Open Source with Open Source: Component Mngmt with SW360

Speakers

Johannes Kristan (Bosch Software Innovations GmbH), Michael C. Jaeger (Siemens AG)

Introduction

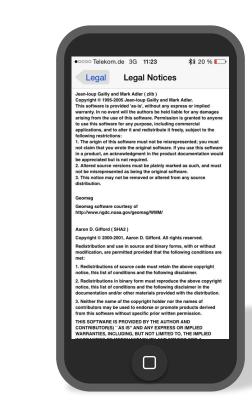
"If Software Is Eating The World, Then Open **Source Will Chew It Up** (And Swallow)" Securit

Adrian Bridgwater

Open Source Licensing

Distributing open source software requires to

- · Provide licenses of involved software
- Provide copyright statements of involved authors
- Provide disclaimers
- ... and much more

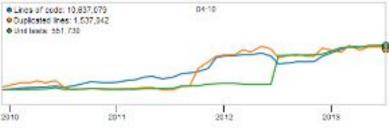


Open Source Project Info

Apache CloudStack		Apache COF		Silverpeas Core		Apache Jackrabbit		Apache Jena			
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Code Quality

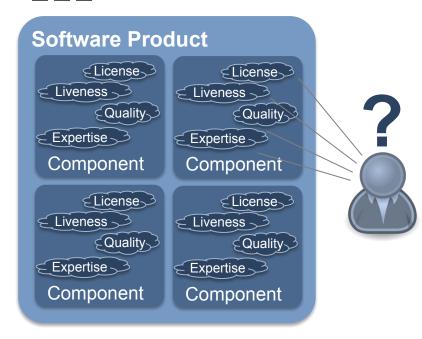


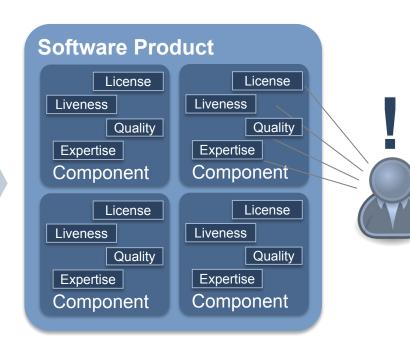


Project Liveness

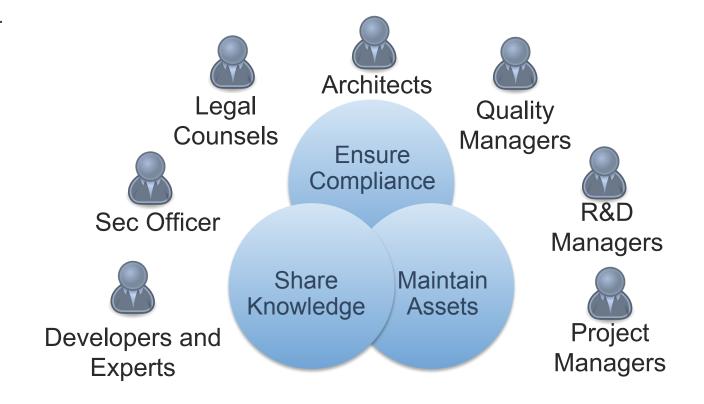


What is Needed?

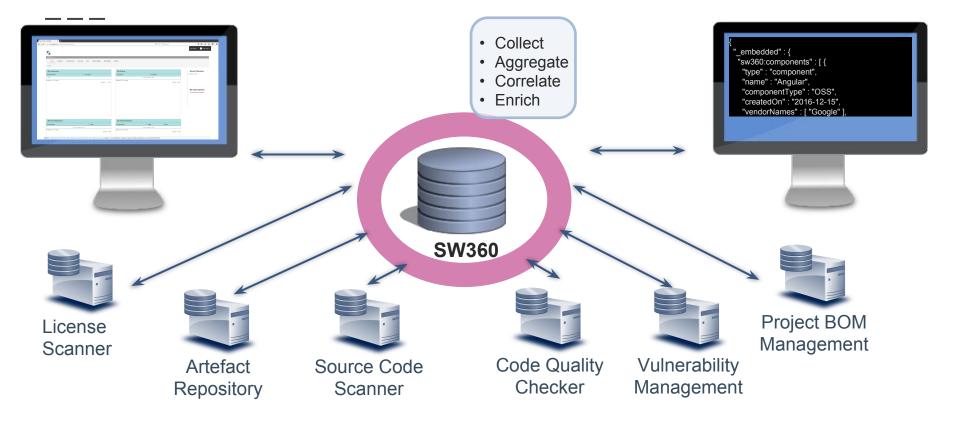




Use Cases and Roles

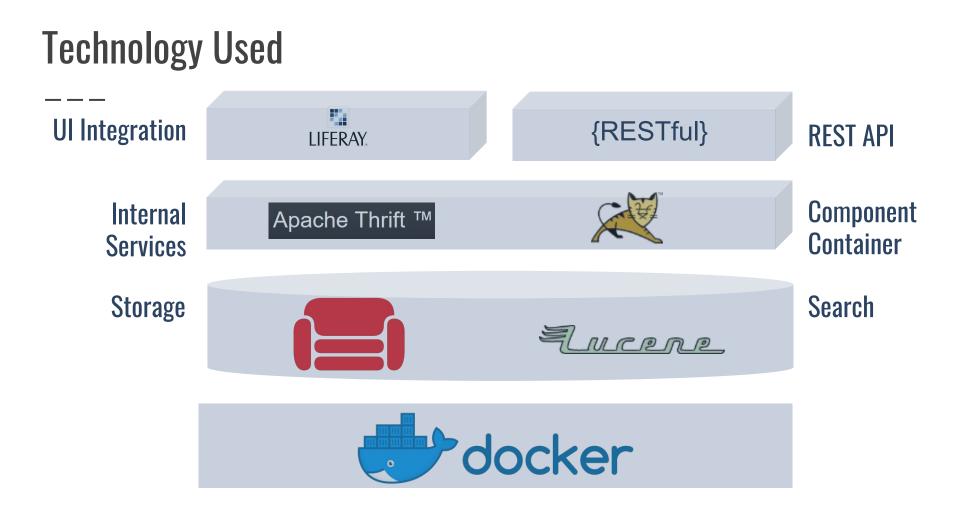


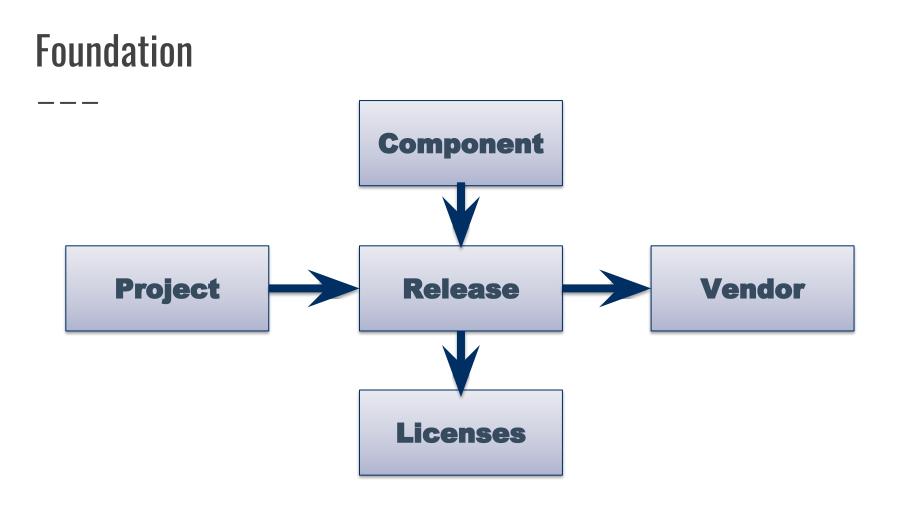
Central Hub



Eclipse SW360

- $^{-}$ An Eclipse Foundation incubator project
 - eclipse
 github.com/sw360
- Eclipse Public License 1.0 (EPL-1.0)
- $\circ~$ A portal application
- $\circ~$ A catalogue of components, releases
- $\circ~$ A catalogue of your projects / products
- $\circ~$ A store for attachments of these
- $\circ~$ A end user front end to FOSSology





The Data Model is Important

Goals and Motivation

- \circ Reduction of duplicate entries
- \circ Separating vendor from component names and release tags brings clarity to component naming
- \circ Interoperation with other systems
 - As such we need to support the CPE standard which also implement this 3-parts separation
- \circ Having the clear modeling of data enables better search and filtering abilities

How it Works

Create	Add	Add
Component	<mark>Release</mark>	Package
Entry	Entry	(Upload) to Release
 A component is a container for releases 	 Release = Version A component can have 	 Multiple open source packages of the same

- Just creating a component alone creates an empty shell
- A component can have multiple releases
- It makes sense to group them
- Now a vendor can be assigned

- Multiple open source packages of the same releases: multiple releases actually
- There should be just one upload per release

How it Works

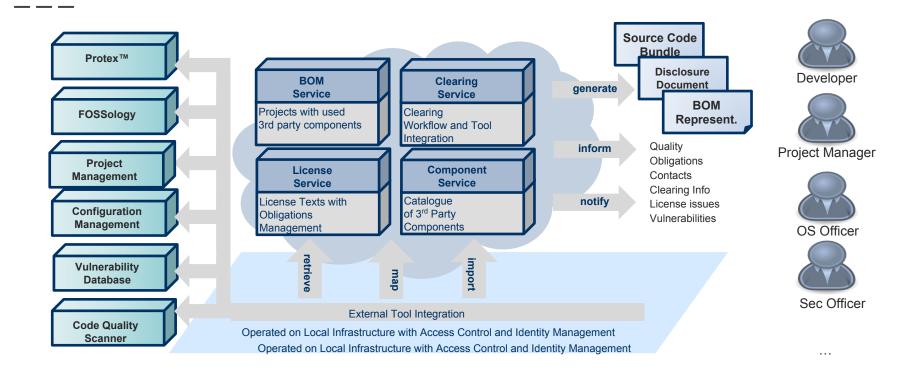
Create Project Entry	Add Releases, Subprojects	Review and Manage BOM Items
A president is a atmusture to	Delegge - Version of	Cond to analysis

- A project is a structure to main a BOM
- Can represent product, service, delivery

- Release = Version of component
- Projects can contain other projects
- Allows for building blocks

- Send to analysis
- Upload analysis results
- Generate product level documentation

SW360 Core Features



We are on Github!



www.github.com/sw360

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Project site: <u>https://github.com/sw360</u>

Eclipse project information:

https://projects.eclipse.org/projects/technology.sw360

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