Argo CD

By

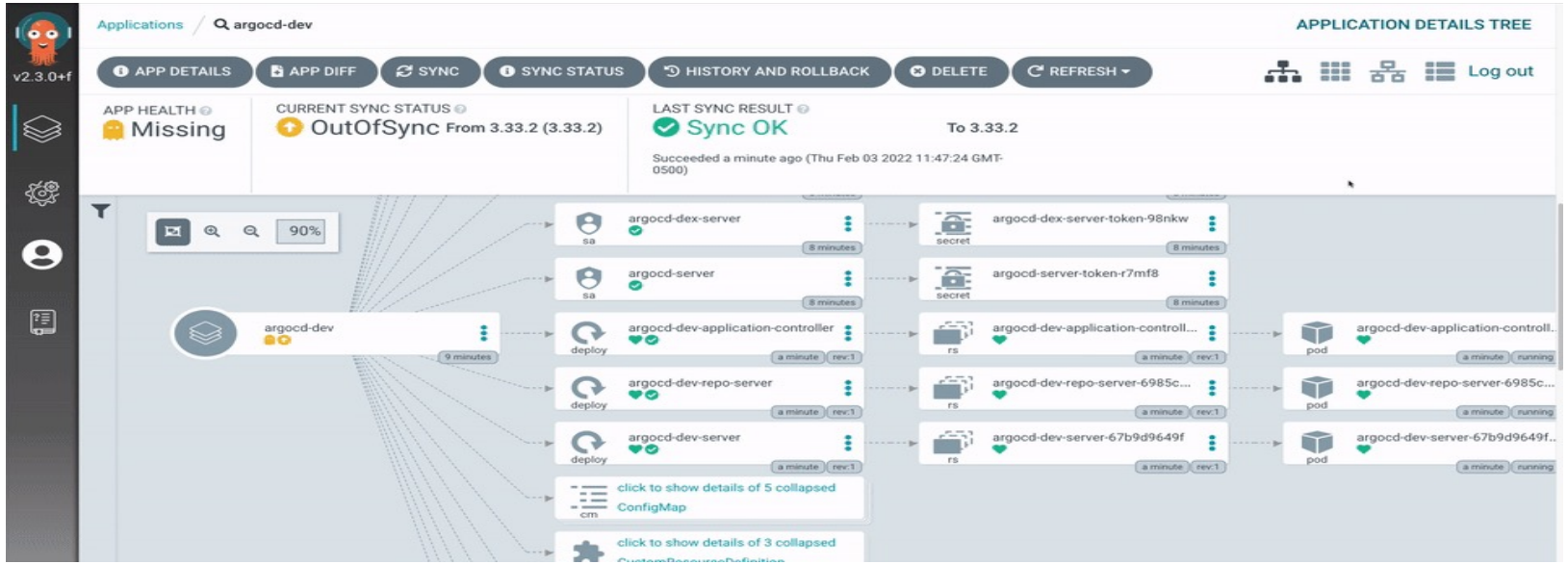
Prince Khanna

Agenda

- What is ArgoCD
- Why ArgoCD?
- How it works?
- Demo
- Q&A

What is ArgoCD

Argo CD is a declarative, GitOps continuous delivery tool for Kubernetes.



Why ArgoCD?

Application definitions, configurations, and environments should be declarative and version controlled. Application deployment and lifecycle management should be automated, auditable, and easy to understand.

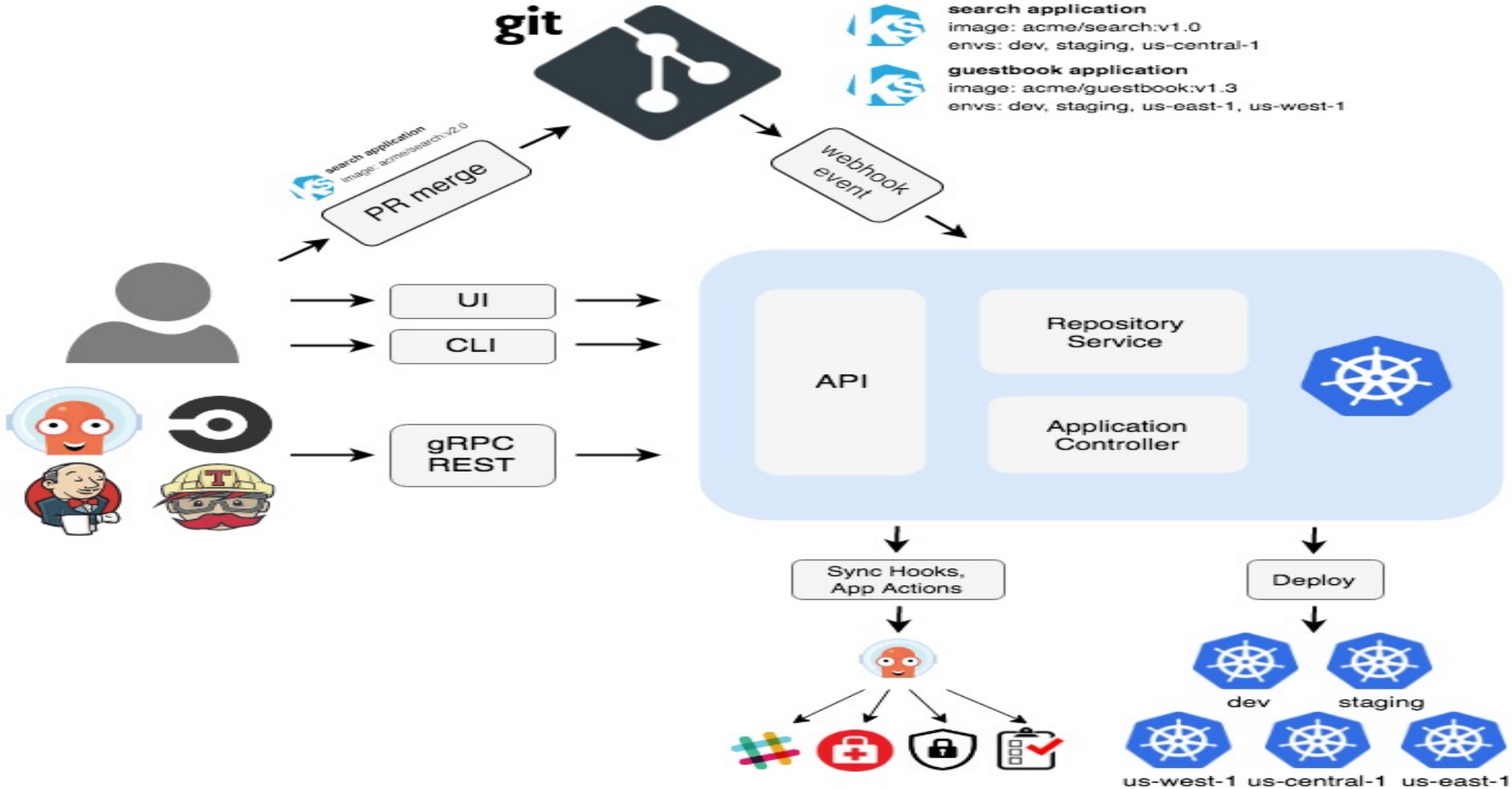
How it Works?

Argo CD follows the **GitOps** pattern of using Git repositories as the source of truth for defining the desired application state. Kubernetes manifests can be specified in several ways:

- helm charts
- Plain directory of YAML/json manifests

Any custom config management tool configured as a config management plugin

Argo CD automates the deployment of the desired application states in the specified target environments. Application deployments can track updates to branches, tags, or pinned to a specific version of manifests at a Git commit.


git
search application
image: acme/search:v1.0
envs: dev, staging, us-central-1
guestbook application
image: acme/guestbook:v1.3
envs: dev, staging, us-east-1, us-west-1
search application
image: acme/search:v2.0
PR merge
webhook event
UI
CLI
gRPC
REST
API
Repository Service
Application Controller
Sync Hooks, App Actions
Deploy
dev
staging
us-west-1
us-central-1
us-east-1

Demo

Q&A

Reference

- https://argo-cd.readthedocs.io/en/stable/