This hybrid model is common for **portal-style Alfresco deployments**.



4. Practical Usage Flow

- Example with a combined setup:
- A user visits the Alfresco Share website.
- The request is intercepted by the web-tier authentication filter.
- If a valid SSO token (SAML/Kerberos) is found → user is logged in automatically.
- If not → Alfresco shows a login form.
- The entered credentials are tested sequentially through configured subsystems:
 - First against Alfresco internal users (alfrescoNtIbm).
 - Then against LDAP/AD.
 - Finally against SAML if configured.
- On successful authentication, Alfresco generates a session ticket and grants access.



Apache Directory Studio for LDAP

- Initialize and start gerrit.
- docker run -d -p 389:10389 openfrontier/apacheds
- Open your Apache Directory Studio and create a new ldap connection to ldap://:389 with
- **uid=admin,ou=system as the BindDN**
- **secret as the bind BindPassword.**
- Use a docker named volume as the storage.
- DO NOT mount host volumes in particular directories under the home directory like ~/apacheds as a volume!!! Use named volume instead!!!
- Create a named volume for the ApacheDS.
- docker volume create apacheds_data
- Initialize and start ApacheDS using the volume created above.
- **docker run -d -p 389:10389 -v apacheds_data:/var/lib/apacheds openfrontier/apacheds**



Apache Directory Studio Ldap Conn

LDAP - Apache Directory Studio

File Edit Navigate Search LDAP Window Help

LDAP Browser

DIT

- Root DSE (5)
 - dc=example,dc=com
 - ou=schema
 - ou=config (1)
 - ads-directoryServiceId=default (5)
 - ads-changeLogId=defaultChangeLog
 - ads-journalId=defaultJournal
 - ou=interceptors
 - ou=partitions
 - ou=servers
 - ou=system (6)
 - ou=consumers
 - ou=users
 - prefNodeName=sysPrefRoot
 - uid=admin
 - ou=configuration
 - ou=groups

Properties for "dockerldap"

Connection

Network Parameter Authentication Browser Options Edit Options

Connection name: dockerldap

Network Parameter

Hostname: localhost

Port: 389

Connection timeout (s): 30

Encryption method: No encryption

Server certificates for LDAP connections can be managed in the '[Certificate Validation](#)' preference page.

Read-Only (prevents any add, delete, modify or rename operation)

Outline

There is no active editor that provides an outline.

Modification Logs Search Logs Error Log

Open Connection (...ished at 6:28pm) Error while openin...d not be resolved.

ENG IN 18:30 26-10-2025



Apache Directory Studio

LDAP - Apache Directory Studio

File Edit Navigate Search LDAP Window Help

LDAP Browser

- DIT
 - Root DSE (5)
 - dc=example,dc=com
 - ou=schema
 - ou=config (1)
 - ads-directoryServiceId=default
 - ou=system (6)
 - ou=consumers
 - ou=users
 - prefNodeName=sysPrefRoot
 - uid=admin
 - ou=configuration
 - ou=groups
- Searches
- Bookmarks

Connections LDAP Servers ApacheDS 2.0.0

Properties for "ApacheDS 2.0.0"

Connection

Network Parameter Authentication Browser Options Edit Options

Authentication Method: Simple Authentication

Authentication Parameter:
Bind DN or user: uid=admin,ou=system
Bind password: (Red curly bracket highlights this field)

Save password

SASL Settings
Kerberos Settings

Apply and Close Cancel

Workspace Log

The screenshot shows the Apache Directory Studio interface. On the left is the LDAP Browser with a tree view of the directory structure under 'DIT'. The 'Root DSE' node has five children: 'dc=example,dc=com', 'ou=schema', and three 'ou=system' entries. The 'ou=system' entry has six children: 'ou=consumers', 'ou=users', 'prefNodeName=sysPrefRoot', 'uid=admin', 'ou=configuration', and 'ou=groups'. Below the browser are tabs for 'Connections', 'LDAP Servers', and 'ApacheDS 2.0.0'. On the right is a 'Properties' dialog for the 'ApacheDS 2.0.0' connection. The 'Connection' tab is selected, showing the 'Authentication' section with 'Simple Authentication' selected. Under 'Authentication Parameter', the 'Bind DN or user' field contains 'uid=admin,ou=system' and the 'Bind password' field contains a redacted password ('*****'). A red curly bracket highlights the 'Bind password' field. Other tabs in the properties dialog include 'Network Parameter', 'Authentication', 'Browser Options', and 'Edit Options'. At the bottom of the properties dialog are 'Apply and Close' and 'Cancel' buttons.



Apache Directory Studio

LDAP - Ildapconn - Configuration - Apache Directory Studio

File Edit Navigate Search LDAP Window Help

LDAP Browser

DIT

- Root DSE (6)
 - New Connection...
 - New Connection Folder...
- Close Connection
- Open Schema Browser
- Reload Schema

Search Bookmarks

- Copy Connection Ctrl+C
- Paste Ctrl+V
- Delete Connection Delete
- Rename Connection... F2
- Import
- Export
- Open Configuration (highlighted with a red box)
- Extended Operations

Connections

- Idapco (selected)

Properties Alt+Enter

Overview

LDAP/LDAPS Servers

- Enable LDAP Server
Port: 10389 (Default: 10389)
- Enable LDAPS Server
Port: 10636 (Default: 10636)

Advanced LDAP/LDAPS configuration...

Kerberos Server

- Enable Kerberos Server
Port: 6008E (Default: 60088)
- Enable Kerberos Change Password Server
Port: 60464 (Default: 60464)

Advanced Kerberos configuration...

Partitions

There are 3 partitions defined:

- example (dc=example,dc=com) [JDBM]
- sevenseas (o=sevenseas) [JDBM]

Advanced Partitions configuration...

Options

- Allow Anonymous Access
- Enable Access Control
- Enable Hidden Password

Outline

No active editor that provides an outline.

Modification Logs Search Logs Error Log

Workspace Log

type filter text

Message	Plug-in	Date
⚠ Job found still running after platform shutdown. Jobs should be canceled by	org.eclipse.core....	26/10/25, 10:45:43
⚠ Unexpected exception.	org.apache.directory...	26/10/25, 9:45:43
⚠ ERR_13204_NULL_ATTRIBUTE_ID The ID should not be null or empty	org.apache.directory...	26/10/25, 7:45:43
✗ Error while importing LDIF	org.apache.directory...	26/10/25, 7:45:43
✗ org.apache.directory.studio.connection.core.io.StudioLdapException: [LDAP: error code 13204 - null attribute ID]	org.apache.directory...	26/10/25, 7:45:43
✗ Error while importing LDIF	org.apache.directory...	26/10/25, 7:45:43
✗ org.apache.directory.studio.connection.core.io.StudioLdapException: [LDAP: error code 13204 - null attribute ID]	org.apache.directory...	26/10/25, 7:45:43

Progress

No operations to display at this time.

9+ 21:41 ENG IN 04-11-2025



Apache Directory Studio

LDAP - Idapconn - Configuration - Apache Directory Studio

File Edit Navigate Search LDAP Window Help

LDAP Browser

DIT

- Root DSE (6)
 - dc=example,dc=com
 - ou=schema
 - o=sevenseas (2)
 - ou=groups
 - ou=people
 - ou=config
 - ou=system

Searches

Bookmarks

Connections

Idapconn

Overview

LDAP/LDAPS Servers

- Enable LDAP Server
Port: 10385 (Default: 10389)
- Enable LDAPS Server
Port: 10636 (Default: 10636)

[Advanced LDAP/LDAPS configuration...](#)

Partitions

There are 3 partitions defined:

- example (dc=example,dc=com) [JDBM]
- sevenseas (o=sevenseas) [JDBM]

[Advanced Partitions configuration...](#)

Kerberos Server

- Enable Kerberos Server
Port: 6008E (Default: 60088)
- Enable Kerberos Change Password Server
Port: 60464 (Default: 60464)

[Advanced Kerberos configuration...](#)

Options

- Allow Anonymous Access
- Enable Access Control
- Enable Hidden Password

Outline

There is no active editor that provides an outline.

Modification Logs

Search Logs

Error Log

Workspace Log

Message

Message	Plug-in	Date
⚠ Job found still running after platform shutdown. Jobs should be canceled by	org.eclipse.core...	26/10/25, 11:09:42 AM
⚠ Unexpected exception.	org.apache.directory...	26/10/25, 9:09:42 AM
✖ ERR_13204_NULL_ATTRIBUTE_ID The ID should not be null or empty	org.apache.directory...	26/10/25, 7:09:42 AM
✖ Error while importing LDIF	org.apache.directory.studio.connection.core.io.StudioLdapException: [LDAP org.apache.directory...	26/10/25, 7:09:42 AM
✖ Error while importing LDIF	org.apache.directory.studio.connection.core.io.StudioLdapException: [LDAP org.apache.directory...	26/10/25, 7:09:42 AM

Progress

No operations to display at this time.



Apache Directory Studio

Initially LDIF details won't be there

The screenshot shows the Apache Directory Studio interface. The left pane displays the LDAP Browser with a tree view of the directory structure. The right pane shows the 'Partitions' tab. A red arrow points from the 'ou=people' entry under 'Root DSE (7)' in the browser to the 'sevenses (o=sevenses) [JDBM]' partition in the partitions list. Another red arrow points from the 'sevenses' partition in the list to its 'Partition General Details' panel. The 'Partition General Details' panel shows the following configuration:

- Partition Type: JDBM
- ID: sevenses
- Suffix: o=sevenses
- Synchronization On Write

The 'Context Entry' panel shows the attribute/value pairs for the context entry of the partition:

Attribute	Value
objectclass	domain
objectclass	top

Auto-generate context entry from suffix DN

The 'Partition Specific Settings' panel includes:
Cache Size: 100
 Enable Optimizer

Indexed Attributes
Set the indexed attributes of the partition.



Apache Directory Studio

[Containers](#) / ecstatic_sanderson

ecstatic_sanderson



7bd33051247e [Open](#) [openfrontier/apacheds:latest](#)
389:10389 [Open](#)

Logs Inspect Bind mounts Exec Files Stats

INFO | jvm 1 | 2025/11/04 13:59:24 |
INFO | jvm 1 | 2025/11/04 13:59:36 | [13:59:36] WARN [org.apache.directory.api.ldap.model.entry.DefaultAttribute] -
ERR_13207_VALUE_ALREADY_EXISTS The value '1.3.6.1.4.1.42.2.27.8.5.1' already exists in the attribute (supportedControl)
INFO | jvm 1 | 2025/11/04 13:59:36 | [13:59:36] WARN [org.apache.directory.api.ldap.model.entry.DefaultAttribute] -
ERR_13207_VALUE_ALREADY_EXISTS The value '1.2.840.113556.1.4.841' already exists in the attribute (supportedControl)
INFO | jvm 1 | 2025/11/04 13:59:36 | [13:59:36] WARN [org.apache.directory.api.ldap.model.entry.DefaultAttribute] -
ERR_13207_VALUE_ALREADY_EXISTS The value '1.3.6.1.4.1.4203.1.9.1.2' already exists in the attribute (supportedControl)
INFO | jvm 1 | 2025/11/04 13:59:36 | [13:59:36] WARN [org.apache.directory.api.ldap.model.entry.DefaultAttribute] -
ERR_13207_VALUE_ALREADY_EXISTS The value '1.2.840.113556.1.4.319' already exists in the attribute (supportedControl)
INFO | jvm 1 | 2025/11/04 13:59:36 | [13:59:36] WARN [org.apache.directory.api.ldap.model.entry.DefaultAttribute] -
ERR_13207_VALUE_ALREADY_EXISTS The value '1.2.840.113556.1.4.528' already exists in the attribute (supportedControl)
INFO | jvm 1 | 2025/11/04 13:59:37 | [13:59:37] WARN [org.apache.directory.server.core.DefaultDirectoryService] - You
didn't change the admin password of directory service instance 'default'. Please update the admin password as soon as
possible to prevent a possible security breach.
INFO | jvm 1 | 2025/11/04 13:59:39 |
INFO | jvm 1 | 2025/11/04 13:59:39 |

Restart ldap

STATUS
Running (2 hours ago)



Restart





Apache Directory Studio

Restart LDAP server after creating the partition

LDAP - C:\Users\Del\ApacheDirectoryStudio\metadata\plugins\org.apache.directory.studio.ldapservers\servers\2759e939-ddcb-41d1-80ab-c767581f82b9\conf\ou=config.ldif - Apache Directory Studio

File Edit Navigate Search LDAP Window Help

LDAP Browser

No entry selected ou=config.ldif

LDAP/LDAPS Servers

DIT

Root DSE (5)

- dc=example,dc=com
- ou=schema
- ou=config (1)
 - ads-directoryServiceId=default
- ou=system (6)
 - ou=consumers
 - ou=users
 - prefNodeName=sysPrefRoot
 - uid=admin
 - ou=configuration
 - ou=groups

Searches Bookmarks

LDAP/LDAPS Servers

Enable LDAP Server

Port: 10389 (Default: 10389)

Address: 0.0.0.0 (Default: 0.0.0.0)

NbThreads: 8 (Default: 4)

BackLog Size: 50 (Default: 50)

Enable LDAPS Server

Port: 10636 (Default: 10636)

Address: 0.0.0.0 (Default: 0.0.0.0)

NbThreads: 3 (Default: 4)

BackLog Size: 50 (Default: 50)

Supported Authentication Mechanisms

Simple GSSAPI

CRAM-MD5 DIGEST-MD5

NTLM Provider: com.foo.Bar

GSS-SPNEGO Provider: com.foo.Bar

SASL Settings

Advanced



Apache Directory Studio

File Edit Navigate Search LDAP Window Help

LDAP Browser

DIT

Root DSE (7)

- dc=example,dc=com
- dc=sevenseas,dc=com
- dc=vheb,dc=com
- ou=schema
- ou=config
- ou=system

Searches

Bookmarks

DN: dc=sevenseas,dc=com

Attribute Description Value

objectclass LDIF Import

objectclass

dc

LDIF Import

Please select a connection and the LDIF to import

LDIF File:

Import into: ApacheDS 2.0.0

Logging

Enable logging

Use default logfile

Use custom logfile

Overwrite existing logfile

Options

Update existing entries

Continue on error

?

Select LDIF File

Organize New folder

Name

course content

presentations

PolicyAPI

alfresco

This PC

Local Disk (C:)

DATA (D:)

New Volume (E:)

New Volume (F:)

Connections LDAP Servers



Apache Directory Studio After LDIF Import

LDAP - o=sevenseas - ApacheDS 2.0.0 - Apache Directory Studio

File Edit Navigate Search LDAP Window Help

LDAP Browser

DN: o=sevenseas

Attribute Description	Value
objectclass	domain (structural)
objectclass	extensibleObject (auxiliary)
objectclass	top (abstract)
dc	sevenseas
o	sevenseas

Connections LDAP Servers

The screenshot shows the Apache Directory Studio interface after importing LDIF data. The left pane displays a tree view of the LDAP directory structure under the base DN 'o=sevenseas'. The tree includes nodes for 'dc=example,dc=com', 'dc=vheb,dc=com', 'ou=schema', and 'o=sevenseas (2)'. The 'o=sevenseas (2)' node is expanded, showing 'ou=groups (2)', 'ou=ranks', 'ou=crews (3)' containing entries for 'cn=HMS Bounty', 'cn=HMS Lydia', and 'cn=HMS Victory', and 'ou=people (11)' containing entries for various historical figures like Cornelius Buckley, Fletcher Christian, Horatio Hornblower, Horatio Nelson, John Fryer, John Hallett, Moultrie Crystal, Thomas Masterman Hardy, Thomas Quist, William Bligh, and William Bush. The right pane shows the details of the 'o=sevenseas' entry with its attributes and values. The 'objectclass' attribute has three values: 'domain (structural)', 'extensibleObject (auxiliary)', and 'top (abstract)'. The 'dc' attribute is set to 'sevenseas'. The 'o' attribute is also set to 'sevenseas'.

Alfresco Platform Configuration – Authentication sync with LDAP server



```
c:\ @89a02a9d5837:/usr/local/tomcat/shared/classes
5acaac19e825 quay.io/alfresco/alfresco-control-center:10.0.1          "/docker-entrypoint..." 11 hours ago Up 2 hours (healthy) 8080/tcp docker-co
mpose-control-center-1
a8297ced0452 elasticsearch:8.17.3           "/bin/tini -- /usr/l..." 11 hours ago Up 2 hours (healthy) 0.0.0.0:9200->9200/tcp, [:] docker-co
:9200->9200/tcp, 0.0.0.0:9300->9300/tcp, [:]9300->9300/tcp
mpose-elasticsearch-1
e70689132f05 quay.io/alfresco/activemq:5.18-jre17-rockylinux8   "/bin/sh -c './init..." 11 hours ago Up 2 hours (healthy) 0.0.0.0:5672->5672/tcp, [:] docker-co
:5672->5672/tcp, 0.0.0.0:8161->8161/tcp, [:]8161->8161/tcp, 0.0.0.0:61613->61613/tcp, [:]61613->61613/tcp, 0.0.0.0:61616->61616/tcp, [:]61616->61616/tcp docker-co
mpose-activemq-1
89a02a9d5837 quay.io/alfresco/alfresco-content-repository:25.2.0 "catalina.sh run -se..." 11 hours ago Up 2 hours (healthy) 8000/tcp, 8080/tcp, 10001/tcp docker-co
tcp
mpose-alfresco-1
3323e46a911a quay.io/alfresco/alfresco-shared-file-store:4.2.0  "/bin/sh -c 'java $J..." 11 hours ago Up 2 hours (healthy) 0.0.0.0:8099->8099/tcp, [:] docker-co
:8099->8099/tcp
mpose-shared-file-store-1
76e9f37e6bbff quay.io/alfresco/alfresco-digital-workspace:7.0.1  "/docker-entrypoint..." 11 hours ago Up 2 hours (healthy) 8080/tcp docker-co
mpose-digital-workspace-1
3d167d052cb6 traefik:3.1           "/entrypoint.sh --ap..." 11 hours ago Up 2 hours (healthy) 0.0.0.0:8080->8080/tcp, [:] docker-co
:8080->8080/tcp, 0.0.0.0:8888->8888/tcp, [:]8888->8888/tcp
mpose-proxy-1

C:\Windows\System32>docker cp <all-in-one-id>:/usr/local/tomcat/webapps/alfresco/WEB-INF/lib/alfresco-repository-23.2.0.60.jar c:/alfresco

C:\Windows\System32>cd E:\alfresco\23102025

C:\Windows\System32>docker exec -it cae87f242dd9 /bin/bash
[transform-all-in-one@cae87f242dd9 /]$ ls
'Apache 2.0.txt'      Perl-Artistic-license.txt    dev          home     libreoffice.txt   media      pdfium.txt   run       sys      var
ImageMagick-license.txt  afs            docker-entrypoint.sh  lib       licenses        mnt      proc        sbin      tmp
OFL.txt               bin            etc             lib64    lost+found      opt      root        srv       usr
[transform-all-in-one@cae87f242dd9 /]$ exit
exit

C:\Windows\System32>docker exec -it 89a02a9d5837 /bin/bash
[alfresco@89a02a9d5837 tomcat]$ ls
LICENSE NOTICE alf_data alfresco-mmt amps apr bin conf lib logs native-jni-lib shared temp webapps work
[alfresco@89a02a9d5837 tomcat]$ cd shared
[alfresco@89a02a9d5837 shared]$ cd classes
[alfresco@89a02a9d5837 classes]$ ls
alfresco_alfresco-global.properties ✓
[alfresco@89a02a9d5837 classes]$ -
```

Alfresco Platform Configuration – Authentication sync with LDAP server



```
c:\ Select @89a02a9d5837:/usr/local/tomcat/webapps/alfresco/WEB-INF/lib
E:\alfresco\23102025>docker exec -it 89a02a9d5837 /bin/bash
[alfresco@89a02a9d5837 tomcat]$ ls
LICENSE NOTICE alf_data alfresco-mmt amps apr bin conf lib logs native-jni-lib shared temp webapps work
[alfresco@89a02a9d5837 tomcat]$ cd webapps
[alfresco@89a02a9d5837 webapps]$ cd share
bash: cd: share: No such file or directory
[alfresco@89a02a9d5837 webapps]$ ls
ROOT _vti_bin alfresco api-explorer
[alfresco@89a02a9d5837 webapps]$ cd alfresco
[alfresco@89a02a9d5837 alfresco]$ ls
META-INF WEB-INF admin cmis-browser-app cmisfs css error.jsp favicon.ico images index.jsp scripts
[alfresco@89a02a9d5837 alfresco]$ cd WEB-INF
[alfresco@89a02a9d5837 WEB-INF]$ ls
classes cmis10 cmis11 lib licenses web-application-context.xml web.xml
[alfresco@89a02a9d5837 WEB-INF]$ cd lib
[alfresco@89a02a9d5837 lib]$ ls
FastInfoset-2.1.1.jar
HdrHistogram-2.1.12.jar
LatencyUtils-2.0.3.jar
ST4-4.3.1.jar
SparseBitSet-1.3.jar
accessors-smart-2.5.2.jar
acagi-security-0.8.2_patched.jar
acs-event-model-1.0.2.jar
activemq-client-jakarta-5.18.6.jar
activiti-bpmn-converter-5.23.0.jar
activiti-bpmn-model-5.23.0.jar
activiti-engine-5.23.0.jar
activiti-image-generator-5.23.0.jar
activiti-process-validation-5.23.0.jar
activiti-repo-connector-1.14.jar
activiti-spring-5.23.0.jar
alfresco-aos-module-3.3.0.jar
alfresco-aos-repo-binding-3.3.0.jar
alfresco-authorised-users-8.174.jar
alfresco-core-25.2.0.64.jar
alfresco-data-model-25.2.0.64.jar
alfresco-device-sync-repo-5.2.0.jar
alfresco-elasticsearch-shared-5.1.1.jar
alfresco-enterprise-crypto-7.0.jar
alfresco-enterprise-remote-api-25.2.0.59.jar
alfresco-enterprise-repository-25.2.0.59.jar
alfresco-goolgedocs-enterprise-config-1.0.1.jar
alfresco-goolgedrive-repo-base-4.1.0.jar
alfresco-goolgedrive-repo-enterprise-4.1.0.jar
jackson-core-2.17.2.jar
jackson-databind-2.17.2.jar
jackson-dataformat-yaml-2.17.2.jar
jackson-jakarta-rs-base-2.17.2.jar
jackson-jakarta-rs-json-provider-2.17.2.jar
jackson-jaxrs-base-2.18.1.jar
jackson-jaxrs-json-provider-2.18.1.jar
jakarta-module-jakarta-xmlbind-annotations-2.17.2.jar
jackson-module-jaxb-annotations-2.17.2.jar
jai-imageio-core-1.4.0.jar
jakarta.activation-2.0.1.jar
jakarta.annotation-api-3.0.0.jar
jakarta.inject-api-2.0.1.jar
jakarta.jms-api-3.1.0.jar
jakarta.json-api-2.1.3.jar
jakarta.json.bind-api-2.0.0.jar
jakarta.jws-api-3.0.0.jar
jakarta.mail-2.0.1.jar
jakarta.transaction-api-2.0.1.jar
jakarta.ws.rs-api-3.1.0.jar
jakarta.xml.bind-api-4.0.2.jar
jakarta.xml.soap-api-3.0.2.jar
jakarta.xml.ws-api-3.0.1.jar
jasypt-1.9.3.jar
jasypt-spring3-1.9.3.jar
java-libpst-0.9.3.jar
java-uuid-generator-5.1.0.jar
javassist-3.80.2-GA.jar
jaxb-core-4.0.5.jar
```



ENG
IN



19:29
26-10-2025
2/11

Alfresco Platform Configuration – Authentication sync with LDAP server



```
Open Select @89a02a9d5837:/usr/local/tomcat/webapps/alfresco/WEB-INF/lib
alfresco-enterprise-crypto-7.0.jar
alfresco-enterprise-remote-api-25.2.0.59.jar
alfresco-enterprise-repository-25.2.0.59.jar
alfresco-googledocs-enterprise-config-1.0.1.jar
alfresco-googledrive-repo-base-4.1.0.jar
alfresco-googledrive-repo-enterprise-4.1.0.jar
alfresco-greenmail-7.1.jar
alfresco-heartbeat-data-sender-1.1.1.jar
alfresco-jlan-embed-7.5.jar
alfresco-jmx-logger-0.0.14.jar
alfresco-remote-api-25.2.0.64.jar
alfresco-repository-25.2.0.64.jar
alfresco-share-services-25.2.0.64.jar
alfresco-shared-file-store-data-model-4.2.0.jar
alfresco-sync-events-1.2.14.jar
alfresco-text-gen-1.4.jar
alfresco-transform-model-5.2.0.jar
alfresco-trashcan-cleaner-2.4.2.jar
alfresco-xmlfactory-1.3.jar
angus-activation-2.0.2.jar
antlr-3.5.3.jar
antlr-runtime-3.5.3.jar
aopalliance-repackaged-3.0.6.jar
aoservices-4.0.11-A1.jar
apache-mime4j-core-0.8.11.jar
apache-mime4j-dom-0.8.11.jar
asm-9.7.1.jar
aspectjrt-1.9.22.1.jar
avalon-framework-api-4.3.1.jar
avalon-framework-impl-4.3.1.jar
bcmail-jdk18on-1.79.jar
bcpkix-jdk18on-1.79.jar
bcprov-jdk18on-1.79.jar
bcutil-jdk18on-1.79.jar
bliki-3.0.2.jar
bsf-2.4.0.jar
camel-activemq-4.11.0.jar
camel-amqp-4.11.0.jar
camel-api-4.11.0.jar
camel-base-4.11.0.jar
camel-base-engine-4.11.0.jar
camel-bean-4.11.0.jar
camel-browse-4.11.0.jar
camel-cluster-4.11.0.jar
camel-controlbus-4.11.0.jar
jasypt-1.9.3.jar
jasypt-spring3-1.9.3.jar
java-libpst-0.9.3.jar
java-uuid-generator-5.1.0.jar
javassist-3.30.2-GA.jar
jaxb-core-4.0.5.jar
jaxb-runtime-4.0.5.jar
jaxen-1.2.0.jar
jcip-annotations-1.0-1.jar
jcl-over-slf4j-2.0.10.jar
jdom2-2.0.6.1.jar
jersey-client-3.1.10.jar
jersey-common-3.1.10.jar
jersey-hk2-3.1.10.jar
jersey-media-json-binding-3.1.10.jar
jhightlight-1.1.0.jar
jibx-run-1.4.2.jar
jmatio-1.5.jar
jmxlogger-log4j-0.1.0-AlfrescoPatched.jar
joda-time-2.13.1.jar
json-20240303.jar
json-path-2.9.0.jar
json-simple-1.1.1.jar
json-smart-2.5.2.jar
jsr107cache-1.1.jar
jsr305-3.0.2.jar
juniversalchardet-2.4.0.jar
junnar-7.5.5.jar
jutf7-1.0.0.jar
jwarc-0.29.0.jar
kxml2-2.3.0.jar
lang-tag-1.7.jar
listenablefuture-9999.0-empty-to-avoid-conflict-with-guava.jar
log4j-api-2.24.3.jar
log4j-core-2.24.3.jar
log4j-slf4j2-impl-2.24.3.jar
lucene-analysis-common-9.7.0.jar
lucene-core-9.7.0.jar
lucene-queries-9.7.0.jar
lucene-queryparser-9.7.0.jar
lucene-sandbox-9.7.0.jar
maven-artifact-3.8.6.jar
metadata-extractor-2.19.0.jar
micrometer-commons-1.14.3.jar
micrometer-core-1.11.2.jar
```

Alfresco Platform Configuration – Authentication sync with LDAP server



- docker cp
89a02a9d5837:/usr/local/tomcat/webapps/alfresco/WEB-INF/lib/alfresco-repository-25.2.0.64.jar .

Name	Date modified	Type	Size
branding	25-10-2025 19:54	File folder	
community	25-10-2025 20:29	File folder	
copy-from-template.js	26-10-2025 17:36	JS File	3 KB
docker-compose.yml	25-10-2025 20:25	YML File	20 KB
instructions.txt	24-10-2025 12:42	Text Document	1 KB
rps-logo.png	24-10-2025 16:48	PNG File	8 KB
sevenseas.ldif	26-10-2025 18:43	LDIF File	6 KB
sevenseas.ldif.log	26-10-2025 19:08	Text Document	8 KB
alfresco-repository-25.2.0.64.jar	15-07-2025 15:41	Executable Jar File	11,079 KB

Alfresco Platform Configuration – Authentication sync with LDAP server



- Rename jar file to zip
- Extract all

<input checked="" type="checkbox"/>	alfresco-repository-25.2.0.64	26-10-2025 20:03	File folder	
	branding	25-10-2025 19:54	File folder	
	community	25-10-2025 20:29	File folder	
	alfresco-repository-25.2.0.64 - Copy.jar	15-07-2025 15:41	Executable Jar File	11,079 KB
	alfresco-repository-25.2.0.64.zip	15-07-2025 15:41	Compressed (zipped)...	11,079 KB
	copy-from-template.js	26-10-2025 17:36	JS File	3 KB
	docker-compose.yml	25-10-2025 20:25	YML File	20 KB
	instructions.txt	24-10-2025 12:42	Text Document	1 KB
	rps-logo.png	24-10-2025 16:48	PNG File	8 KB
	sevenseas.ldif	26-10-2025 18:43	LDIF File	6 KB
	sevenseas.ldif.log	26-10-2025 19:08	Text Document	8 KB

Alfresco Platform Configuration – Authentication sync with LDAP server



- docker cp alfresco-repository-25.2.0.64-Copy 89a02a9d5837:/usr/local/tomcat/webapps/alfresco/WEB-INF/lib

Repository

```
Administrator: Command Prompt
docker cp [OPTIONS] SRC_PATH|- CONTAINER:DEST_PATH
Run 'docker cp --help' for more information
E:\alfresco\23102025>docker cp alfresco-repository-25.2.0.64-Copy 89a02a9d5837:/usr/local/tomcat/webapps/alfresco/WEB-INF/lib
Successfully copied 34.4MB to 89a02a9d5837:/usr/local/tomcat/webapps/alfresco/WEB-INF/lib
E:\alfresco\23102025>
```

Alfresco Platform Configuration – Authentication sync with LDAP server



```
c:\ @89a02a9d5837:/usr/local/tomcat/webapps/alfresco/WEB-INF/lib
C:\Windows\System32>docker exec -it 89a02a9d5837 /bin/bash
[alfresco@89a02a9d5837 tomcat]$ ls
LICENSE NOTICE alf_data alfresco-mmt amps apr bin conf lib logs native-jni-lib shared temp webapps work
[alfresco@89a02a9d5837 tomcat]$ cd webapps
[alfresco@89a02a9d5837 webapps]$ ls
ROOT _vti_bin alfresco api-explorer
[alfresco@89a02a9d5837 webapps]$ cd alfresco
[alfresco@89a02a9d5837 alfresco]$ ls
META-INF WEB-INF admin cmis-browser-app cmisfs css error.jsp favicon.ico images index.jsp scripts
[alfresco@89a02a9d5837 alfresco]$ cd WEB-INF
[alfresco@89a02a9d5837 WEB-INF]$ ls
classes cmis10 cmis11 lib licenses web-application-context.xml web.xml
[alfresco@89a02a9d5837 WEB-INF]$ cd lib
[alfresco@89a02a9d5837 lib]$ pwd
/usr/local/tomcat/webapps/alfresco/WEB-INF/lib
[alfresco@89a02a9d5837 lib]$ ls
FastInfoSet-2.1.1.jar
HdrHistogram-2.1.12.jar
LatencyUtils-2.0.3.jar
ST4-4.3.1.jar
SparseBitSet-1.3.jar
accessors-smart-2.5.2.jar
acegi-security-0.8.2_patched.jar
acs-event-model-1.0.2.jar
activemq-client-jakarta-5.18.6.jar
activiti-bpmn-converter-5.23.0.jar
activiti-bpmn-model-5.23.0.jar
activiti-engine-5.23.0.jar
activiti-image-generator-5.23.0.jar
activiti-process-validation-5.23.0.jar
activiti-repo-connector-1.14.jar
activiti-spring-5.23.0.jar
alfresco-aos-module-3.3.0.jar
alfresco-aos-repo-binding-3.3.0.jar
alfresco-authorised-users-8.174.jar
alfresco-core-25.2.0.64.jar
alfresco-data-model-25.2.0.64.jar
alfresco-device-sync-repo-5.2.0.jar
alfresco-elasticsearch-shared-5.1.1.jar
alfresco-enterprise-crypto-7.0.jar
alfresco-enterprise-remote-api-25.2.0.59.jar
alfresco-enterprise-repository-25.2.0.59.jar
alfresco-googledocs-enterprise-config-1.0.1.jar
alfresco-googledrive-repo-base-4.1.0.jar
alfresco-googledrive-repo-enterprise-4.1.0.jar
jackson-annotations-2.17.2.jar
jackson-core-2.17.2.jar
jackson-databind-2.17.2.jar
jackson-dataformat-yaml-2.17.2.jar
jackson-jakarta-rs-base-2.17.2.jar
jackson-jakarta-rs-json-provider-2.17.2.jar
jackson-jaxrs-base-2.18.1.jar
jackson-jaxrs-json-provider-2.18.1.jar
jackson-module-jakarta-xmlbind-annotations-2.17.2.jar
jackson-module-jaxb-annotations-2.17.2.jar
jai-imageio-core-1.4.0.jar
jakarta.activation-2.0.1.jar
jakarta.annotation-api-3.0.0.jar
jakarta.inject-api-2.0.1.jar
jakarta.jms-api-3.1.0.jar
jakarta.json-api-2.1.3.jar
jakarta.json.bind-api-2.0.0.jar
jakarta.jws-api-3.0.0.jar
jakarta.mail-2.0.1.jar
jakarta.transaction-api-2.0.1.jar
jakarta.ws.rs-api-3.1.0.jar
jakarta.xml.bind-api-4.0.2.jar
jakarta.xml.soap-api-3.0.2.jar
jakarta.xml.ws-api-3.0.1.jar
jaspyt-1.9.3.jar
jaspyt-spring3-1.9.3.jar
java-libpst-0.9.3.jar
java-uuid-generator-5.1.0.jar
javassist-3.30.2-GA.jar
```



Alfresco Platform Configuration – Authentication sync with LDAP server



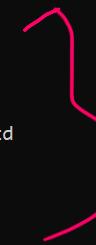
```
cmd @89a02a9d5837:/usr/local/tomcat/webapps/alfresco/WEB-INF/lib
alfresco-aos-repo-binding-3.3.0.jar
alfresco-authorised-users-8.174.jar
alfresco-core-25.2.0.64.jar
alfresco-data-model-25.2.0.64.jar
alfresco-device-sync-repo-5.2.0.jar
alfresco-elasticsearch-shared-5.1.1.jar
alfresco-enterprise-crypto-7.0.jar
alfresco-enterprise-remote-api-25.2.0.59.jar
alfresco-enterprise-repository-25.2.0.59.jar
alfresco-googledocs-enterprise-config-1.0.1.jar
alfresco-googledrive-repo-base-4.1.0.jar
alfresco-googledrive-repo-enterprise-4.1.0.jar
alfresco-greenmail-7.1.jar
alfresco-heartbeat-data-sender-1.1.1.jar
alfresco-jlan-embed-7.5.jar
alfresco-jmx-logger-0.0.14.jar
alfresco-remote-api-25.2.0.64.jar
alfresco-repository-25.2.0.64-Copy
alfresco-repository-25.2.0.64.jar
alfresco-share-services-25.2.0.64.jar
alfresco-shared-file-store-data-model-4.2.0.jar
alfresco-sync-events-1.2.14.jar
alfresco-text-gen-1.4.jar
alfresco-transform-model-5.2.0.jar
alfresco-trashcan-cleaner-2.4.2.jar
alfresco-xmlfactory-1.3.jar
angus-activation-2.0.2.jar
antlr-3.5.3.jar
antlr-runtime-3.5.3.jar
aopalliance-repackaged-3.0.6.jar
aoservices-4.0.11-A1.jar
apache-mime4j-core-0.8.11.jar
apache-mime4j-dom-0.8.11.jar
asm-9.7.1.jar
aspectjrt-1.9.22.1.jar
avalon-framework-api-4.3.1.jar
avalon-framework-impl-4.3.1.jar
bcmail-jdk18on-1.79.jar
bcpkix-jdk18on-1.79.jar
bcprov-jdk18on-1.79.jar
bcutil-jdk18on-1.79.jar
bliki-3.0.2.jar
bsf-2.4.0.jar
camel-activemq-4.11.0.jar
camel-amqp-4.11.0.jar
jakarta.jws-api-3.0.0.jar
jakarta.mail-2.0.1.jar
jakarta.transaction-api-2.0.1.jar
jakarta.ws.rs-api-3.1.0.jar
jakarta.xml.bind-api-4.0.2.jar
jakarta.xml.soap-api-3.0.2.jar
jakarta.xml.ws-api-3.0.1.jar
jaspyt-1.9.3.jar
jaspyt-spring3-1.9.3.jar
java-libpst-0.9.3.jar
java-uuid-generator-5.1.0.jar
javassist-3.30.2-GA.jar
jaxb-core-4.0.5.jar
jaxb-runtime-4.0.5.jar
jaxen-1.2.0.jar
jcip-annotations-1.0-1.jar
jcl-over-slf4j-2.0.10.jar
jdom2-2.0.6.1.jar
jersey-client-3.1.10.jar
jersey-common-3.1.10.jar
jersey-hk2-3.1.10.jar
jersey-media-json-binding-3.1.10.jar
jhightlight-1.1.0.jar
jibx-run-1.4.2.jar
jmatio-1.5.jar
jmxlogger-log4j-0.1.0-AlfrescoPatched.jar
joda-time-2.13.1.jar
json-20240303.jar
json-path-2.9.0.jar
json-simple-1.1.1.jar
json-smart-2.5.2.jar
jsr107cache-1.1.jar
jsr305-3.0.2.jar
juniversalchardet-2.4.0.jar
junrar-7.5.5.jar
jutf7-1.0.0.jar
jwarc-0.29.0.jar
kxml2-2.3.0.jar
lang-tag-1.7.jar
listenablefuture-9999.0-empty-to-avoid-conflict-with-guava.jar
log4j-api-2.24.3.jar
log4j-core-2.24.3.jar
log4j-slf4j2-impl-2.24.3.jar
lucene-analysis-common-9.7.0.jar
lucene-core-9.7.0.jar
```



Alfresco Platform Configuration – Authentication sync with LDAP server



```
[alfresco@89a02a9d5837 ~]$ cd /usr/local/tomcat/webapps/alfresco/WEB-INF/lib/alfresco-repository-25.2.0.64-Copy
hk2-utils-3.0.6.jar                                     truelicense-xml-1_29-patched.jar
htmllexer-2.1.jar                                       txw2-4.0.5.jar
htmlparser-2.1.jar                                      vorbis-java-core-0.8.jar
httpasyncclient-4.1.5.jar                                vorbis-java-tika-0.8.jar
httpclient-4.5.14.jar                                   woodstox-core-7.0.0.jar
httpclient5-5.5.jar                                     wsdl4j-1.6.3.jar
httpcore-4.4.16.jar                                    xalan-2.7.3-alfresco.jar
httpcore-nio-4.4.16.jar                                 xercesImpl-2.12.2.jar
httpcore5-5.3.4.jar                                    xml-resolver-1.2.jar
httpcore5-h2-5.3.4.jar                                 xmlbeans-5.2.2.jar
httpmime-4.5.14.jar                                   xmldb-schema-core-2.3.1.jar
icu4j-75.1.jar                                         xmlsec-4.0.3.jar
istack-commons-runtime-4.1.2.jar                         xmpbox-2.0.31.jar
j2objc-annotations-3.0.0.jar                           xmpcore-6.1.11.jar
jackcess-4.0.5.jar                                     xz-1.9.jar
jackcess-encrypt-4.0.2.jar                            yasson-3.0.4.jar
[alfresco@89a02a9d5837 lib]$
[alfresco@89a02a9d5837 lib]$ cd alfresco-repository-25.2.0.64-Copy
[alfresco@89a02a9d5837 alfresco-repository-25.2.0.64-Copy]$ ls
META-INF THIRD-PARTY.txt alfresco alfresco-global.properties.sample builddef.lst lib3party org queryRegister.dtd
[alfresco@89a02a9d5837 alfresco-repository-25.2.0.64-Copy]$
```



Alfresco Platform Configuration – Authentication sync with LDAP server



```
① @89a02a9d5837:/usr/local/tomcat/webapps/alfresco/WEB-INF/lib/alfresco-repository-25.2.0.64-Copy/alfresco/subsystems/Authentication/ldap
[alfresco@89a02a9d5837 lib]$ cd alfresco-repository-25.2.0.64-Copy
[alfresco@89a02a9d5837 alfresco-repository-25.2.0.64-Copy]$ ls
META-INF THIRD-PARTY.txt alfresco alfresco-global.properties.sample builddef.lst lib3party org queryRegister.dtd
[alfresco@89a02a9d5837 alfresco-repository-25.2.0.64-Copy]$ ls
META-INF THIRD-PARTY.txt alfresco alfresco-global.properties.sample builddef.lst lib3party org queryRegister.dtd
[alfresco@89a02a9d5837 alfresco-repository-25.2.0.64-Copy]$ cd alfresco
[alfresco@89a02a9d5837 alfresco]$ ls
action-services-context.xml           deprecated-model-bootstrap-context.xml   module-context.xml          reset-password-context.xml
activiti-context.xml                 desktop                           mt                         rule-services-context.xml
activities                          discussions-services-context.xml network-authentication-context.xml scheduled-jobs-context.xml
alfresco-shared.properties           distributionpolicies-context.xml node-locator-context.xml scheduler-core-context.xml
application-context-core.xml        domain                            node-services-context.xml schemacomp
application-context-highlevel.xml   download-services-context.xml notification-services-context.xml script-services-context.xml
application-context.xml            encryption-context.xml           oauth1-credentials-store-services-context.xml site-services-context.xml
attributes-service-context.xml     events-context.xml             oauth2-credentials-store-services-context.xml slingshot-context.xml
audit                             events2-context.xml           opencmis-context.xml       smartfolder-context.xml
audit-services-context.xml          extension                           opencmis-qnamefilter-context.xml social-publishing-context.xml
authentication-services-context.xml favourites-service-context.xml ownable-services-context.xml solr-facets-context.xml
authority-services-context.xml      form-services-context.xml       patch                         spring
blog-context.xml                   heartbeat                          public-services-context.xml st-context.xml
bootstrap                           ibatis                            public-services-security-context.xml subsystems
bootstrap-context.xml              imap                               quickshare-services-context.xml tagging-services-context.xml
bulk-import-context.xml            import-export-context.xml    logging-context.xml       template-services-context.xml
cache-context.xml                  invitation-service-context.xml links-services-context.xml templates
caches.properties                 mimetype                          minimal-context.xml     thumbnail
calendar-services-context.xml     messages                           ml                           tika
client                            messaging-context.xml       metadata                      transfer-service-context.xml
comment-services-context.xml       metadata                          mimetype                     transforms
content-services-context.xml      minimal-context.xml         model                         tx-cache-context.xml
copy-services-context.xml          ml                                model-specific-services-context.xml usage-services-context.xml
core-services-context.xml          model                            module                       webdav-context.xml
custom-model-management-services-context.xml
dao
dbscripts
deprecated-context.xml
[alfresco@89a02a9d5837 alfresco]$ cd subsystems
[alfresco@89a02a9d5837 subsystems]$ ls
ActivitiesFeed Authentication ContentStore Events Messaging Replication Search Subscriptions Synchronization Transformers email fileServers imap sysAdmin
[alfresco@89a02a9d5837 subsystems]$ cd Authentication
[alfresco@89a02a9d5837 Authentication]$ ls
alfrescoNtlm common-ldap-context.xml external identity-service kerberos ldap ldap-ad
[alfresco@89a02a9d5837 Authentication]$ cd ldap
[alfresco@89a02a9d5837 ldap]$ ls
ldap-authentication-context.xml ldap-authentication.properties
[alfresco@89a02a9d5837 ldap]$ }
```

② {

ENG
IN20:56
26-10-2025



Apache Directory Studio Edit LDAP properties

Screenshot of the Apache Directory Studio interface showing the "Edit LDAP properties" feature for a Docker container.

Left Sidebar:

- Containers
- Images
- Volumes
- Dev Environments BETA
- Docker Scout
- Learning center
- Extensions
- Add Extensions

Container Details:

docker-alfrescoall-acs-1
alfresco-content-services-alfrescoall:development
c22b47626eee

Ports: 8080:8080 8888:8888

Status: Running (2 hours ago)

File Editor:

Logs **Inspect** **Bind mounts** **Exec** **Files** **Stats** Hide file editor

Name	Note	Size	Last modified	Mode
identity-service	ADDED		57 minutes ago	drwxr-xr-x
kerberos	ADDED		57 minutes ago	drwxr-xr-x
ldap	ADDED		57 minutes ago	drwxr-xr-x

File Path: /usr/local/tomcat/webapps/alfresco/WEB-INF/lib/alfresco-repository-23.2.0.60-copy/alfresco/subsystems/Authentication/ldap/authentication.properties

Properties:

```
# This flag enables use of this LDAP subsystem for authentication. It may be
# that this subsystem should only be used for synchronization, in which case
# this flag should be set to false.
ldap.authentication.active=true

#
# This properties file brings together the common options for LDAP authentication rather than editing the bean definitions
#
ldap.authentication.allowGuestLogin=true
# How to map the user id entered by the user to that passed through to LDAP
# - simple
#   - this must be a DN and would be something like
#     uid=%s,ou=People,dc=company,dc=com
# - digest
#   - usually pass through what is entered
#     %s
# If not set, an LDAP query involving ldap.synchronization.personQuery and ldap.synchronization.userIdAttributeName will
# be performed to resolve the DN dynamically. This allows directories to be structured and doesn't require the user ID to
```



Apache Directory Studio Edit LDAP properties

- ldap.authentication.active=true
- authentication.chain=localLDAP:ldap,alfrescoNtlm1:alfrescoNtlm
- #ldap.authentication.allowGuestLogin=false
- ldap.authentication.userNameFormat=cn=%s,ou=people,o=sevenseas
- ldap.authentication.java.naming.provider.url=ldap://host.docker.internal:389
- ldap.synchronization.active=true
- ldap.synchronization.java.naming.security.principal=uid\=admin,ou\=system
- ldap.synchronization.java.naming.security.credentials=secret
- ldap.synchronization.groupQuery=(objectclass\=groupOfUniqueNames)
- ldap.synchronization.personQuery=(objectclass\=person)
- ldap.synchronization.groupSearchBase=ou\=groups,o\=sevenseas
- ldap.synchronization.userSearchBase=ou\=people,o\=sevenseas
- ldap.synchronization.groupMemberAttributeName=uniquemember



Apache Directory Studio Edit LDAP properties

/usr/local/tomcat/shared/classes/alfresco-global.properties

```
86  
87 ## Authentication with local Directory server  
88 ldap.authentication.active=true  
89 authentication.chain=localLDAP:ldap,alfrescoNtlm1:alfrescoNtlm  
90 ldap.authentication.java.naming.provider.url=ldap://host.docker.internal:389  
91 ldap.authentication.userNameFormat=cn=%s,ou=people,o=sevenseas  
92  
93 ## Synchronization of user and group info from directory server  
94 ldap.synchronization.active=true  
95 ldap.synchronization.java.naming.security.principal=uid\=admin,ou\=system  
96 ldap.synchronization.java.naming.security.credentials=secret  
97 ldap.synchronization.groupQuery=(objectclass\=groupOfUniqueNames)  
98 ldap.synchronization.personQuery=(objectclass\=person)  
99 ldap.synchronization.groupSearchBase=ou\=groups,o\=sevenseas  
100 ldap.synchronization.userSearchBase=ou\=people,o\=sevenseas  
101 ldap.synchronization.groupMemberAttributeName=uniqueMember  
102  
103  
104
```



Apache Directory Studio Edit share-config-custom

docker-alfrescoall-share-1
alfresco-share-alfrescoall:development
6f883c066224
8180:8080 9898:8888

STATUS
Running (2 minutes ago)

Logs Inspect Bind mounts Exec **Files** Stats Hide file editor

Name	Note	Size	Last modified	Mode
shared	MODIFIED	10.7 KB	1 year ago	drwxr-xr-x
classes	MODIFIED	10.7 KB	4 months ago	drwxr-xr-x
alfresco	MODIFIED	10.7 KB	4 months ago	drwxr-xr-x

/usr/local/tomcat/shared/classes/alfresco/web-extension/share-config-custom.xml

```
1 <alfresco-config>
2
3   <config evaluator="string-compare" condition="Users" replace="true">
4     <users>
5       <!-- minimum length for username and password -->
6       <username-min-length>2</username-min-length>
7       <password-min-length>3</password-min-length>
8       <show-authorization-status>false</show-authorization-status>
9     </users>
10    <!-- This enables/disables the Add External Users Panel on the Add Users page. -->
11    <enable-external-users-panel>false</enable-external-users-panel>
12  </config>
```

<https://docs.alfresco.com/content-services/7.2/develop/share-ext-points/share-config/>



Apache Directory Studio Edit share-config-custom

- <config evaluator="string-compare" condition="Users" replace="true">
- <users>
- <!-- minimum length for username and password -->
- <username-min-length>2</username-min-length>
- <password-min-length>3</password-min-length>
- <show-authorization-status>false</show-authorization-status>
- </users>
- <**enable-external-users-panel**>true</**enable-external-users-panel**>
- </config>



Apache Directory Studio Edit LDAP properties

Home My Files Shared Files Sites ▾ Tasks ▾ People Repository Admin Tools Debug Menu ▾



Admin Tools

▼ Tools

- Application
- Category Manager
- Module Browser
- Node Browser
- Search Manager
- Tag Manager
- Model Manager
- Sites Manager

Repository

- Replication Jobs

Users and Groups

- Groups
- Users

Groups

Search

Browse

Path: HMS Bounty

	ALFRESCO_ADMINISTRATORS
	ALFRESCO_MODEL_ADMINISTRATORS
	ALFRESCO_SEARCH_ADMINISTRATORS
	ALFRESCO_SYSTEM_ADMINISTRATORS
	EMAIL_CONTRIBUTORS
	HMS Bounty
	HMS Lydia
	HMS Victory
	SITE_ADMINISTRATORS

<< < (1 of 1) > >>

<< < (1 of 1) > >>



Apache Directory Studio Edit LDAP properties

Screenshot of Apache Directory Studio showing the User Search results for 'Thomas'.

The search results table has columns: Name, User Name, Job Title, Email, Usage, and Quota.

Name	User Name	Job Title	Email	Usage	Quota
Thomas Hardy	thardy		thardy@royalnavy.mod.uk	0 bytes	
Thomas Quist	tquist		tquist@royalnavy.mod.uk	0 bytes	

A red curly brace highlights the 'Usage' and 'Quota' columns across both user entries. A red arrow points from the text 'Disable status. Need to Enable' towards the 'Usage' column of the first user entry.

Disable status. Need to Enable



Apache Directory Studio Edit LDAP properties

localhost:8180/share/page/console/admin-console/users#state=panel%3Dview%26userid%3Dthardy%26search%3DThomas

Insert title here Empire New Tab How to use Assertio... Browser Automation... node.js - How can I... Freelancer-dev-810... Courses New Tab Airtel 4G Hotspot nt8F83 All Bookmarks

Home My Files Shared Files Sites Tasks People Repository Admin Tools Debug Menu Administrator Search files, people, sites

Admin Tools

User Profile: Thomas Hardy

About

Thomas Hardy

Contact Information

Email: thardy@royalnavy.mod.uk

Telephone:

Mobile:

Skype:

IM:

Google Username:

Organization Details

Edit User Delete User

Tools

- Application
- Category Manager
- Module Browser
- Node Browser
- Search Manager
- Tag Manager
- Model Manager
- Sites Manager

Repository

Replication Jobs

Users and Groups

Groups

Users



Enable Account Status

```
alfrescoall-ass:
  image: alfresco/alfresco-search-services:2.0.3
  environment:
    SOLR_ALFRESCO_HOST: alfrescoall-acs
    SOLR_ALFRESCO_PORT: 8080
    SOLR_SOLR_HOST: alfrescoall-ass
    SOLR_SOLR_PORT: 8983
    SOLR_CREATE_ALFRESCO_DEFAULTS: alfresco,archive
    ALFRESCO_SECURE_COMMS: "secret"
    JAVA_TOOL_OPTIONS: "-Dalfresco.secureComms.secret=secret"
  ports:
    - "8983:8983"
  volumes:
    - alfrescoall-ass-volume:/opt/alfresco-search-services/contentstore
    - alfrescoall-ass-volume:/opt/alfresco-search-services/data
alfrescoall-activemq:
  image: alfresco/alfresco-activemq:5.16.1
  mem_limit: 4g
  ports:
    - 8161:8161 # Web Console
    - 5672:5672 # AMQP
    - 61616:61616 # OpenWire
    - 61613:61613 # STOMP
```

