

ArgoCD in Prusa Research

Cloud Native Prague #1 3.4.2023

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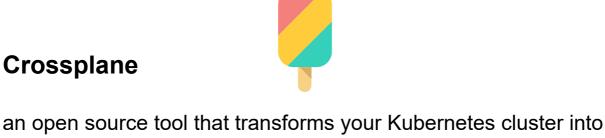
ArgoCD



a declarative, GitOps continuous delivery tool for Kubernetes

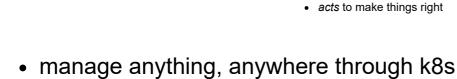
- · deploy to multiple clusters web UI
- core concept Application
 - o a group of Kubernetes resources (Kustomize, Helm, ...)
 - itself is a Custom Resource Definition (CRD) => App of Apps pattern

Crossplane

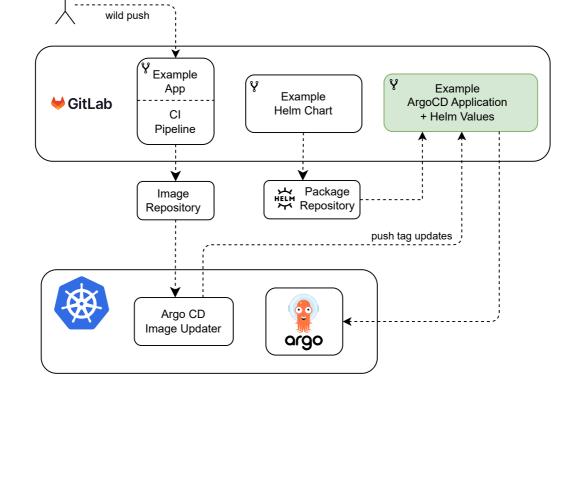


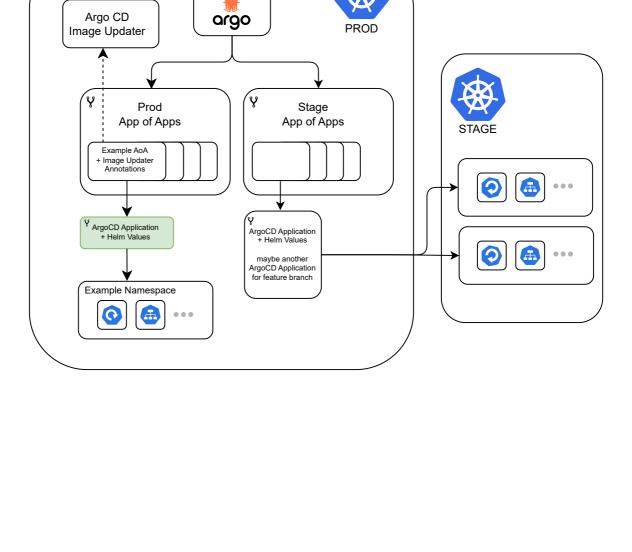
a universal control plane A control plane manages the lifecycle of resources

> checks that the resources exist reports if not in the intended state



create custom APIs





bucket, SA and SA policy (workload identity)

manual vs. automatic synchronization

DEMO

o database, user and grant

app of apps

web UI

finalizers

crossplane



the real story

Image Updater

- => apps with multiple images get tags removed randomly
 - log level not working



THE UPDATE IS

ArgoCD - other features

- login using Gitlab
 - RBAC based on Gitlab groups
 - notifications Slack, Grafana, email, ...

• ApplicationSet - generate Applications from a template

