

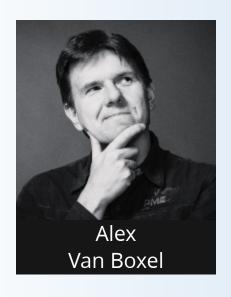
Global Tenant Management using Argo



Almost 30 years in the sector

Mostly as Software Engineer

Web - 3D - Middleware - Mobile - Big Data



More recent as Architect

Data - SRE - Infrastructure

Community

Apache Beam contributor

OpenTelemetry Collector contributor

Collibra

Principal Systems Architect











tenant

environments







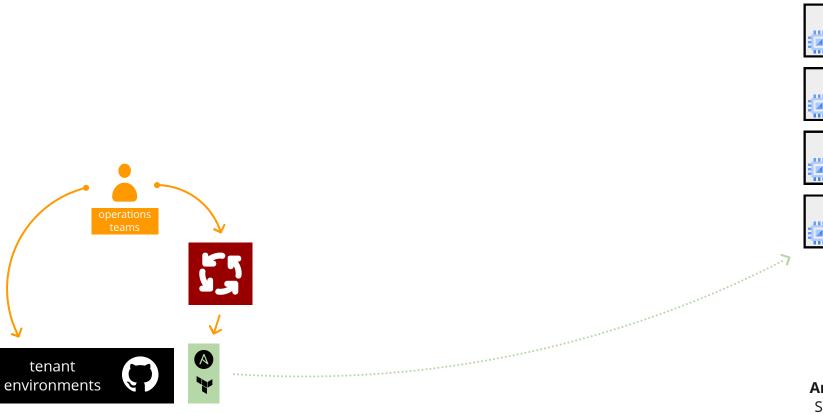














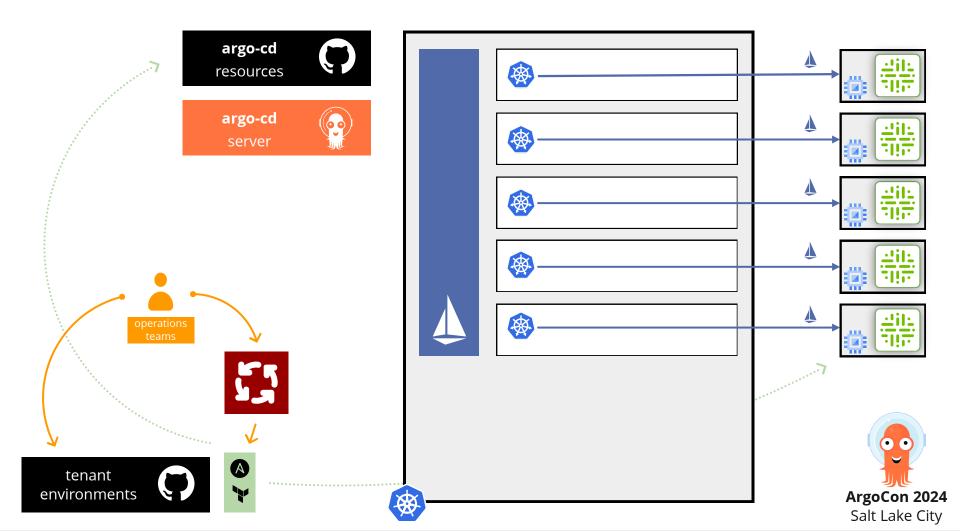


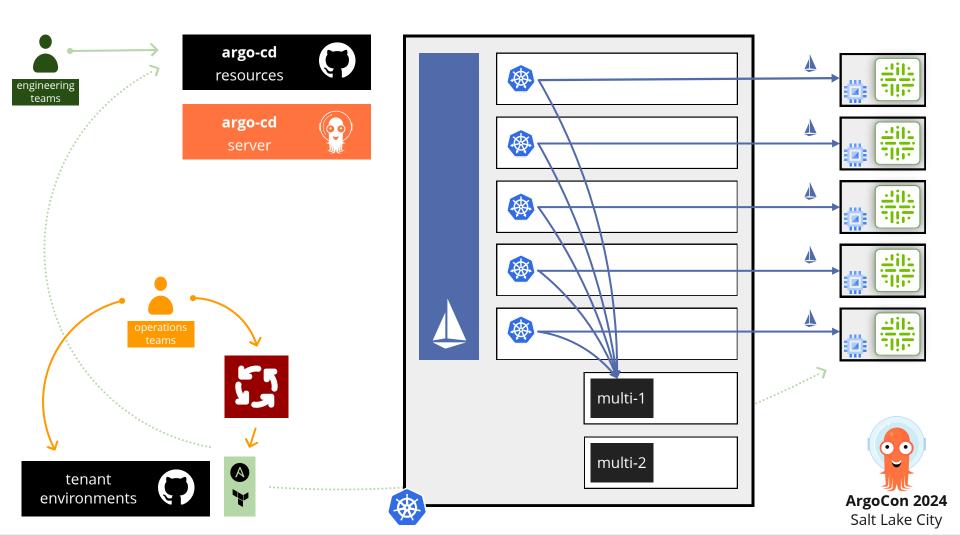










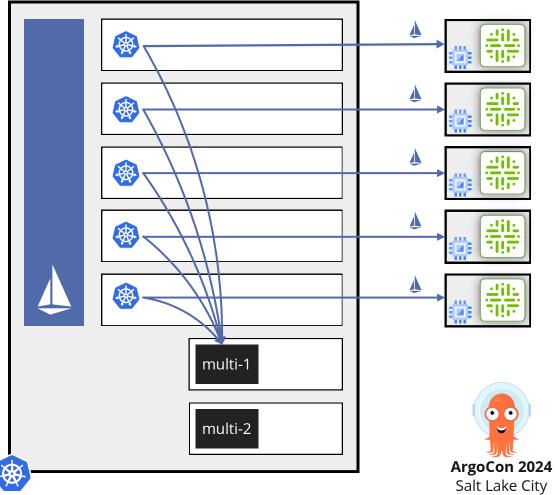


Design Goal

- 1. **Development Production parity** (12 factor X). Have the same procedures and API.
- 2. Introduce Tenant Environment **Lifecycle management** (12 factor XII) for creating, updating and decommissioning tenants.
- 3. Use **off the shelf** software to provide a UI for troubleshooting.

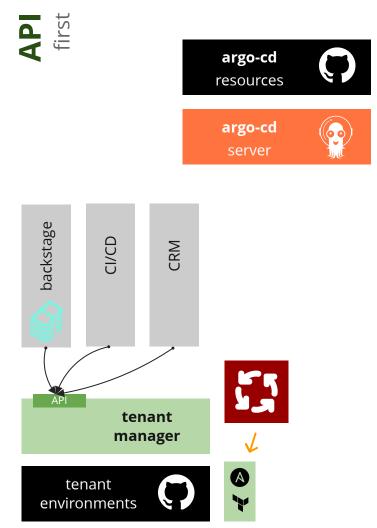


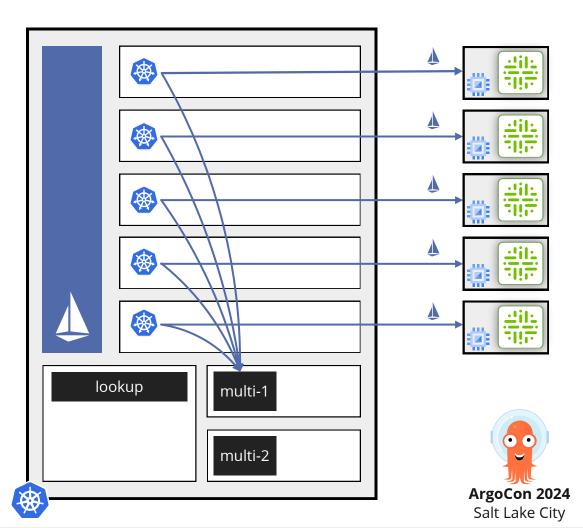


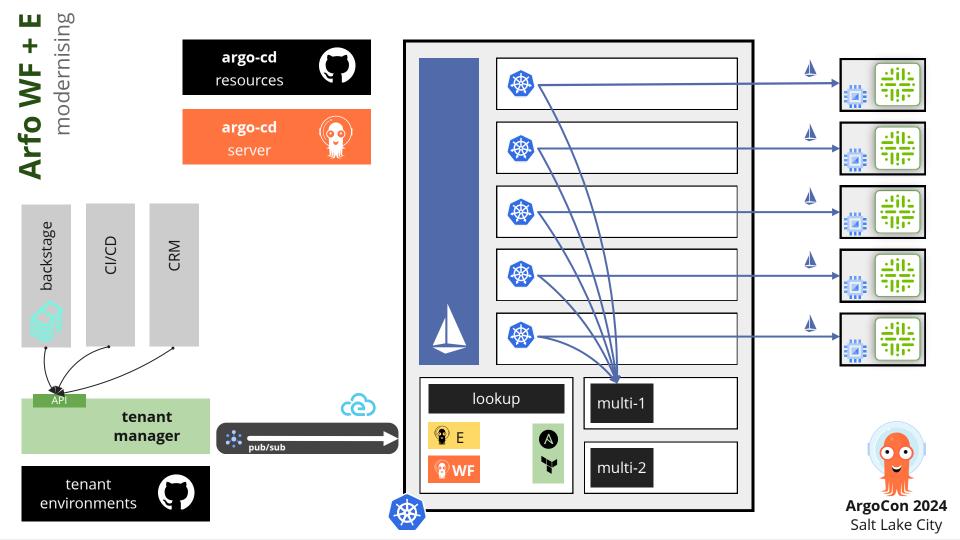








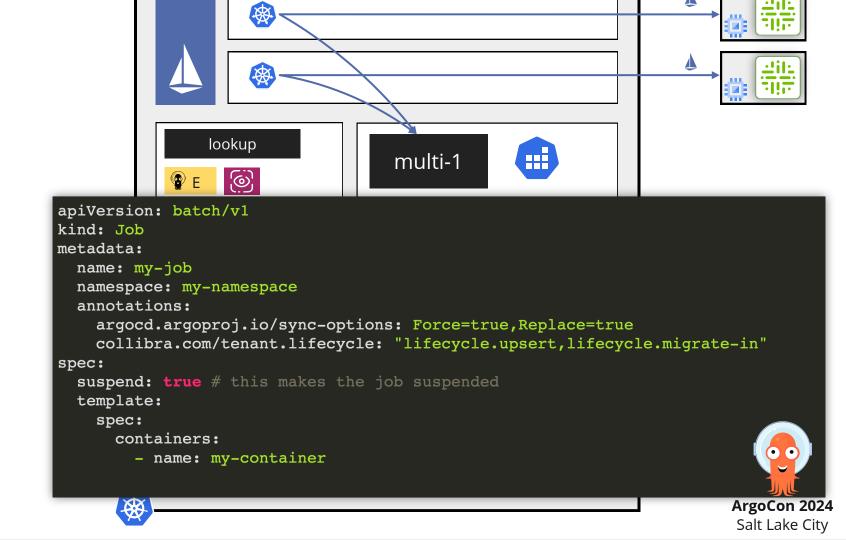




Salt Lake City

job kubernetes resource spec

reusing



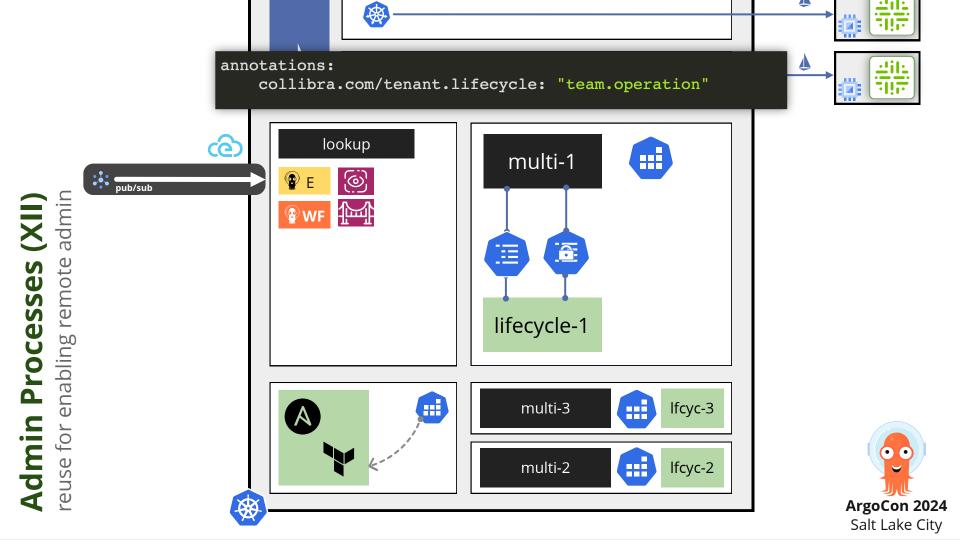
custom

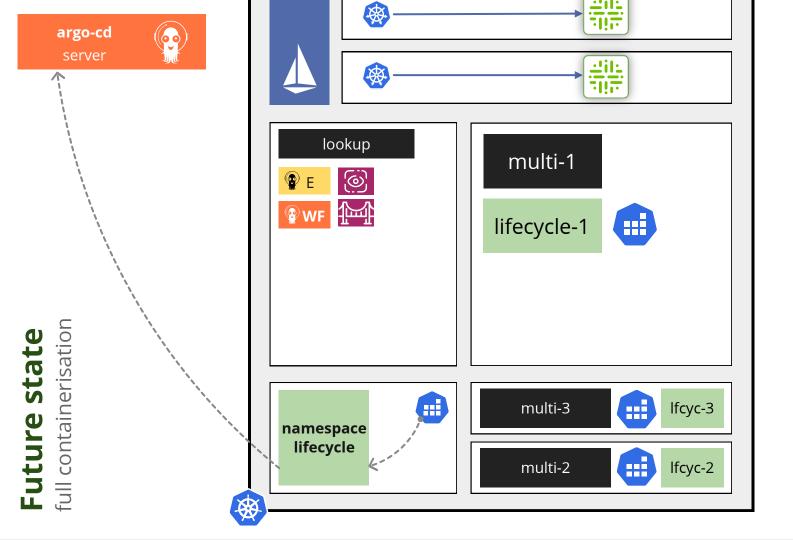
can introduce it anytime auto discovery, teams Discovery

expands the Argo workflow Discovery

Bridge a bridge per discovery job spec

Bridge bridge in wf namespace, pod in job spec ns







Result

- We have an API to manage out thousants of tenant environments (same prod/dev)
- Using Argo Events and Workflow, only job templates are exposed to teams for managing lifecycles, giving them enough control
- Argo CD for a single environment is managed by the Argo CD's API
- Argo CD gitops flows is still exposed for teams developing multi tenant services

