



Adopting CDEvents and Embracing Interoperability



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- › Open Source Advocate @ IBM
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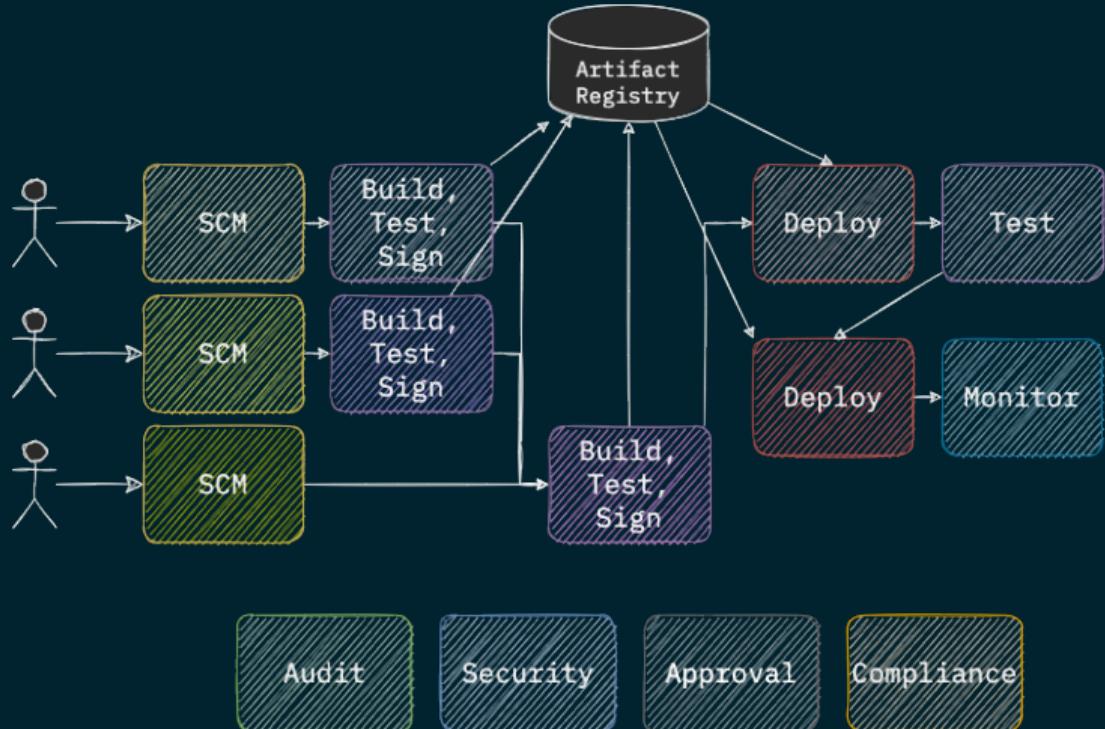
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Software Factory



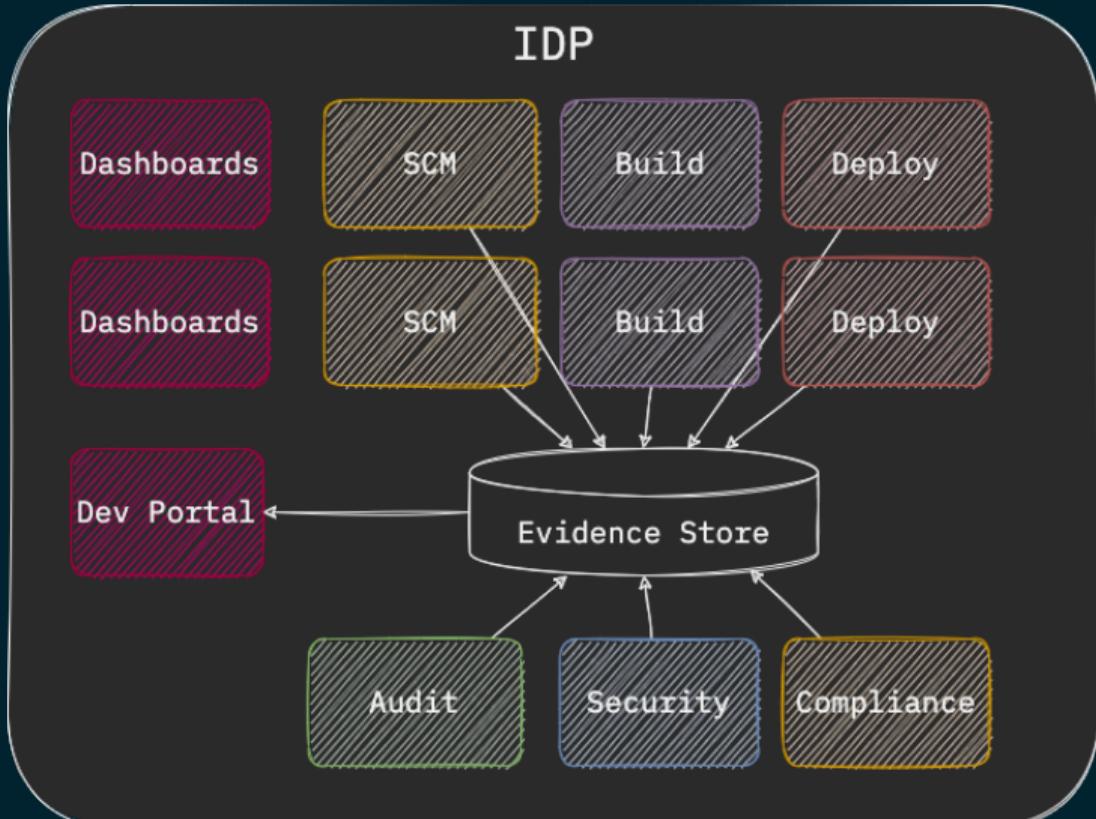
Software Factory

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

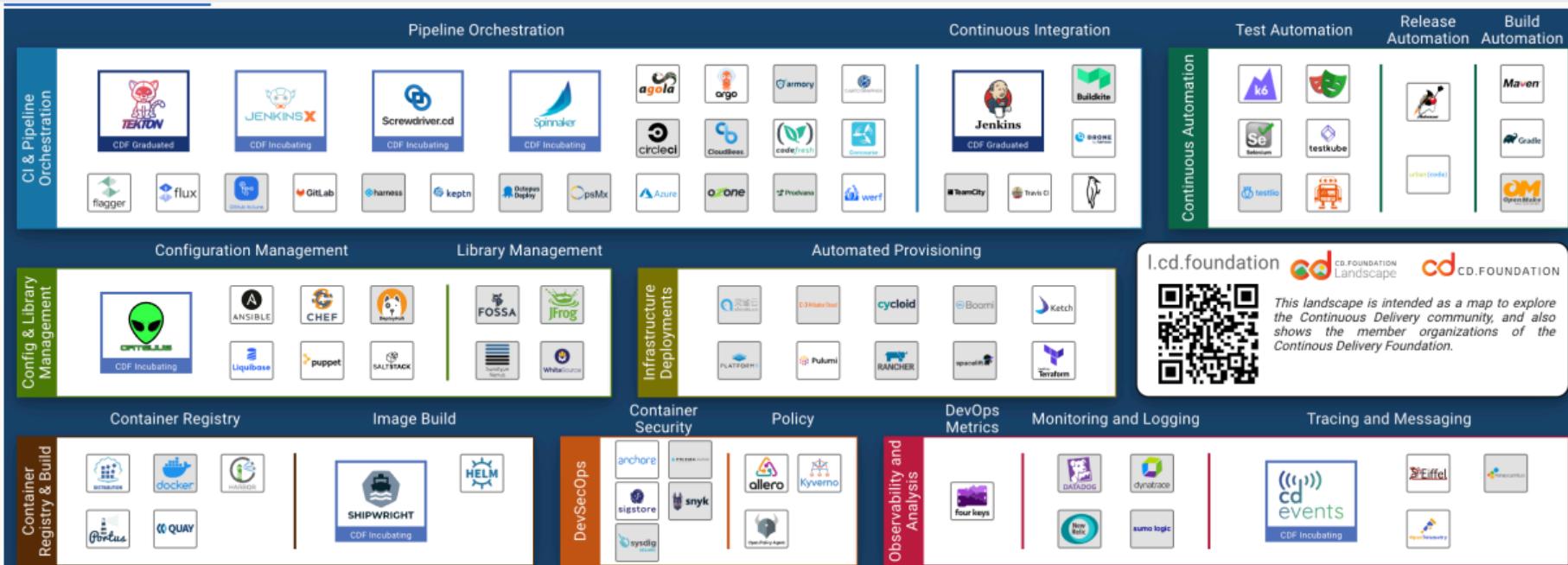


Internal Development Platform

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



A Plethora of Tools

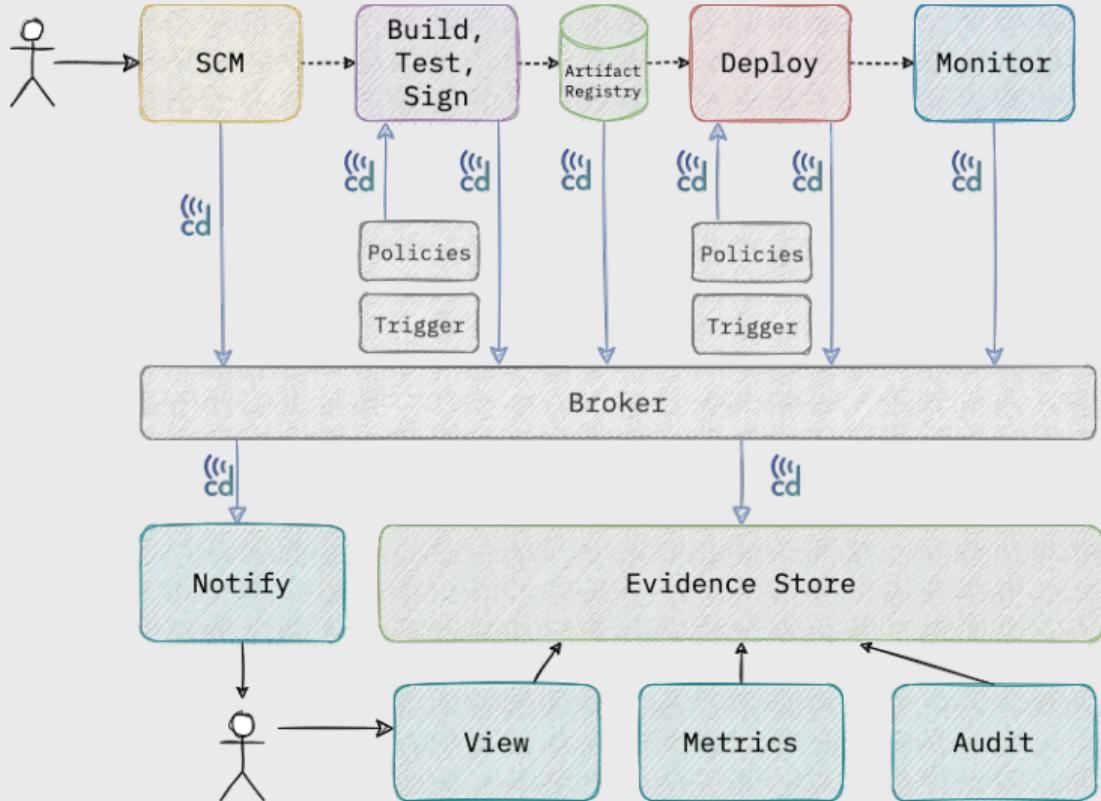




A common specification for Continuous Delivery Events

Interoperability

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



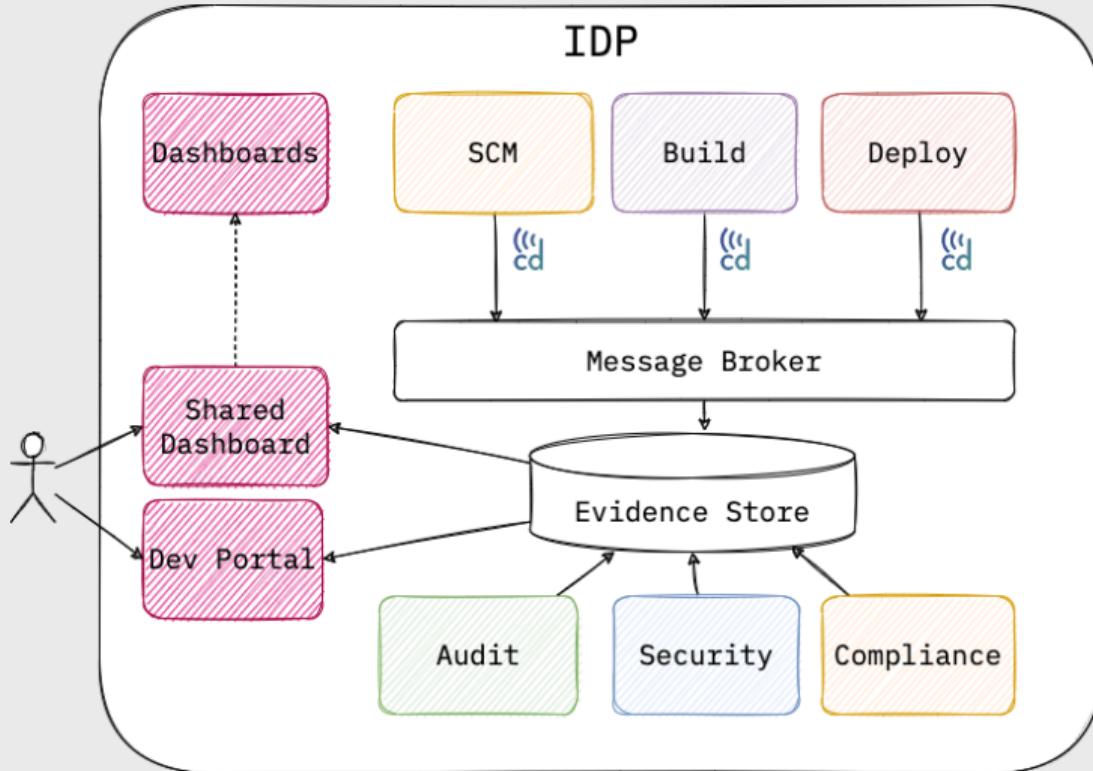
Evidence Store Supply Chain Security

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



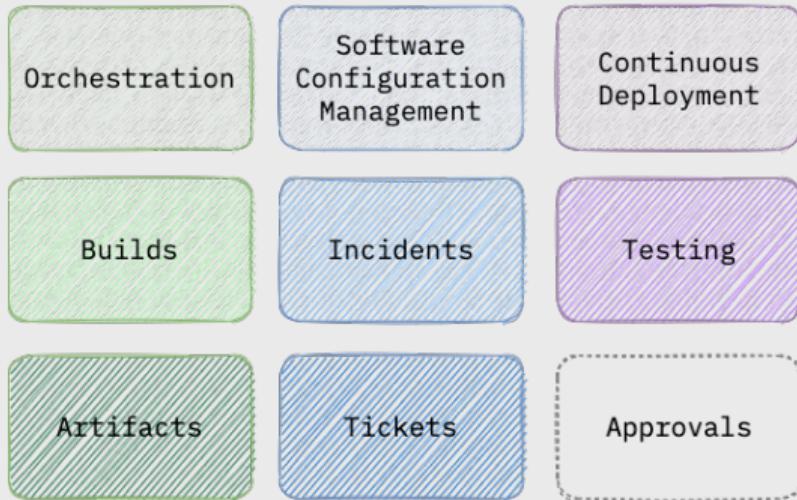
IDP and CDEvents

- › 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



(((())) 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:

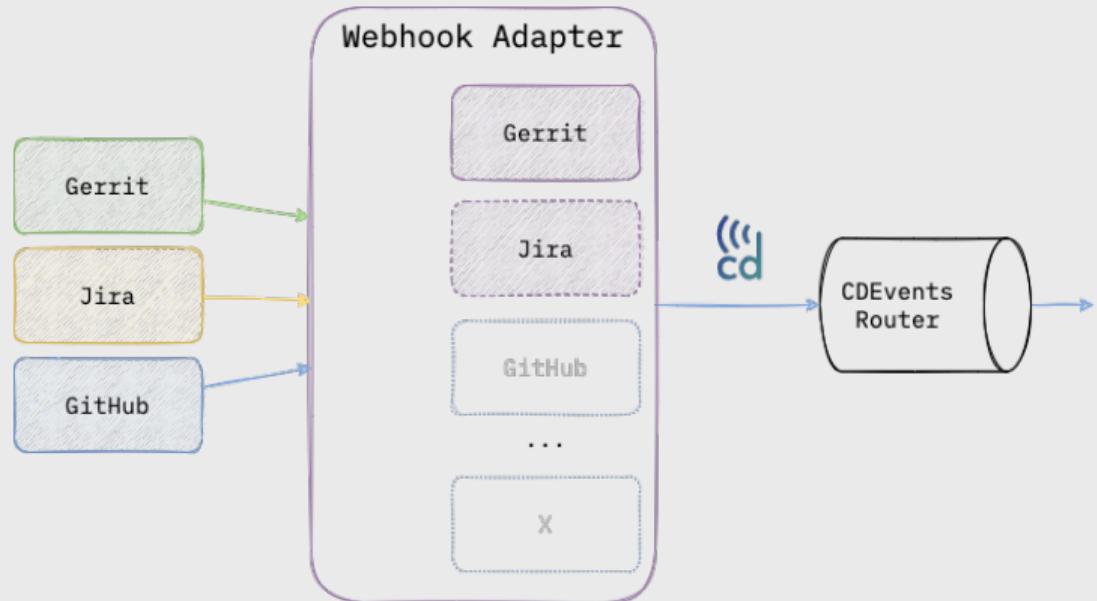


Adopting CDEvents



Webhook Adapter

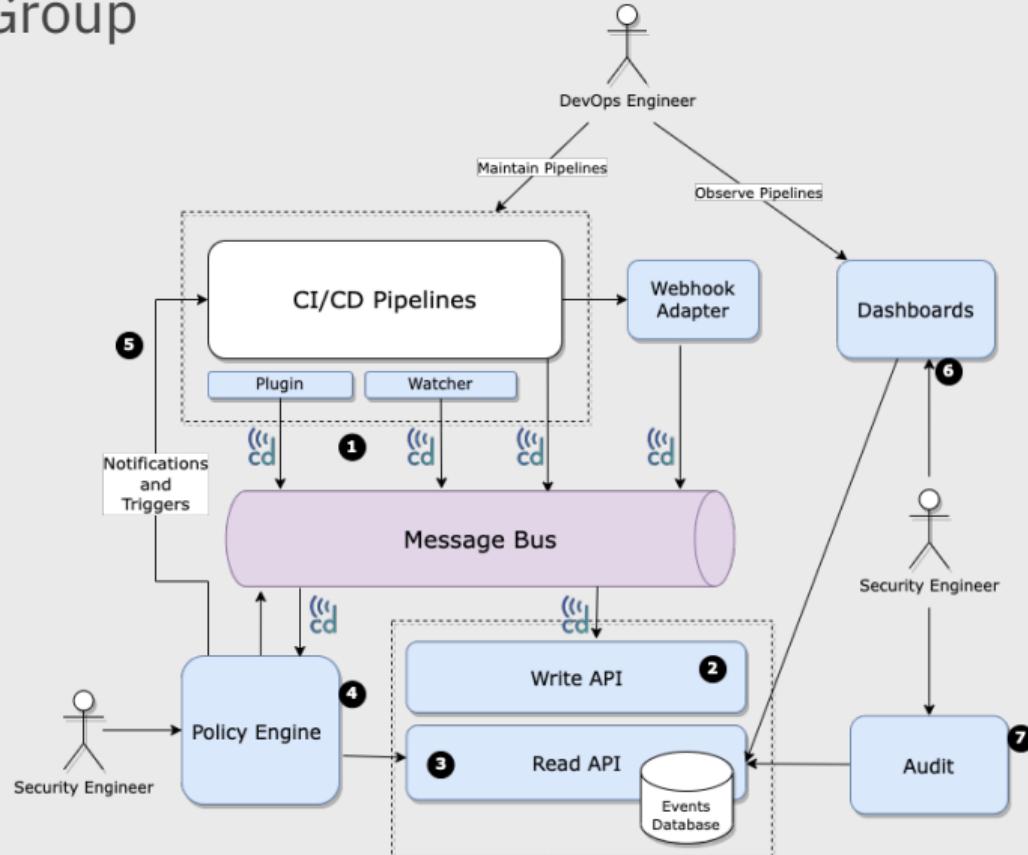
- › Plugin mechanism
- › Translate into CDEvents
- › Deliver CDEvents to a sink



Implementation Working Group

Use Cases

- › 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



Benefits



TechStrong CDEvents Episode

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
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- › 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



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