Introduction



SIG Syn

Project Syn! Syn?

Syn is a Swedish word and translates to "vision"

Project Syn is a pre-integrated set of tools to provision, update, backup, observe and react/alert production applications on Kubernetes and in the cloud. It supports DevOps through full self-service and automation using containers, Kubernetes and GitOps.

Why?

Managing a fleet of Kubernetes clusters is hard - let's automate that!

Multi-Cluster and Multi-Tenant Management

Keeping track of a fleet of Kubernetes clusters, Multi-Tenant aware.



Full GitOps Operations

GitOps automation with Argo CD and Git repo management.

Tooling Bootstrapping

Getting a cluster part of Syn.



Configuration Management

Customized manifests per cluster and tenant.

Reusable Components

Open Source Commodore Components.



Default Toolset

Set of composed Commodore Components.

Automatically Maintained Components

Component maintenance automation thanks to Renovate.



Secret Management

Deep integration into Vault with Kapitan.

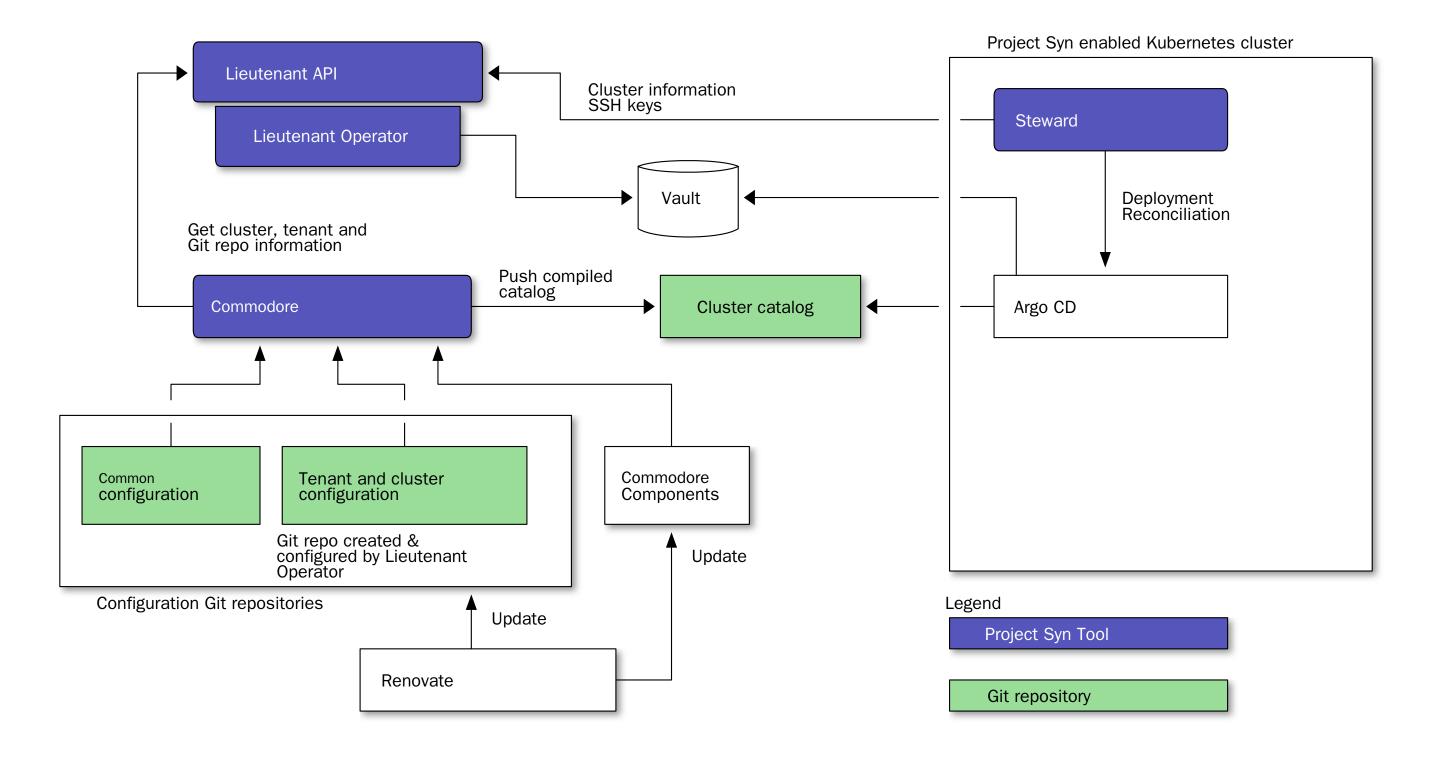


Service Provisioning

Application service provisioning fully integrated with Crossplane.



Architecture





Core Project Syn Tools

Lieutenant API

REST API to easily work with cluster and tenant objects.

Lieutenant Operator

Automation of cluster and tenant handling. Git repo management.

Commodore

Cluster catalog compilation engine using Kapitan.

Steward

In-cluster agent.



Third-party Tooling

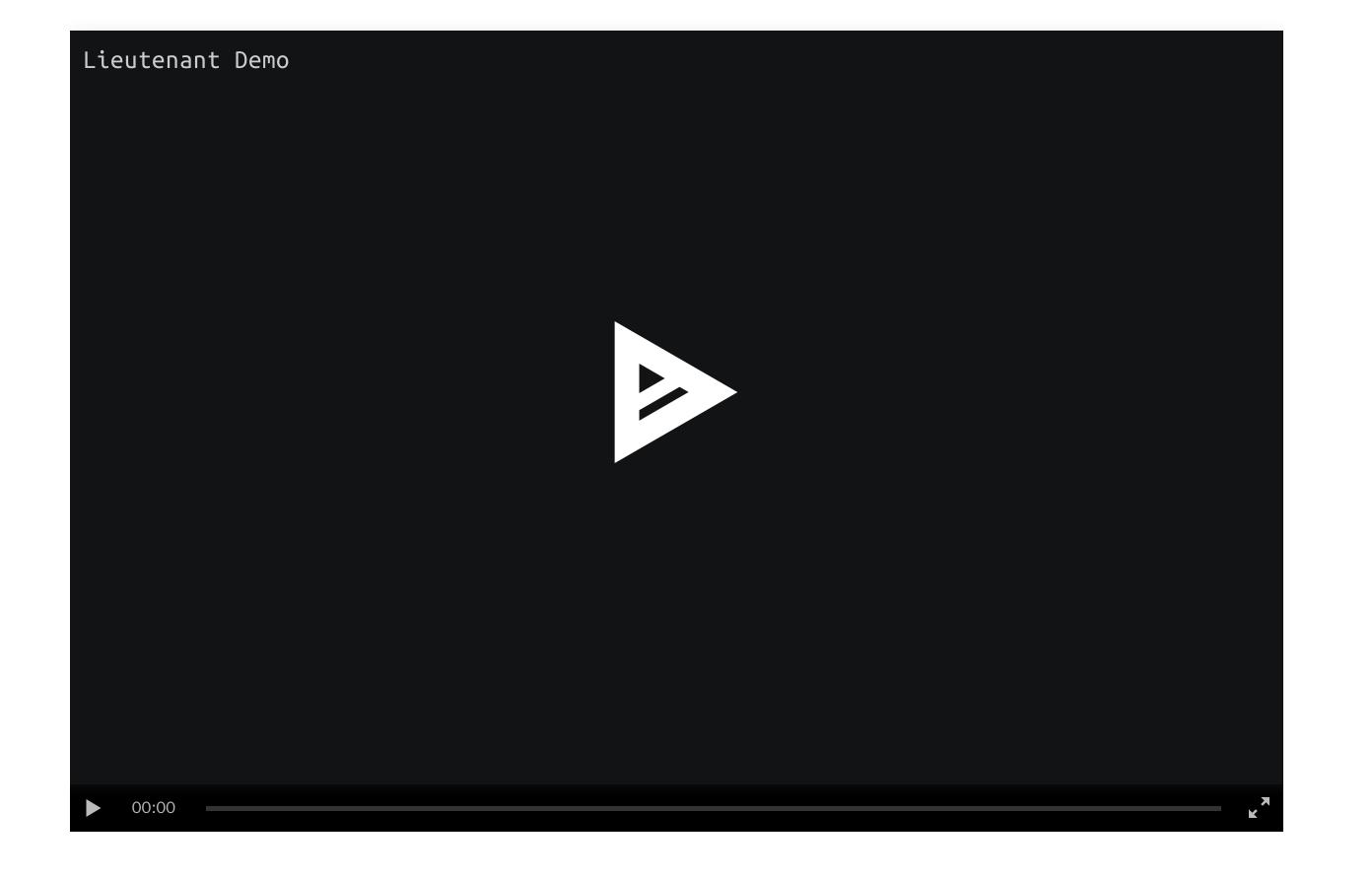
Important tools - integral part of Project Syn:

- Argo CD
- HashiCorp Vault
- Kapitan
- Renovate
- Crossplane
- GitLab

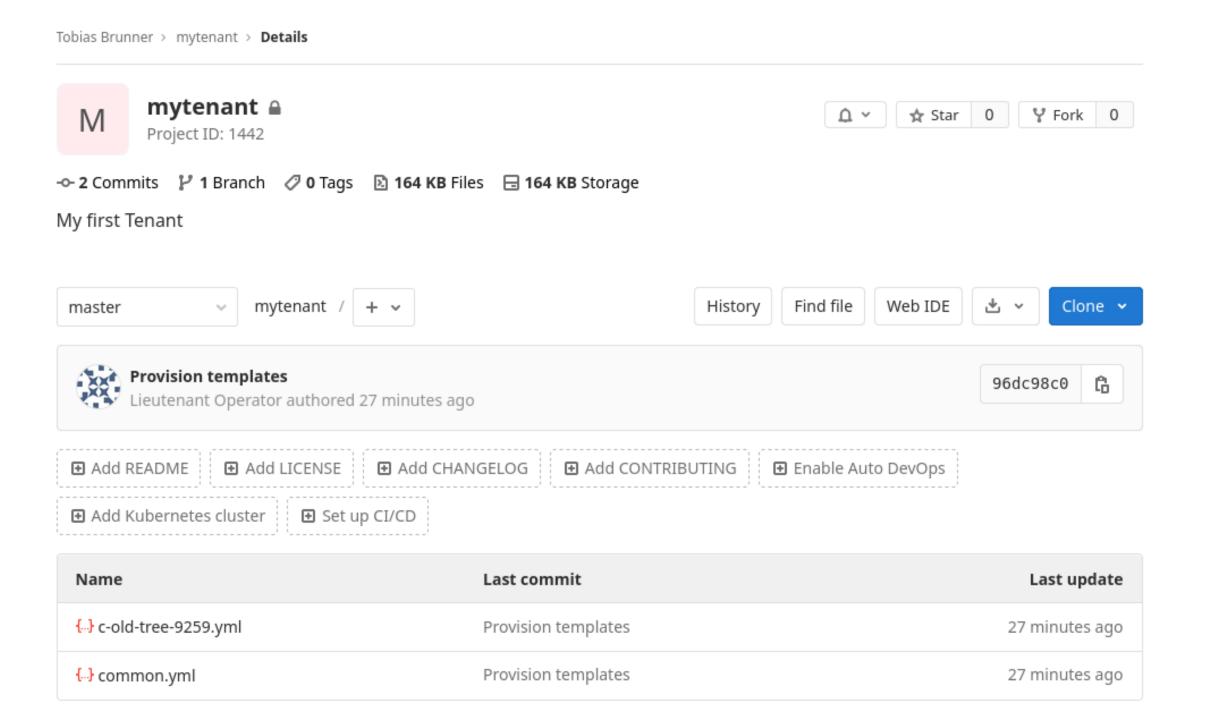


Demo

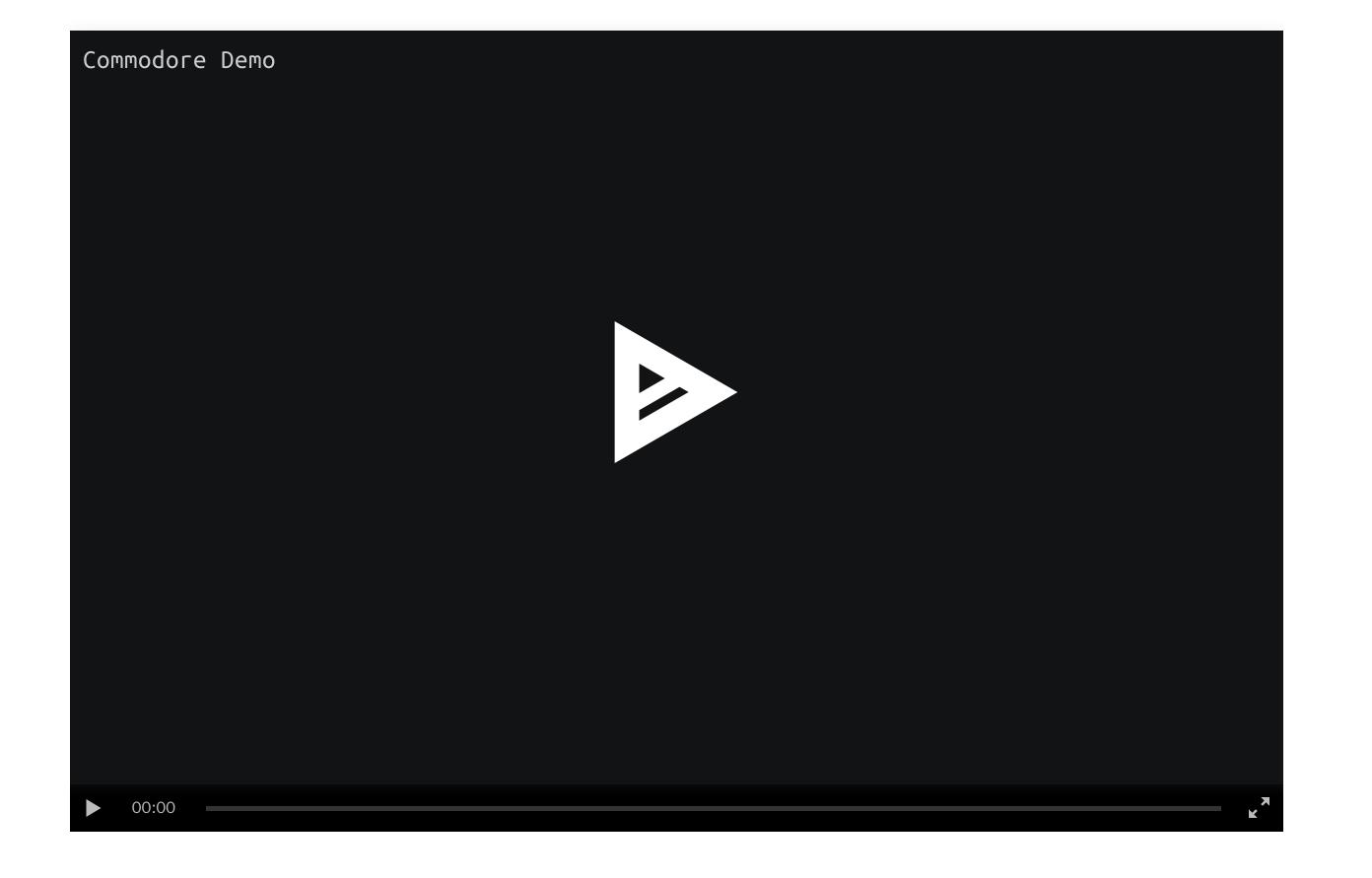
The demo is based on the Getting Started guide.



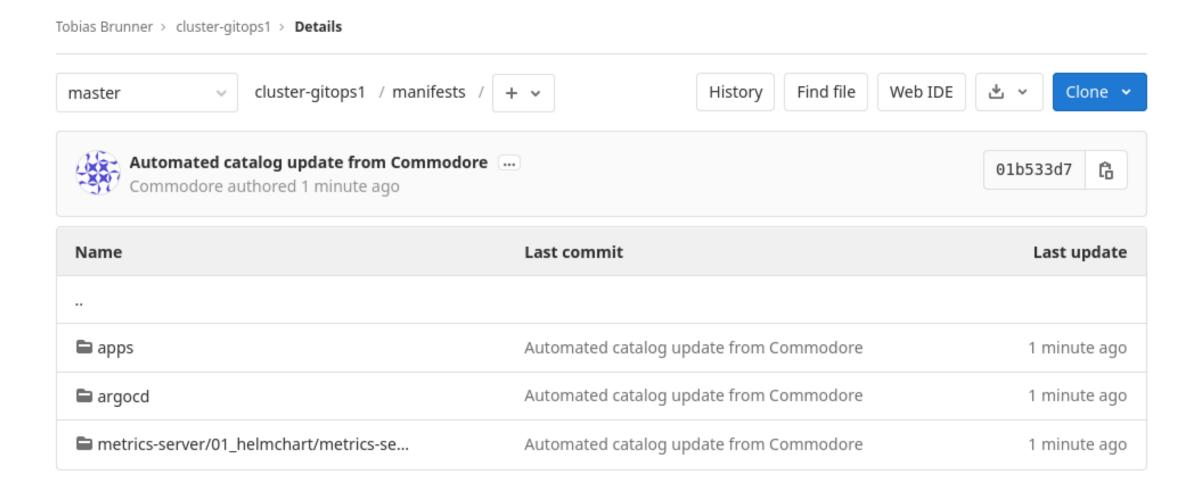
Lieutenant - Tenant Repo



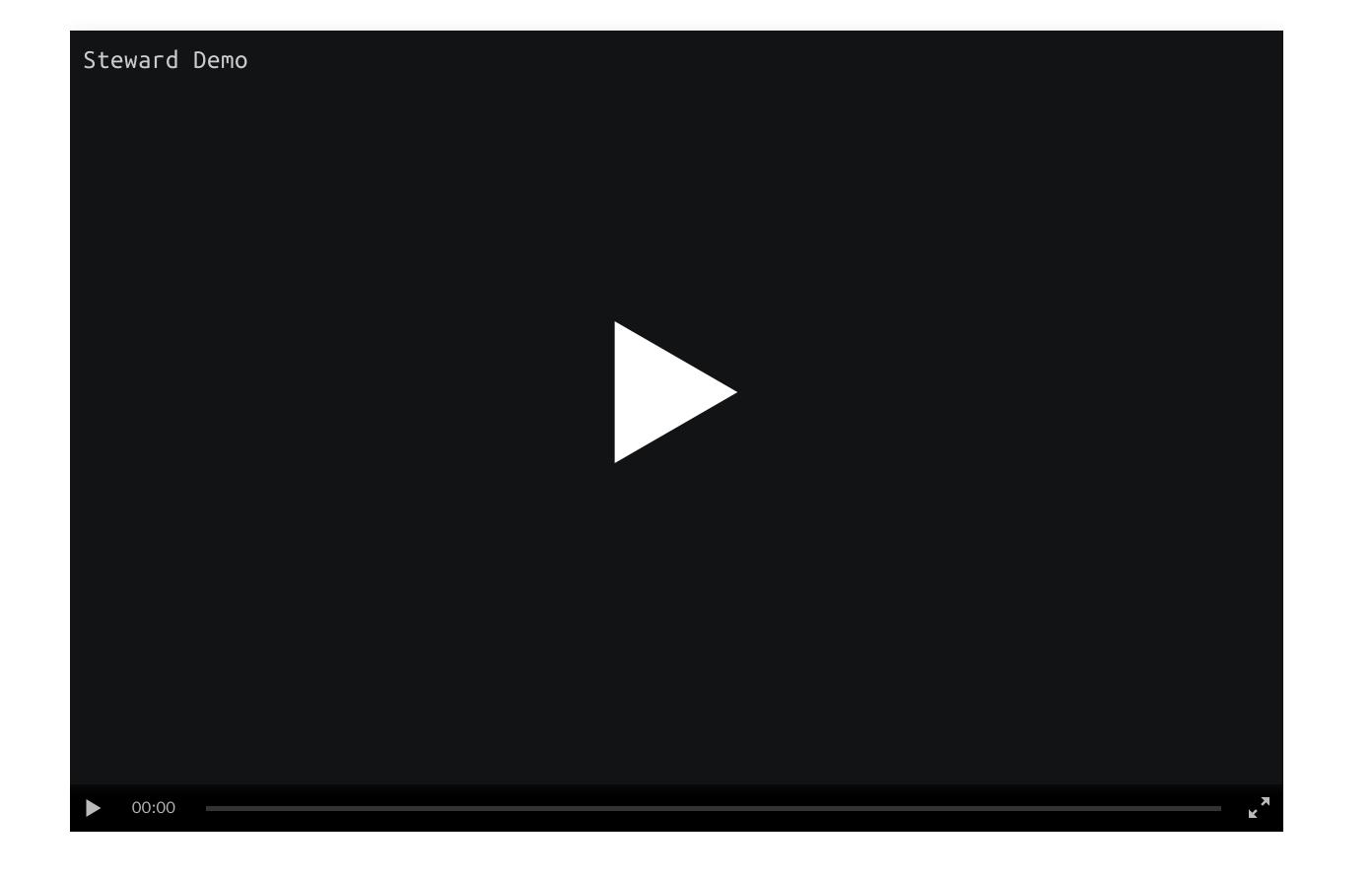




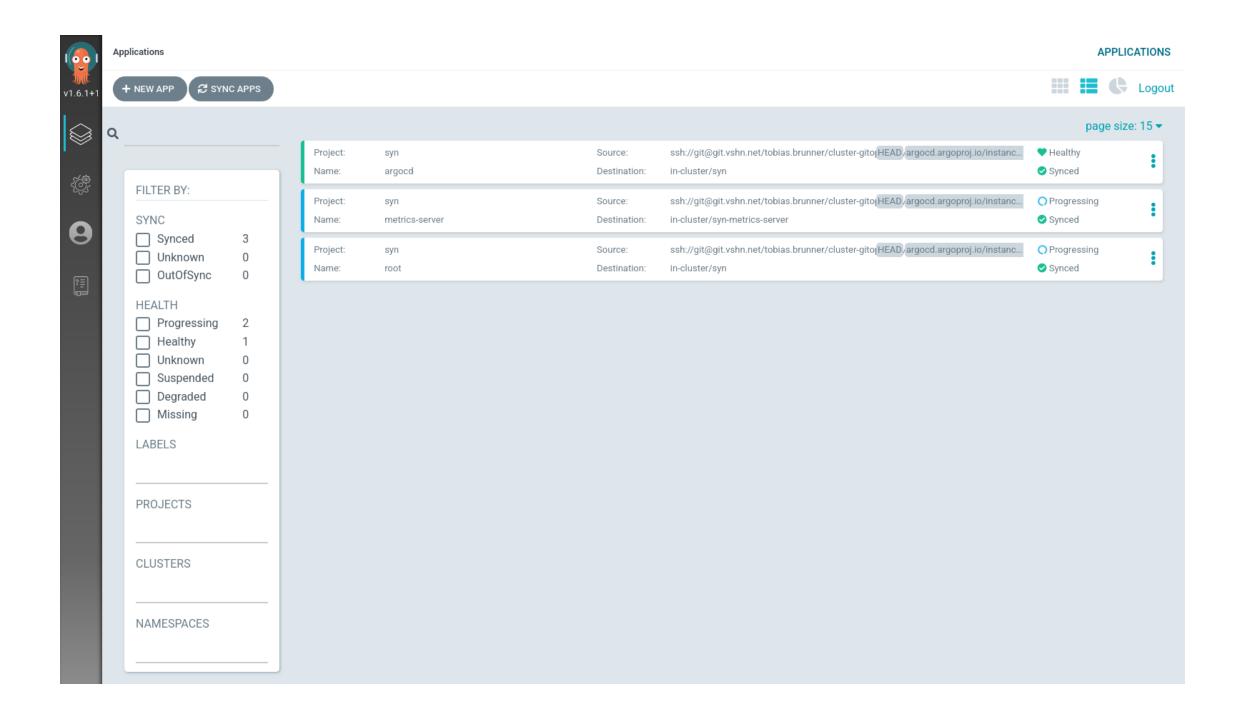
Commodore - Catalog Repo







Steward - Argo CD UI





Do It Yourself

Browse to

syn.tools/syn/getting-started.html

and try it out for yourself



Further resources

- Project site: syn.tools
- GitHub: github.com/projectsyn



Thanks!



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