Alfresco
Tech Talk Live #148

June 21, 2023
Agenda

• Community news
• Reduce Alfresco Content Services Operational Burden with AWS Serverless
Check out the new Hyland.com

**Alfresco.com** and **Nuxeo.com** will be decommissioned soon!
Register today for CommunityLIVE in Las Vegas

**October 1–2**
Hands-on technical training
Advanced technical training for OnBase, Perceptive Content, Alfresco and Nuxeo platform users

**Learn more**

**October 3–5**
CommunityLIVE main conference
Keynotes, networking and expert-led sessions for all

**Learn more**

Find additional details on this year conference in [What’s new with CommunityLIVE](#)

[Register today](#)
Do you have an innovative Hyland Solution?

We’re excited to launch the Hyland Customer Innovation Awards at CommunityLIVE to recognize forward-thinking organizations that are leveraging Hyland’s content services solutions and technology to do amazing things in their organizations and communities.

Check out the innovation award categories and submit your Hyland solution by Friday, June 30, for a chance to win a complimentary main conference pass.
<table>
<thead>
<tr>
<th>Event</th>
<th>Location</th>
<th>Date</th>
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<tbody>
<tr>
<td>Hyland Summit Colombia</td>
<td>Bogotá, Colombia</td>
<td>Thursday, 17 August</td>
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<tr>
<td>Hyland Summit London</td>
<td>London, UK</td>
<td>Tuesday, 10 October</td>
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<td>Hyland Summit Paris</td>
<td>Paris, France</td>
<td>Thursday, 19 October</td>
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<td>Hyland Summit Düsseldorf</td>
<td>Düsseldorf, Germany</td>
<td>Tuesday, 24 October</td>
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<td>Hyland Summit Sydney</td>
<td>Sydney, Australia</td>
<td>Thursday, 2 November</td>
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<tr>
<td>Hyland Summit Madrid</td>
<td>Madrid, Spain</td>
<td>Tuesday, 7 November</td>
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Visit the event page
TTL Speakers wanted!

- Take the opportunity to showcase your work with the community
- About Alfresco, Nuxeo, and associated technologies
- Best practices, integration, scaling, cloud, …
Available material

• Release Notes

• Recording of TTL 147 – Alfresco Content Services 7.4 Release overview
  1h extensive presentation by the product managers

Resources to come

• Secure communications with ACS 7.4
• Adapting your logging configuration to log4jv2
• Migrating to Search Enterprise
• Share to ADF migration guide (thanks Loftux for the feedback!)
• Using Spring Security with ACS 7.4
Resources

Blog posts

• Using Podman with Alfresco

Source Code

• Alfresco Share Extension Catalog
• Alfresco Go CLI
• Docker Dev Environment for ADF
• Alfresco Discord Bot
• Alfresco Query Catalog Builder
Today’s talk
Reduce Alfresco Content Services Operational Burden with AWS Serverless

WeeMeng Chong
Sr Partner Solution Architect, Amazon Web Services

Additional resources
- Detailed configuration available in Amazon Blog
- Technical resources in ServerlessACS-OpenSearch
Reduce Alfresco Content Services Operational Burden with AWS Serverless

WeeMeng Chong
Snr Partner Solution Architect – Business Applications
Amazon Web Services
Serverless on AWS

Compute

- AWS Lambda
- AWS Fargate

Data store

- Amazon Simple Storage Service (Amazon S3)
- Amazon Elastic File System (Amazon EFS)
- Amazon DynamoDB
- Amazon Aurora Serverless
- Amazon Neptune Serverless
- Amazon OpenSearch Serverless

Application integration

- Amazon EventBridge
- Amazon API Gateway
- AWS Step Functions
Going Serverless on AWS with minimal effort

- AWS Fargate
- Amazon Aurora Serverless
- Amazon OpenSearch
- Amazon Elastic File System (Amazon EFS)

AWS Cloud

- OpenSearch Service
- Amazon EFS
- ELB
- Amazon MQ
- Fargate
- Aurora Serverless v2
- Amazon EKS
- EKS
- Alfresco Search Enterprise 3 Modules
- OpenSearch Service instance

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Alfresco Content Services on AWS Serverless

<table>
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<tr>
<th>Infrastructure component</th>
<th>AWS serverless replacement</th>
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<tr>
<td>Database</td>
<td>Aurora Serverless v2</td>
</tr>
<tr>
<td>File Server</td>
<td>Amazon EFS</td>
</tr>
<tr>
<td>Compute hosts</td>
<td>Fargate</td>
</tr>
<tr>
<td>Elasticsearch</td>
<td>Amazon OpenSearch Serverless *</td>
</tr>
</tbody>
</table>
AWS Partner Network (APN) Blog

1. Install command line tools: AWS CLI, Docker, kubectl and eksctl

2. Deploy EKS cluster on AWS Fargate with eksctl. Sample template provided in blog.

3. Deploy AWS services with CloudFormation. Sample template provided in blog.

4. Create a k8s storage configuration for EFS.

5. Create a k8s deployment template from the Hyland provided helm chart.

6. Patch the k8s deployment template to use sticky sessions with Amazon Application Load Balancer (ALB) rather than the chart provided NGINX.

7. Create k8s secrets for the container registry and Alfresco license.

8. Deploy the k8s template with kubectl.

9. Update your DNS with the IP of the ALB.

10. Login to Alfresco.

Complete walkthrough of deployment can be found on https://aws3-demo.link/UAqjta
View of ACS Deployment with Openlens Desktop
CloudFormation stacks

<table>
<thead>
<tr>
<th>Stack name</th>
<th>Status</th>
<th>Created time</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>ttl-aFG</td>
<td>CREATE COMPLETE</td>
<td>2023-06-14 23:46:41 UTC-0400</td>
<td>AWS serverless infrastructure services for Alfresco Content Services 7.3 with Search Enterprise 3.2.</td>
</tr>
<tr>
<td>eksctl-TTL-aFG-cluster</td>
<td>CREATE COMPLETE</td>
<td>2023-06-14 22:55:39 UTC-0400</td>
<td>EKS cluster (dedicated VPC: true, dedicated IAM: true) [created and managed by eksctl]</td>
</tr>
</tbody>
</table>
AWS resources

- Amazon Aurora Serverless
- AWS Fargate
- Amazon Elastic File System (Amazon EFS)
- Amazon OpenSearch
Serverless is more than compute

**COMPUTE**
- AWS Lambda
- AWS Fargate

**DATA STORES**
- Amazon S3
- Amazon Aurora Serverless
- Amazon DynamoDB

**INTEGRATION**
- Amazon API Gateway
- AWS AppSync
- Amazon EventBridge
- Amazon Simple Queue Service (Amazon SQS)
- Amazon Simple Notification Service (Amazon SNS)
- AWS Step Functions
## AWS operational responsibility models

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<tr>
<th>Compute</th>
<th>Virtual machine</th>
<th>Amazon EC2</th>
<th>AWS Elastic Beanstalk</th>
<th>Fargate</th>
<th>Lambda</th>
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<tr>
<td>Databases</td>
<td>PostgreSQL</td>
<td>PostgreSQL on Amazon EC2</td>
<td>PostgreSQL on Amazon RDS</td>
<td>Amazon Aurora</td>
<td>Amazon Aurora Serverless</td>
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<td>Storage</td>
<td>Storage</td>
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<tr>
<td>Messaging</td>
<td>ESBs</td>
<td>Amazon MQ</td>
<td>Amazon Kinesis</td>
<td>EventBridge/SQS/SNS</td>
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<tr>
<td>Analytics</td>
<td>Hadoop</td>
<td>EMR</td>
<td>Amazon OpenSearch Service</td>
<td>Amazon Athena</td>
<td></td>
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Alfresco Content Services on AWS Serverless
Lower TCO with AWS Serverless

- 409% ROI over five years
- 43% Fewer security incidents per year
- 89% Faster compute deployment
- 3x More features delivered per year

9 months to payback!*
Useful links

- APN blog - Alfresco on serverless AWS
  - https://aws3-demo.link/UAqjta

- AlfrescoLabs GitHub repository for blog code
  - https://aws3-demo.link/OGyWqO

- APN blog - autoscaling EKS on Fargate
  - https://aws3-demo.link/RYzdJM

- IDC 2018 whitepaper on AWS serverless TCO
  - https://aws3-demo.link/oXJmvx

- Forrester 2021 Total Economic Impact study on EFS
  - https://aws.amazon.com/efs/tco/

- Known 2022 paper on Business Value of Cloud Modernization
  - https://aws3-demo.link/sOHMuS
Want to dive deeper?

• Contact your AWS account team to discuss:
  • Serverless Immersion Day / Workshops
  • Serverless Well-Architected Review
  • Customized deep dives on technical topics

• Visit serverlessland.com
Continue your AWS serverless learning

Learn at your own pace
Expand your serverless skills with our Learning Plan on AWS Skill Builder

Increase your knowledge
Use our Ramp-Up Guides to build your Serverless knowledge

Earn AWS serverless badge
Demonstrate your knowledge by achieving digital badges

https://s12d.com/serverless-learning
Thank you!

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