

The logo consists of a square with a vertical gradient from green at the top to teal at the bottom. The word "Hyland" is centered in white serif font, with a small trademark symbol (TM) to the upper right of the 'd'.

Hyland™

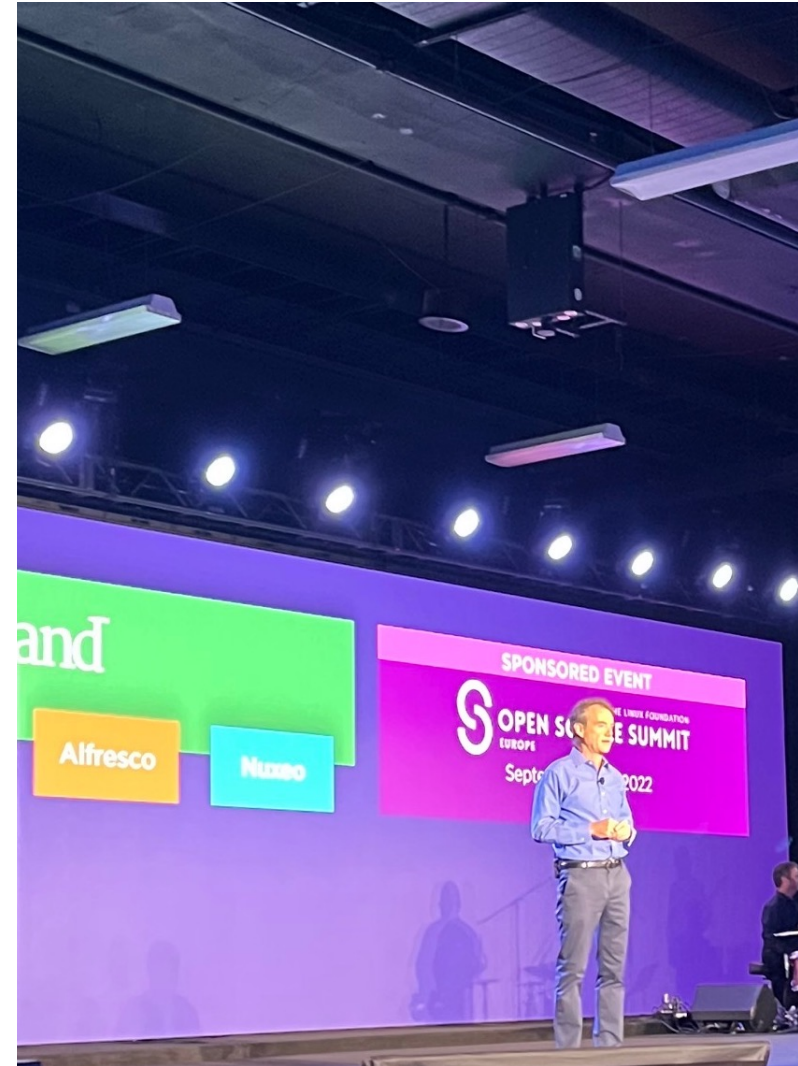
# Alfresco TTL #140

HANDOUT

Hyland™



# HYLAND COMMUNITY LIVE



# LINUX OPEN SOURCE SUMMIT EUROPE



# HYLAND & OPEN SOURCE

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- Linux Foundation member
- Open Source solutions
  - Alfresco and Nuxeo
  - Leader in ECM/CPS & DAM
  - More projects to come...
- Open Source user
  - To build products, services & solutions
  - Strong legal compliance

Hyland™

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NUXEO

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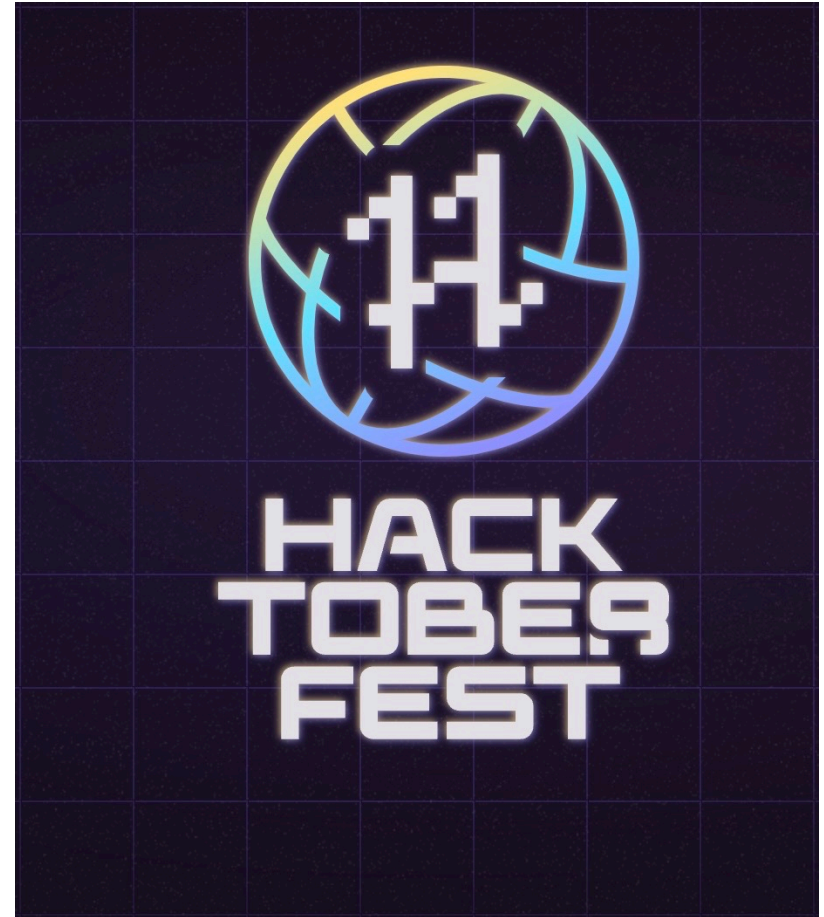
 Alfresco™

# HACKTOBER FEST

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- Alfresco will participate in 2022
- List of projects and repositories:

[github.com/AlfrescoLabs/hacktoberfest-2022](https://github.com/AlfrescoLabs/hacktoberfest-2022)



# DEVCON 2023

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- Lots of work going on to make it happen
- Beginning of 2023
- Hyland's Alfresco & Nuxeo
- More details and Call For Paper to come asap in a blog article



# RESOURCES FROM THE COMMUNITY



## From the Hub

- **Alfresco Community Admin Tools**, by shazada  
<https://hub.alfresco.com/t5/alfresco-content-services-blog/alfresco-community-admin-tools/ba-p/313742>
- **Using AWS OpenSearch with Alfresco Search Enterprise 3.1**, by angelborroy  
<https://hub.alfresco.com/t5/alfresco-content-services-blog/using-aws-opensearch-with-alfresco-search-enterprise-3-1/ba-p/313526>
- **Alfresco Login Issues & How To Solve Them**, by angelborroy  
<https://hub.alfresco.com/t5/alfresco-content-services-blog/alfresco-login-issues-amp-how-to-solve-them/ba-p/313602>
- **Removing latest transactions from Alfresco Search Services**, by angelborroy  
<https://hub.alfresco.com/t5/alfresco-content-services-blog/removing-latest-transactions-from-alfresco-search-services/ba-p/312909>

## Release

- **Activiti SDK v1.0.4**, by PJ Lucidi  
<https://github.com/OpenPj/activiti-sdk/releases/tag/v1.0.4>



# TTL SPEAKERS WANTED!



## Topics

- Open source projects
- Showcase of your best work
- Tips and tricks on Alfresco products
- Discussions on best practices
- And more! Just pitch it to the team
- Technical talk only!
- About Alfresco & Nuxeo or associated technologies



## Benefits for Speakers

- Visibility in the ecosystem
- Goodies
- And other advantages

# Empathetic approach to containerized deployments

**MAKE YOUR PRODUCT AVAILABLE FOR EVERYONE!**

Angel Borroy  
Developer Evangelist

Antoine Thomas  
Community Manager

September 29, 2022

The Hyland logo is a square with a green-to-blue gradient background. The word "Hyland" is written in white, serif font, with a trademark symbol (TM) to the upper right of the 'd'.

THE LINUX FOUNDATION

The logo for Open Source Summit Europe features a large, stylized black 'S' on the left. To its right, the words "OPEN SOURCE SUMMIT" are stacked vertically in a bold, black, sans-serif font, with "EUROPE" centered below them in a smaller font.The ContainerCon logo consists of a black circle with a white dot in the center, resembling a target or a stylized 'C'. To its right, the word "CONTAINERCON" is written in a bold, black, sans-serif font.

# AGENDA

Users, use cases & Docker solutions

Docker Extension

Docker Compose

Docker Compose Installer

Docker Compose SDK

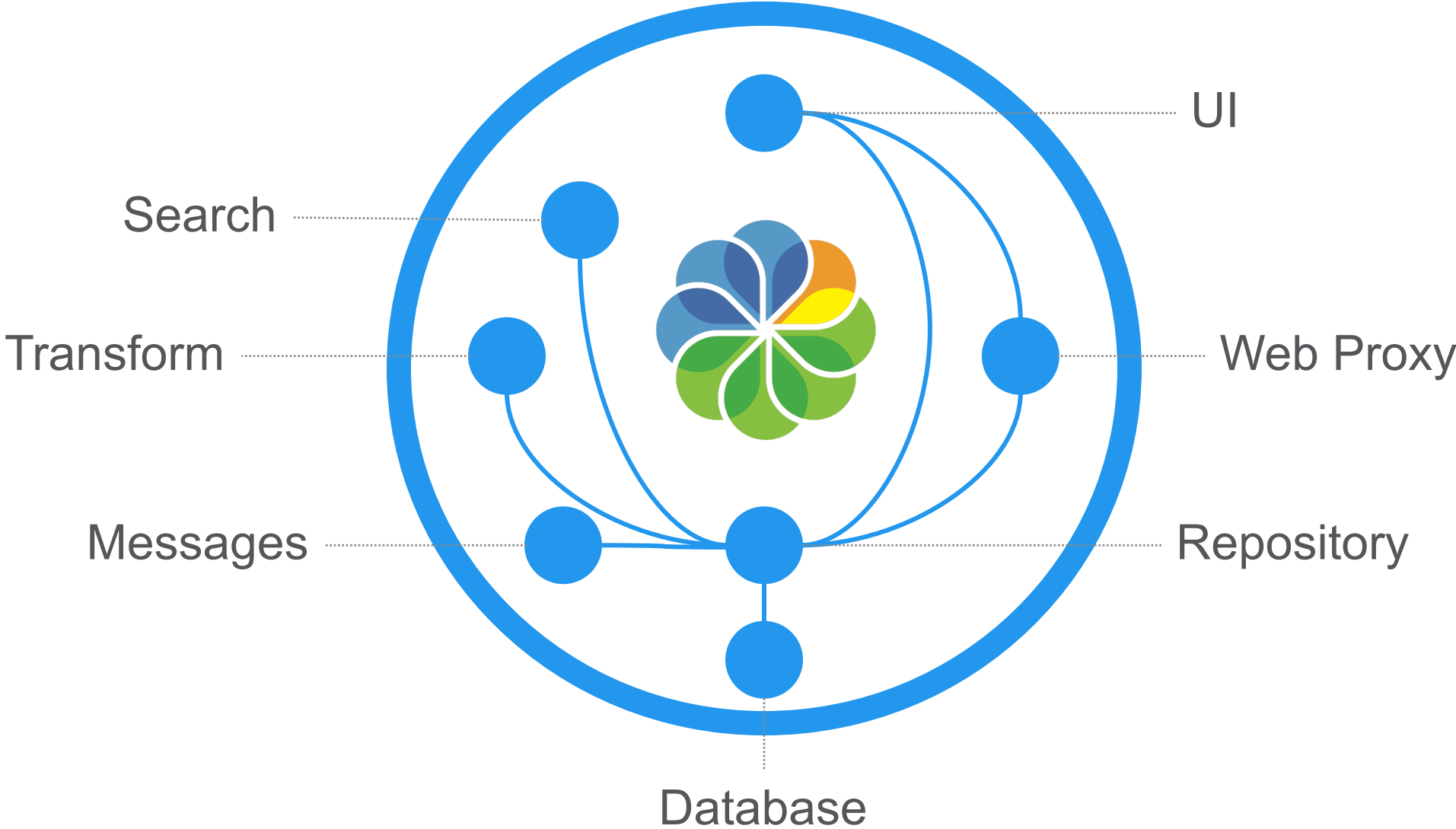
Conclusion & Questions

# USERS, USE CASES & DOCKER SOLUTIONS



# ALFRESCO CONTAINERS

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# WHY WE NEED DIFFERENT SOLUTIONS?

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## **OK, Alfresco is cloud native**

-> Designed to be deployed in production with Docker or Kubernetes

But before deployment at scale, there are some steps:

## **Evaluation**

-> Non tech people need an easy way to test and evaluate

-> Part of the decision process

## **Adoption**

-> Tech people need to try different configurations and prepare deployment in their information system

-> Integrators need a development environment

# USE CASES & DOCKER SOLUTION

No code / low code evaluation

*"I don't know what Docker is"*

**docker extension (desktop)**

Production / DevOps

*"I use Docker everyday"*

**docker compose installer**

Hyland™



Tech evaluation

*"I use Docker occasionally"*

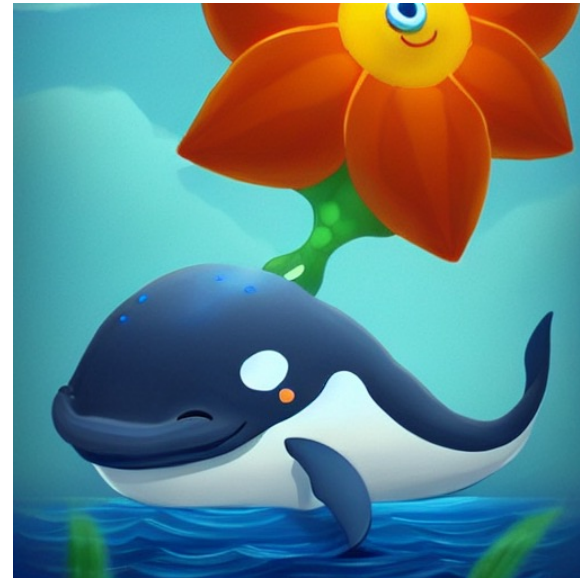
**docker compose**

Development / Integration

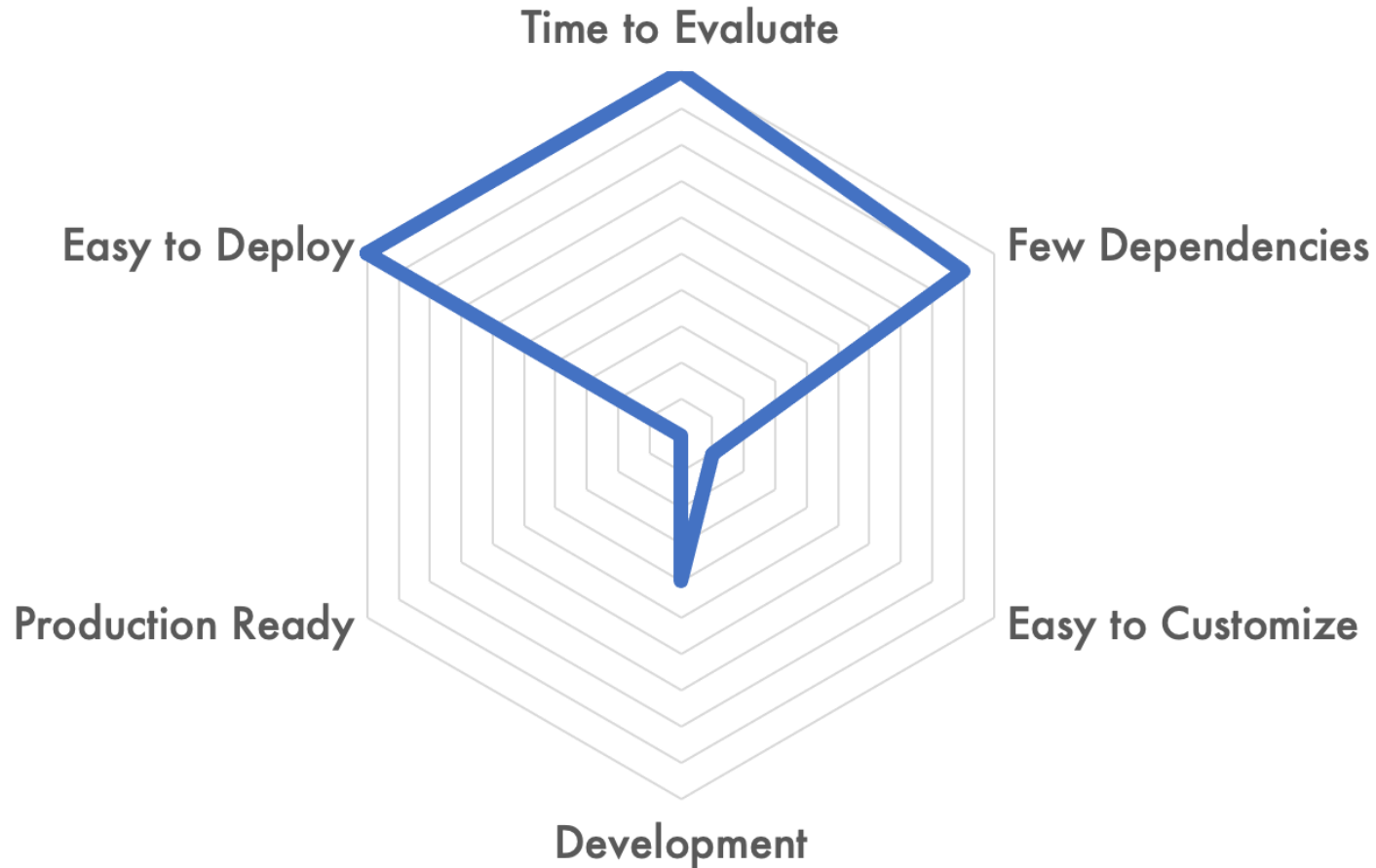
*"I use Docker for development"*

**docker compose sdk**

# DOCKER EXTENSION

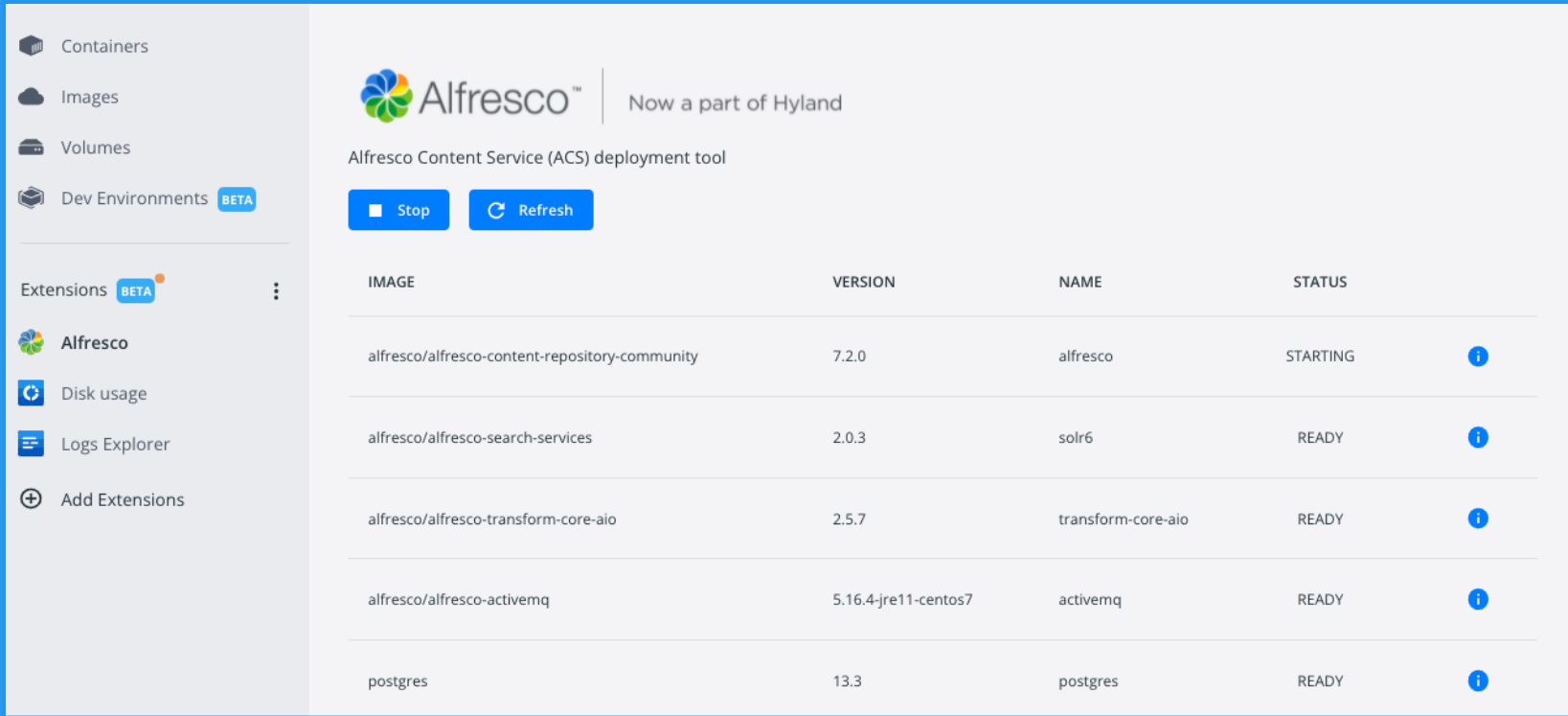






No code / low code evaluation  
*"I don't know what Docker is"*  
**docker extension (desktop)**

- One single click to deploy **out-of-the-box** Alfresco from **Docker Desktop** app
- No persistent storage
- No support for addon deployment
- Not recommended for **dev / prod** environments



A blue callout box with the word "Run" and an arrow points to the "Alfresco" extension in the Docker Desktop interface. The interface shows a sidebar with navigation options: Containers, Images, Volumes, Dev Environments (BETA), Extensions (BETA), Disk usage, Logs Explorer, and Add Extensions. The main area displays the Alfresco logo and "Now a part of Hyland". Below this, it says "Alfresco Content Service (ACS) deployment tool" and has "Stop" and "Refresh" buttons. A table lists the running containers:

IMAGE	VERSION	NAME	STATUS
alfresco/alfresco-content-repository-community	7.2.0	alfresco	STARTING
alfresco/alfresco-search-services	2.0.3	solr6	READY
alfresco/alfresco-transform-core-aio	2.5.7	transform-core-aio	READY
alfresco/alfresco-activemq	5.16.4-jre11-centos7	activemq	READY
postgres	13.3	postgres	READY

## ■ Requirements

- Docker Desktop
- *Not yet available in the Docker Extension Marketplace*



EXPERIMENTAL

# DEMO

# DOCKER EXTENSION

Containers  
Images  
Volumes  
Dev Environments **BETA**

Alfresco™ | Now a part of Hyland  
Alfresco Content Service (ACS) deployment tool

**Run**

Extensions **BETA**

- Alfresco
- Disk usage
- Logs Explorer
- Volumes Backup & Share
- Add Extensions



Containers  
Images  
Volumes  
Dev Environments **BETA**

Alfresco™ | Now a part of Hyland  
Alfresco Content Service (ACS) deployment tool

**Stop** **Refresh**

IMAGE	VERSION	NAME	STATUS
alfresco/alfresco-content-repository-community	7.2.0	alfresco	READY
alfresco/alfresco-search-services	2.0.3	solr6	READY
alfresco/alfresco-transform-core-ai	2.5.7	transform-core-ai	READY
alfresco/alfresco-activemq	5.16.4-jre11-centos7	activemq	READY
postgres	13.3	postgres	READY

Extensions **BETA**

- Alfresco
- Disk usage
- Logs Explorer
- Volumes Backup & Share
- Add Extensions

Alfresco is Ready!  
Type <http://localhost:8080/alfresco> in your browser and use default credentials



Containers  
Images  
Volumes  
Dev Environments **BETA**

Alfresco™ | Now a part of Hyland  
Alfresco Content Service (ACS) deployment tool

**Stopping...**

IMAGE	VERSION	NAME	STATUS
alfresco/alfresco-content-repository-community	7.2.0	alfresco	READY
alfresco/alfresco-search-services	2.0.3	solr6	READY
alfresco/alfresco-transform-core-ai	2.5.7	transform-core-ai	READY
alfresco/alfresco-activemq	5.16.4-jre11-centos7	activemq	READY
postgres	13.3	postgres	READY

Extensions **BETA**

- Alfresco
- Disk usage
- Logs Explorer
- Volumes Backup & Share
- Add Extensions

Alfresco is Ready!  
Type <http://localhost:8080/alfresco> in your browser and use default credentials admin/admin

localhost:8080/alfresco/

Alfresco™ | Welcome to Alfresco

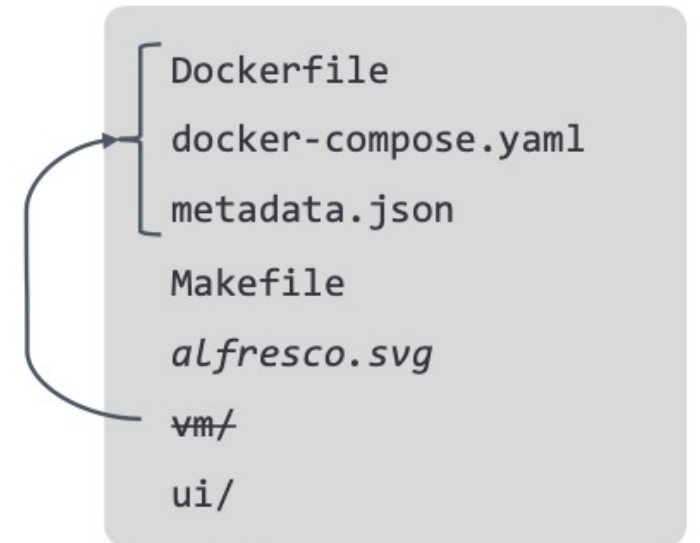
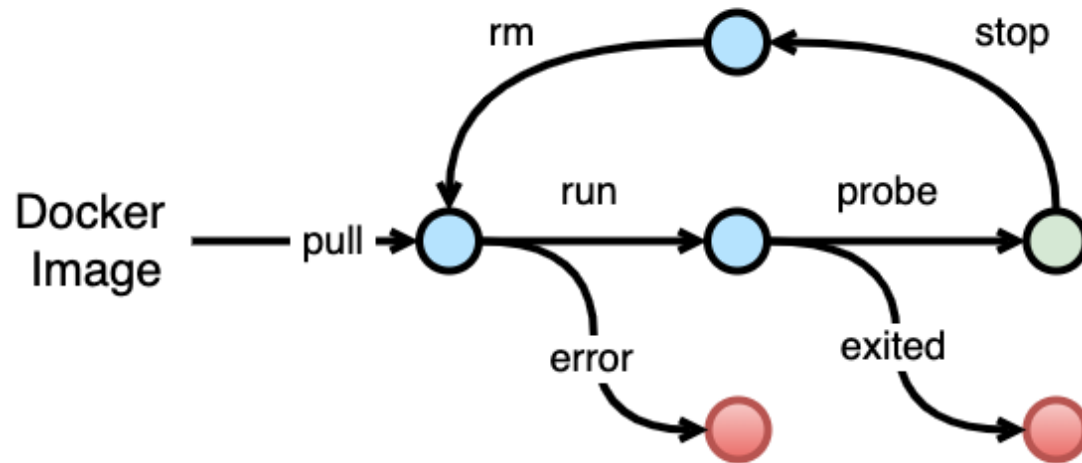
**Community - 7.2.0 (rb4a2e2d8-blocal)**

- Online Documentation
- Alfresco Share
- Alfresco WebDav
- Alfresco WebScripts Home (admin only - INTERNAL)
- Alfresco API Explorer
- Alfresco Administration Console (admin only)
- Alfresco Forums
- Alfresco JIRA
- 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

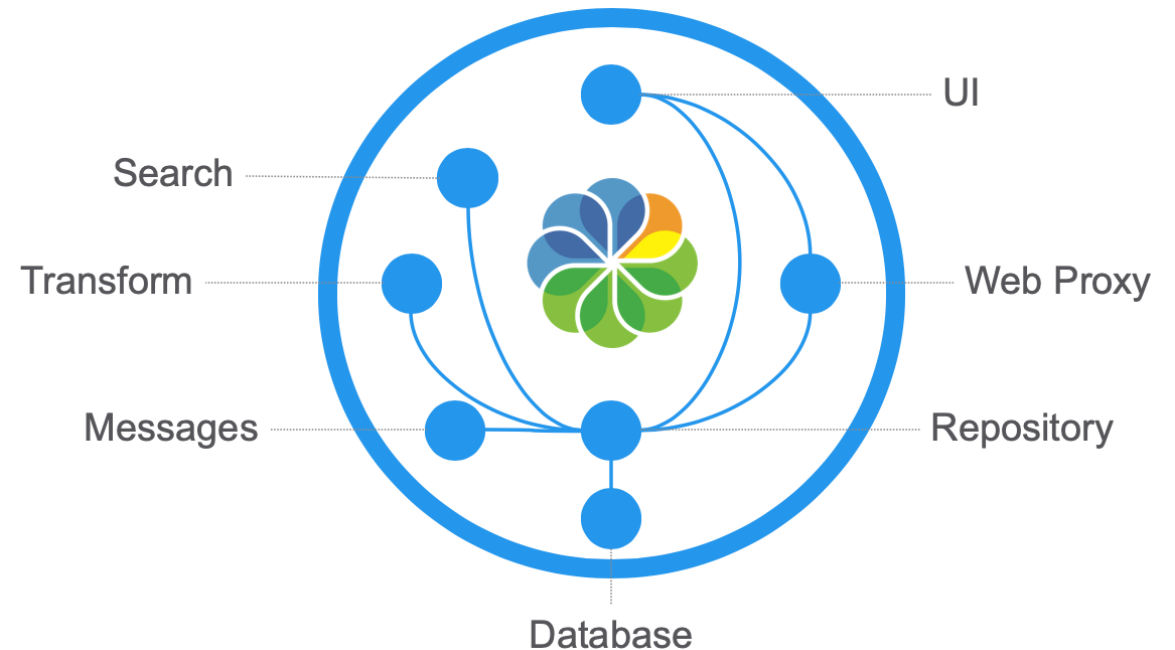
## Alfresco Docker Extension - Source Code

### **BETA** Docker Extension SDK

- UI: ReactJS + MUI
- Docker Desktop Client: Docker + Navigation



- Support for **ARM64** architecture
  - The rise of *Apple Silicon* chips
- Additional containers
  - UI
  - Web Proxy
- Increase verbosity and feedback
  - Container transitions: pulling, running,...
  - Error details and how to fix them
- Ability to manage a persistent deployment (*start-and-stop*)



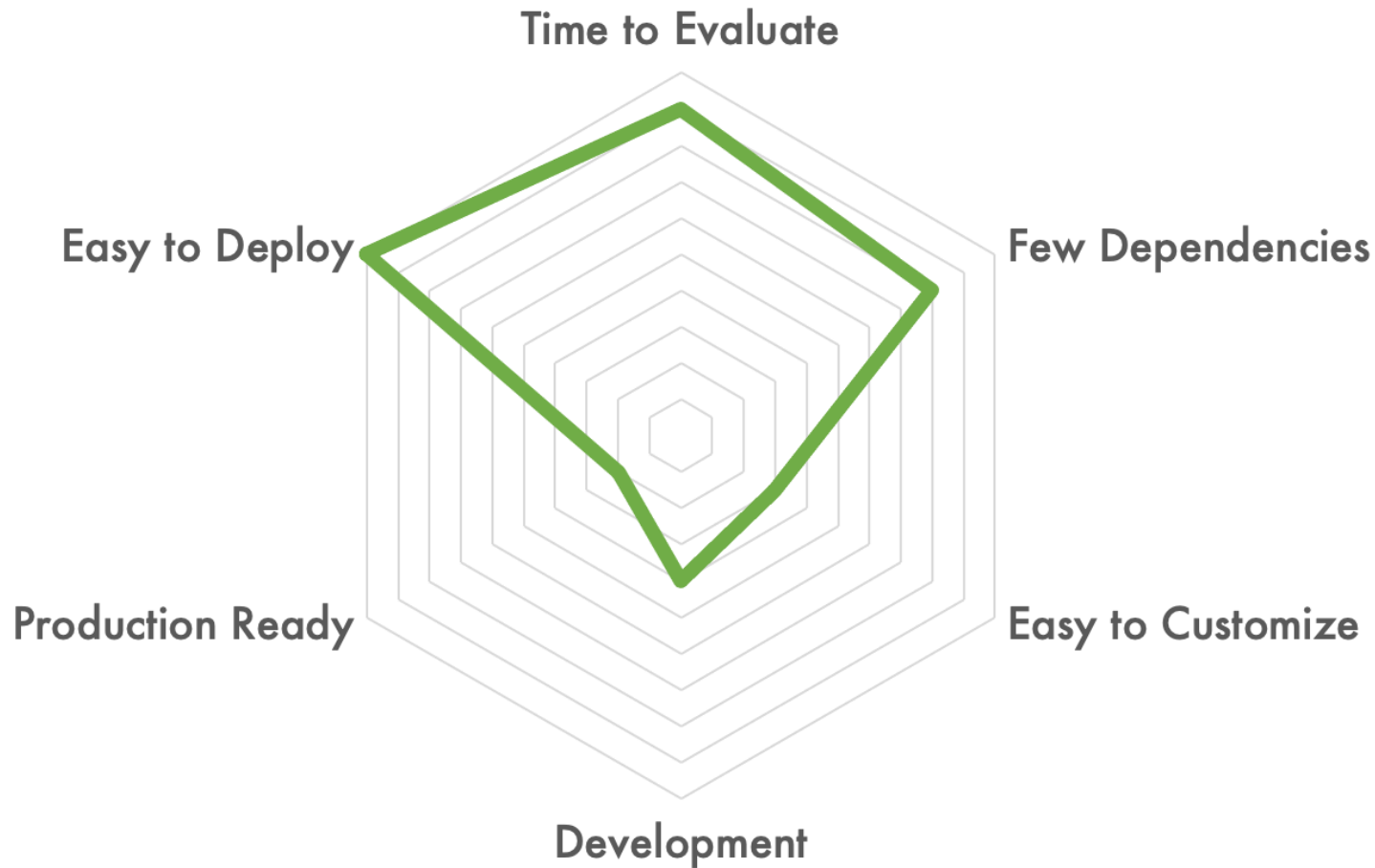
## Docker Extensions Publication Guidelines (from Docker)

- Test
  - For crashes, bugs, and performance issues
  - With potential users
    - Consider the needs of both new and existing users of your extension
  - On various platforms (Mac, Windows\*, Linux)
- Ensure
  - You've ran Docker Extension validation checks
  - The *UI styling* is in line with Docker Desktop guidelines
  - The Extension support both **light** and **dark** mode
- Read Docker Extension Terms of Service



# DOCKER COMPOSE





Tech evaluation  
*"I use Docker occasionally"*  
**docker compose**

- One single command to deploy **out-of-the-box** Alfresco from **Docker CLI**
- No persistent storage
- No support for addon deployment
- Not recommended for **prod** environments



## Alfresco Community Downloading Page

### 7.2 Community install

- For all ACS 7.2 Community install options refer to <https://docs.alfresco.com/content-services/community/install/>
- Containerized deployment using Docker. Follow the instructions for installing using Docker Compose, <https://docs.alfresco.com/content-services/community/install/containers/docker-compose/>
- Non-containerized deployment using Ansible. Follow the instructions for installing using Ansible, <https://docs.alfresco.com/content-services/community/install/ansible/>

\*For further Docker setup details please visit GitHub.



## ■ Requirements

- Docker Desktop
- Docker Compose
- Git Client

## Install using Docker Compose

Use this information to quickly start up Community Edition using Docker Compose.

**Note:** While Docker Compose is often used for production deployments, the Docker Compose file provided is recommended for development and test environments only. Customers are expected to adapt this file to their own requirements, if they intend to use Docker Compose to deploy a production environment.

To deploy Community Edition using Docker Compose, download and install [Docker](#) →, then follow the steps below. Make sure that you've reviewed the [prerequisites](#) ↓ before continuing.

1. Clone the project locally, and change directory to the project's `docker-compose` folder:

```
git clone https://github.com/Alfresco/acs-deployment.git
cd acs-deployment/docker-compose
```

**Note:** Make sure that exposed ports are open on your host computer. Check the `docker-compose.yml` file to determine the exposed ports - refer to the `host:container` port definitions. You'll see they include 5432, 8080, 8083 and others.

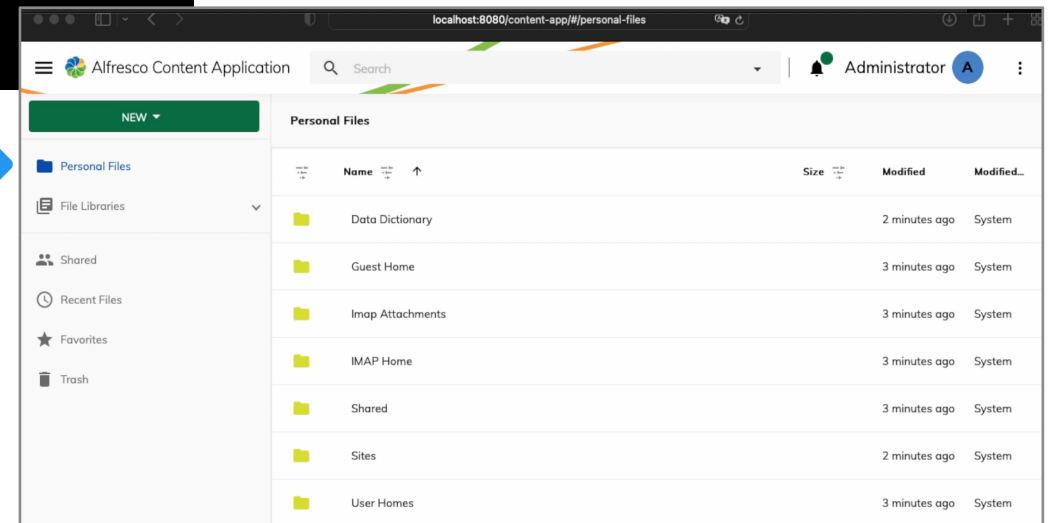
2. Deploy Community Edition, including the repository, Share, Postgres database, Search Services, etc.:

```
docker-compose -f community-docker-compose.yml up
```

# DEMO

## DOCKER COMPOSE

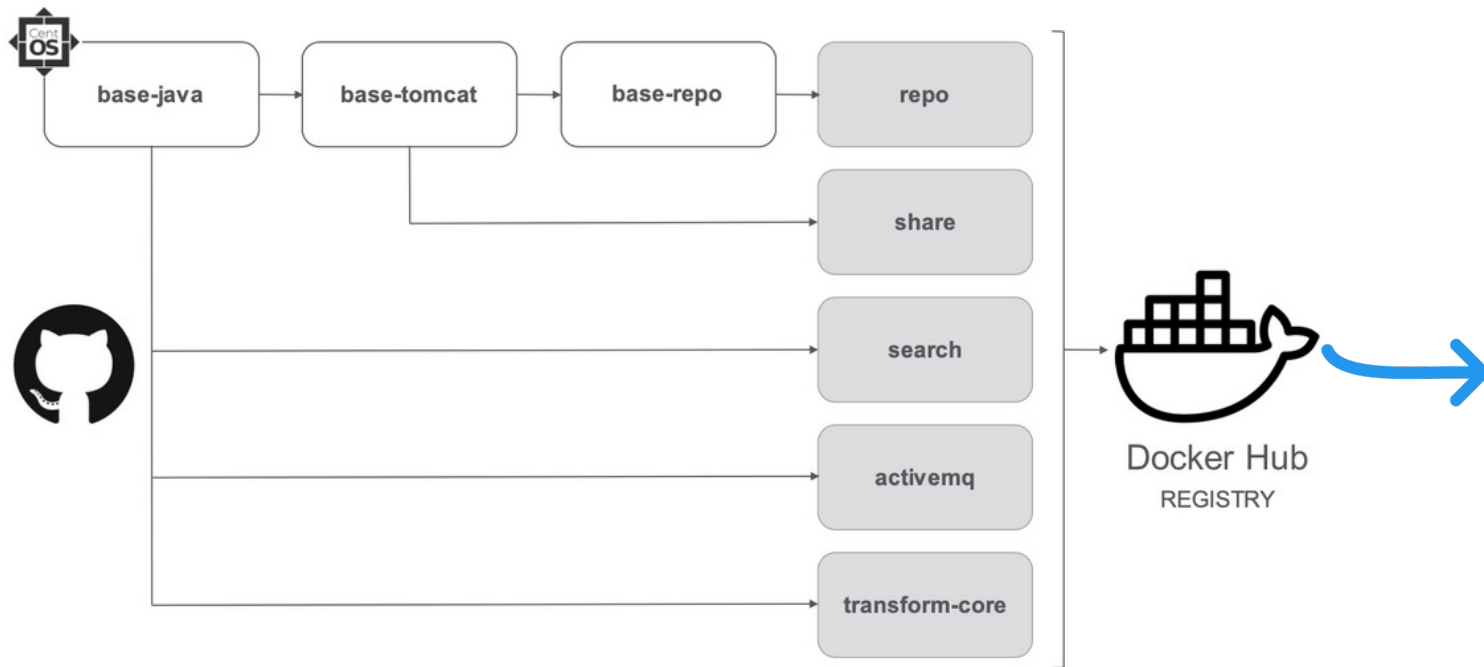
```
oss-demo $ git clone git@github.com:Alfresco/acs-deployment.git
Cloning into 'acs-deployment'...
remote: Enumerating objects: 8302, done.
remote: Counting objects: 100% (801/801), done.
remote: Compressing objects: 100% (383/383), done.
remote: Total 8302 (delta 490), reused 672 (delta 394), pack-reused 7501
Receiving objects: 100% (8302/8302), 8.52 MiB | 8.17 MiB/s, done.
Resolving deltas: 100% (5225/5225), done.
oss-demo $ cd acs-deployment/docker-compose
docker-compose $ ls
6.2.N-docker-compose.yml      7.2.N-docker-compose.yml      docker-compose.yml
7.0.N-docker-compose.yml      README.md
7.1.N-docker-compose.yml      community-docker-compose.yml
docker-compose $ docker compose -f community-docker-compose.yml up
```



# HOW WE DID IT

DOCKER  
COMPOSE

## Alfresco Deployment - Source Code



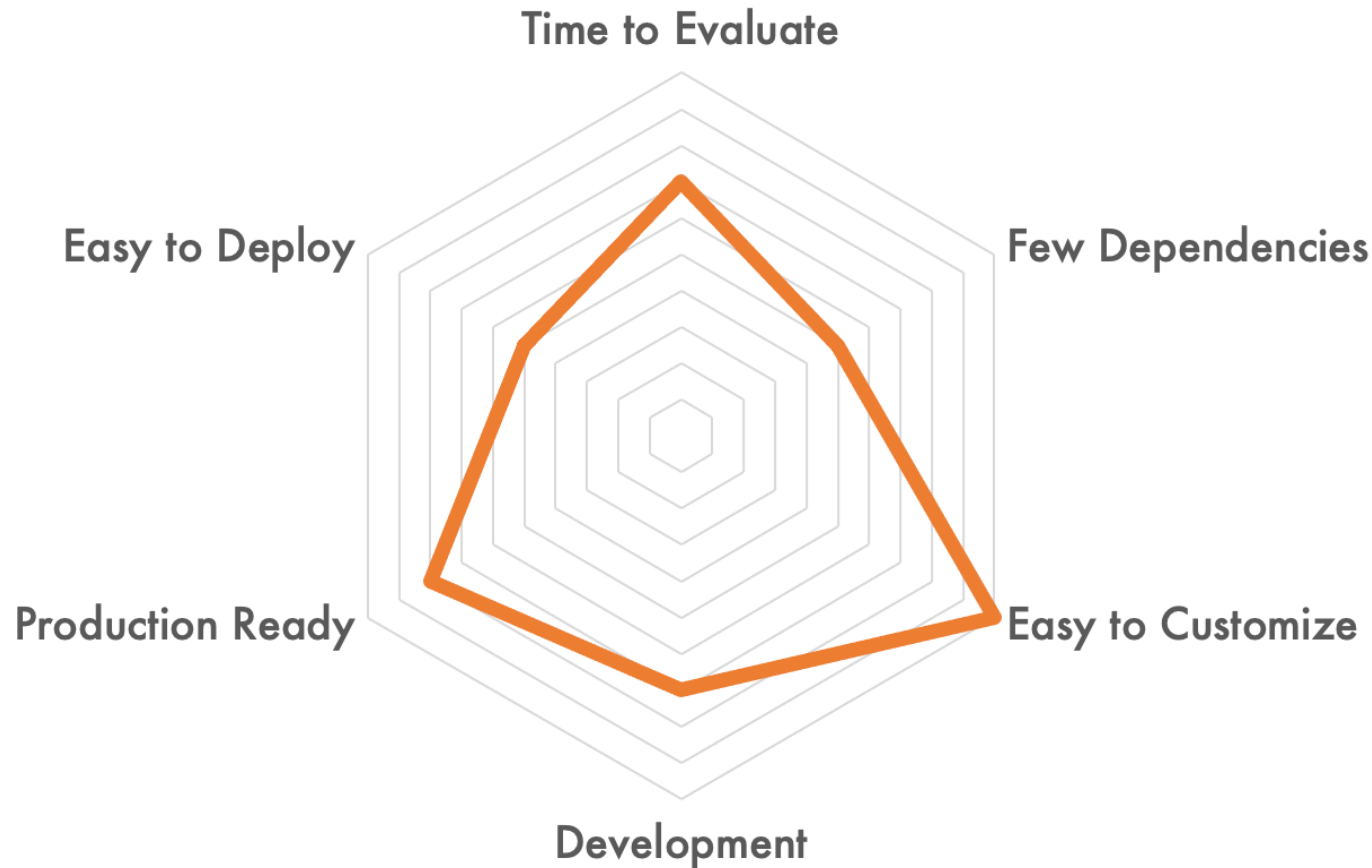
### docker-compose.yml

```
postgres      0,5 GB
activemq      1,0 GB
transform     1,5 GB
solr6         2,0 GB
alfresco     2,0 GB
share        1,0 GB
content-app   0,2 GB
proxy        0,2 GB
```

> 8 GB RAM

# DOCKER COMPOSE INSTALLER





Production / DevOps  
*"I use Docker everyday"*  
**docker compose installer**

- **Tailored** build of Docker Compose
- One single command to deploy **customized** Alfresco from **DOCKER CLI**
- Persistent storage
- Support for addon deployment
- Recommended for **prod** environments

## DOCKER COMPOSE ALFRESCO

Which ACS version do you want to use?  
How many GB RAM are available for Alfresco?  
Do you want to use HTTPs for Web Proxy?  
What is the name of your server?  
Choose the password for your admin user  
What HTTP port do you want to use?  
Do you want to use FTP (port 2121)?  
Do you want to use MariaDB instead of PostgreSQL?  
Are you using different languages?  
Select the method for Alfresco-SOLR communication  
Do you want to use credentials for Events service?  
Do you want to create an internal SMTP server?  
Do you want to create an internal LDAP server?  
Select the addons to be installed  
Are you using a Windows host to run Docker?

**40960+** combinations

### ■ Requirements

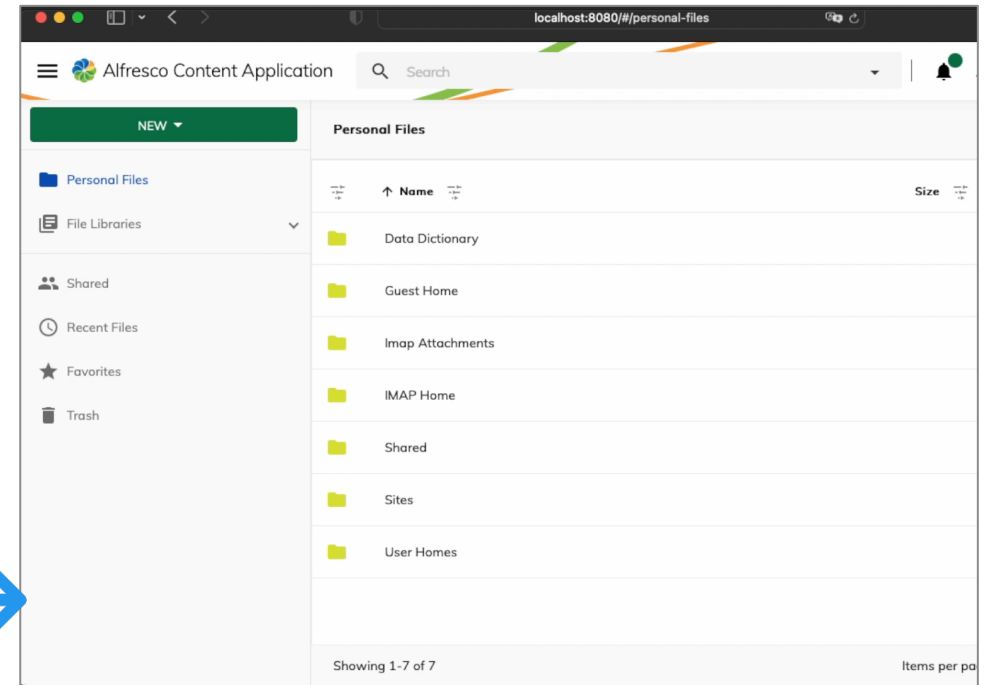
- Docker Desktop
- Docker Compose
- NodeJS
- Yeoman
  - alfresco-docker-installer

# DEMO

# DOCKER INSTALLER

```
? What HTTP port do you want to use (all the services are using the same port)? 8080
? Do you want to use FTP (port 2121)? No
? Do you want to use MariaDB instead of PostgreSQL? No
? Are you using different languages (this is the most common scenario)? Yes
? Would you like to use Shared Secret or HTTPs for Alfresco-SOLR communication? secret
? Do you want to use credentials for Events service (ActiveMQ)? No
? Do you want to create an internal SMTP server? No
? Do you want to create an internal LDAP server? No
? Select the addons to be installed:
? Are you using a Windows host to run Docker? No
? Do you want to use a start script? No
? Do you want to get the script to create host volumes? No
  create .env
  create docker-compose.yml
  create alfresco/Dockerfile
  create alfresco/modules/amps/empty
  create alfresco/modules/jars/empty
  create share/Dockerfile
  create share/web-extension/share-config-custom-dev.xml
  create share/modules/amps/empty
  create share/modules/jars/empty
  create search/Dockerfile
  create config/nginx.conf
  create config/nginx.htpasswd
```

```
No change to package.json was detected. No package manager install will be executed.
oss-demo $ docker compose up --build --force-recreate
```

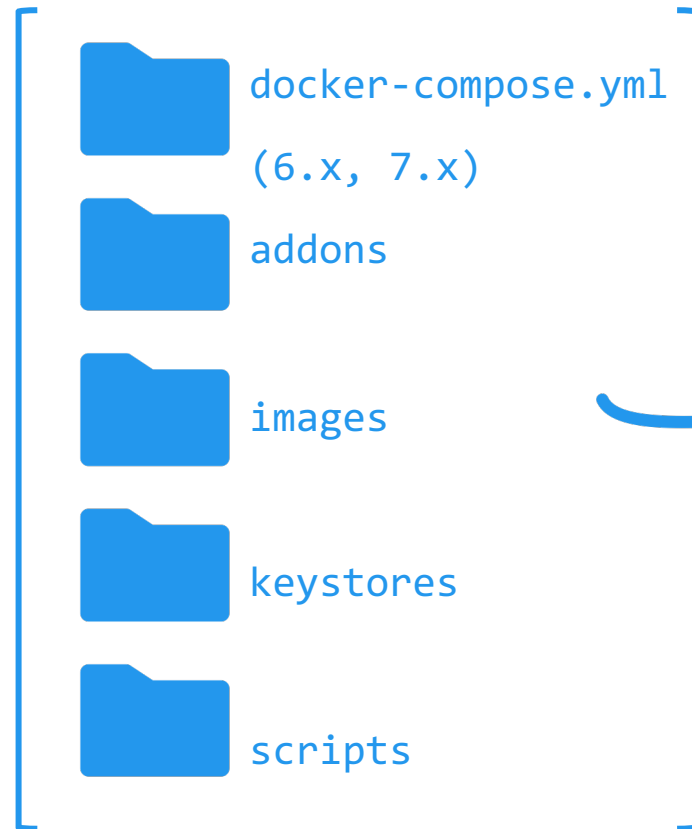


# HOW WE DID IT

## Alfresco Docker Installer - Source Code



YEOMAN

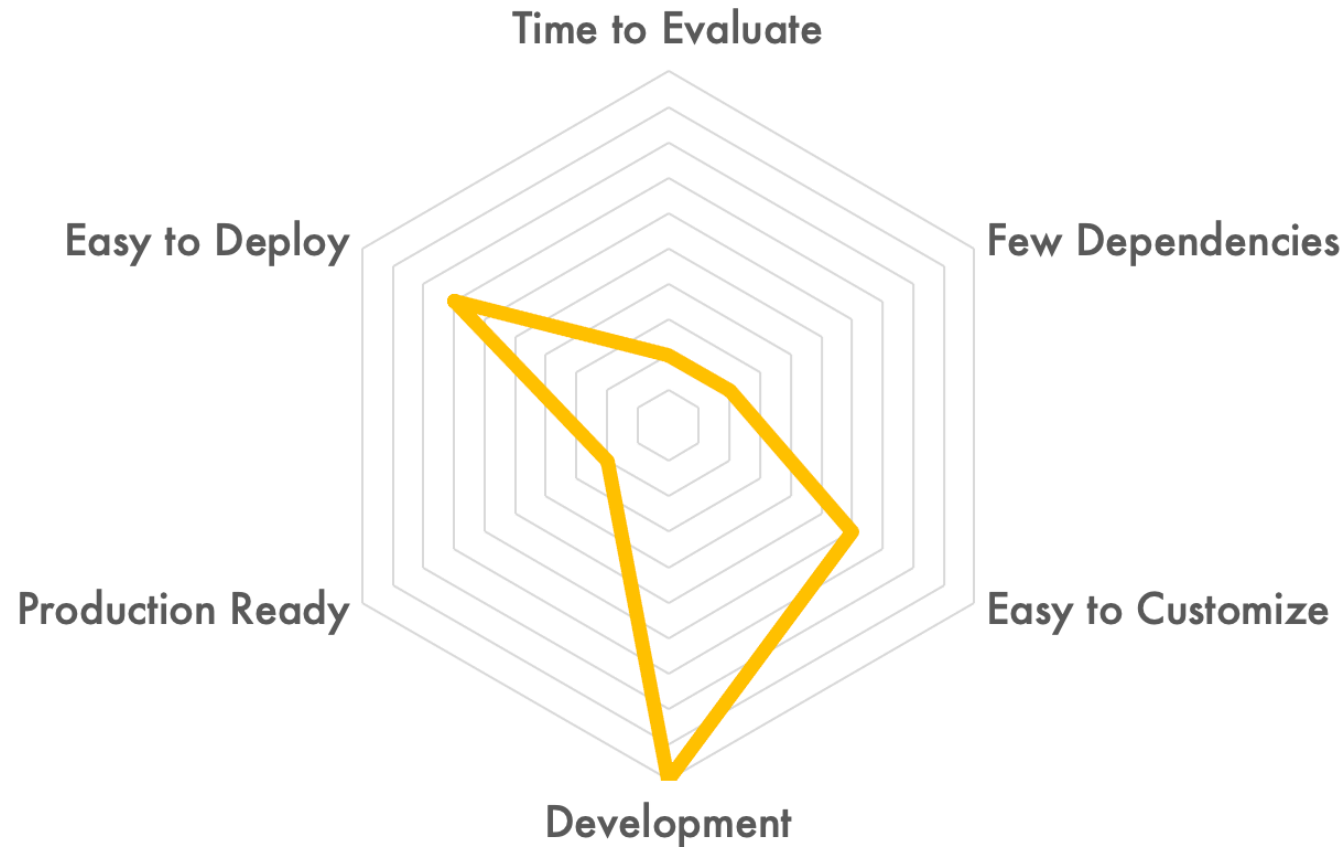


```
docker-compose.yml
postgres    persistent
activemq    persistent
solr6*      persistent
alfresco*   persistent
transform
share*
content-app
proxy
```



# DOCKER COMPOSE SDK





Development / Integration  
*"I use Docker for development"*  
**docker compose sdk**

- One single command to deploy **customized** Alfresco from **Docker CLI**
- Support for development deployment
- Recommended for **dev** environments

```
$ mvn archetype:generate -Dfilter=org.alfresco:
1: remote -> org.alfresco.maven.archetype:activiti-jar-archetype
2: remote -> org.alfresco.maven.archetype:alfresco-allinone-archetype
3: remote -> org.alfresco.maven.archetype:alfresco-amp-archetype
4: remote -> org.alfresco.maven.archetype:alfresco-platform-jar-archetype
5: remote -> org.alfresco.maven.archetype:alfresco-share-jar-archetype
6: remote -> org.alfresco.maven.archetype:share-amp-archetype

$ ./run.sh start

start() {
    docker volume create test-acs-volume
    docker volume create test-db-volume
    docker volume create test-ass-volume
    docker-compose -f "$COMPOSE_FILE_PATH" up --build -d
}
```

## Dev-and-Deploy

### ■ Requirements

- Docker Desktop
- Docker Compose
- Maven
- Java

# DEMO

```
$ mvn archetype:generate -Dfilter=org.alfresco:  
1: remote -> org.alfresco.maven.archetype:activiti-jar-archetype  
2: remote -> org.alfresco.maven.archetype:alfresco-allinone-archetype  
3: remote -> org.alfresco.maven.archetype:alfresco-amp-archetype  
4: remote -> org.alfresco.maven.archetype:alfresco-platform-jar-archetype  
5: remote -> org.alfresco.maven.archetype:alfresco-share-jar-archetype  
6: remote -> org.alfresco.maven.archetype:share-amp-archetype  
$ ./run.sh build_start
```



localhost:8180/share/page/user/admin/dashboard

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

### Administrator 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. 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 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

#### 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 likes. You can also see who is joining and leaving your sites.

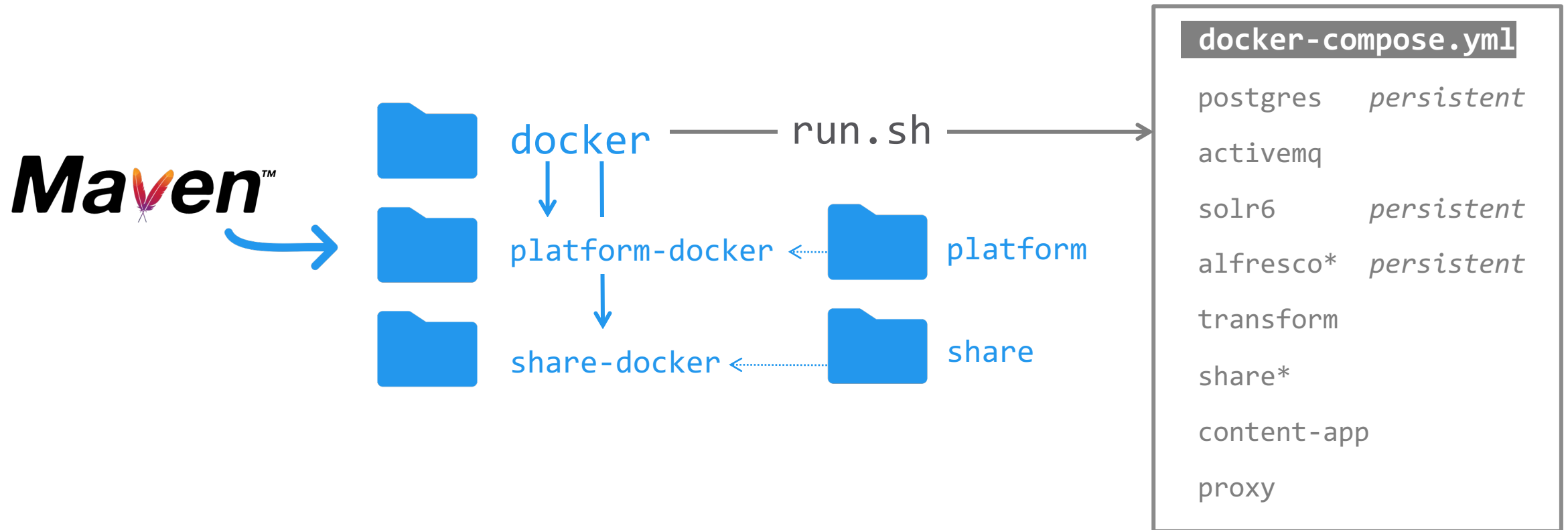
#### My Documents

I've Recently Modified

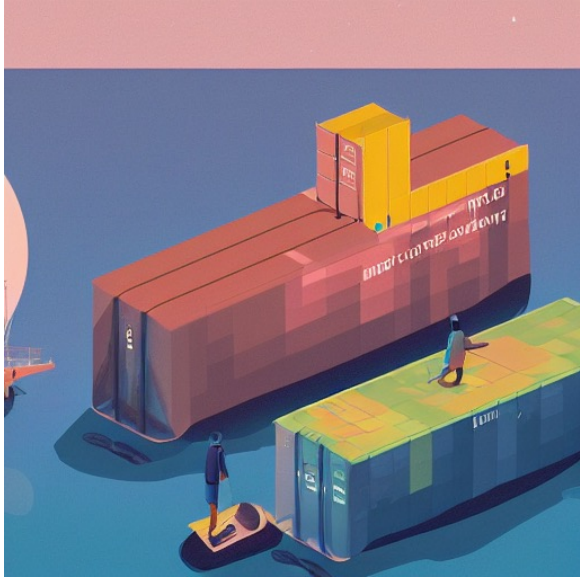
Error loading items

# HOW WE DID IT

## Alfresco SDK – Source Code

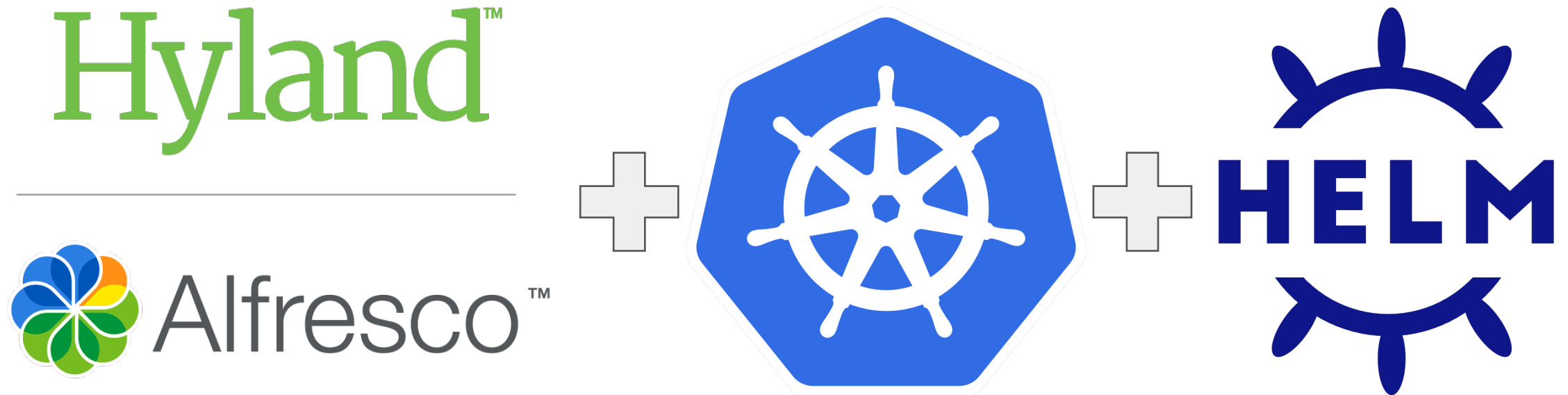


# KUBERNETES



# FROM THOUSANDS TO MILLIONS!

---



Alfresco has a cloud native architecture and is ready for K8S & HELM to be deployed at scale

# RESOURCES



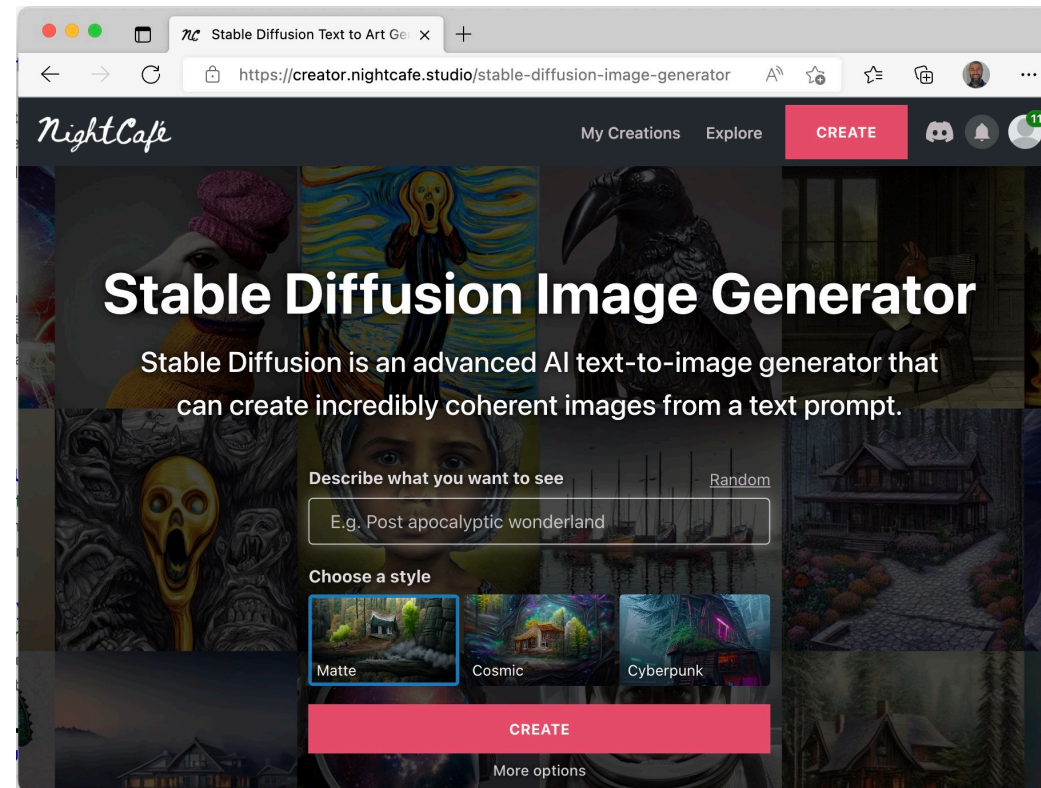


# REFERENCES

- Alfresco Docker Extension - Source Code  
<https://github.com/AlfrescoLabs/alfresco-docker-extension>
- Docker Extensions Publication Guidelines (from Docker)  
<https://www.docker.com/products/extensions/submissions>
- Alfresco Community Downloading Page  
<https://www.alfresco.com/thank-you/thank-you-downloading-alfresco-community-edition>
- Alfresco Deployment - Source Code  
<https://github.com/Alfresco/acs-deployment>
- Alfresco Docker Installer - Source Code  
<https://github.com/Alfresco/alfresco-docker-installer>
- Alfresco SDK – Source Code  
<https://github.com/Alfresco/alfresco-sdk>

# CREDITS

- Images in title slides dreamed by **Stable Diffusion**  
<https://github.com/CompVis/stable-diffusion>



# FOLLOW US & COME AT HUB.ALFRESCO.COM

---

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