

Hyland™

Alfresco Tech Talk Live #155

February 14, 2024

Agenda

- Community news
- Introduction to Legal Compliance
- Let's discuss

Today's format

After the traditional presentation, it will be possible to enable cameras and microphones to present ourselves and discuss.

To present yourself, please prepare:

- Firstname Name
- Company, job title
- Country
- A short sentence to explain what you do with Alfresco

Questions or discussion topics are welcome

Resources

Alfresco

[Deploying Alfresco Enterprise Viewer with Docker Compose](#) @ GitHub

[Deploying Alfresco Process Services with Docker Compose](#) @ GitHub and thanks to @openpj

[Experimenting TestContainers in model-ns-prefix-mapping](#) @ GitHub

Resources to come

- Adapting your logging configuration to log4jv2
- How to set up messages for increased reliability
- Upgrading your addons to Jakarta EE 10 and Spring 6
- Upgrading to Apache Tomcat 10
- Using Control Center App with Community Edition
- Deploying Alfresco Community with Helm in Kubernetes

Collaboration

Blog posts

- [Decommissioning of Alfresco SVN Instances](#)

Contributions

- <https://github.com/Alfresco/alfresco-docker-installer/issues/6> by @Wellstat-tech and @douglascrp
- [When transformation to text fails consistently, Search Service 2.0.9 may prevent newer Content to be indexed \[MNT-24216\]](#) by @AFaust

Conferences

- [KubeCon Europe 2024](#), 19 - 22 March, Paris, France

TTL Speakers wanted!

- Take the opportunity to showcase your work with the community
- About Alfresco, Nuxeo, and associated technologies
- Best practices, integration, scaling, cloud, ...
- In your native language

Today's talk



Introduction to legal compliance

Antoine Thomas

Community manager at Hyland

Hyland™

Hyland™

Introduction to Legal Compliance

Antoine THOMAS

Community manager open source solutions

February 14, 2024

Agenda



- Risk management & Legal Compliance
And why it's a topic ignored by tech people
- Best practices with containers
With two use cases
- Open source licenses
An introduction to the different kind of licenses
- LLM licenses
What you can, or can't use for commercial purpose
- Tools and solutions
Audit and Continuous Integration

A dark, monochromatic image featuring a wooden gavel resting on a stack of US dollar bills. The gavel is positioned diagonally across the frame, with its head resting on the bills. The bills are scattered and overlapping, creating a textured background. The overall tone is professional and serious, suggesting themes of law, finance, and risk.

Risk Management & Legal Compliance

Risk Management

Security:

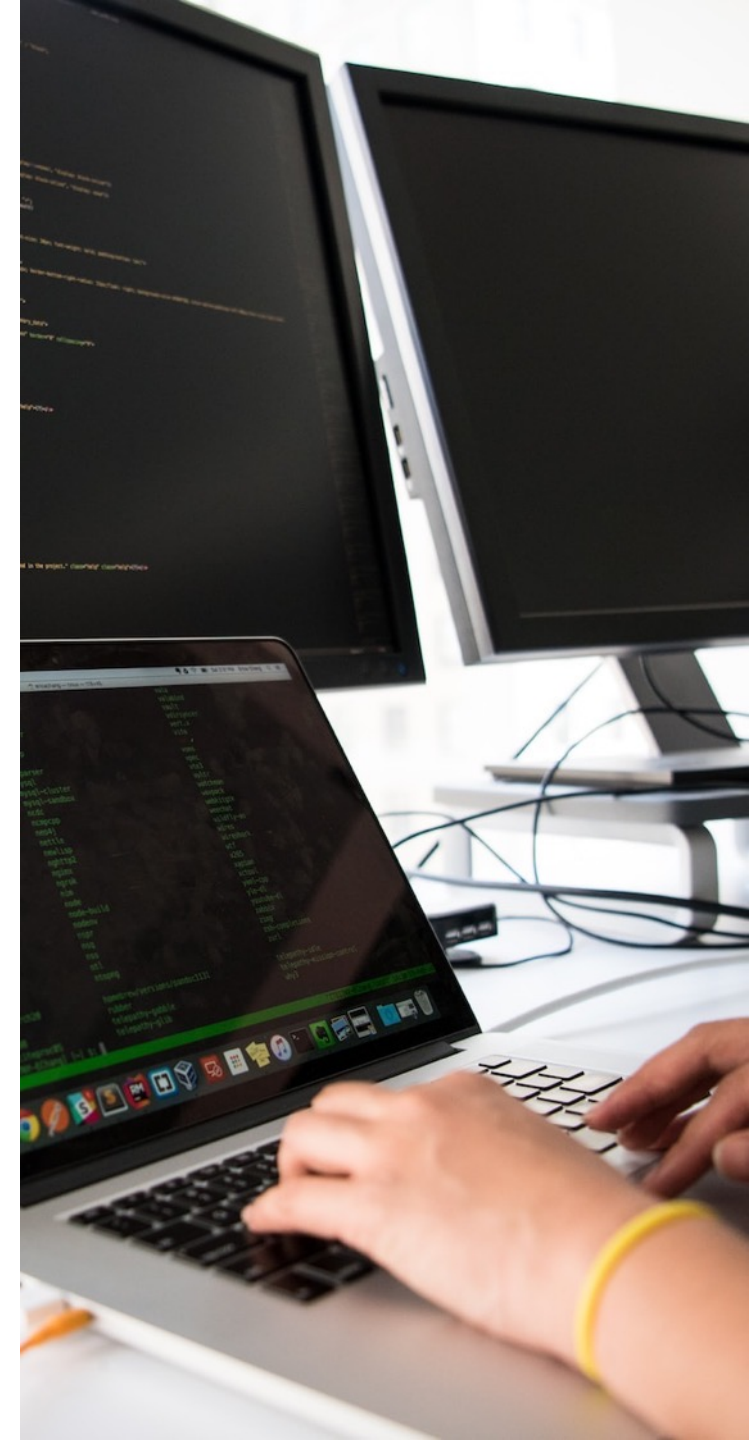
- Everybody understand it
- A well identified risk type

Legal Compliance:

- Respect licenses of software and their dependencies
- IP management
- An underestimated risk type

**Legal
compliance
is not
a topic for
tech people**

- **Not (enough)
Knowledge**
- **Not (really) a technical
problem**
- **Needs clear
documentation and
specification
(PM, legal, ...)**





Best Practices with containers

Avoiding common traps

It's about distributing software

- The software (re)distributor is responsible for legal compliance
- As an integrator, you are (re)distributing software
- Most software are a combination of open source and proprietary
- Container image, firmware, package, ...



2 main use cases

Packaged software

Example with a Docker Image

Build instructions

Example with a Docker Image file



Use case 1

Packaged software **Image**

Description:

- Contain one or more built software
- Many different licenses?
- Dependencies of dependencies?
- The distributor must ensure it is legal compliant

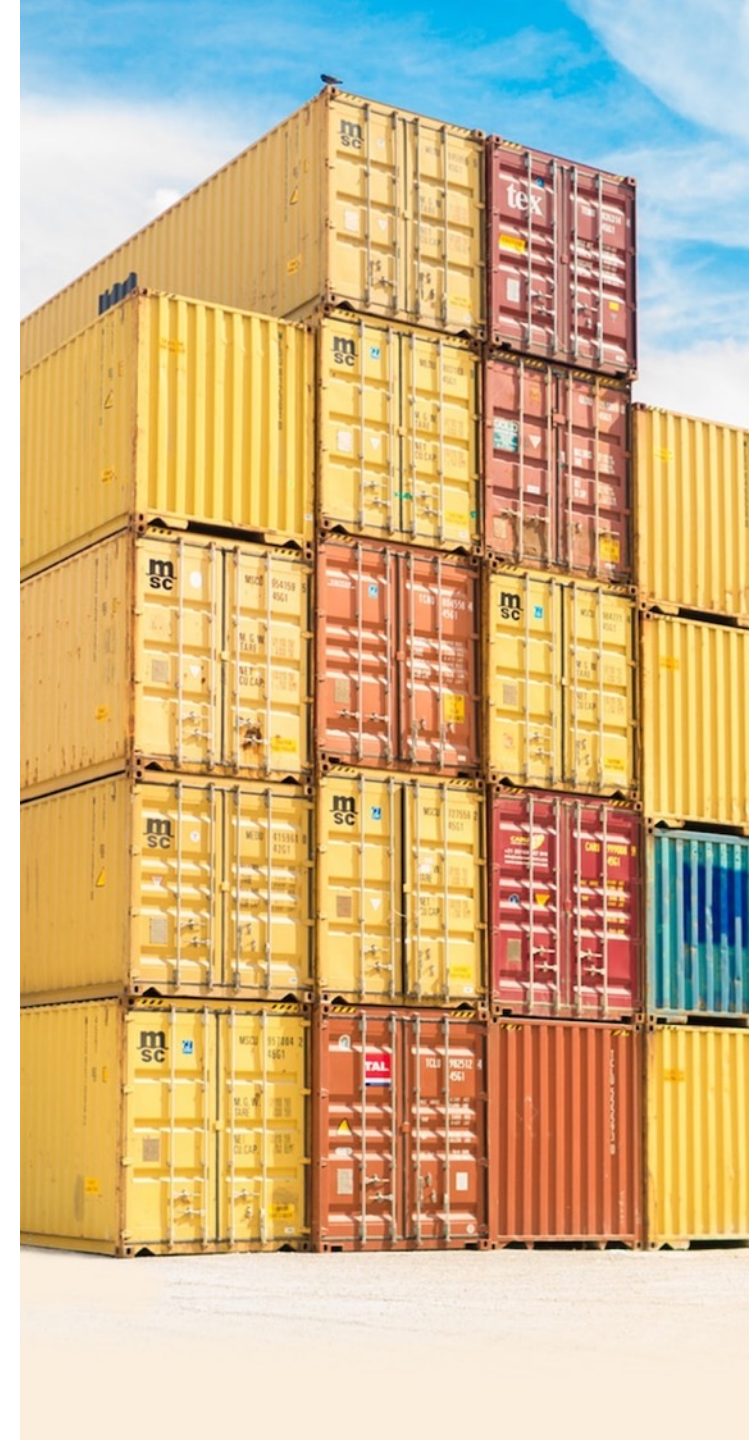


Use case 1

Packaged software **Image**

Advice:

- For simple images
- Generate the “SBOM” and study it
- Always OK for internal use
- Be very careful when you (re)distribute



Use case 2

Build instructions

Image file

Description:

- Just a list
- Contains no software at all
- Always legal compliant
- Will be built by the user



Use case 2

Build instructions

Image file

Advice:

- For complex images
- Define each version & repositories of each software and other requirements
- Archive all dependencies on a private repository to be able to “rebuild” in the future



Open Source Licenses

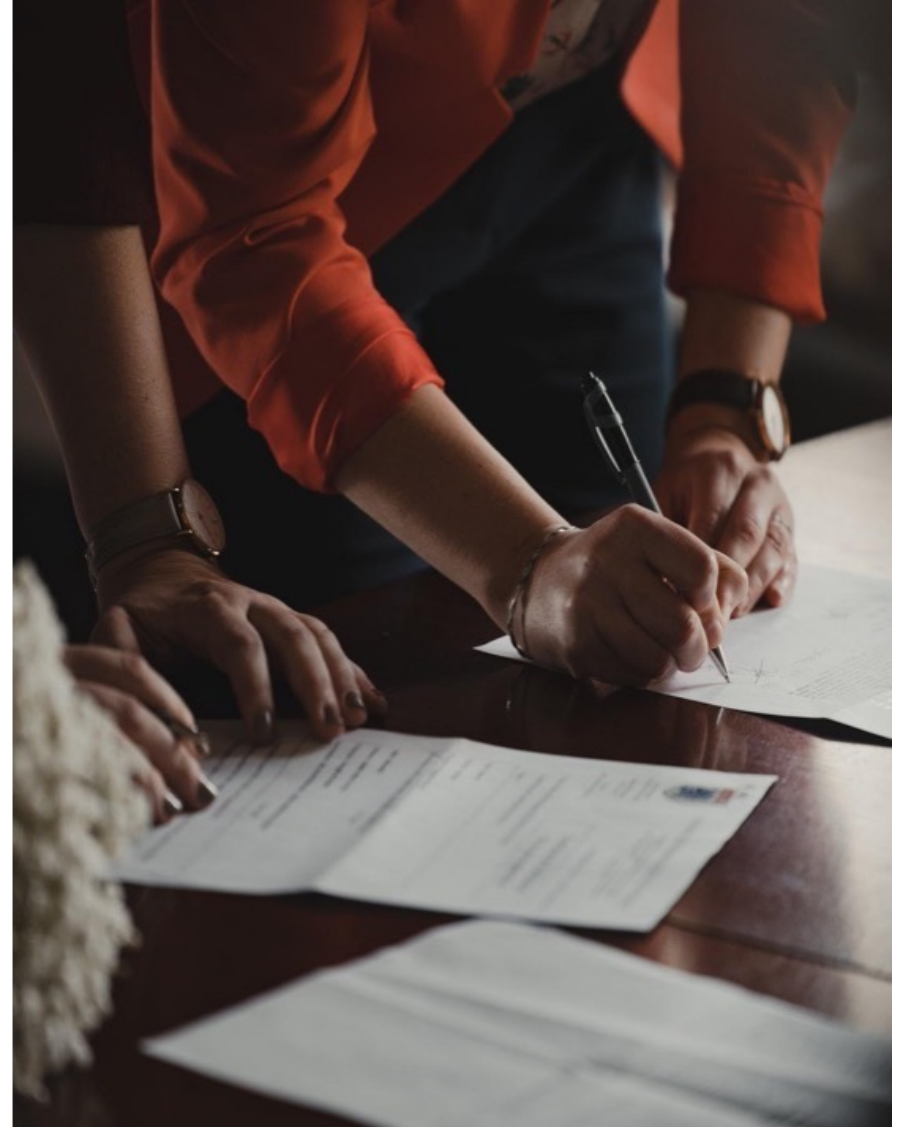
A dark, monochromatic image featuring a wooden gavel resting on a stack of papers, with several US dollar bills scattered around. The text "Open Source Licenses" is overlaid in white.

Open source licenses, an IP management solution

The distribution license is a contract:

- Protects the authors and distributors
- Gives responsibility and rights to the user
- Explains what you can do and can't do
- Manages contribution and modification

Open source is the best way to manage collaborative software development



Main licenses, by families

Strong copyleft

GPL ecosystem

GPLv2 (and later?)
GPLv3 (patents grants,
tivoization)
AGPL (remote access)

Weak copyleft

LGPL (Lesser GPL)
MPL (Mozilla)
CDDL (Sun/Oracle, ZFS)
CC-by-sa (no source)

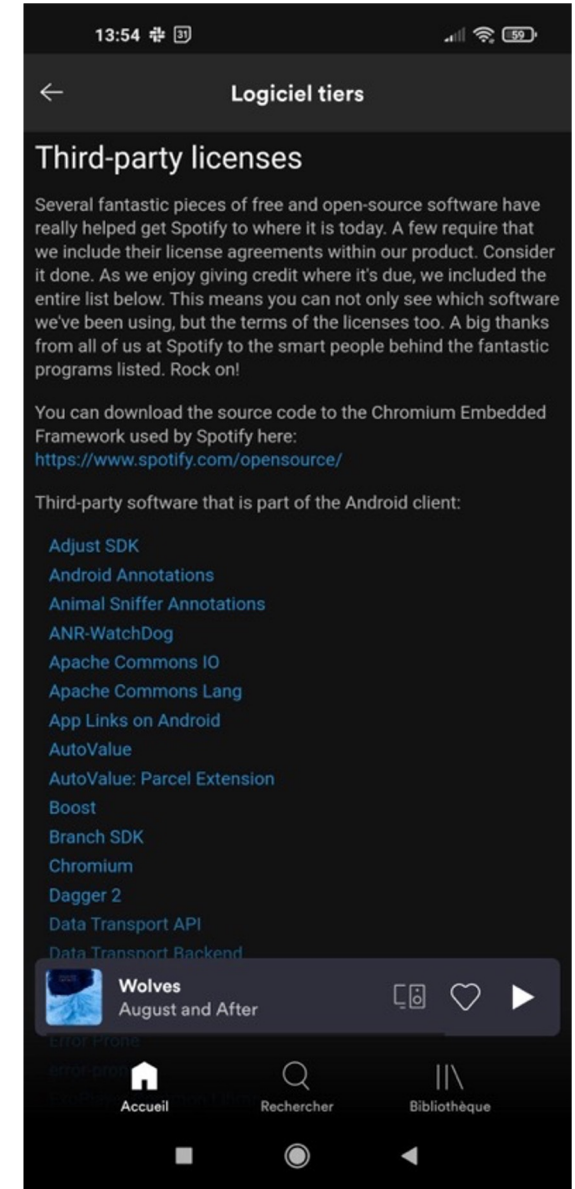
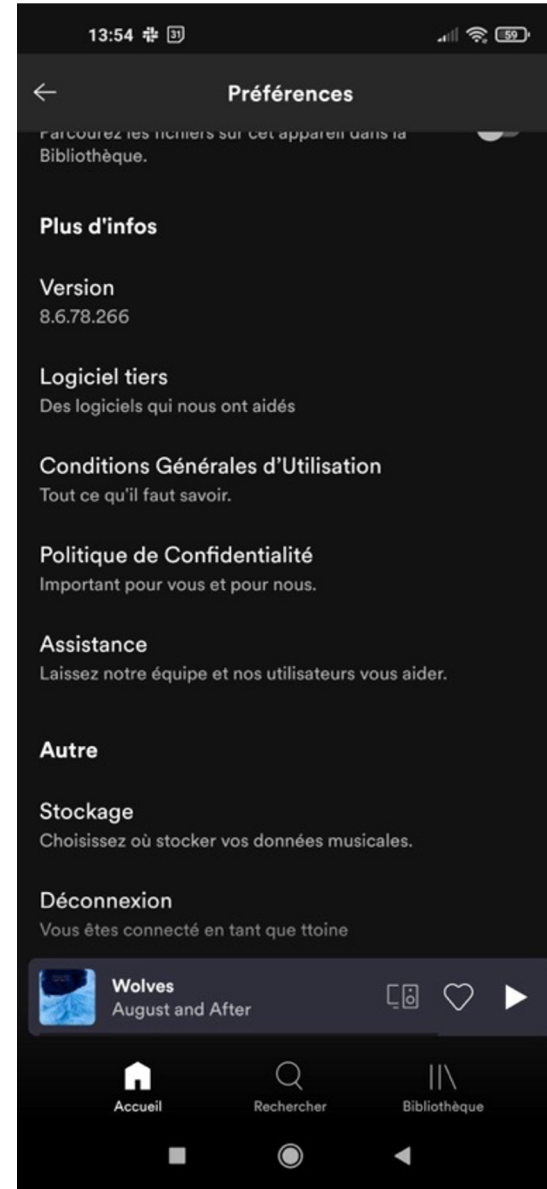
Permissive

Apache (patent grants)
MIT, BSD (academic)
CC-0 (artwork)
WTFPL (for the fun)

How to check open source technologies

Most applications and operating system includes a list of third party open source software list

Example here: Spotify



The importance of choosing the right licenses

Use cases: digital home entertainment

- Apple and Nintendo chose to build their operating system with BSD licensed technologies, they don't have to share their modifications with customers (end users).
- Vizio chose GPL licensed technologies to build their operating system, and they are being sued by Software Conservancy to respect the license and share the source code with their customers (end users).

Remember: licenses frame distribution



LLMs Licenses

A dark, monochromatic image featuring a wooden gavel resting on a stack of US dollar bills. The text "LLMs Licenses" is overlaid in white, bold font in the center. The background is a close-up of the gavel and the bills, with a soft focus effect.

Docker GenAI

<https://ollama.ai/library>

LLM 3 Billion Parameters

phi	MIT License
dolphin-phi	MIT License
orca-mini	cc-by-nc-sa-4.0
deepseek-coder	DEEPSEEK LICENSE AGREEMENT

4 GB
RAM

2 GB
Size



Docker GenAI

<https://ollama.ai/library>

LLM 13 Billion Parameters

llama2	LLAMA2 COMMUNITY LICENSE AGREEMENT
code llama	LLAMA2 COMMUNITY LICENSE AGREEMENT
vicuna	LLAMA2 COMMUNITY LICENSE AGREEMENT
orca-mini	cc-by-nc-sa-4.0
llava	Apache License 2.0
orca2	MICROSOFT RESEARCH LICENSE

16 GB
RAM

8 GB
Size



Docker GenAI

<https://ollama.ai/library>

LLM 7 Billion Parameters

llama2	LLAMA2 COMMUNITY LICENSE AGREEMENT
code llama	LLAMA2 COMMUNITY LICENSE AGREEMENT
vicuna	LLAMA2 COMMUNITY LICENSE AGREEMENT
mistral	Apache License 2.0
mistral-openorca	Apache License 2.0
llava	Apache License 2.0
orca-mini	cc-by-nc-sa-4.0
deepseek-coder	DEEPSEEK LICENSE AGREEMENT
orca2	MICROSOFT RESEARCH LICENSE
falcon	FALCON 180B TII LICENSE 1.0

8 GB
RAM

4 GB
Size



Docker GenAI

<https://ollama.ai/library>

LLM 13+ Billion Parameters

llama2	LLAMA2 COMMUNITY LICENSE AGREEMENT	70B
code llama	LLAMA2 COMMUNITY LICENSE AGREEMENT	34B
mistral	Apache License 2.0	56B
deepseek-coder	DEEPSEEK LICENSE AGREEMENT	33B
vicuna	LLAMA2 COMMUNITY LICENSE AGREEMENT	33B
falcon	FALCON 180B TII LICENSE 1.0	40B / 180B

64+ GB
RAM

40+ GB
Size



Possibilities

Permissive licenses

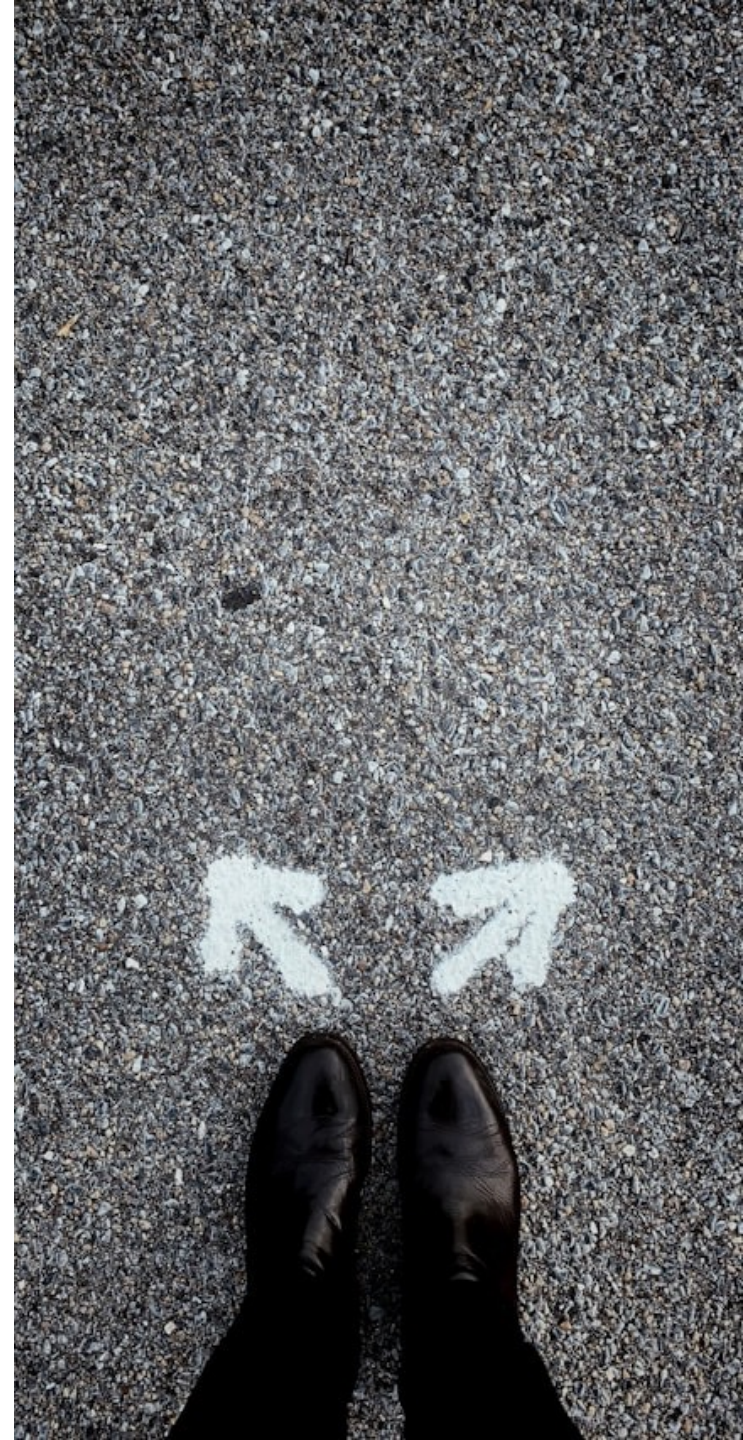
(you can use, integrate and redistribute)

Noncommercial licenses

(contact the vendor)

Ready to use

(ex: AWS solutions in TTL 153)



A dark, textured cylindrical object, possibly a tool or container, centered against a black background. The object has a rough, metallic or stone-like surface with some scratches and highlights. It appears to be a component of a larger tool or machine, with a handle or frame visible at the top and bottom.

Tools & Solutions

Software bill of material

SBOM

&

OSPO

Open source program office

- **Expertise and consulting**
- **Involve your legal team (IP management)**
- **Document acceptable licenses**
- **Use your continuous integration**



Resources

Presentation based on [TLDR: Docker and legal compliance](#) on Alfresco Hub

Additional information:

- [Distribution of Dockerfiles: Who is responsible for FOSS Licence Compliance?](#) by Dr. Till Jaeger on Jolts
- [Making compliance scalable in a container world](#) By Scott K Peterson on opensource.com
- [Software supply chain](#) on Wikipedia
- [Docker containers: What are the open source licensing considerations?](#) Article and white paper from the Linux Foundation
- [How containers changed the world](#) by Matthew Revell, on Dev.to



Antoine Thomas

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