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CloudNativeCon
Europe 2021
Virtual
Forward Together »

GitOps Working Group Update

Cornelia Davis, Weaveworks @cdavisafc
Chris Sanders, Microsoft

What is GitOps?

Store code/config
Desired State

Automation

Runtime Environment
Actual State

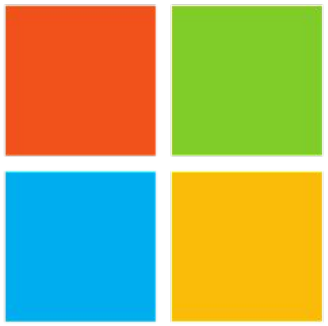
* Kubernetes is just one example of a runtime environment.

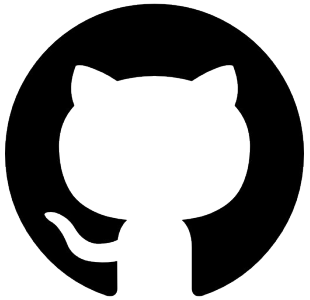
Interface to operations

Convergent

Introducing the GitOps Working Group

GitOps WG Announced!!!





Open to All

The **GitOps Working Group's goal**
is to provide
companies and **individuals**
with the
knowledge, skills and **competency**
to implement GitOps
tooling and **methodologies**
which simplify the
operation and **management**
of
infrastructure and cloud native **applications**.

Educate on **principles** and **effective use** and promote **tool interoperability**

CLOUD NATIVE
COMPUTING FOUNDATION

The Foundation's mission is to make cloud native computing ubiquitous.

The Application Delivery SIG focuses on delivering cloud native applications which involves multiple phases including building, deploying, managing, and operating.

https://github.com/cncf/sig-app-delivery

The focus of the GitOps Working Group is to clearly define a vendor-neutral, principle-led meaning of GitOps. This will establish a foundation for interoperability between tools, conformance and certification.

Co-chairs:

- Dan Garfield, Codefresh @todaywasawesome
- Leo Murrillo, Cloud-native Architects @murillodigital
- Scott Rigby, Weaveworks @r6by

Backlog:

- GitOps Con - Zero day Kubecon event
- GitOps Priniciples
- Website
- Samples - i.e. https://github.com/cncf/podtato-head

Future:

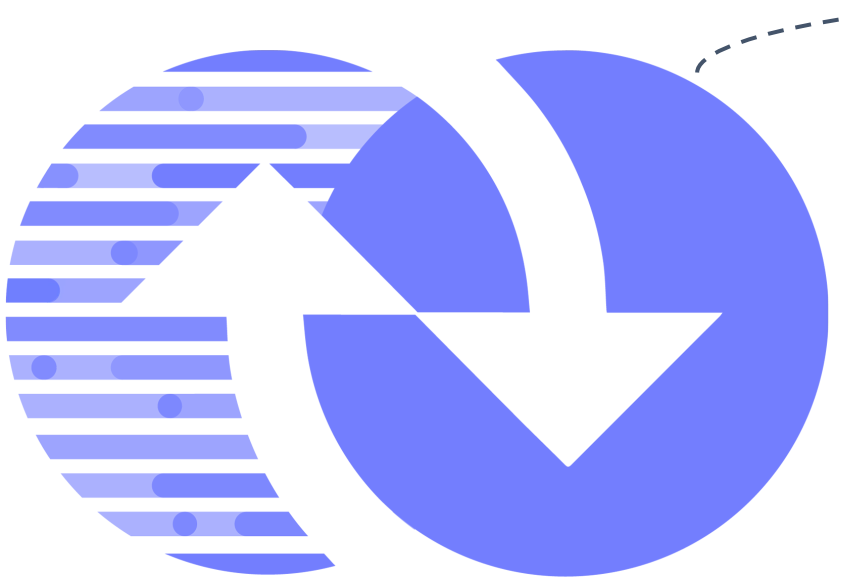
- GitOps Landscape
- Certifications

https://github.com/gitops-working-group/gitops-working-group

Lasting programs, documents and code will live within the Open GitOps project.

Currently CNCF sandbox!

Creates and cares for



GitOps WG

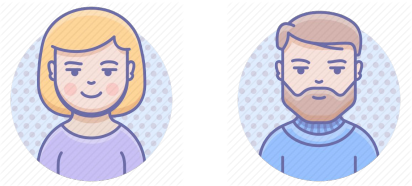
OpenGitOps

GitOps Definition

- Proposed in PR #48
- Glossary (Desired State, State Store, Reconciliation)
- Principles
- Rationale

GitOps Principles

#4



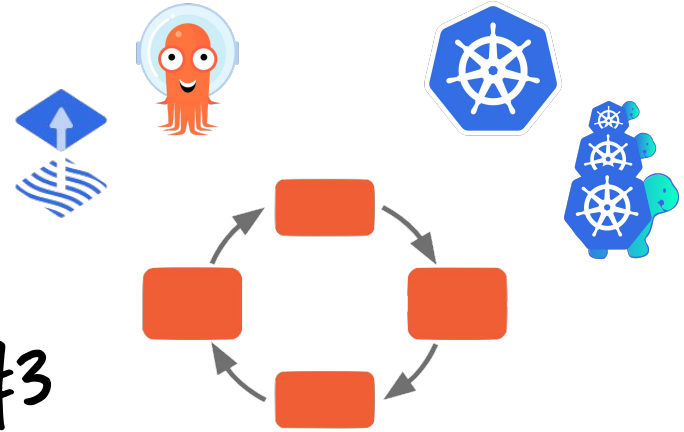
#1

desired state expressed **declaratively**

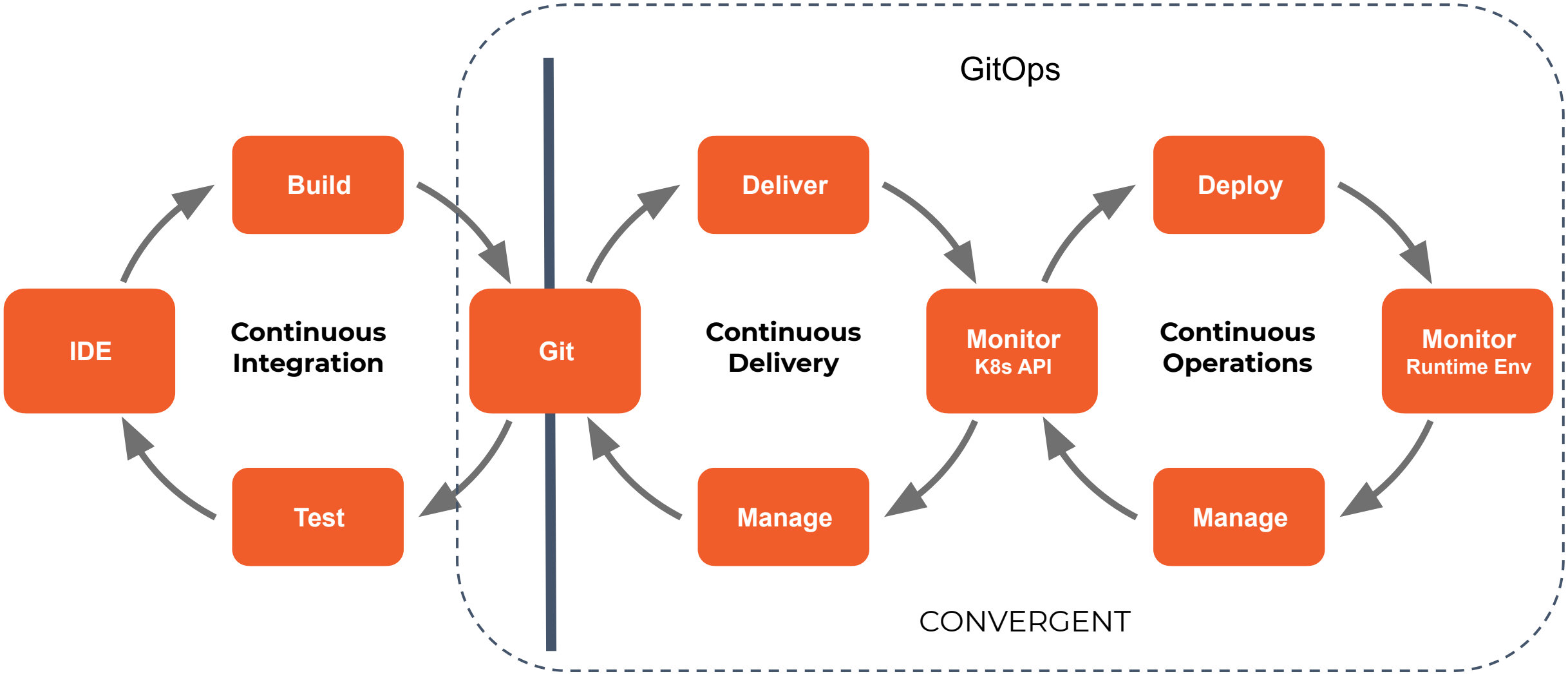
#2

stored in a way that supports **versioning**, **immutability** of versions, and retains a complete **version history**

#3



Software agents continuously, and automatically, compare a system's Actual State to its Desired State


GitOps
Build
Deliver
Deploy
IDE
Continuous Integration
Git
Continuous Delivery
Monitor K8s API
Continuous Operations
Monitor Runtime Env
Test
Manage
Manage
CONVERGENT

Please Join Us!

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Repo: github.com/gitops-working-group/gitops-working-group

Monthly meeting: 2nd Thursday at 18:00 GMT

https://github.com/gitops-working-group/gitops-working-group

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Thank you!