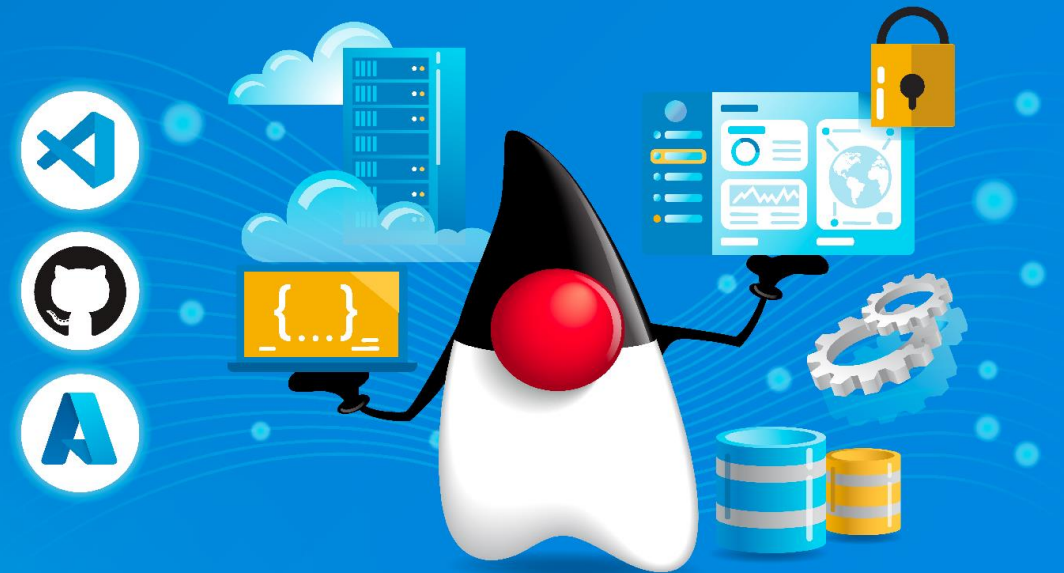




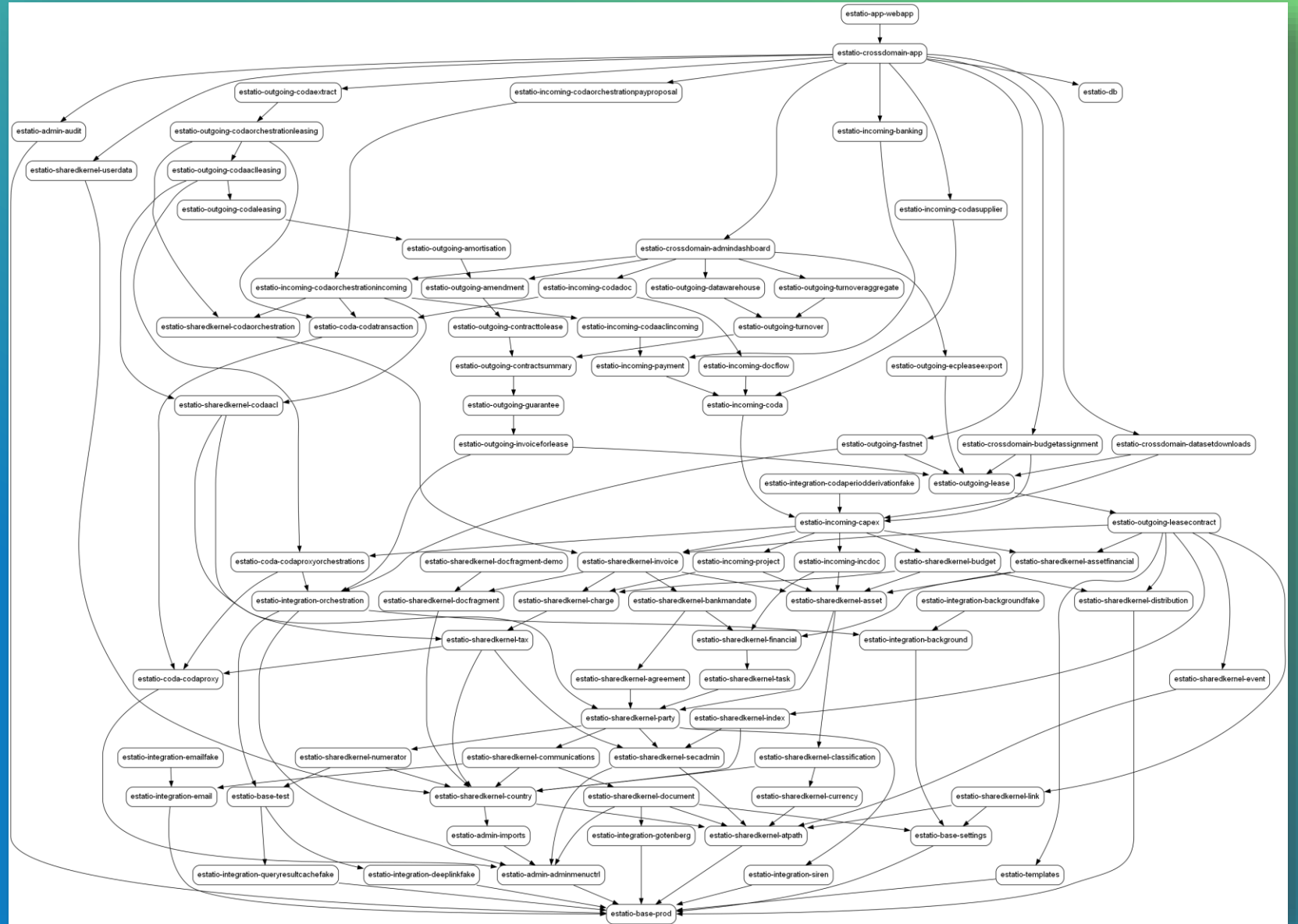
# Visualizing your build with the maven timeline plugin

Code. Cloud. Community.

Dan Haywood

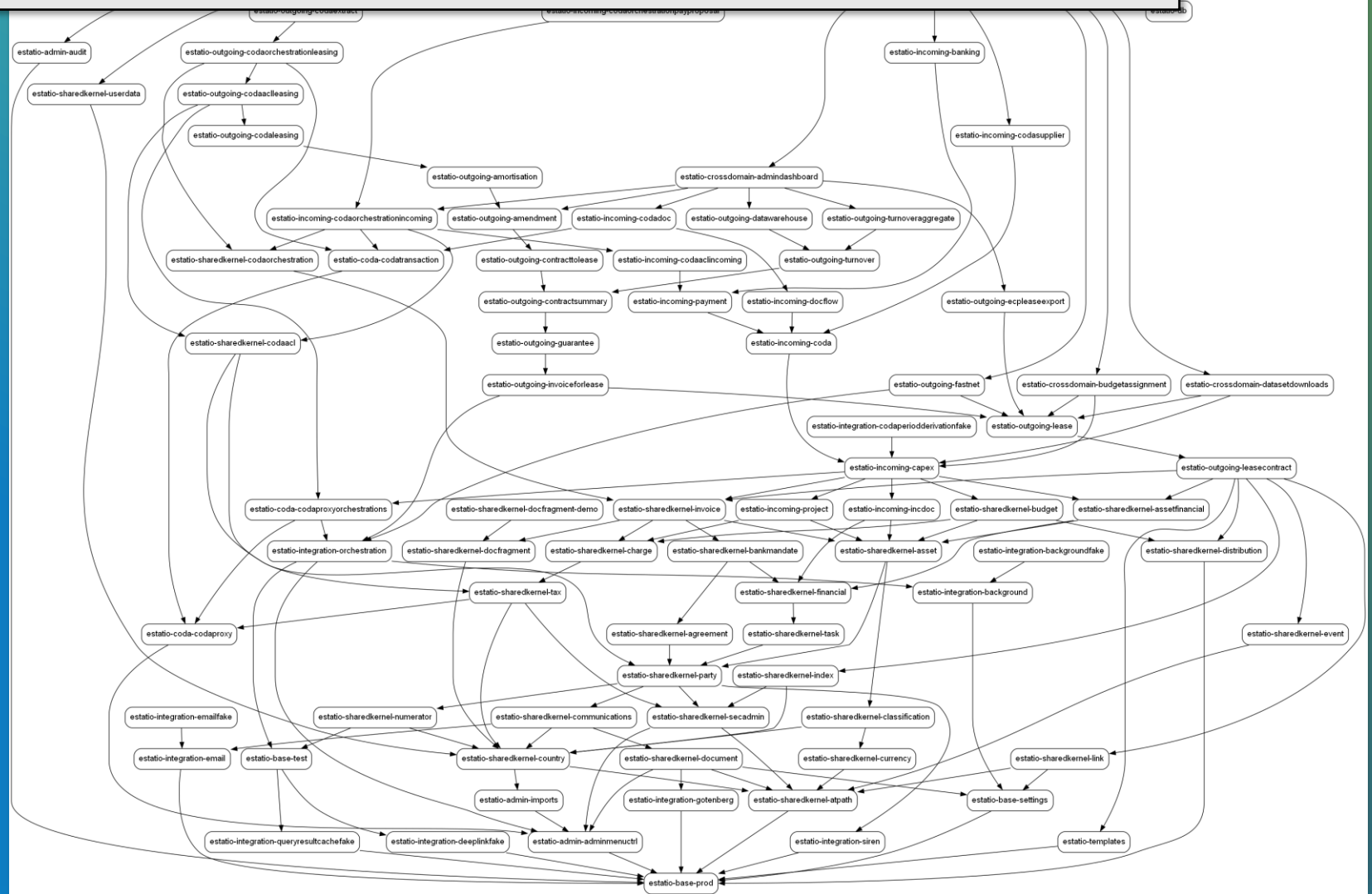


# Modular Monolith



```
mvn com.github.ferstl:depgraph-maven-plugin:aggregate \
-DgraphFormat=png
```

# Modular Monolith



# Can I speed up the build?

- Use `mvn` daemon
- Build in parallel
- Build offline
- Use `verify`, not `install`
- Don't use `clean`

# Can I speed up the build?

- Use mvndaemon
- Build in parallel
- Build offline
- Use `verify`, not `install`
- Don't use `clean`

```
mvnd -T1C -o verify
```

# Can I speed up the build?

- Which modules take the longest to build?
- Which phases take the longest to build?
  
- Should I split up any of the modules?
- Should I split each module's unit tests from its compile?
- Should I split each module's integration tests out?

# Maven Timeline Plugin

- Instruments the build
  - captures metrics on the start and end of each phase within each module
- Provides a UI to visualize the timeline

**Let's see it in action**

The background features a smooth gradient from light blue on the left to a darker teal on the right. A thin, curved line in a yellow-green color starts near the bottom center and arcs upwards towards the top right corner.



# Enabling the plugin

## pom.xml

```
<properties>
  <maven-timeline.version>1.8</maven-timeline.version>
</properties>

<build>
  <extensions>
    <extension>
      <groupId>io.takari.maven</groupId>
      <artifactId>maven-timeline</artifactId>
      <version>${maven-timeline.version}</version>
    </extension>
  </extensions>
</build>
```

# Credits

- <https://github.com/dgageot/maven-timeline>
  - **David Gageot** ; William Delanoue ; Eugen Dinca
- <https://github.com/busjaeger/maven-timeline>
  - busjaeger
  - **Jason van Zyl** (founder of Apache Maven, former CTO at Sonatype)
- <https://github.com/takari/maven-timeline>
  - **Dominik Scholl** ; Dan Haywood ; Tamas Cservenak

# Over to you

The current Web UI uses deprecated features

Weekend project to update and refactor ?

Or a brand new UI with your favourite toolkit ?

```
[
  {
    "groupId" : "com.ecpnv.devops.apps.estatio",
    "artifactId" : "estatio-base",
    "phase" : "install",
    "goal" : "install",
    "id" : "default-install",
    "threadId" : 32,
    "start" : 1980,
    "end" : 2006
  },
  {
    "groupId" : "com.ecpnv.devops.apps.estatio",
    "artifactId" : "estatio-incoming-incdoc-tests",
    "phase" : "integration-test",
    "goal" : "test",
    "id" : "integ-test",
    "threadId" : 79,
    "start" : 107796,
    "end" : 107798
  },
  {
    "groupId" : "com.ecpnv.devops.apps.estatio",
    "artifactId" : "estatio-sharedkernel-codaorchestration",
    "phase" : "package",
    "goal" : "jar",
    "id" : "default-jar",
    "threadId" : 110,
    "start" : 114698,
    "end" : 114756
  },
  ...
]
```

<https://github.com/takari/maven-timeline>

# Thank you

Dan Haywood

<https://www.linkedin.com/in/dkhaywood/>

<https://causeway.apache.org>