

What's new in CDEvents v0.4

Andrea Frittoli

Developer Advocate @ IBM

andrea.frittoli@uk.ibm.com

[@blackchip76](https://twitter.com/blackchip76) | [@afrittoli](https://github.com/afrittoli)

CONTINUOUS
DELIVERY MINI
SUMMIT

SEPTEMBER 19, 2024 | VIENNA, AUSTRIA

THE LINUX FOUNDATION
OPEN SOURCE SUMMIT
EUROPE



Andrea Frittoli

⌚ afrittoli | 💬 andreafrittoli | 🐦 @blackchip76

- › Open Source Advocate @ IBM
- › Lives in Wales, enjoys the wind
- › CDEvents maintainer, Events SIG co-chair
- › Chair of CDF Technical Oversight Committee Governing Board



Contents



Software Factory

CDEvents

What's New

Roadmap

Thank You

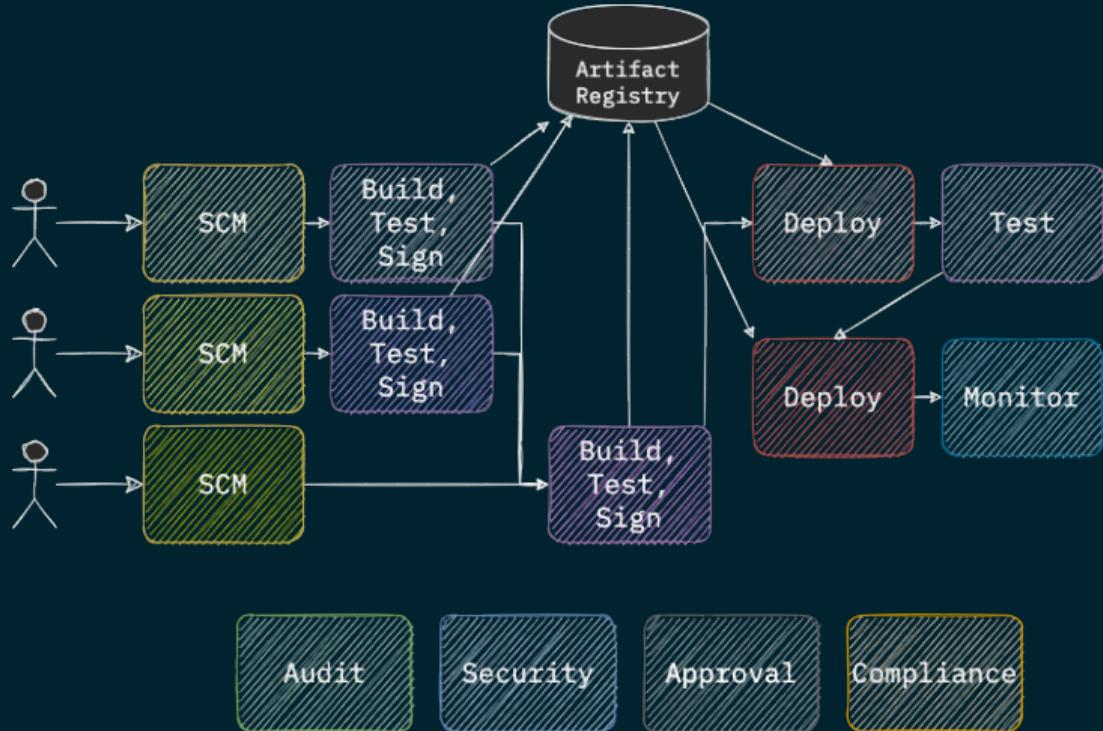


Software Factory



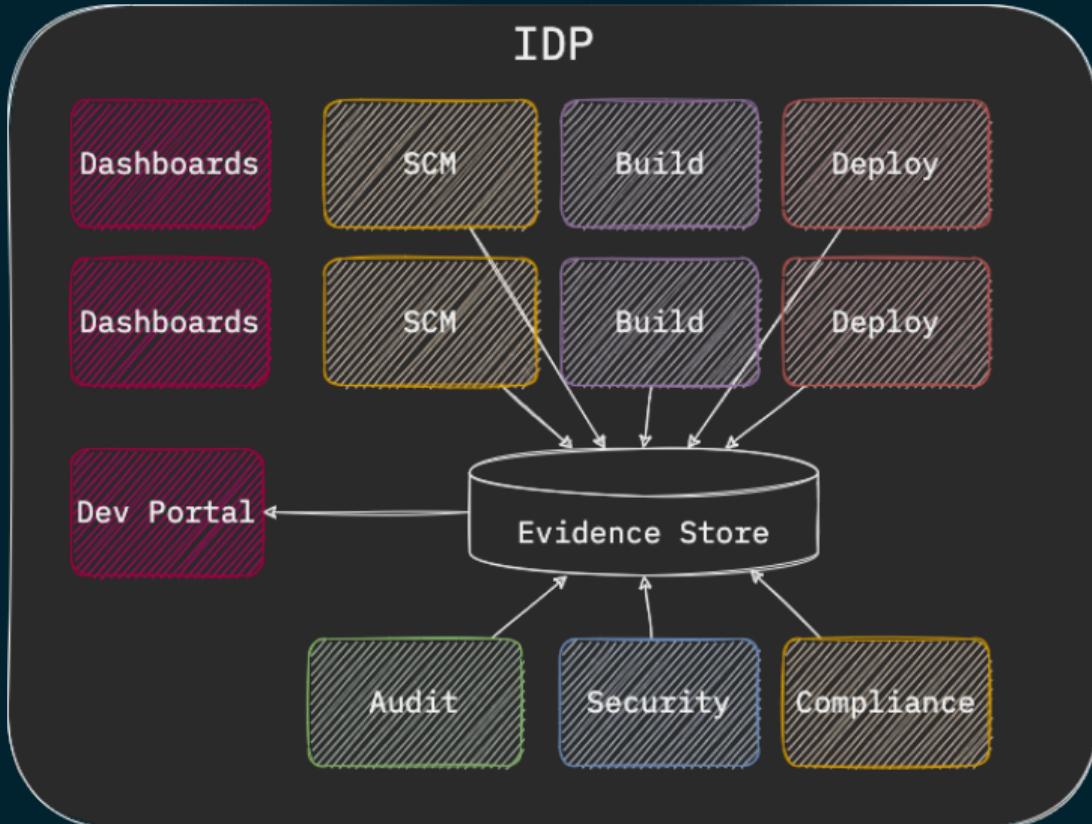
Software Factory

- › "Glue code" explosion
- › Does not scale
- › Expensive to onboard new services
- › Hard to maintain

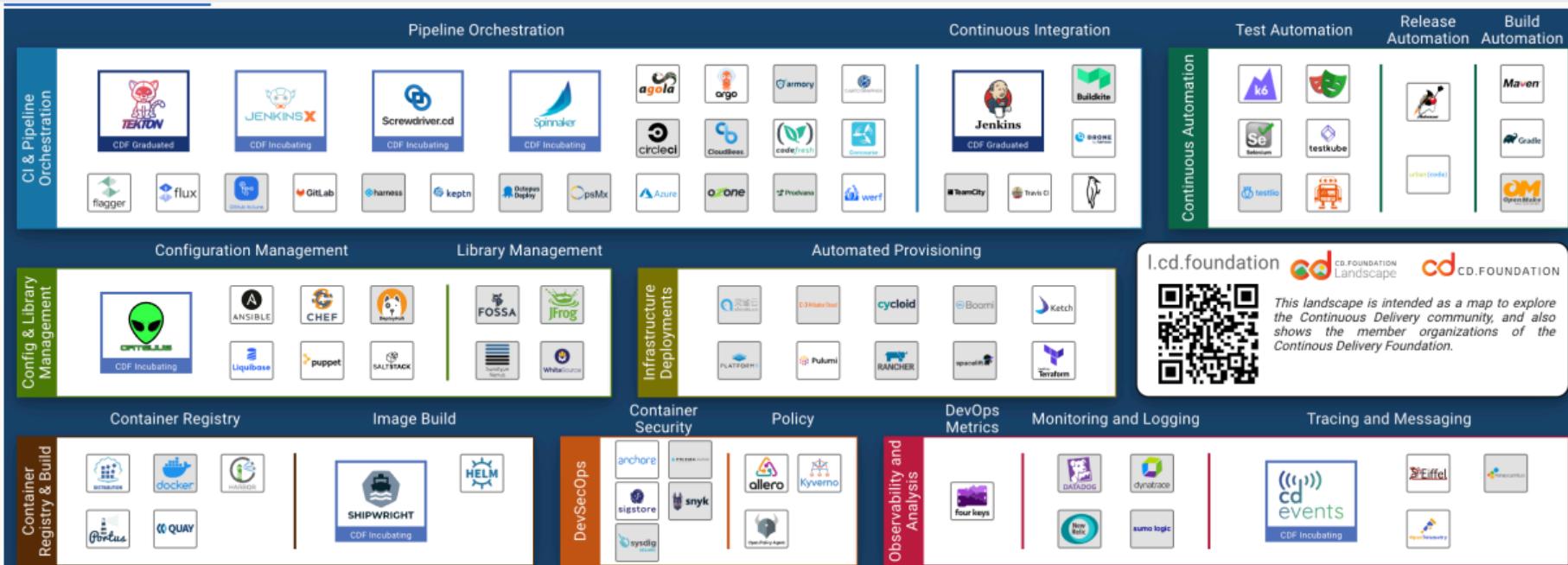


Internal Development Platform

- › Lock-in effect
- › Missing/Broken Data
- › Many Dashboards



A Plethora of Tools

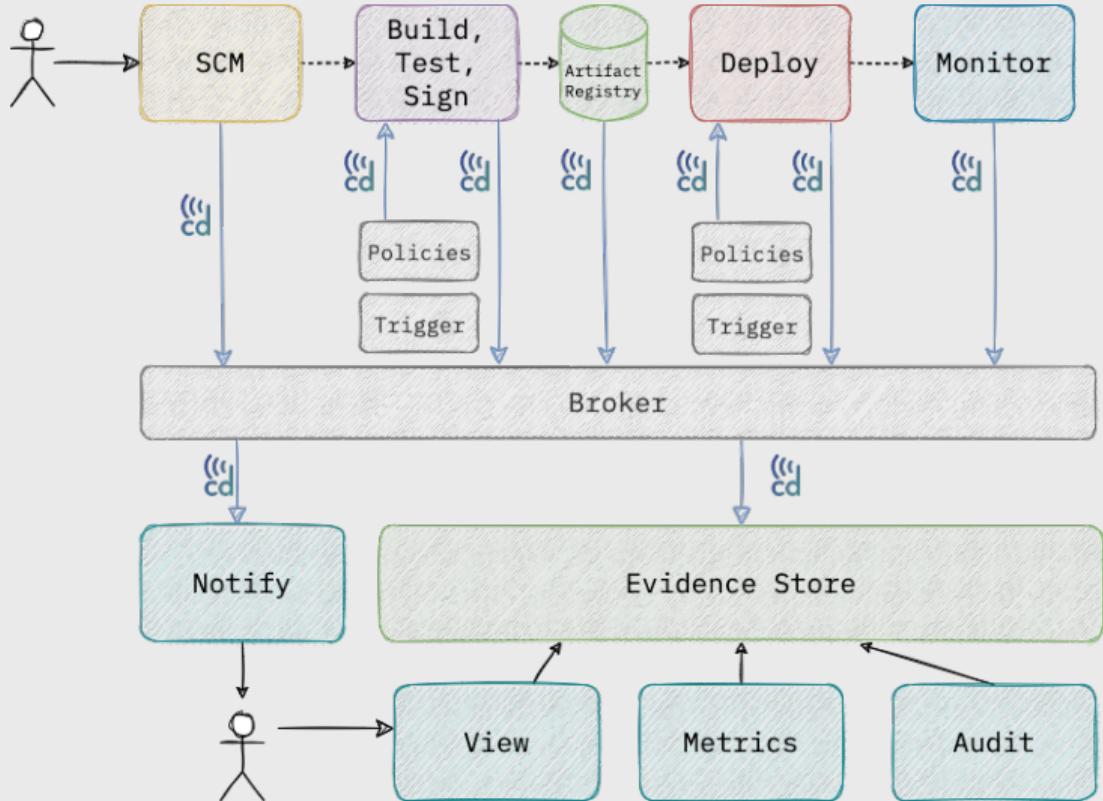




A common specification for Continuous Delivery Events

Interoperability

- › Less "Glue Code"
- › More focus on DevEx and DevOps metrics
- › Better quality data
- › Drive Best Practices



Evidence Store Supply Chain Security

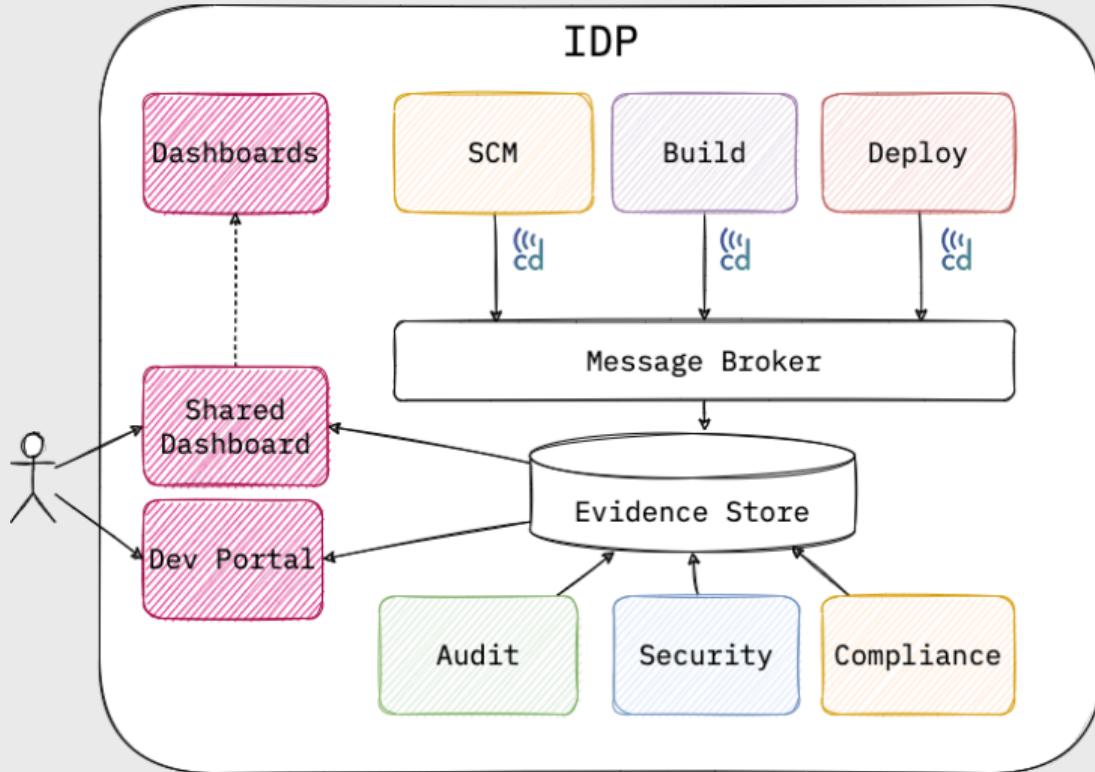
- › Where is this code deployed?
Tracking vulnerabilities
- › How was this code built?
Audit and compliance
- › How long did it take?
DevOps Metrics
- › What's happening right now?
One overview dashboard for all needs



IDP and CDEvents

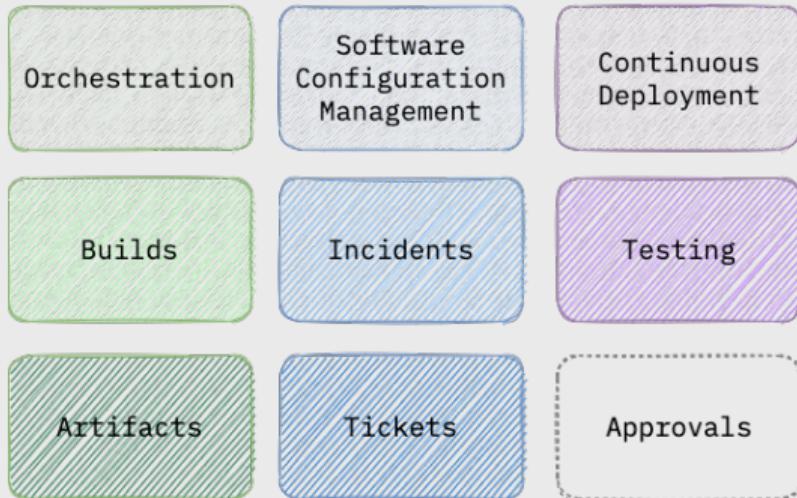
- › Add/swap tools
- › Consistent Data
- › Single Dashboard

- › Promotes Collaboration through Open Source
- › CDEvents and [CNOE.io](#)



Components

Specification:



Bindings:



SDKs:



Community

- › End Users
- › DevOps Vendors
- › Tool Maintainers



What's New



Photo by [Josh Sorenson](#), CCO



((c)) cdevents 0.4

Linked Events:

- › Connect Events
- › Fast Filtering
- › Visualization
- › Audit Trail

Ticket Events:

- › Inception to Deployment
- › E2E Metrics
- › Ticket Based Automation
- › Interop.

Custom Events:

- › Schema
- › Custom Types

Artifact Events:

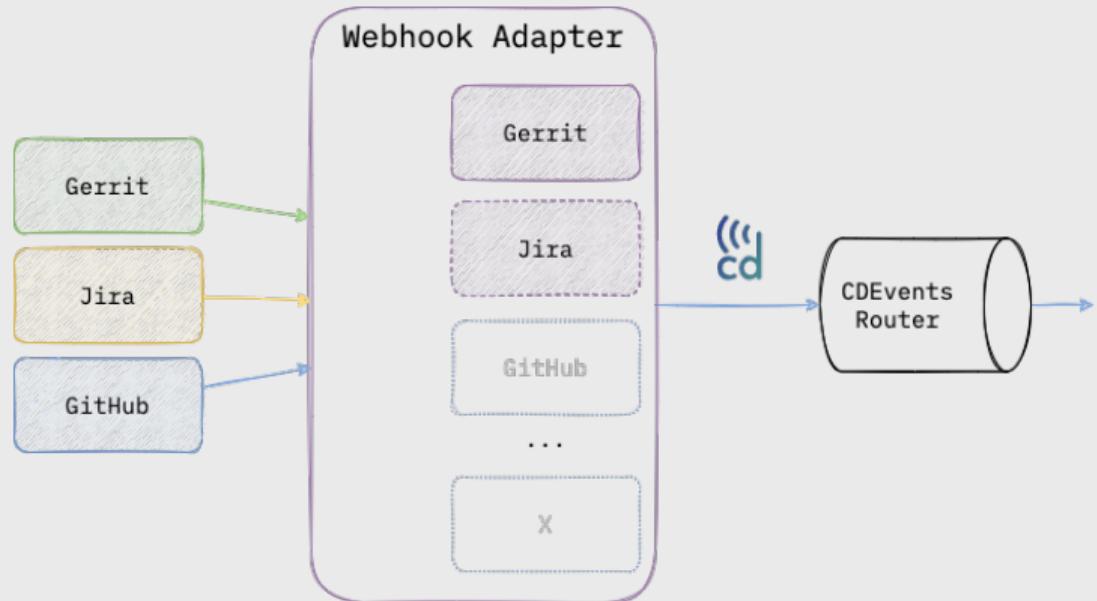
- › SBOM, User
- › New Predicates

Release Announcement:



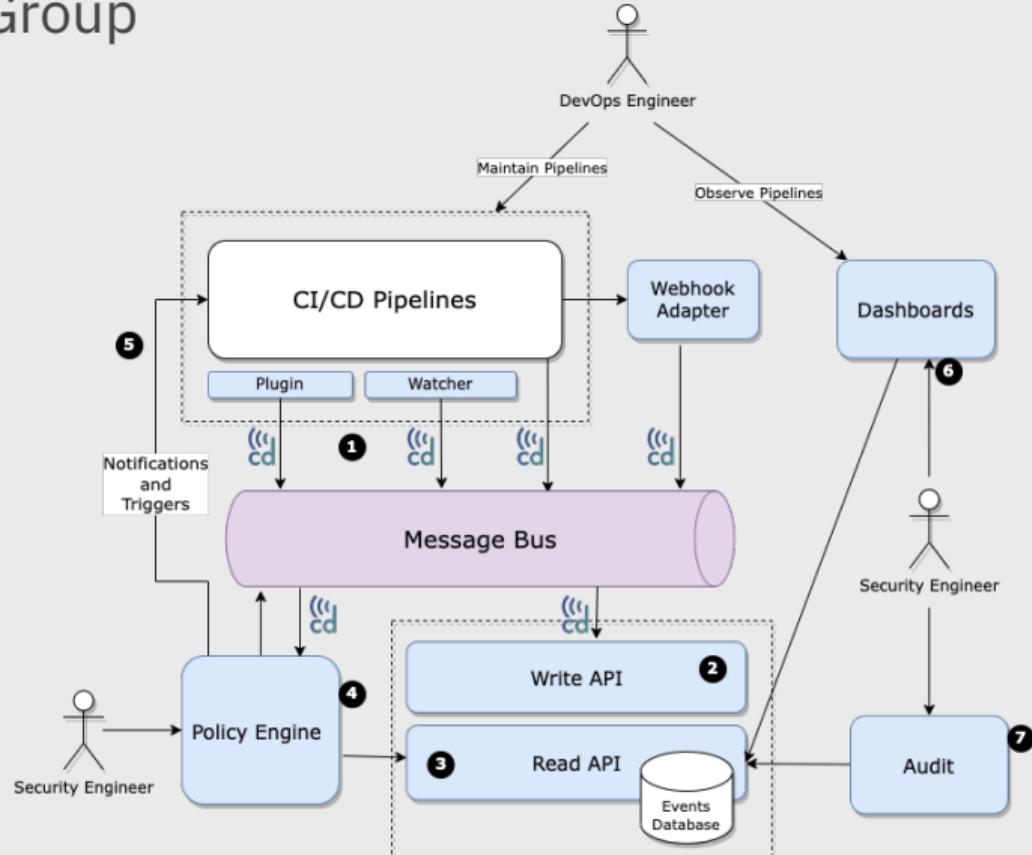
Webhook Adapter

- › Plugin mechanism
- › Translate into CDEvents
- › Deliver CDEvents to a sink



Implementation Working Group

- › 1. Send Events
- › 2. Ingest in a DB
- › 3. Read Events
- › 4. Apply Policies
- › 5. Notifications and Triggers
- › 6. Visualize Workflows
- › 7. Audit Software Factory



Roadmap



CDEvents Roadmap

v0.5 and beyond

New features

- Approvals
- Compositions
- Releases

Software & Architecture

- SDKs (JS, .NET)
- Webhook Adapter
- Visualization
- Links Service

Proof of Concept

- CDEvents + CNOE.io
- CDEvents Visualization

Continue to Drive Adoption



Conclusions

- › Lack of Standardization in the Continuous Delivery Space

which means

- › Complexity & Costly integrations
- › Risk of inconsistent and incomplete data
- › Developer fatigue

- › CDEvents is a common specification for Continuous Delivery Events

which means

- › Standardization
- › Flexibility & Better DevEx
- › Better supply chain security stance through data



Thank You!



References

- › cdevents.dev, github.com/cdevents
- › CDF: cd.foundation
- › CDF Landscapes: landscape.cd.foundation
- › Release Announcement: cd.foundation/blog/2024/04/16/cdevents-v04/
- › Webhook Adapter: github.com/cdevents/webhook-adapter
- › Implementation WG: github.com/cdevents/implementation-wg



Andrea Frittoli | andrea.frittoli@uk.ibm.com

 @blackchip76 |  afrittoli |  andreafruttoli

