

Simple License Policy from Lawyer to Computer

FSFE Legal Workshop 12 April 2025
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Contents

Introduction to Compliance Logic

- Example Automation Implementation
- Simple examples of policy, license classification, evaluation rules
- Compliance Logic

Discussion on Automation Pain Points

Introductions

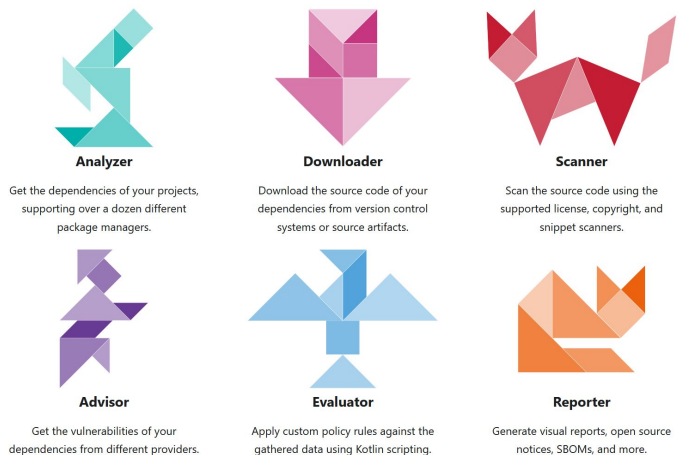
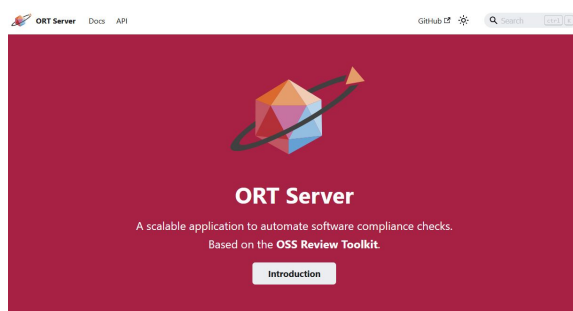
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- fmr. Open Source Officer @ Bosch.IO
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- Lawyer & Programmer
- Certified AWS Solution Architect Associate
- Certified AWS Cloud Practitioner

Example automation implementation



Main licenses:
Apache-2.0 AND
MIT

Simple Policy Description Example

March 2025

Note: this is a simple example open source policy collated from multiple sources. It is provided "as-is" pursuant to the applicable CC-BY-4.0 license, for the purposes of illustrating open source policy usage in an automation setting.

SPDX-FileCopyrightText: 2024-2025 Double Open Oy support@doubleopen.org

SPDX-FileCopyrightText: 2022-2023 HH Partners, Attorneys-at-law Ltd doubleopen@hhpartners.fi

SPDX-License-Identifier: CC-BY-4.0

Table of Contents

1. [Policy Principles](#)
 - [Main Licensing](#)
 - [Product XXX](#)
 - [Product YYY](#)
 - [Approach to Copyleft](#)
 - [Product XXX](#)
 - [Product YYY](#)
 - [Software Interaction Types](#)
 - [Preferably Fully Open Source Dependencies](#)
 - [Investigating and Classifying Licenses](#)
2. [Policy Rules](#)
 - [License Category Based Rules](#)
 - [License Property Based Rules](#)
3. [Version History](#)

Main licenses:
CC-BY-4.0

License classification

```
1584 # https://spdx.org/licenses/LGPL-2.0-only.html
1585 - id: "LGPL-2.0-only"
1586   categories:
1587     - "copyleft-LGPL"
1588     - "property:include-in-notice-file"
1589     - "include-in-notice-file"
1590     - "property:distribute-source-code"
```

Main licenses:
CC0 AND
CC-BY-4.0 AND
Apache 2.0

Evaluator rules

```
740  /**
741  * Deny LGPL-style copyleft licenses in statically linked dependencies for distributed products and open source
742  * distributed products.
743  */
744  licenseRule(
745    "Copyleft (LGPL-style) in statically linked dependency",
746    LicenseView.CONCLUDED_OR_DECLARED_AND_DETECTED
747  ) {
748    require {
749      +isCategory("copyleft-LGPL")
750      -isExcluded()
751      +isStaticallyLinked()
752      +AnyOf(
753        productIsPackaged(),
754        productIsOpenSourceDistributed()
755      )
756    }
757  }
758  val howToFixMessage = ""
759  | A LGPL copyleft license requires code statically linking the same copyleft code,
760  | or being part of the same resulting binary, to follow the LGPL terms.
761  |
762  | - First check for false positives.
```

License policy examples

Repo for examples: <https://github.com/doubleopen-project/license-policy-demo>

Human readable policy: https://github.com/doubleopen-project/license-policy-demo/blob/main/policy_example.md

Kotlin script policy: <https://github.com/doubleopen-project/license-policy-demo/blob/main/example.rules.kts>

License classification: <https://github.com/doubleopen-project/policy-configuration/blob/main/license-classifications.yml>

Main licenses:
CC0 AND
CC-BY-4.0 AND
Apache 2.0


Introduction to Compliance Logic / scanner false positive

| | |
|-----------------------------|---|
| Compliance result | PASS |
| Policy violation resolution | No |
| Evaluation rules | evaluator.rules.kts |
| Product label | Distributed product |
| License categorization | MIT: - "permissive" - "property:include-in-notice-file" |
| Human curations | MIT |
| Scanner/DB license data | GPL-1.0-or-later |
| License metadata by project | MIT |
| Artefact | pkg:gem/algoliasearch@1.27.5 |

Introduction to Compliance Logic / scanner positive

| | |
|-----------------------------|---|
| Compliance result | Policy violation |
| Policy violation resolution | No |
| Evaluation rules | evaluator.rules.kts |
| Product label | Distributed product |
| License categorization | GPL-2.0-only: - "copyleft-strong" - "property:include-in-notice-file" |
| Human curations | GPL-2.0-only |
| Scanner/DB license data | GPL-2.0-only |
| License metadata by project | MIT |
| Artefact | pkg:maven/com.wix/detox@20.34.0 detox/src/.../android/emulator/EmulatorVersionResolver.test.js |

Introduction to Compliance Logic / scanner positive

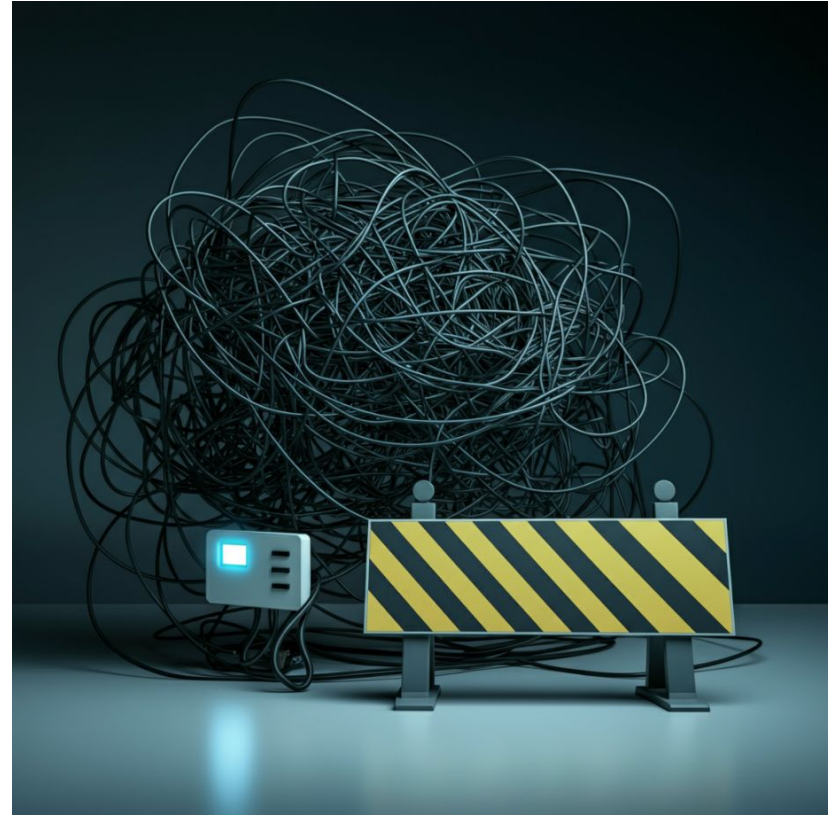
| | |
|-----------------------------|---|
| Compliance result | Policy violation |
| Policy violation resolution | Yes, comments "LICENSE ACQUIRED" "Good architecture."  |
| Evaluation rules | evaluator.rules.kts |
| Product label | Distributed product |
| License categorization | GPL-2.0-only: - "copyleft-strong" - "property:include-in-notice-file" |
| Human curations | GPL-2.0-only |
| Scanner/DB license data | GPL-2.0-only |
| License metadata by project | MIT |
| Artefact | pkg:maven/com.wix/detox@20.34.0 detox/src/.../android/emulator/EmulatorVersionResolver.test.js |

Introduction to Compliance Logic / SaaS label

| | |
|-----------------------------|---|
| Compliance result | PASS |
| Policy violation resolution | No |
| Evaluation rules | evaluator.rules.kts |
| Product label | SaaS |
| License categorization | GPL-2.0-only: - "copyleft-strong" - "property:include-in-notice-file" |
| Human curations | GPL-2.0-only |
| Scanner/DB license data | GPL-2.0-only |
| License metadata by project | MIT |
| Artefact | pkg:maven/com.wix/detox@20.34.0 detox/src/.../android/emulator/EmulatorVersionResolver.test.js |

Automation Pain Points

- Super-configurability
- The Lawyer's Automation Dilemma
- Defining Use Cases / Business Contexts
- Difficult cases for a mass process
- Fulfilling more exotic obligations



Super-configurability

- Everything in ORT is Configuration-as-Code:
 - licenses and their properties
 - policy rules
 - data curations
 - etc.
- Steep initial adoption curve.
- Majority of effort concentrated in the beginning.
- Upsides:
 - easy reproducibility
 - clear audit trail



The Lawyer's Automation Dilemma

- As lawyers, we may be reluctant to relinquish judgement to a computer in cases with potential legal relevance.
- With increasing scale, there comes a point where performing only manual assessments is no longer possible.
- When that point is reached, it may be *less risky* to automate than not to automate. Automation becomes not only an option but a necessity.
- Question: *How sophisticated* should the automation be? Depends on:
 - The resources that can be dedicated to it.
 - The risk tolerance of the organization.



Defining Use Cases / Business Contexts

- The use of Use Cases / Business Contexts enables a more fine-grained rule configuration.
- The same component may create legal issues in one case but not in another (e.g., a GPL-3.0 licensed dependency in a proprietary mobile app vs. a server backend).



Difficult Cases for a Mass Process

- A significant challenge is automating **architecture-related compliance checks** (e.g. to determine extent of copyleft effect).
 - The ORT way of automatically determining the architecture:
 - File changes: ORT detects dependencies on the package level. Analyzer-result has information if a package is identical to upstream available package.
 - Linking: ORT Analyzer queries the build-system, and stores information for each package (or node) whether a particular package is *linked statically* to the root application.
 - User input: Architecture can be explicitly specified using a *project.spdx.yml* file. Manual maintenance of the description is required.
- Resolving policy violations by putting your own code under an OSS license → typically separate/more difficult process.



Fulfilling Exotic Obligations

- ORT can provide you with:
 - a Disclosure Document
 - a Source Code Bundle
 - SBOMs (SPDX and CycloneDX)
 - various reports
- These can be used to fulfill the majority of OSS-related obligations.
- If an OSS license requires you to buy the copyright owner a beer though, you are out of luck. 😊



Thank you!