Step 1

It’s easy to comprehend

But it’s a fixed pipeline

Doesn't scale well for complex features: rollbacks, feature builds, cleanup

Your deployment audit is your CI history

No central control

Step 2

You get the core properties of GitOps

Git interface, desired state is versioned, audit log

Still working in the boundaries of your CI engine

Requires a paradigm shift

Additional machinery, eventual deployments

Step 3

Environments captured declaratively with the application source code

Do you need a new environment?

Add a new environment file

Some config needs change?

Change it in your app repo, make PR and review

Upgrade to a newer application template?

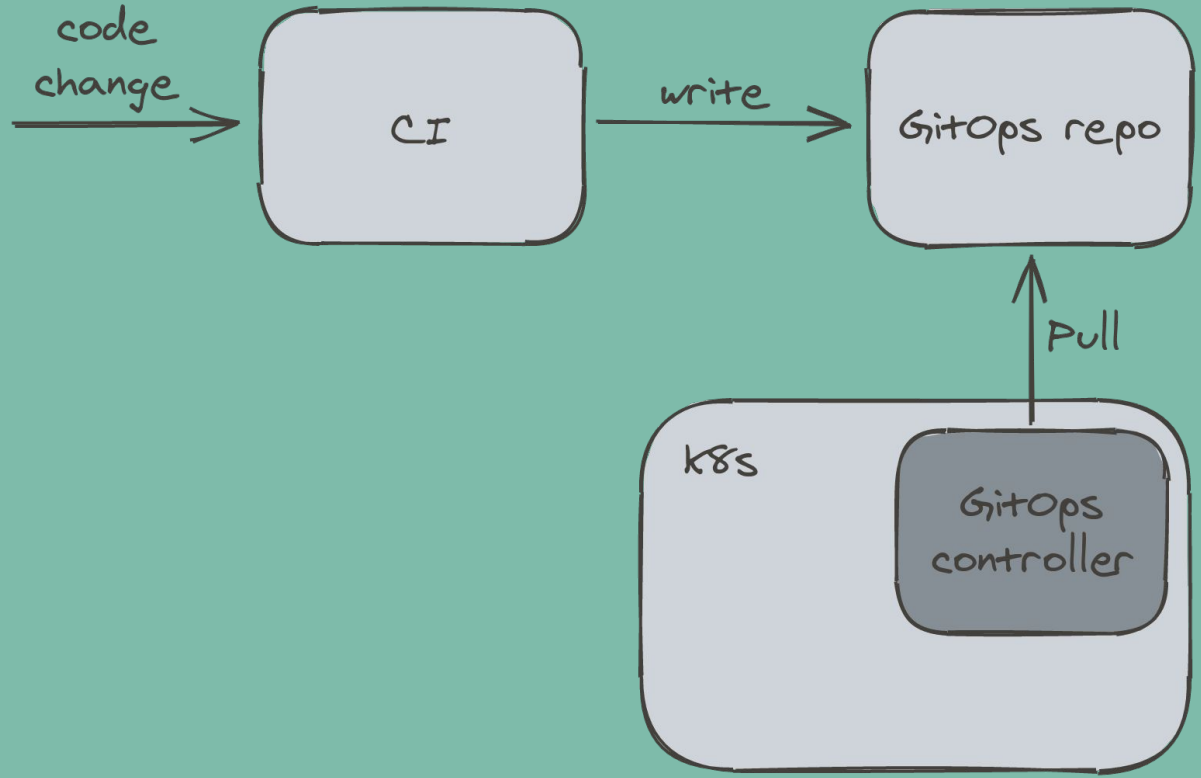
Bump the chart version

Drawbacks?

Updating configs in all apps becomes an automation / coms problem

Still working in the boundaries of your CI engine

Step 4


code
change
CI
write
GitOps repo
Pull
k8s
GitOps
controller

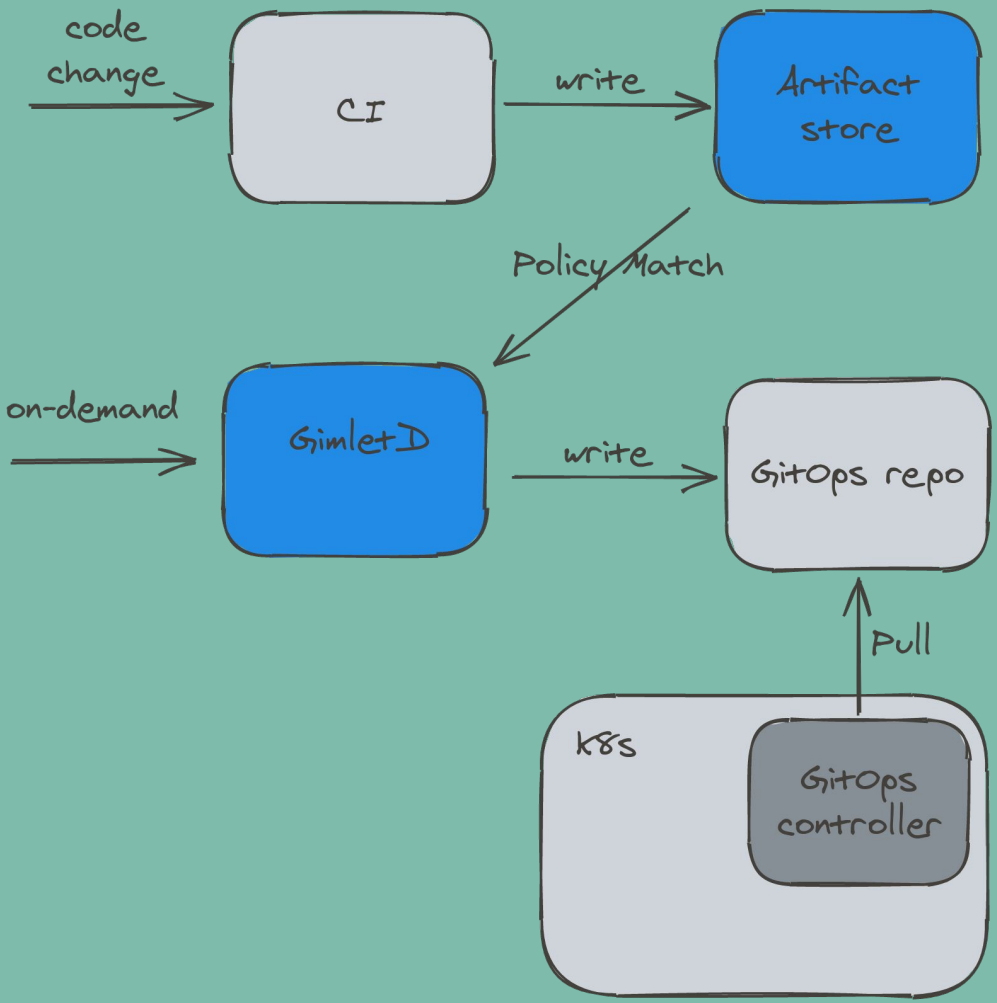
No central control

Cannot enforce policies, difficult to share logic across repos

CI is rigid

Predefined pipelines, only so many workflows, triggered by code change

GitOps write collisions


code
change
CI
write
Artifact
store
Policy Match
on-demand
GimletD
write
GitOps repo
Pull
k8s
GitOps
controller

Detaches the release workflow from CI

Unlocking advanced features, adding flexibility to refactor workflows, on-demand deploys

Adds central control to the release workflow

Policy based deploys, fine grained ACL model

Want to get involved?

https://github.com/gimlet-io/gimletd

gimlet.io