09 MARCH 2023

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GitOps: The Platform Engineering Perspective

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Retail Edge

Large Multi-Cluster Deployments

30+ Application Teams deploying across 1000+ Clusters regionally

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Financial Services

Compliance out of the box

Choice is made based on compliance, security and environmental needs

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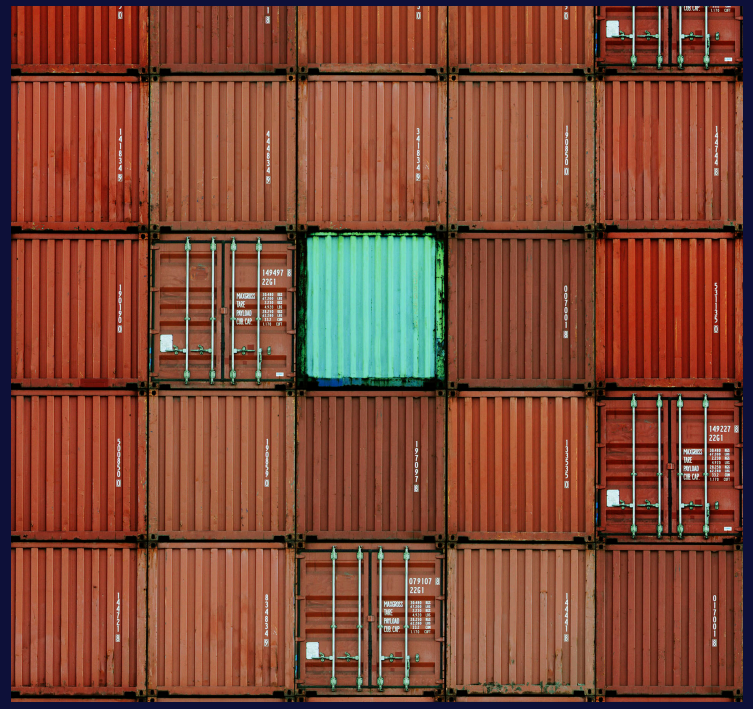
Platform Engineering

Building the environment in which code is executed



Removing overhead so developers can focus on code

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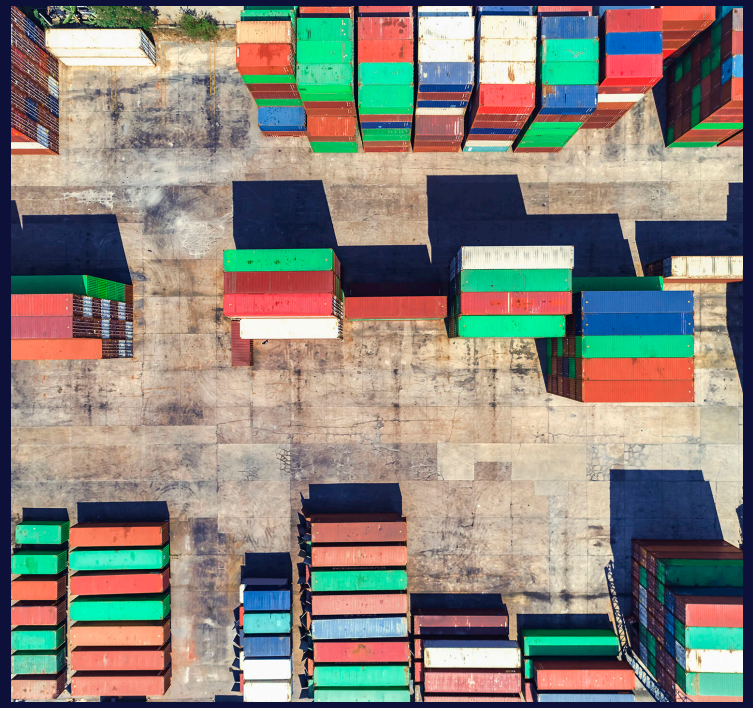
GitOps Principles

What makes something a GitOps solution?



Devops is a culture, GitOps is the application

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Declarative

Describes the desired system state, not how it is implemented

```
apiVersion: policies.kubewarden.io/v1
kind: ClusterAdmissionPolicy
metadata:
name: privileged-pods
spec:
module: registry://ghcr.io/kubewarden/policies/pod-privileged:v0.2.2
rules:
- apiGroups: [""]
apiVersions: ["v1"]
resources: ["pods"]
operations:
- CREATE
- UPDATE
mutating: false
```


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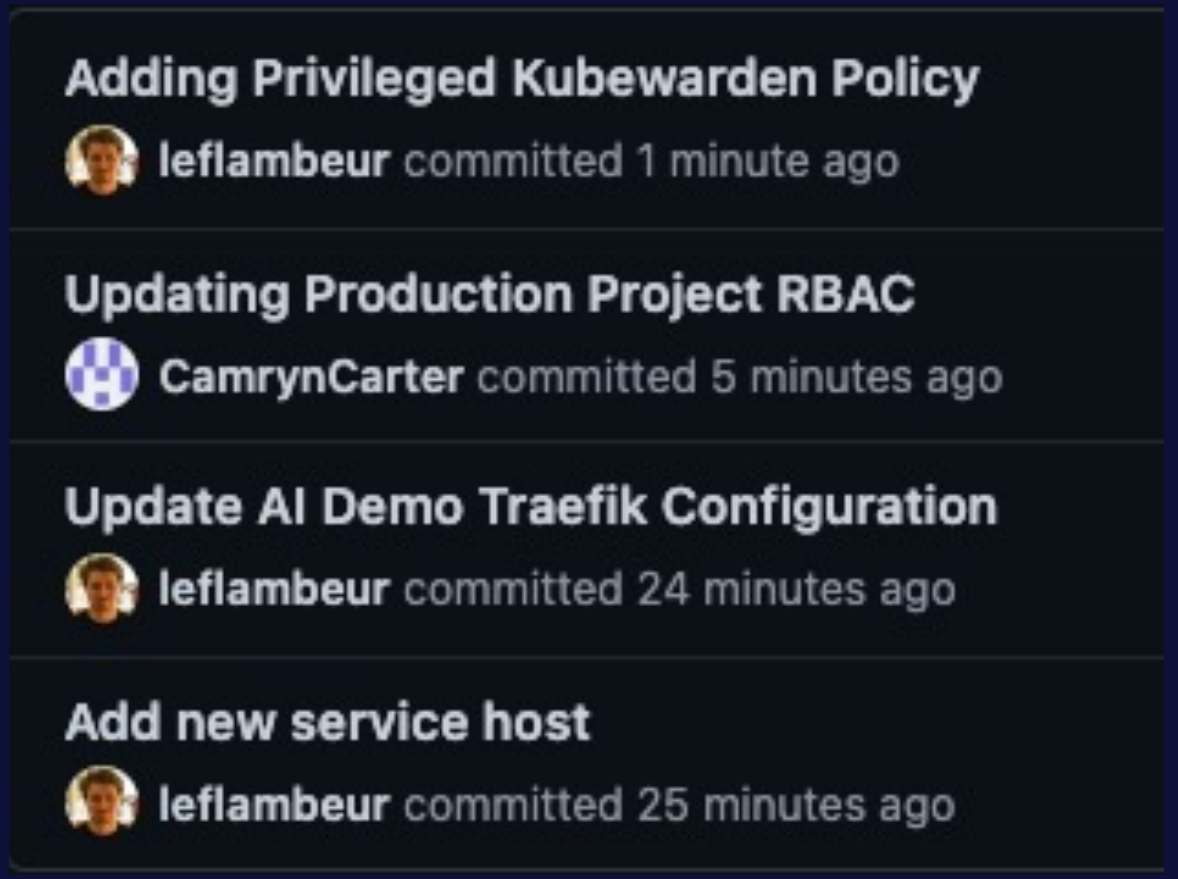
Versioned and Immutable

Store immutable versions of declarations with access control and auditing of changes



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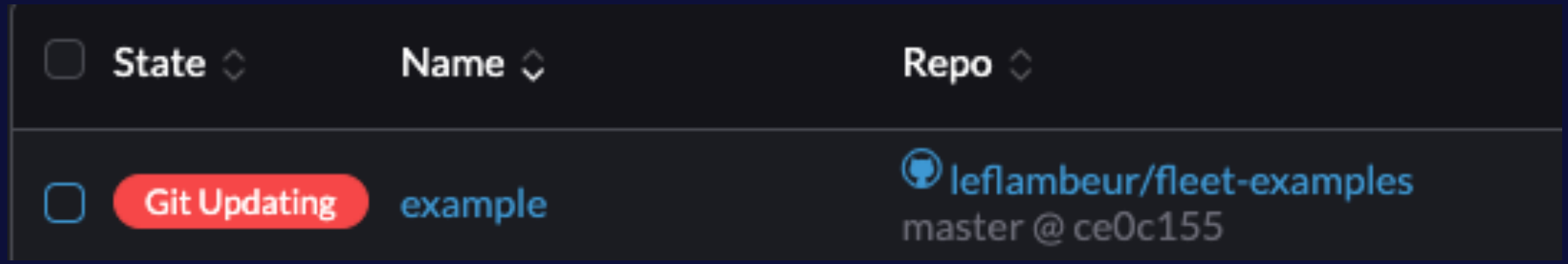
Pulled Automatically

Agent Workloads are configured to target source control, applying any detected configuration



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Continuously Reconciled

Changes are made with Pull Requests and configuration drift is then reconciled

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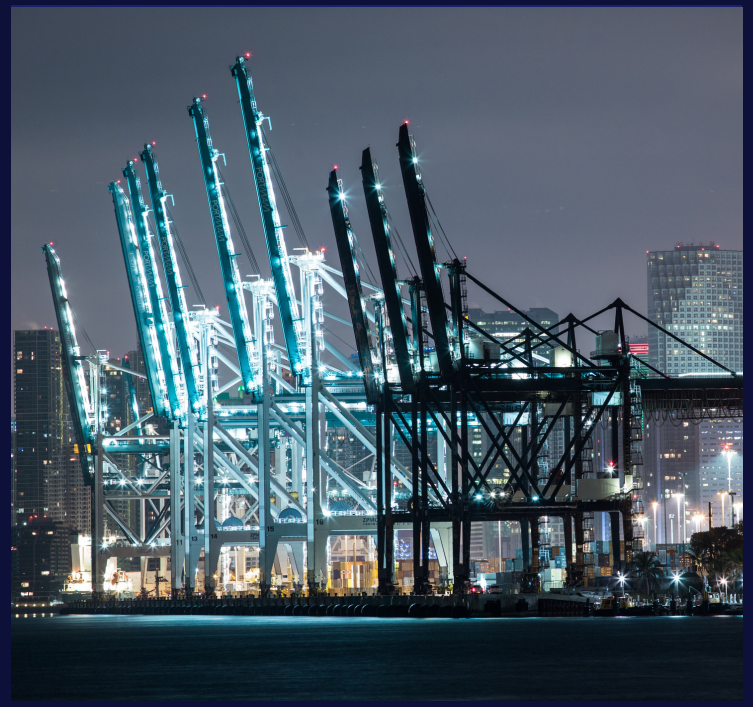
GitOps: Platform Engineering Made Easy

Easy to adopt, vendor-neutral



Consolidate best practice and keep state declaration simple

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GitOps: Platform Engineering at Scale

Build, design and architect for all environments

Apply state from one cluster to many across all your environments

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