

# Adopting CDEvents and Embracing Interoperability

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Session: [sched.co/1aBN2](https://sched.co/1aBN2)



# Andrea Frittoli

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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



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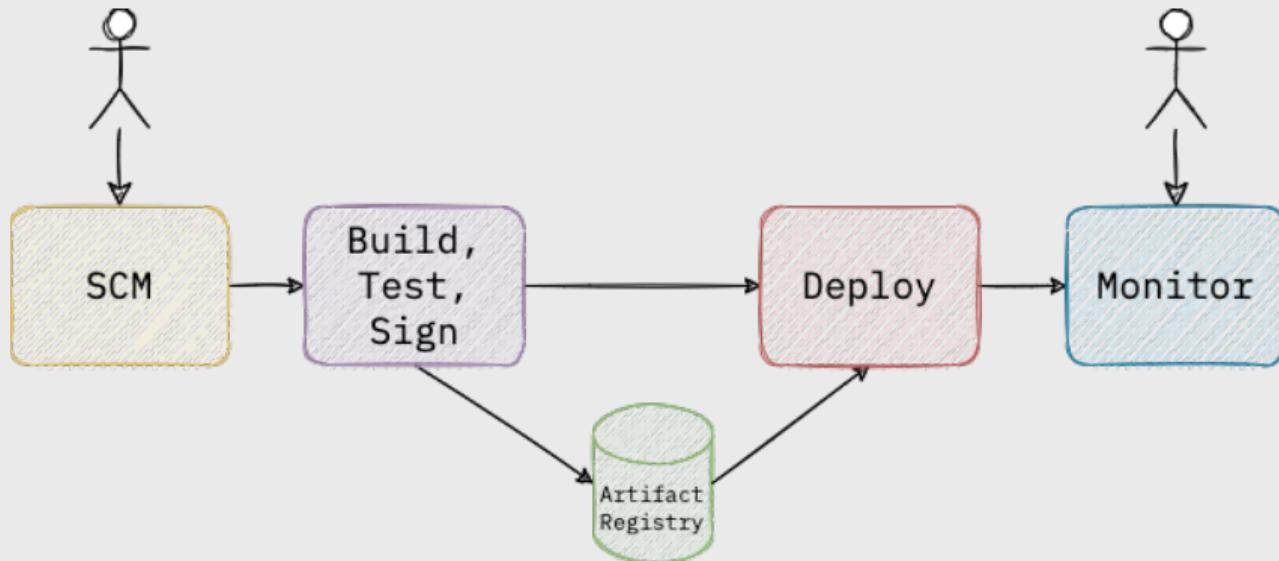


Software Factory  
CDEvents  
Tools Adoption  
What's New  
Roadmap  
Thank You

# Software Factory

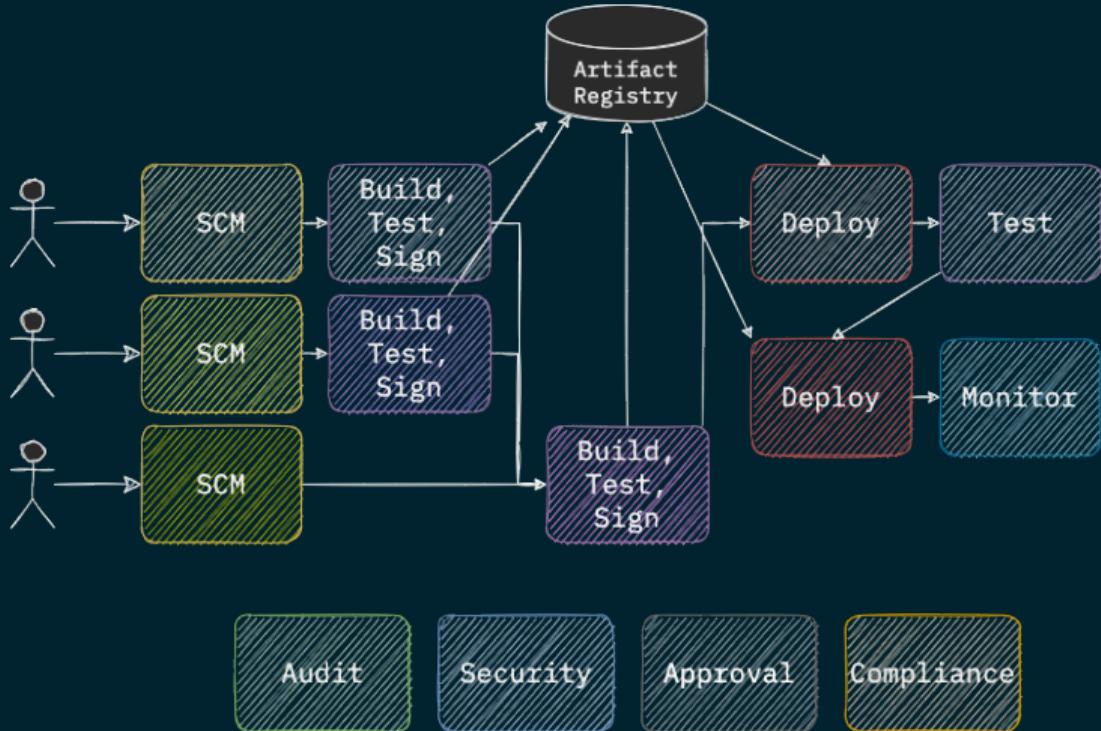


# Software Factory

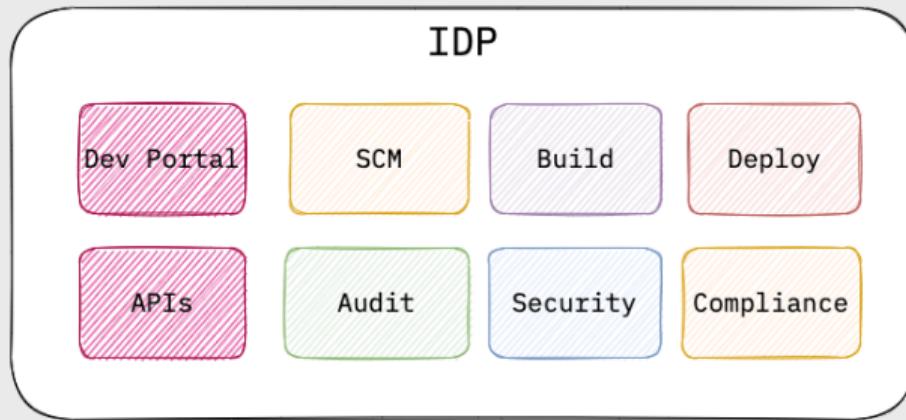


# Software Factory

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

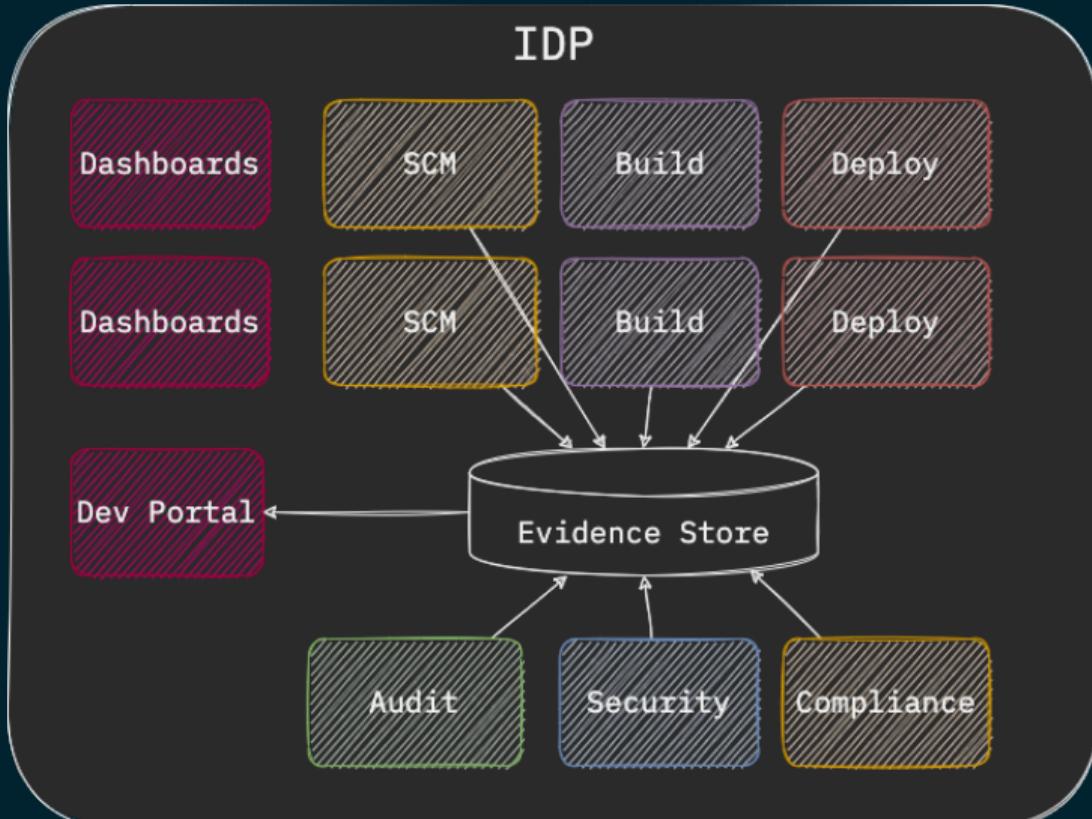


# Internal Development Platform

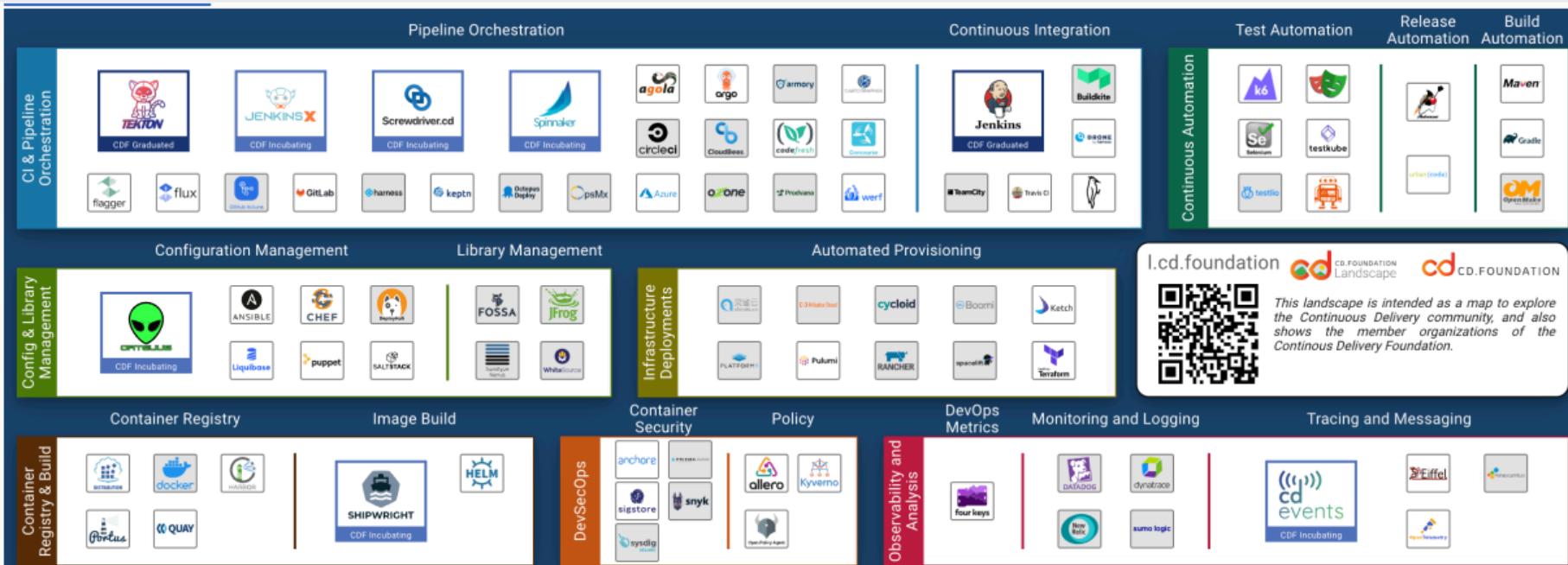


# Internal Development Platform

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



# A Plethora of Tools



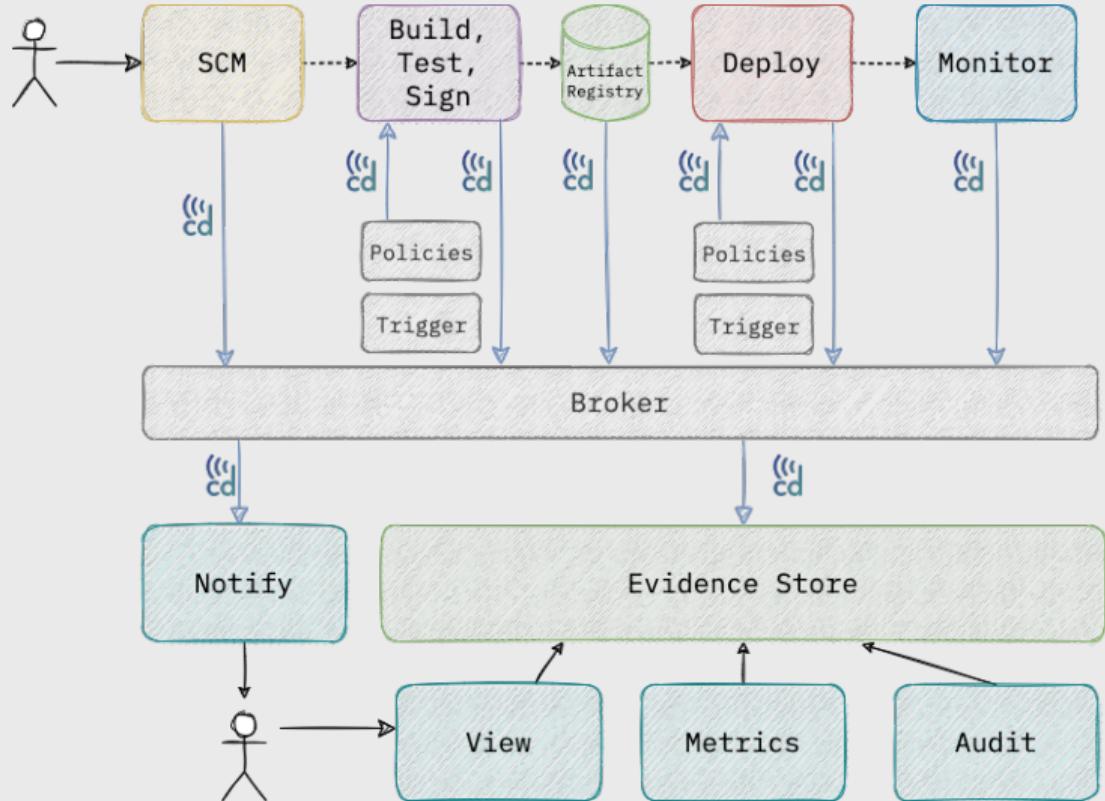


A common specification  
for Continuous Delivery  
Events



# Interoperability

- › Less "Glue Code"
- › More focus on DevEx and DevOps metrics



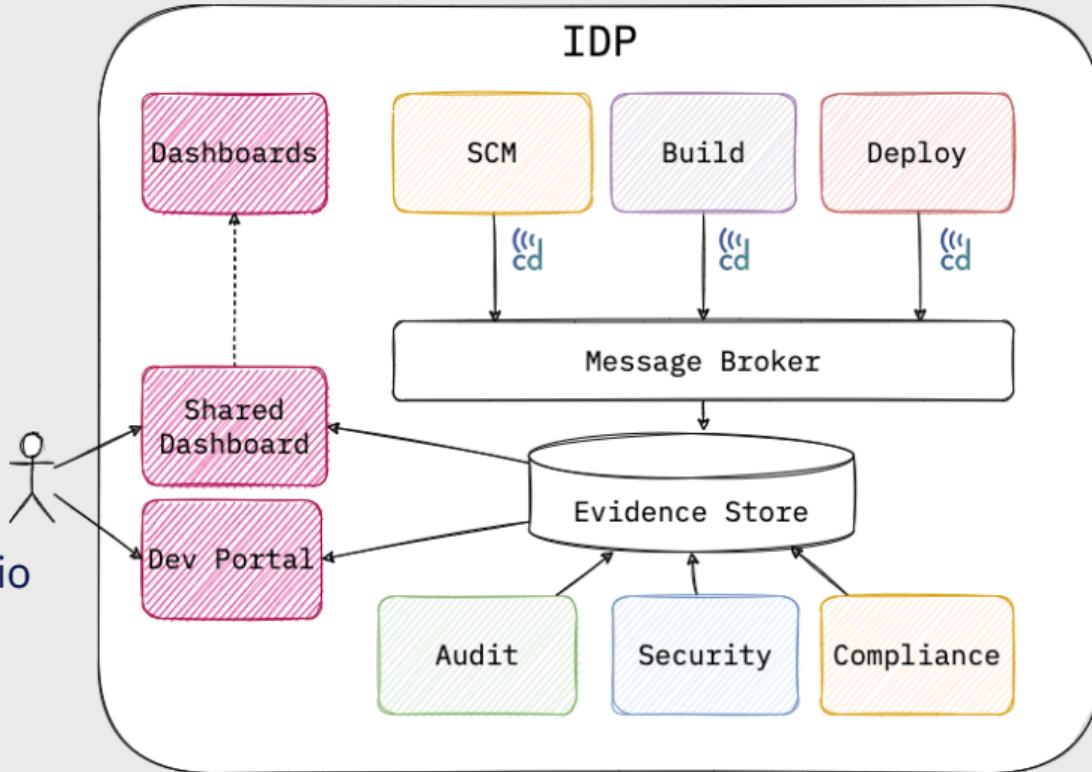
# Evidence Store Supply Chain Security

- › 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



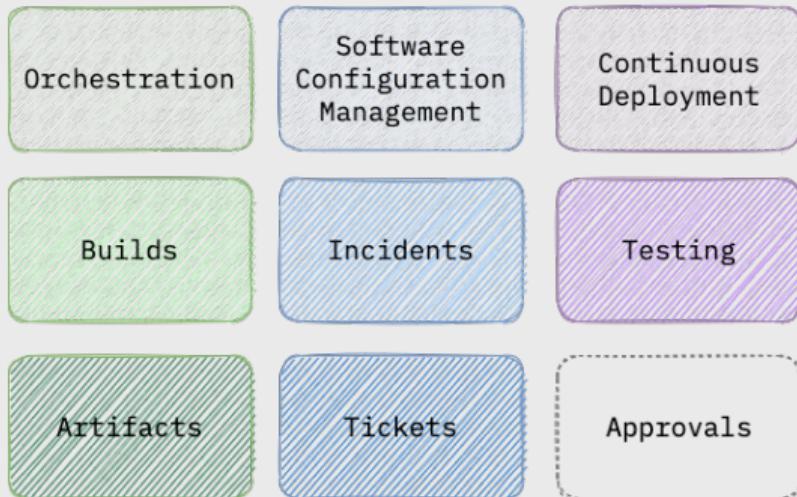
# IDP and DevEx

- › Add/swap tools
- › Consistent Data
- › Single Dashboard
- › Promotes Collaboration through Open Source
- › CDEvents and <https://cnoe.io>



# Components

## Specification:



## Bindings:



## SDKs:



# Community

- DevOps Engineers  
Share your Interoperability pain-points
- Tool Maintainer  
Adopt CDEvents for your tool
- DevOps Vendor  
Make it easier for users to integrate  
your offering by supporting CDEvents
- Love DevOps & Interoperability  
Join us and contribute to CDEvents!





# Tools Adoption

Photo by Clay Banks, CC0



# Overview

## CDF Projects:

- Jenkins
- Spinnaker
- Tekton (Experimental)

## CNCF Projects:

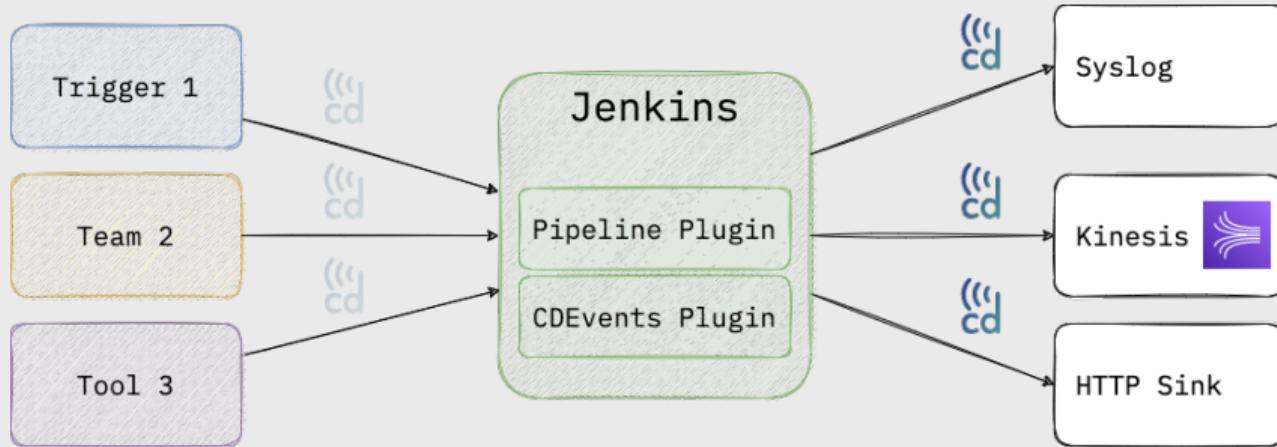
- Testkube
- Flux
- Argo CD (POC through Notifications)
- Harbour (POC)

## Other Projects:

- Updatecli
- JReleaser
- Guah.sh (OpenSSF)



# All Together



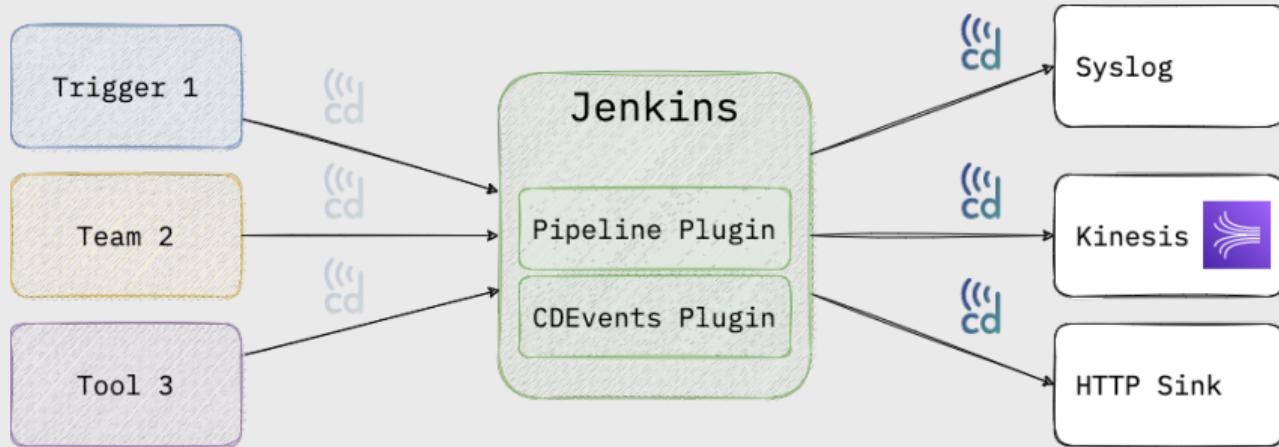
## Next Steps

Support CDEvents as triggers as well.

## CDEvents Core Events

**PipelineRun** Queued, Started, Finished  
**TaskRun** Started, Finished

# Successes and Challenges



## Next Steps

Support CDEvents as triggers as well.

## CDEvents Core Events

**PipelineRun** Queued, Started, Finished  
**TaskRun** Started, Finished



# Collaborations

- CDF, SIG Best Practices: Reference Architecture
- CNCF TAG App Delivery
- Value Stream Management Interoperability (VSMI) TC
- CDF, Workshop working group



# What's New

# ((c)) cdevents 0.4

## Linked Events:

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

## Ticket Events:

- › Inception to Deployment
- › E2E Metrics
- › Ticket Based Automation
- › Interoperability

## Software Supply Chain Security

- › Artifact Signed event
- › Build & Deployment Automation

## Quality of life improvements

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



# Roadmap



# CDEvents Roadmap v0.5 and beyond

## Supply Chain Security

- SBOM,
- Provenance
- Signed Events

## New features

- Links,
- Workflow IDs
- Compositions
- Releases

## Software & Architecture

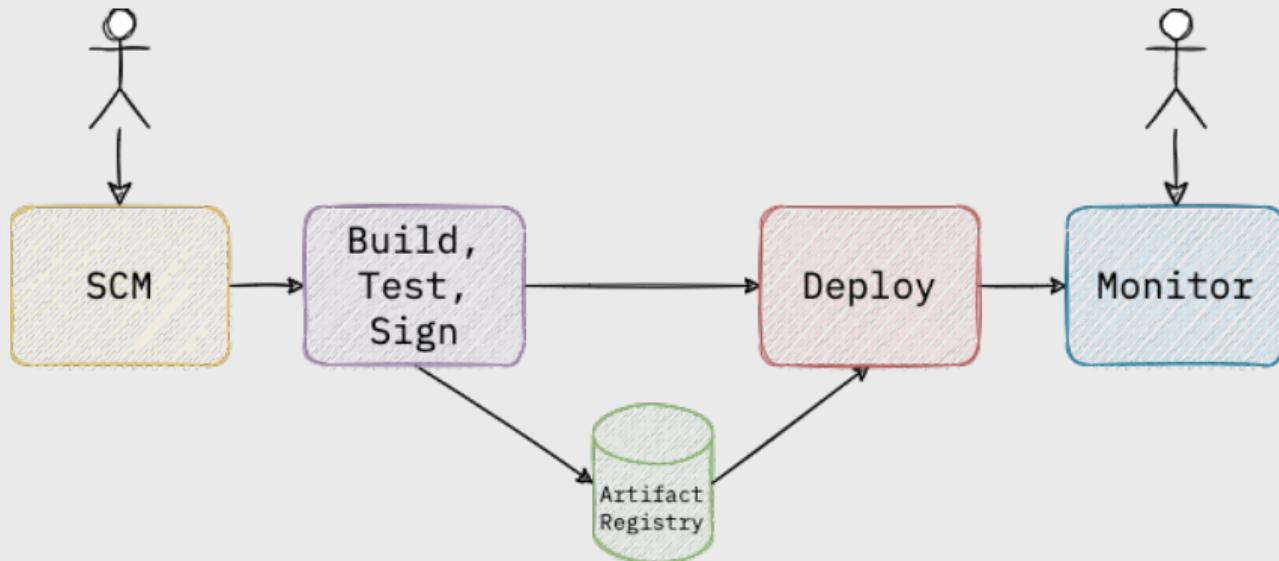
- SDKs (JS, Rust)
- Adapters
- Proof of concept
- Broker, Policy

## Documentation:

- Reference Architecture
- Example events
- Example implementations



# Conclusions



# Thank You!



# References

- › [cdevents.dev](https://cdevents.dev), [github.com/cdevents](https://github.com/cdevents)
- › [github.com/cdevents/spec/blob/main/CDEvents\\_Whitepaper.pdf](https://github.com/cdevents/spec/blob/main/CDEvents_Whitepaper.pdf)
- › [github.com/jenkinsci/cdevents-plugin](https://github.com/jenkinsci/cdevents-plugin)
- › [github.com/spinnaker/governance/blob/master/rfc/cdevents-spinnaker.md](https://github.com/spinnaker/governance/blob/master/rfc/cdevents-spinnaker.md)
- › [github.com/afrittoli/cdeventer](https://github.com/afrittoli/cdeventer)
- › [github.com/cncf/tag-app-delivery](https://github.com/cncf/tag-app-delivery)
- › VSMI TC @ [www.oasis-open.org/committees](http://www.oasis-open.org/committees)

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