

Adopting CDEvents and Embracing Interoperability

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- › 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

CDEvents

What's New

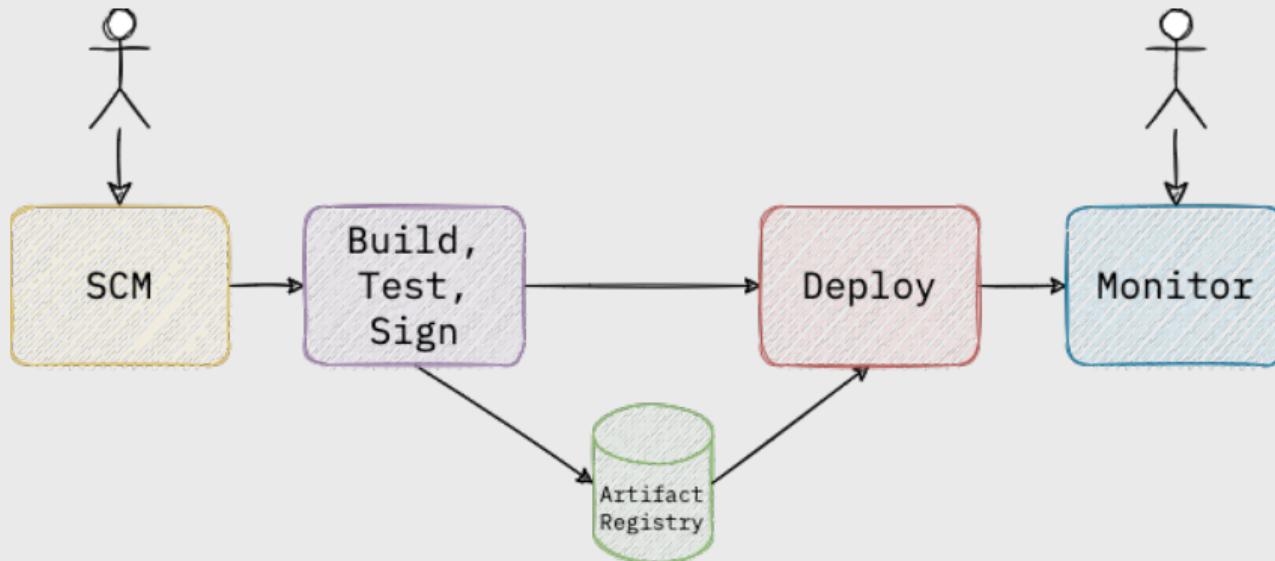
Tools Adoption

Roadmap

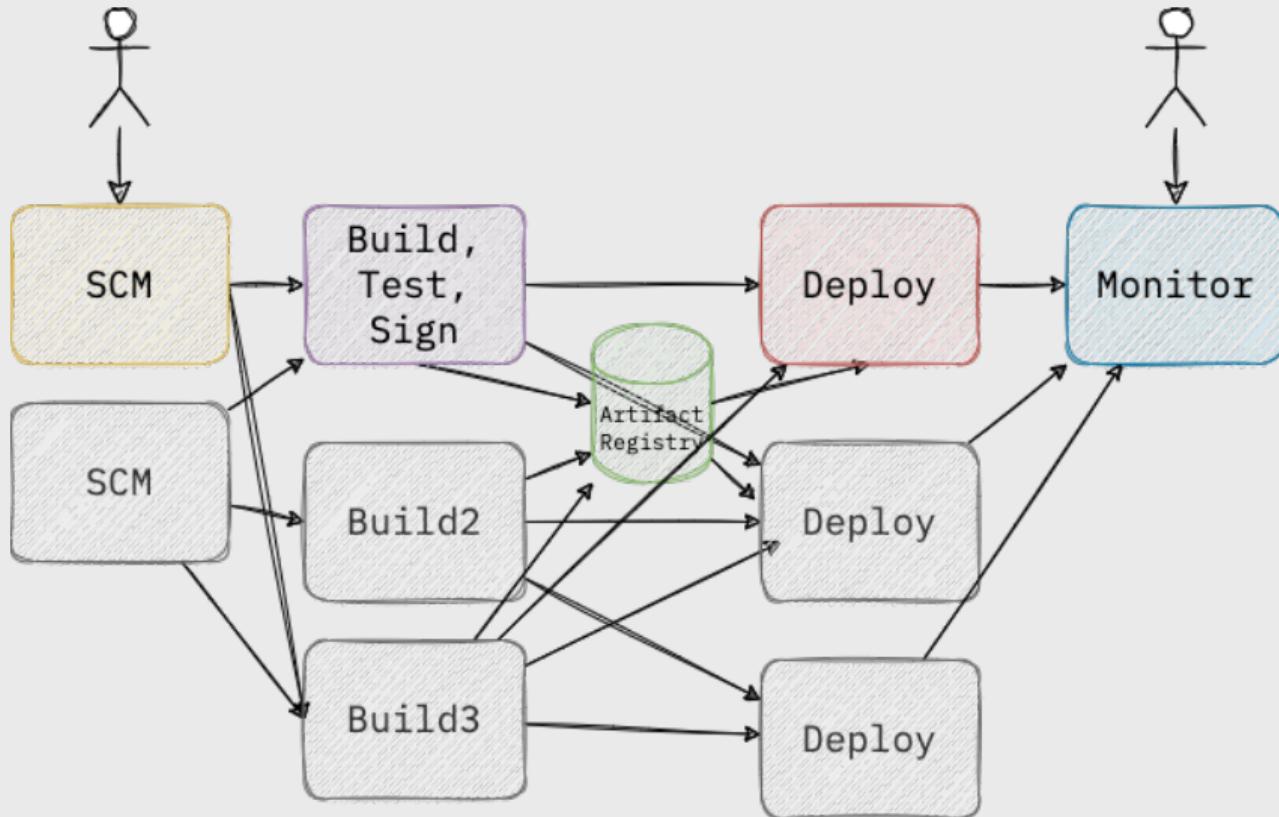
Thank You



Continuous Delivery Pipeline



Integrations



Orchestration



Choreography

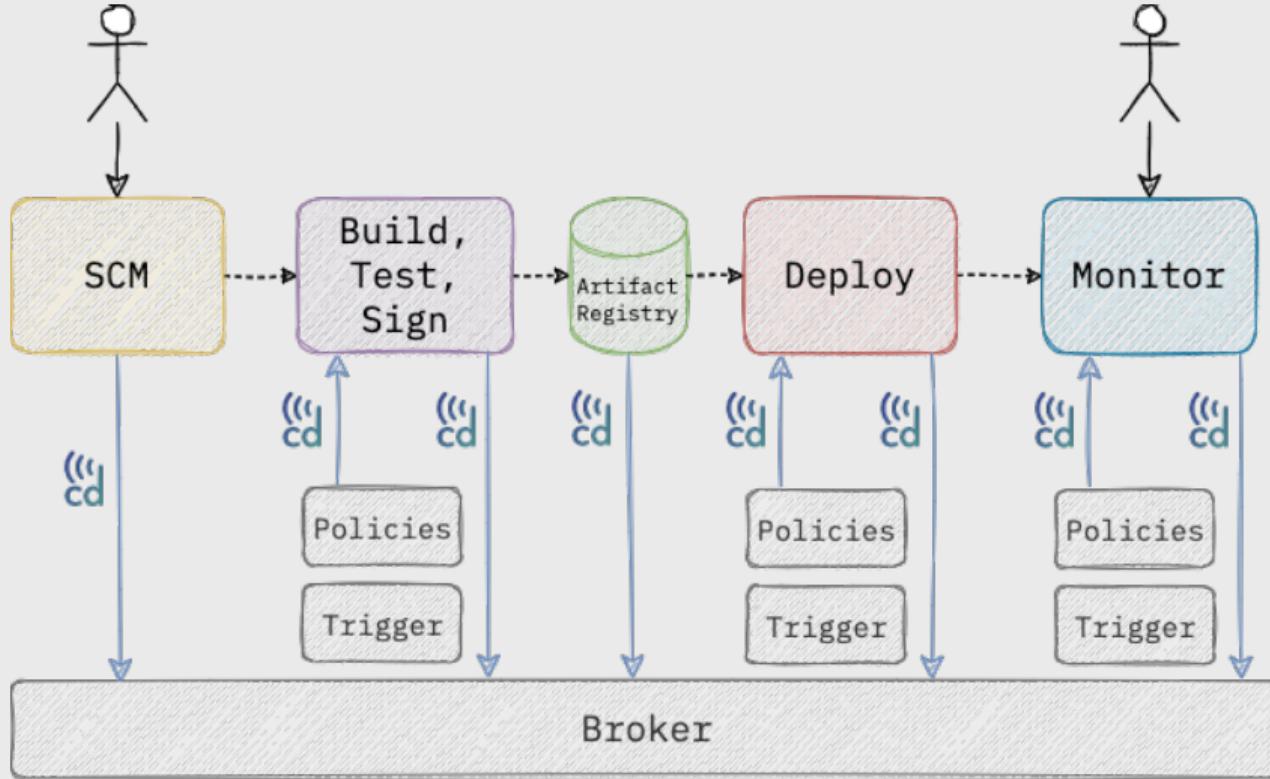




A common specification
for Continuous Delivery
events



Interoperability

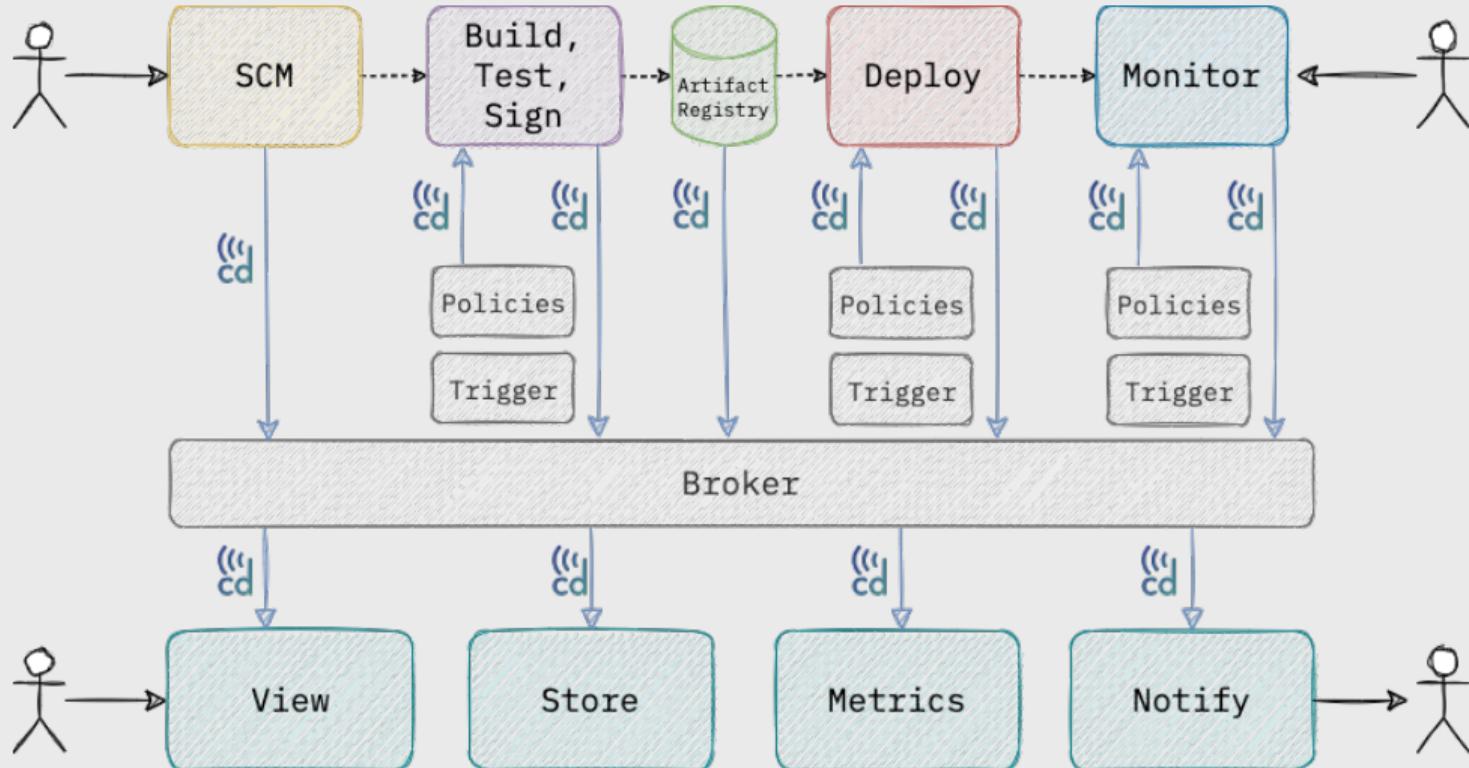


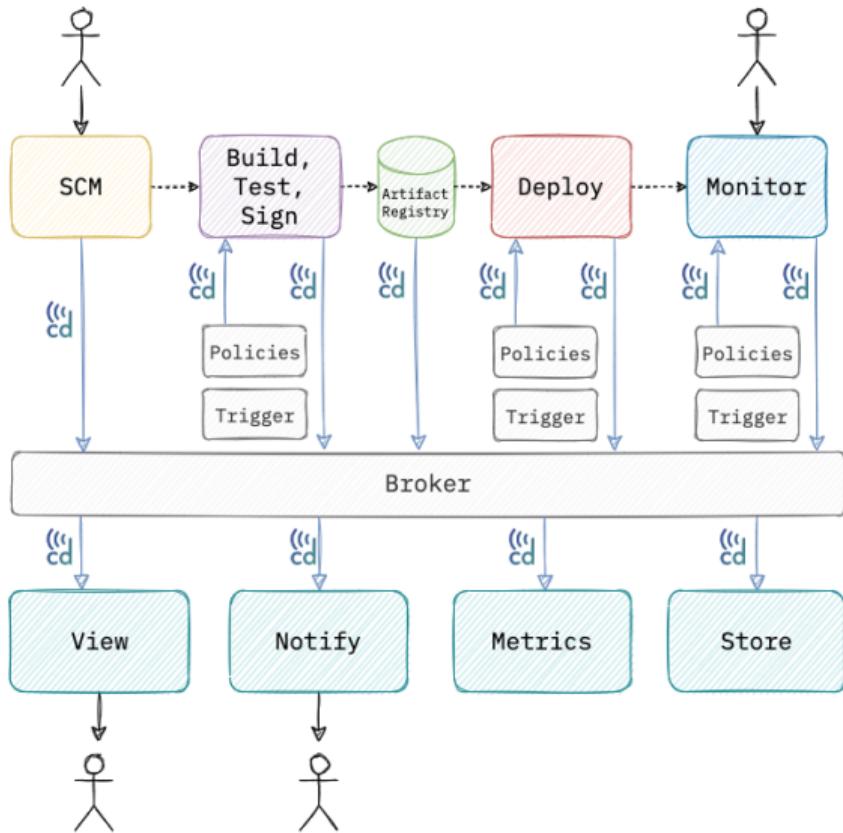
Observability

- › What's running right now?
- › What steps were executed?
- › Where did things go wrong?
- › How long did it take?



Interoperability & Observability





Why CDEvents

Interoperability!

- Event driven workflows
 - Scalable, Decoupled
 - Flexible
 - Policy Driven
- Observability
 - Metrics
 - Notifications
 - Single View



History of CDEvents

- › Interoperability and Events Special Interest Groups
- › First Commit Oct 2020
- › Incubated at the CDF since 2022

- › Release v0.1 announced at the CDSummit in Detroit
 - Orchestration
 - Software Configuration Management
 - Continuous Integration & Deployment
 - CloudEvents Binding
 - Golang SDK
 - DevOps Metrics





What's New

((c)) cdevents 0.3

Incident Events:

- › Continuous Operations
- › Modeled after DORA
- › Remediation Automation

Test Events:

- › Notifications
- › Test Driven Automation
- › Metrics

Software Supply Chain Security

- › Artifact Signed event
- › Build & Deployment Automation

Quality of life improvements

- › Improved readability
- › Examples for each event
- › Refreshed web site



SDKs



Tools Adoption

Photo by Clay Banks, CC0



Overview

Jenkins

Spinnaker



Testkube

Tekton

Lessons Learnt



Roadmap



CDEvents Roadmap

v0.4 and beyond

Supply Chain Security

- SBOM, Provenance, Signatures
- Signed Events

E2E Supply Chain

- Requirements
- Releases
- Production
- Incidents
- Remediations

New features

- Compositions
- Links, Workflow IDs
- SDKs
- Policy Driven Workflow

Data Model

- SCM Events
- Tests
- Documentation:
 - Architecture
 - Examples



Collaborations



Community

CDF

- › SIG Interop
- › SIG Supply Chain
- › SIG Best Practices

Tools communities

- › Tekton
- › Spinnaker
- › Shipwright
- › Jenkins
- › Jenkins X
- › Flux, Argo

Companies

- › Ericsson
- › IBM / RedHat
- › doWhile
- › Apple
- › VMWare
- › Fidelity
- › SAS

Get Involved!!

- › Specification
- › SDKs (Rust, JS, Ruby, C#)
- › Tools
- › Proof-of-concepts
- › End users



Thank You!



References

- › cdevents.dev
- › github.com/cdevents/spec/blob/main/CDEvents_Whitepaper.pdf
- › github.com/cdevents/sdk-go
- › github.com/cdevents/sdk-python
- › github.com/cdevents/sdk-java

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