The Road to Interoperability in CI/CD

Fatih Degirmenci
Principal Developer, Ericsson Software Technology
Co-Chair, SIG Interoperability, CD Foundation

Kara de la Marck
Open Source Community Team, CloudBees
Co-Chair, SIG Interoperability, CD Foundation

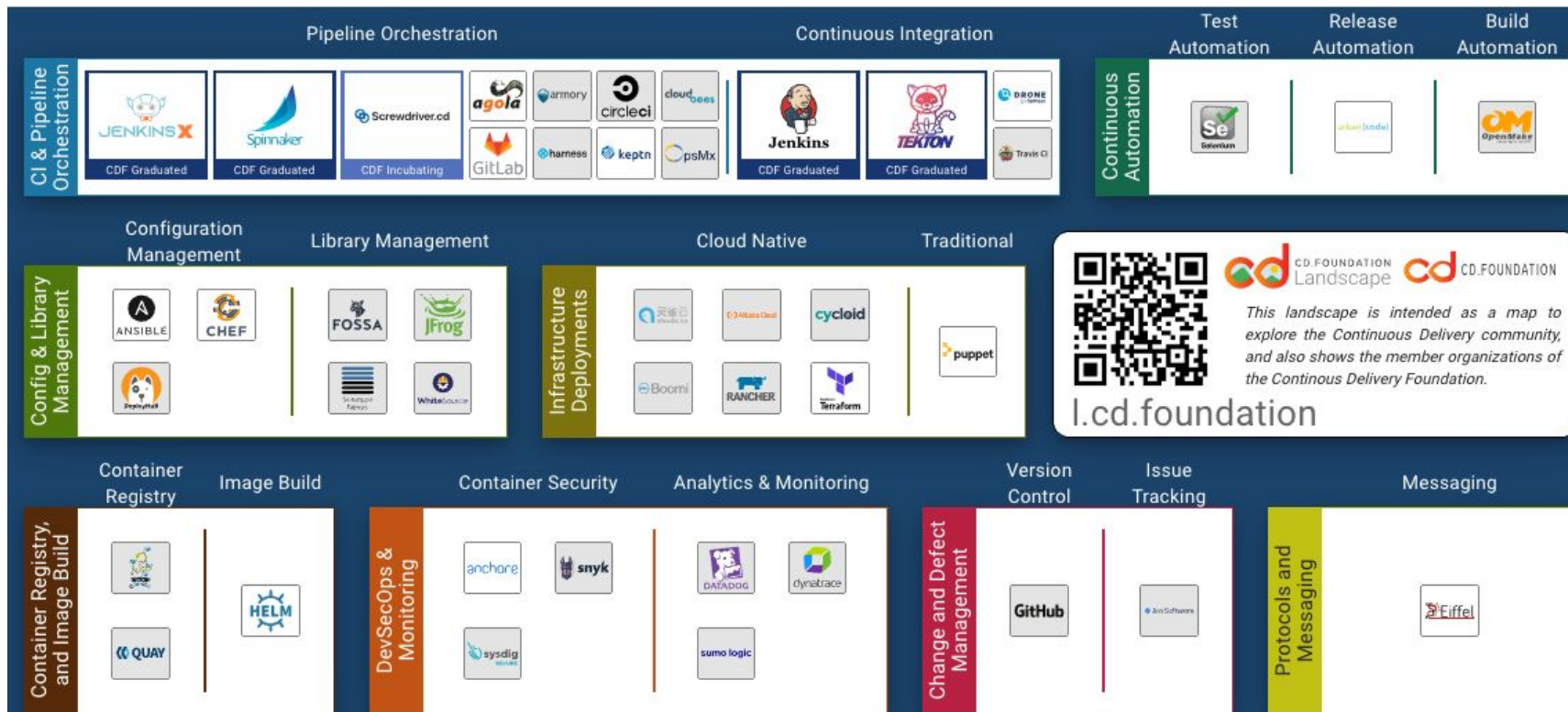# Openness, Integration, and Interoperability

Integration => often glue code needed

- Engineering effort
- Maintenance costs
- Replacing services can be hard work

Interoperability => openly defined interfaces and metadata

- Easier access to services
- Can have multiple, independent implementations of a service's interface
- Ease of switching between implementations of a service
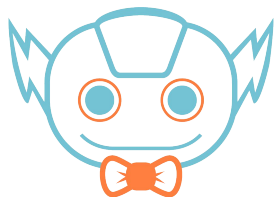
Continuous Delivery Landscape

Interoperability in CI/CD Context

- Pipeline standardization/languages
- Connecting/integrating pipelines
- Pipeline data for traceability/visualization
- Events in CI/CD

Continuous Delivery Foundation Interoperability Whitepaper

Case Study

Enter Continuous Delivery Foundation

CDF was founded during March 2019 and hosted by Linux Foundation

A Neutral Home for the Next Generation
of Continuous Delivery Collaboration

Members from webscale, cloud, fintech, telecom, e-commerce, IT, CI/CD industries

Hosted Projects	Special Interest Groups
Jenkins Spinnaker JENKINS X TEKTON Screwdriver.cd ORTELIUS	Security, MLOps, Interoperability, Best Practices

Special Interest Group Interoperability

- Approved by CDF Technical Oversight Committee during January 2020
- Aims to increase collaboration to address interoperability challenges

Communities

Industries

Webscale
Cloud
Telecommunications
E-Commerce
Entertainment
CI/CD
IT Operations
Software

Progress so far

- First contribution to CI/CD Domain: *"Rosetta Stone for CI/CD"*

- Released the first version of the SIG Roadmap

- Established Events in CI/CD Workstream

- Initiated the work on Standardized Metadata

- Worked on a whitepaper which will be released soon by CDF

Future

- Exploring reusable libraries and providing home for them

- Collaborating with CDF End User Council on user challenges and needs

- *and the interoperability challenges you bring in...*

Conclusions

- Most of the work in CI/CD domain is driven by communities
- Ideas incubated and specifications developed by communities are candidates to become *"de-facto standards"* (e.g. cloudevents)
- Cross collaboration and pollination across communities and industries is key to addressing challenges
- Continuous Delivery Foundation provides neutral home for collaboration

Q&A

Links

- [CD Foundation](#)
- [CDF Continuous Delivery Landscape](#)
- [CDF SIG Interoperability](#)