

Surfing the Argo CD sync waves

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Principal Developer Advocate - Kubefirst

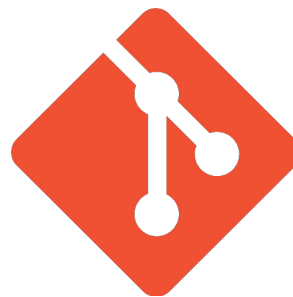
 fharper









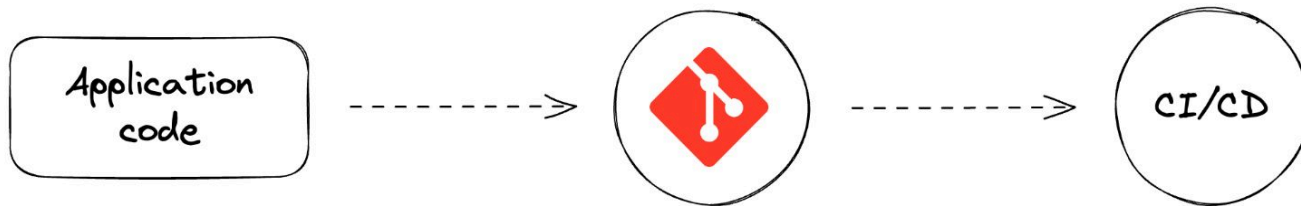


GitOps

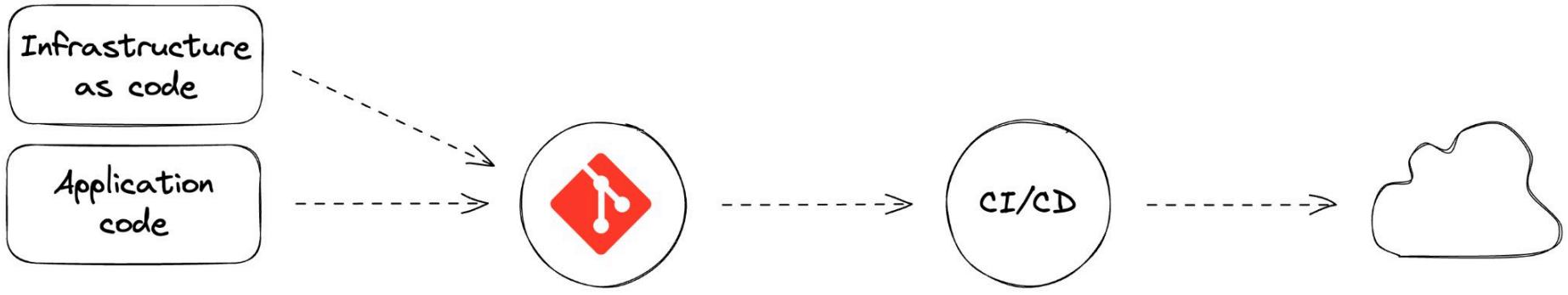
Application
code

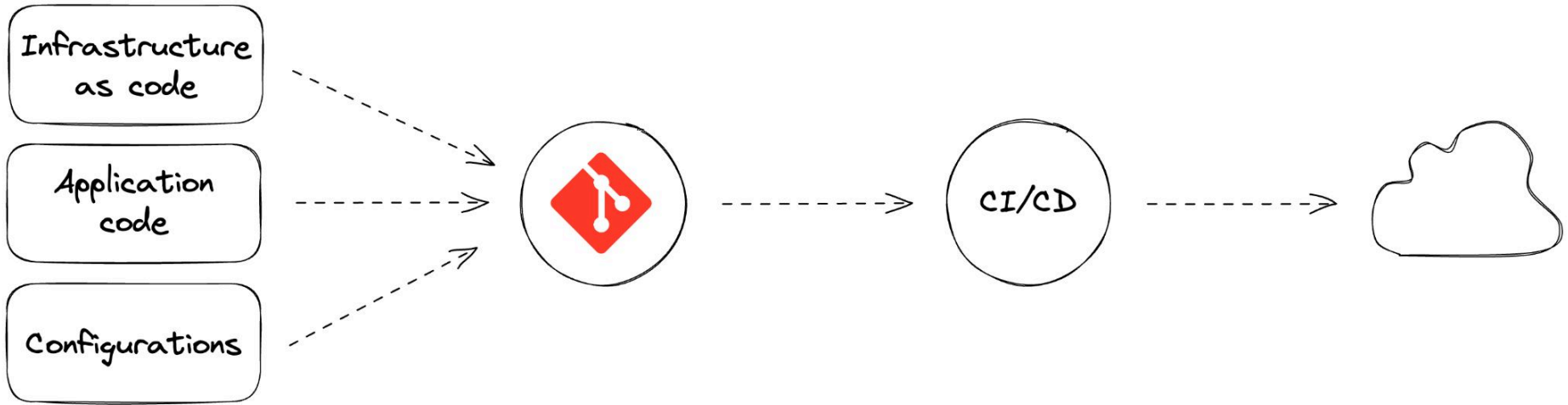
Application
code

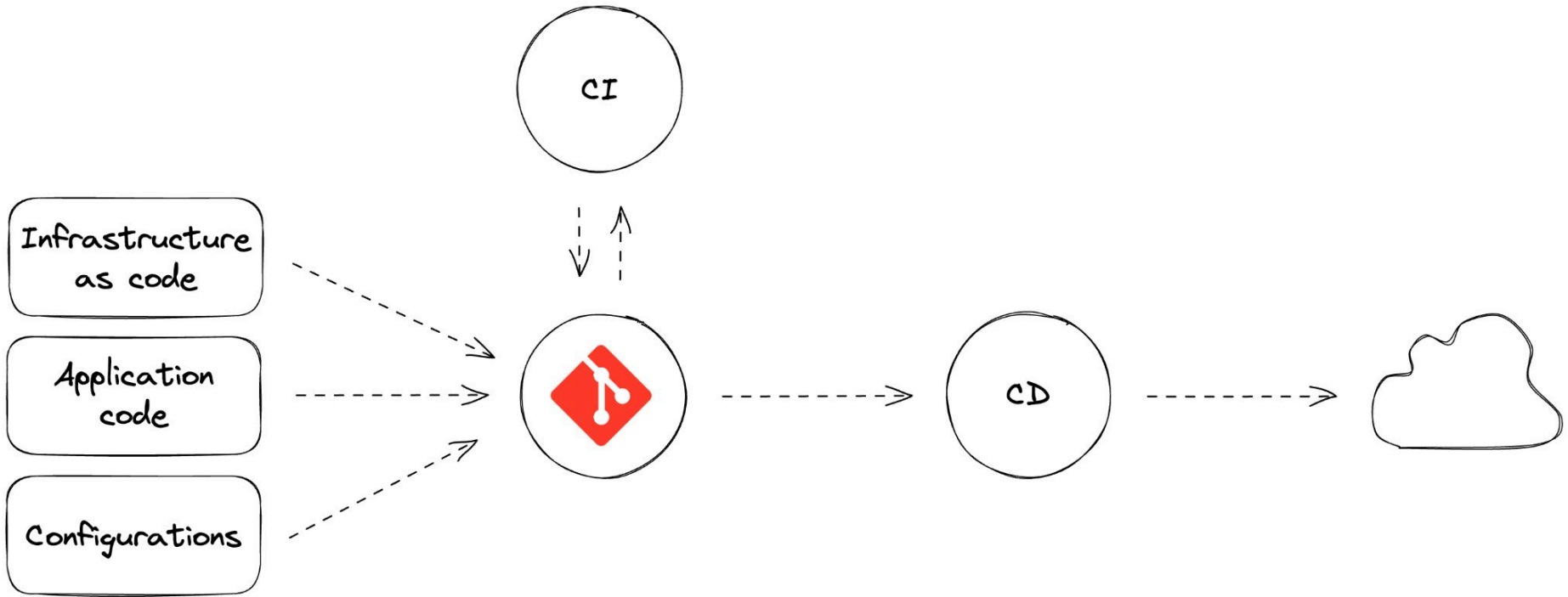


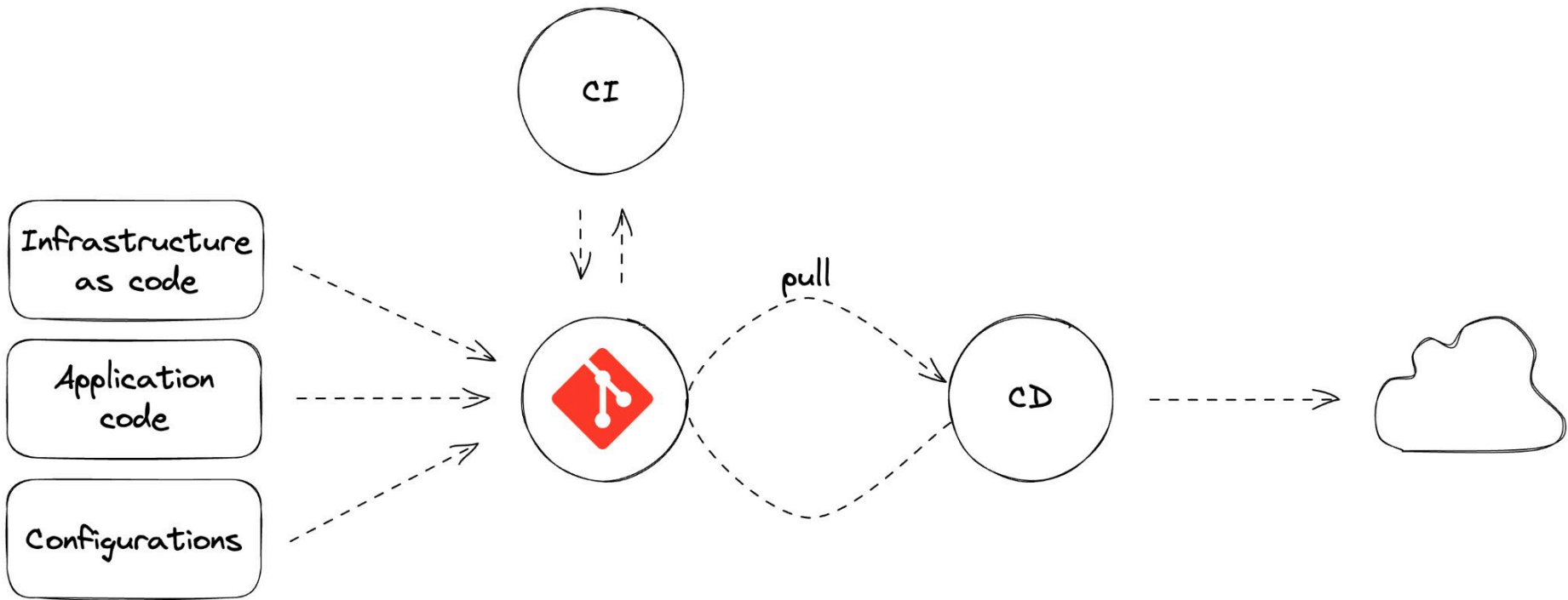


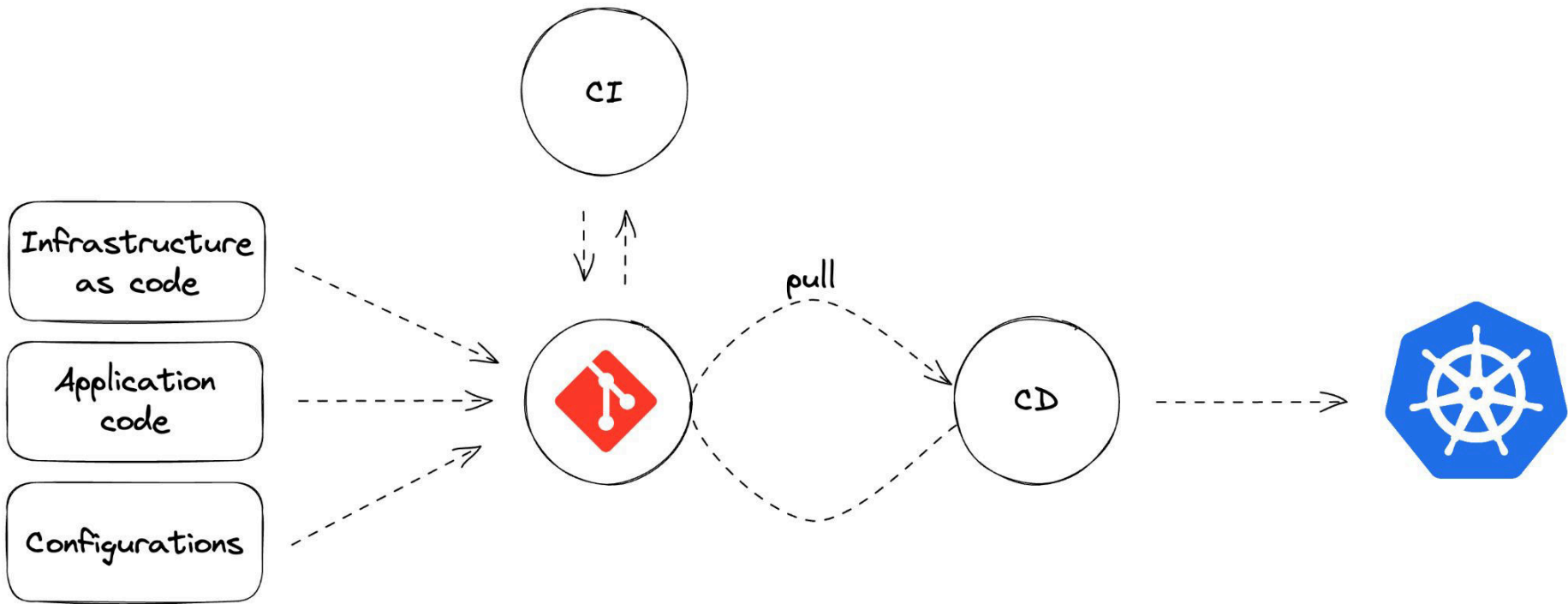










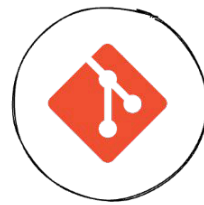
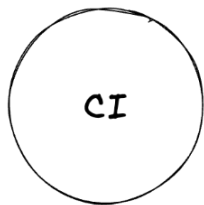


Source of truth

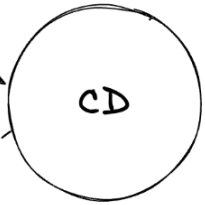
Infrastructure
as code

Application
code

Configurations



pull



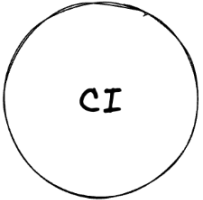
GitOps in a nutshell

Source of truth

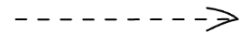
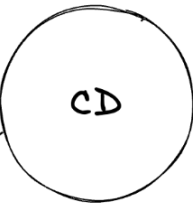
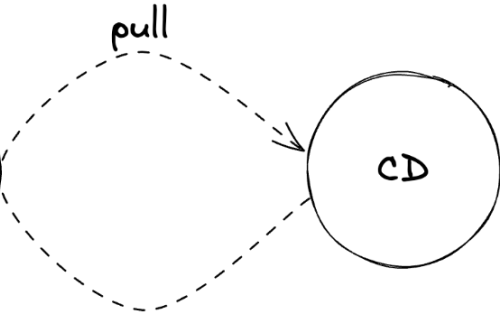
Infrastructure as code

Application code

Configurations



pull



Benefits

- **Familiar tools and processes**
- **Faster deployment/iteration + easily reproducible**
- **No cluster drift**
- **Greater collaboration**
- **Auditability**
- **More secure & simplification of access controls**
- **Cost saving**
- **Easily revert/rollback changes**
- **Simple stateless disaster recovery model**

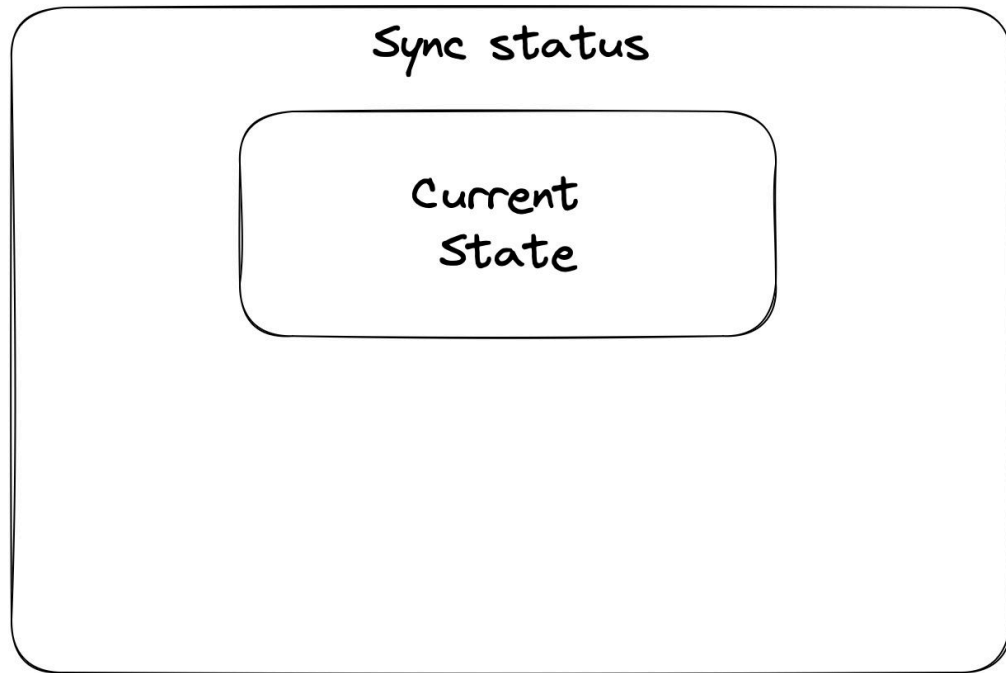
Argo CD



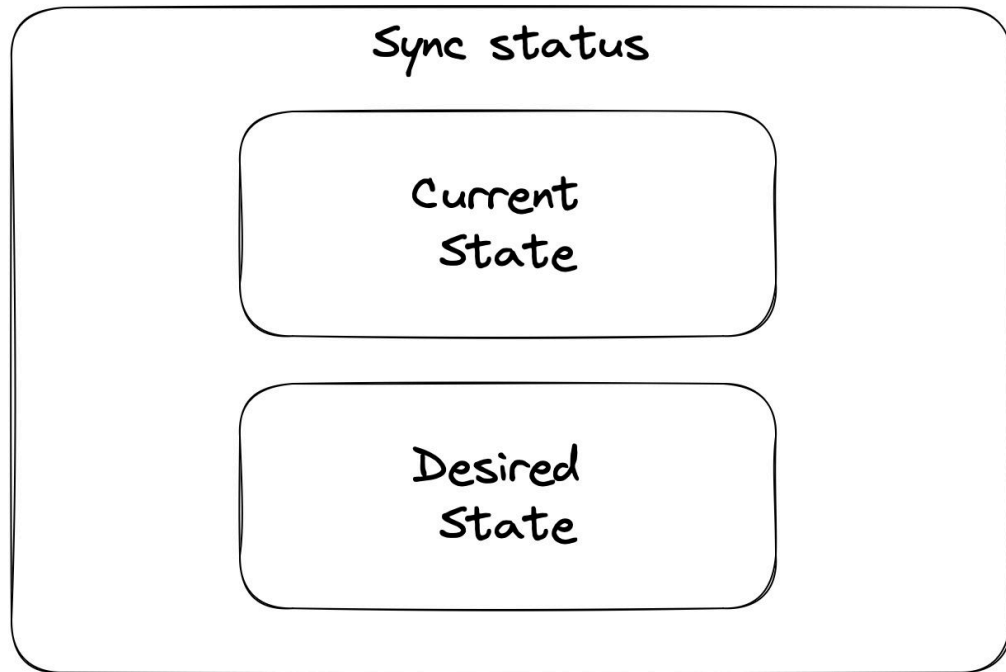
Real-time Updates

Sync status

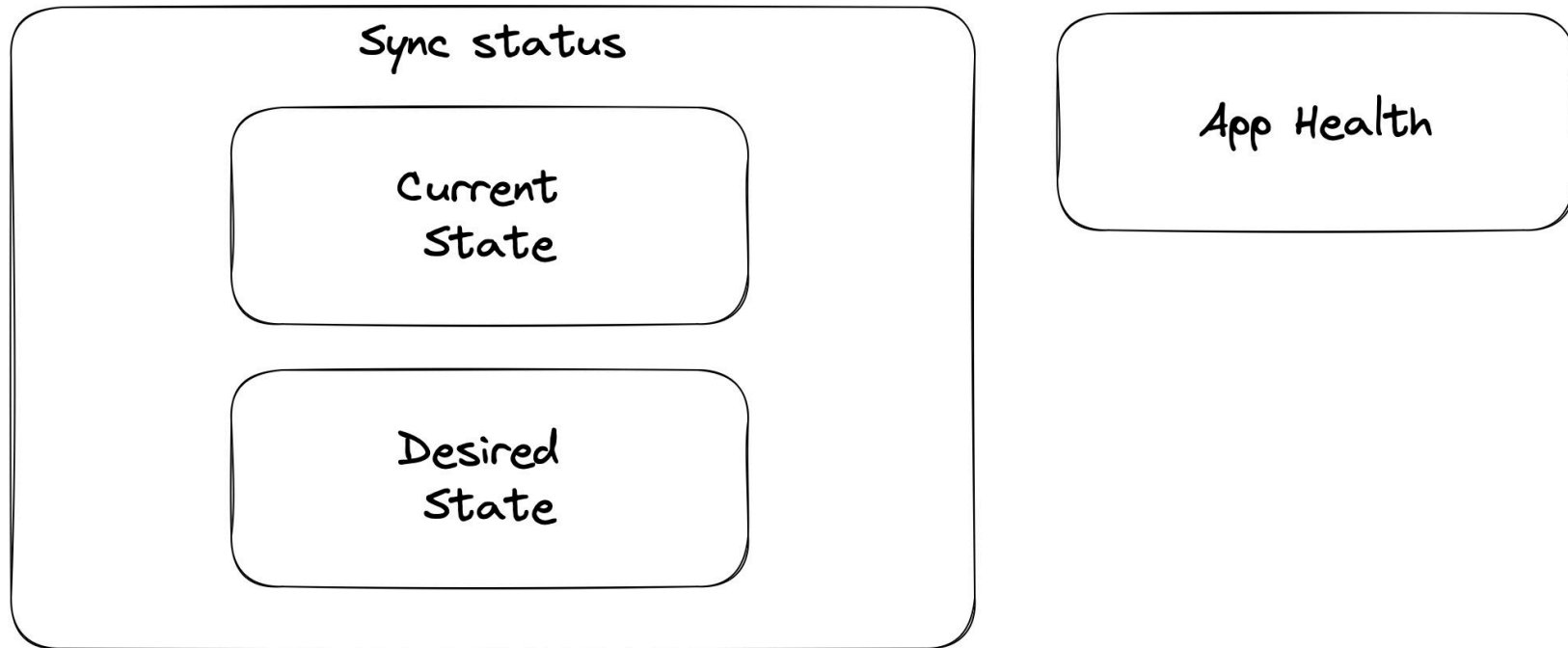
Real-time Updates



Real-time Updates



Real-time Updates



Repositories



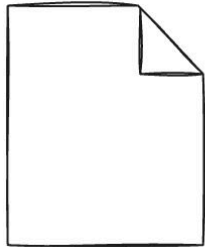
Repositories



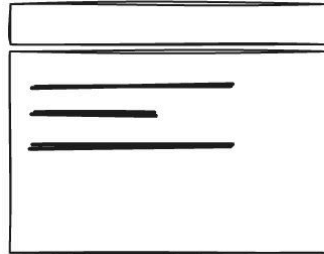
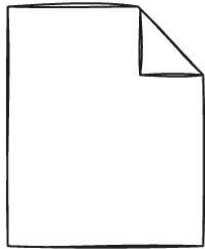
Getting Started

demo

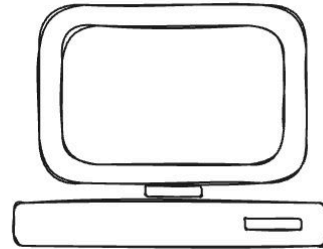
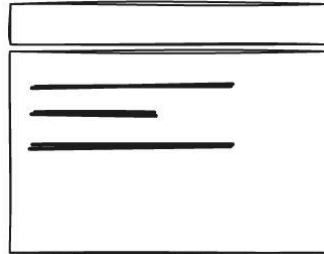
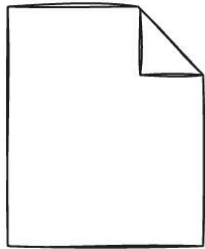
Applications & Projects



Applications & Projects



Applications & Projects



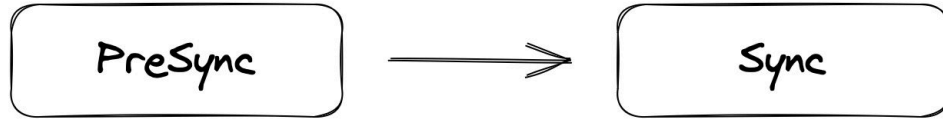
Deploying an App demo

Phases & Sync Waves

Phases & Sync Waves

PreSync

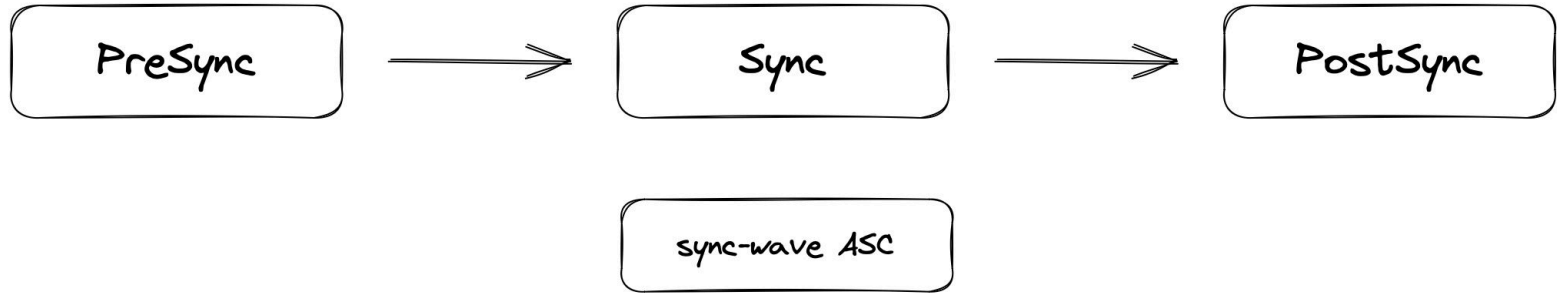
Phases & Sync Waves



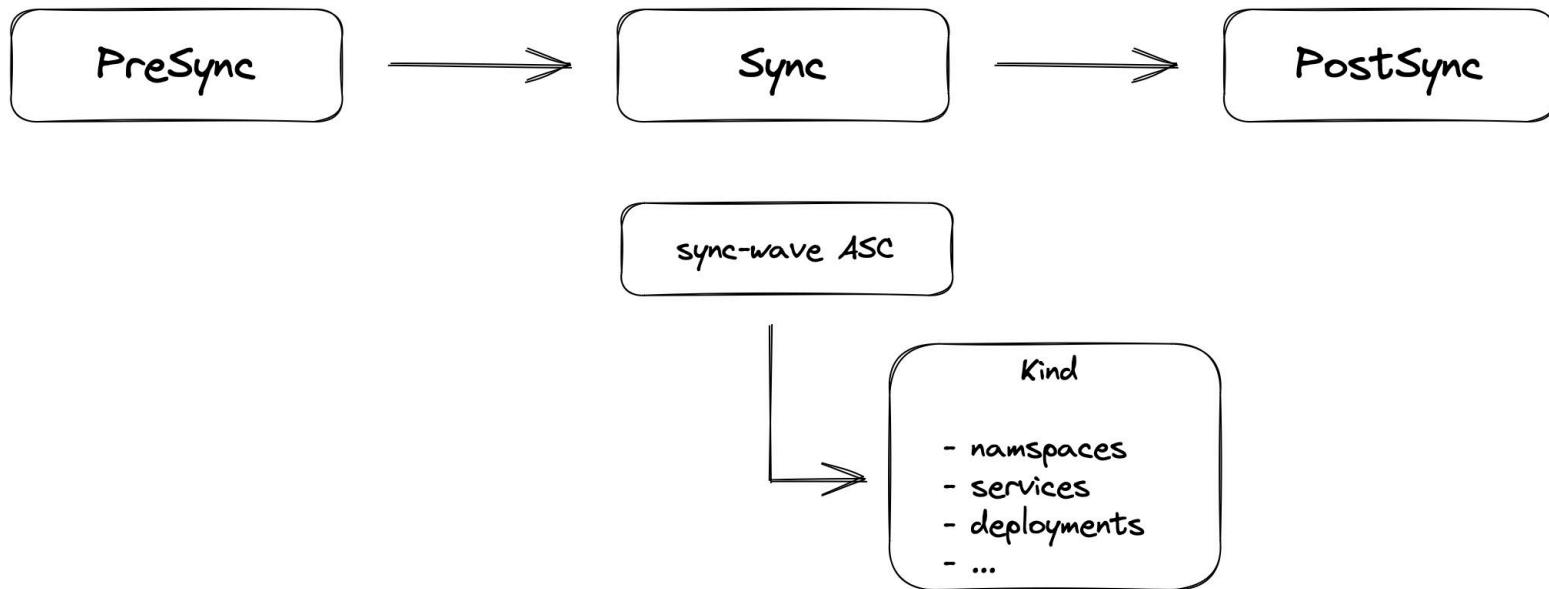
Phases & Sync Waves



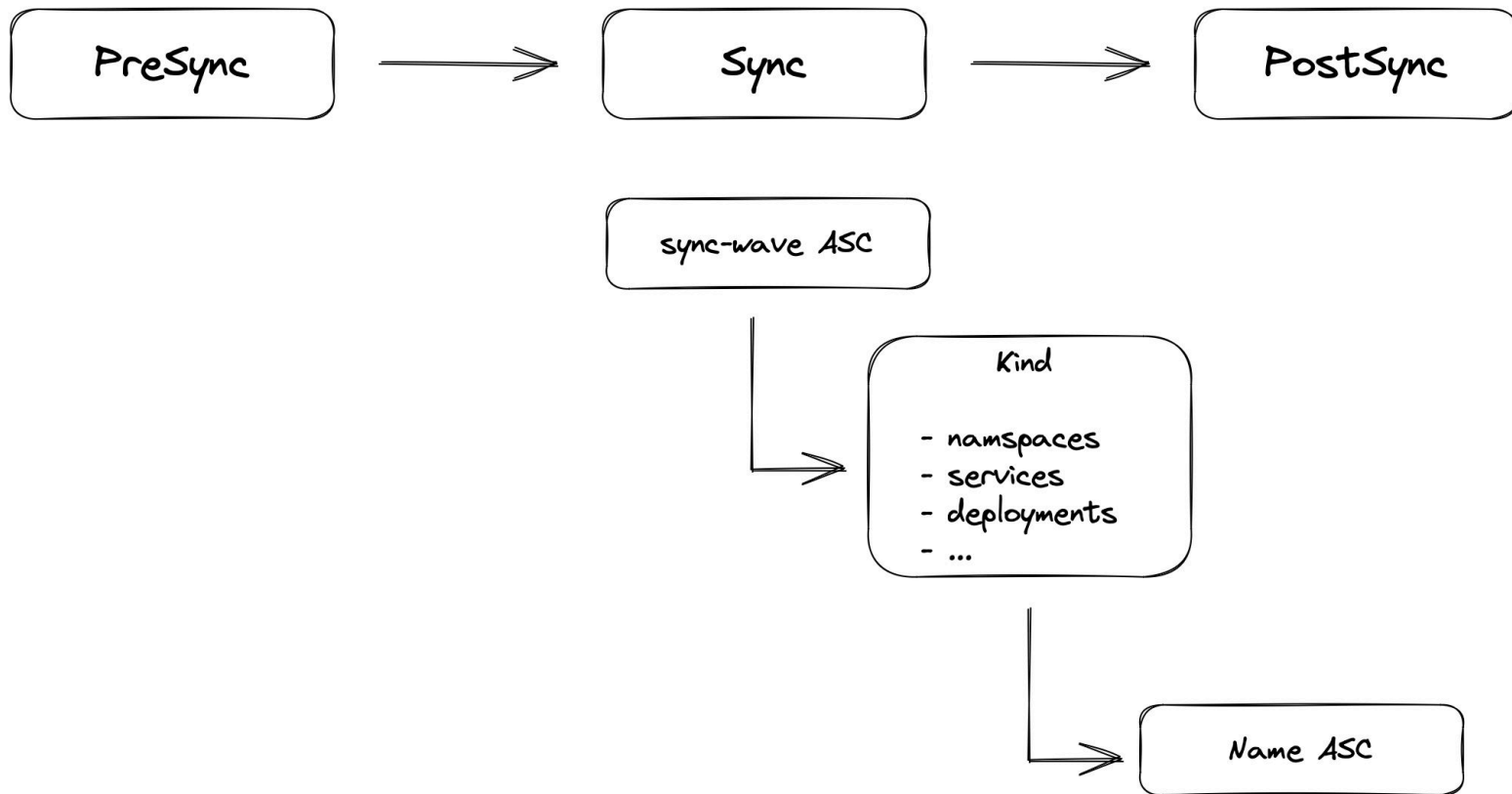
Phases & Sync Waves



Phases & Sync Waves

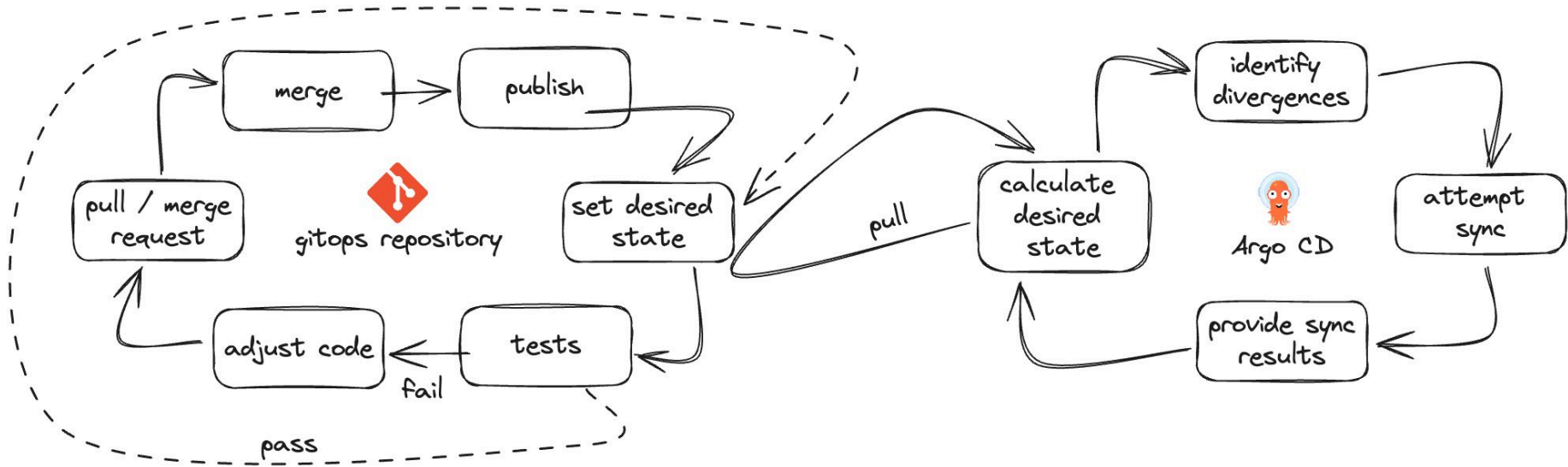


Phases & Sync Waves



```
1  apiVersion: v1
2  kind: ConfigMap
3  metadata:
4    name: argocd-cm
5  data:
6    application.resourceTrackingMethod: annotation
7    admin.enabled: 'true'
8    statusbadge.enabled: 'true'
9    users.anonymous.enabled: 'false'
10   resource.customizations: |
11     argoproj.io/Application:
12       health.lua: |
13         hs = {}
14         hs.status = "Progressing"
15         hs.message = ""
16         if obj.status ~= nil then
17           if obj.status.health ~= nil then
18             hs.status = obj.status.health.status
19             if obj.status.health.message ~= nil then
20               hs.message = obj.status.health.message
21             end
22           end
23         end
24         return hs
```


surfing the waves demo



resources



argoproj.github.io/cd



vs



bit.ly/argo-vs-flux



kubefirst.io



kubefirst.io/slack

#argo



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fred.dev/coffee