

# Surfing the Argo CD sync waves

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Principal Developer Advocate - Kubefirst

 fharper









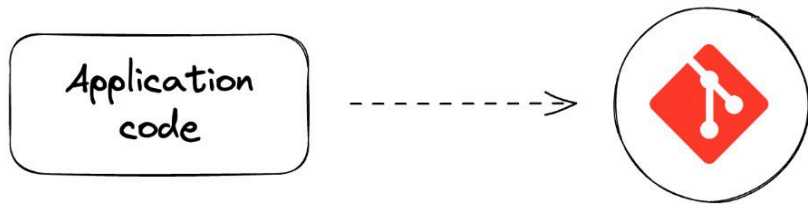


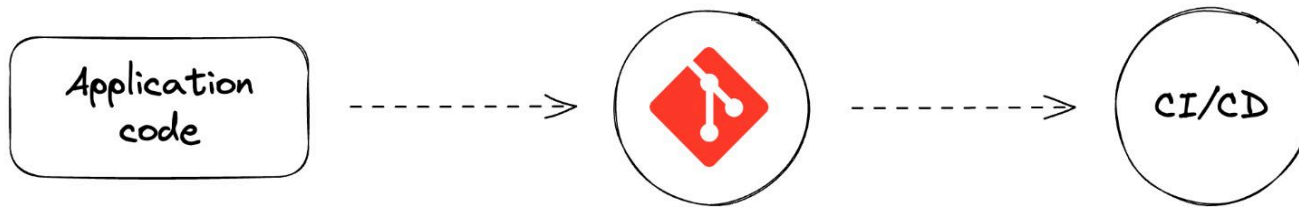


# GitOps

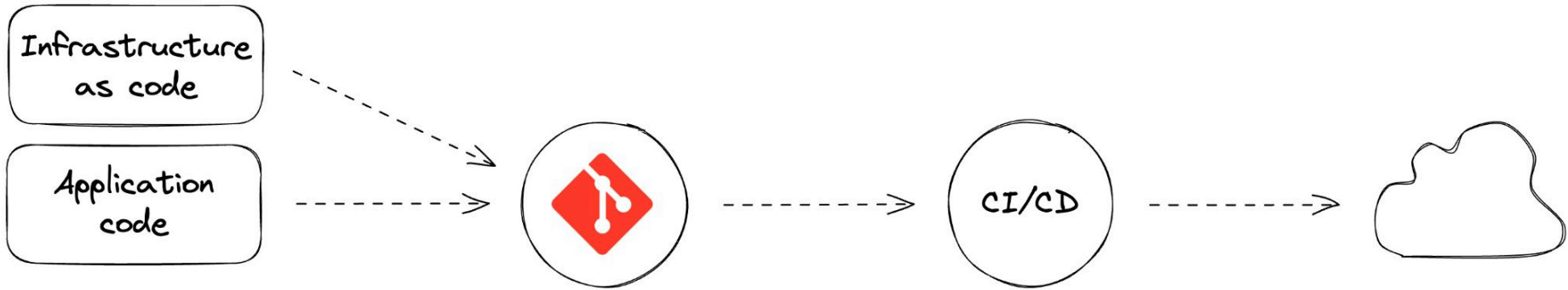
Application  
code



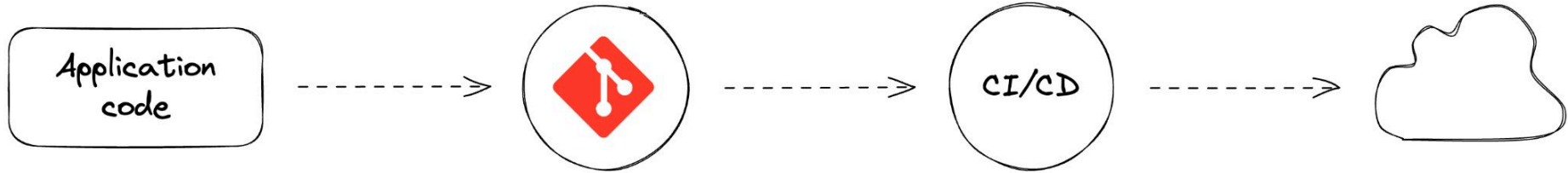


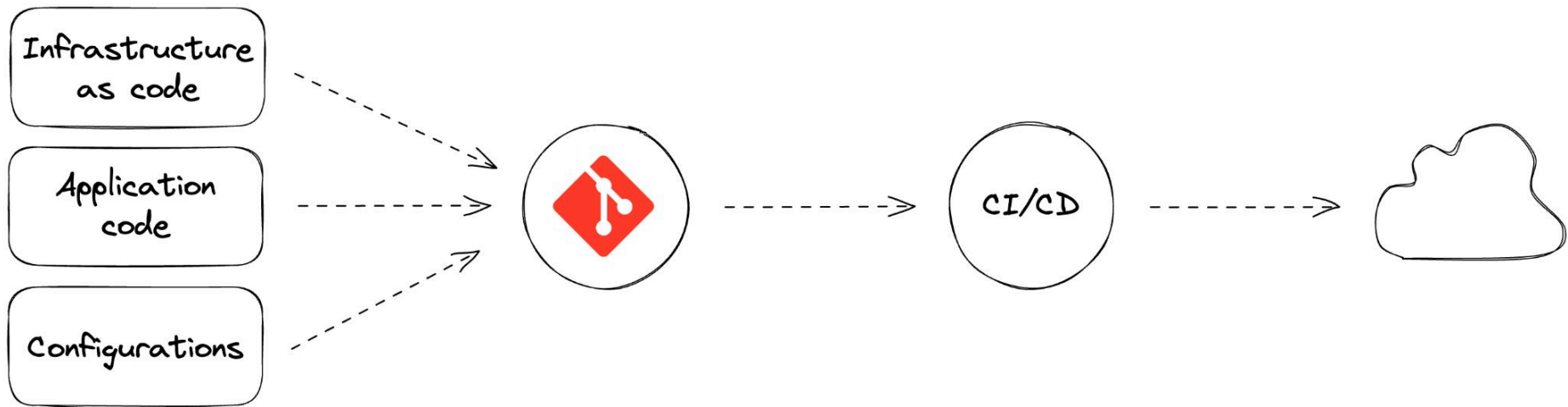


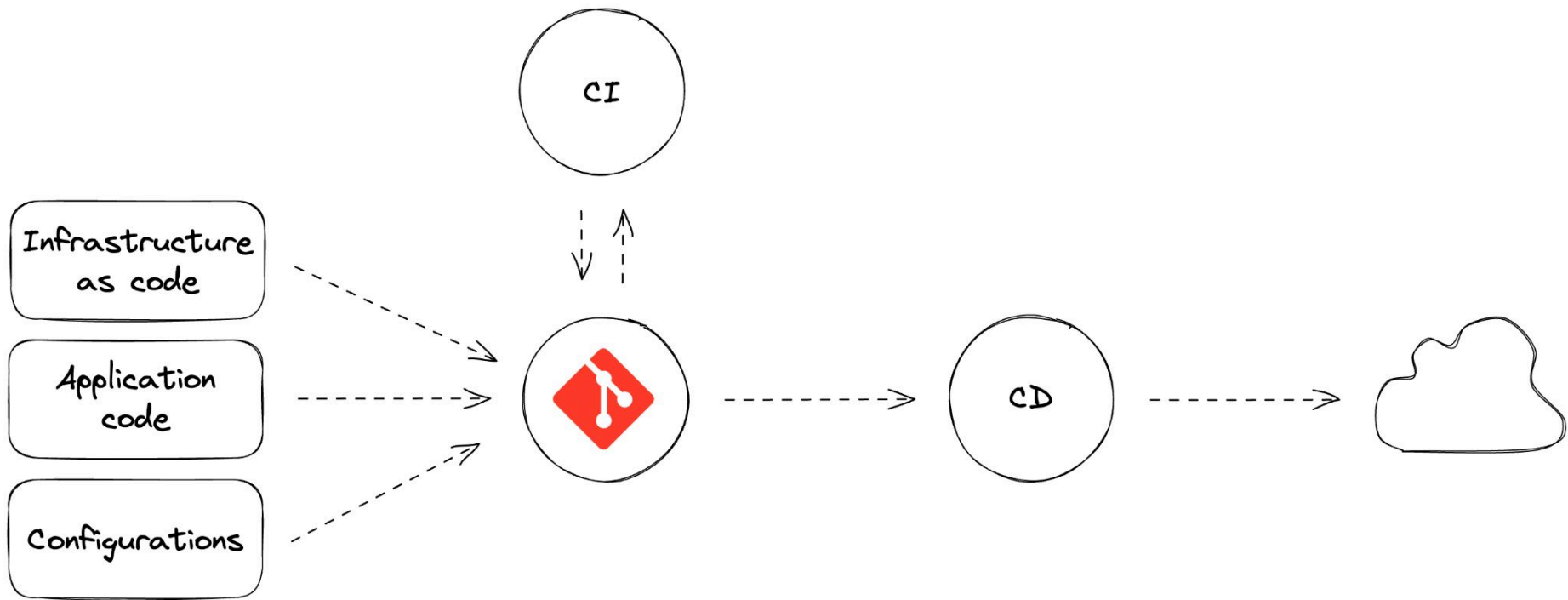


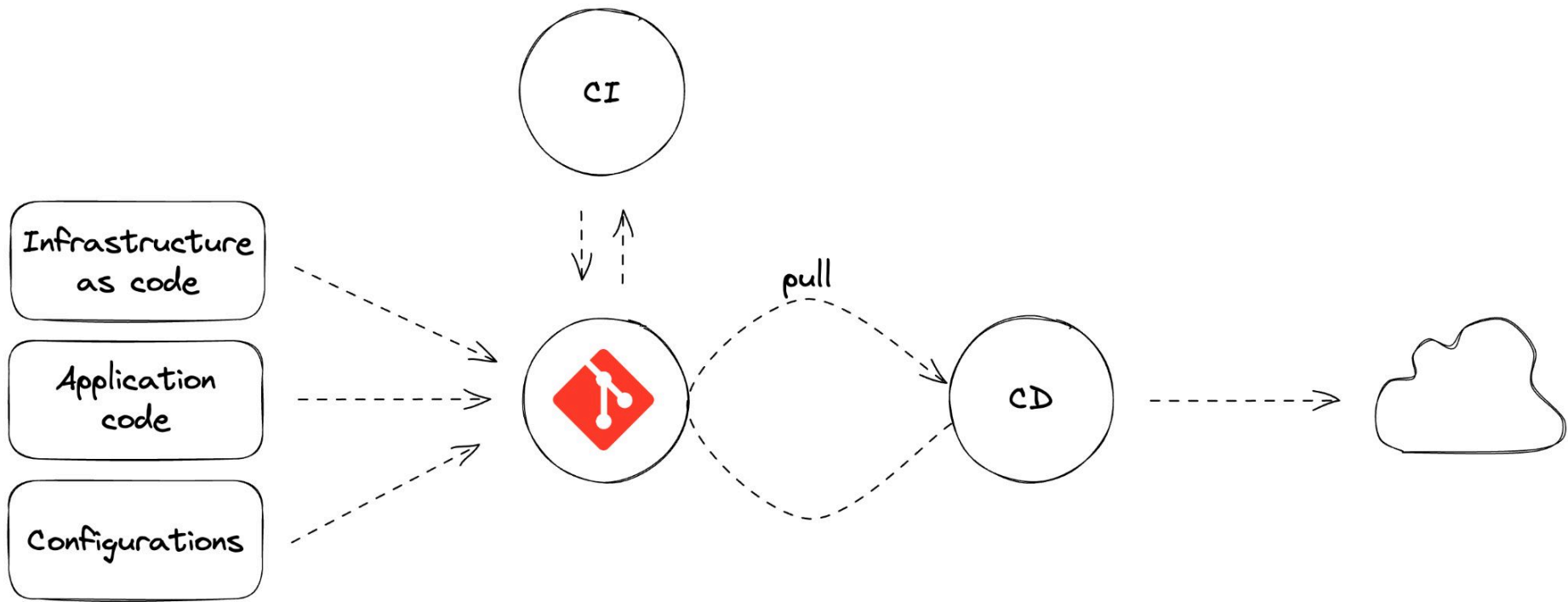


## DevOps in a nutshell

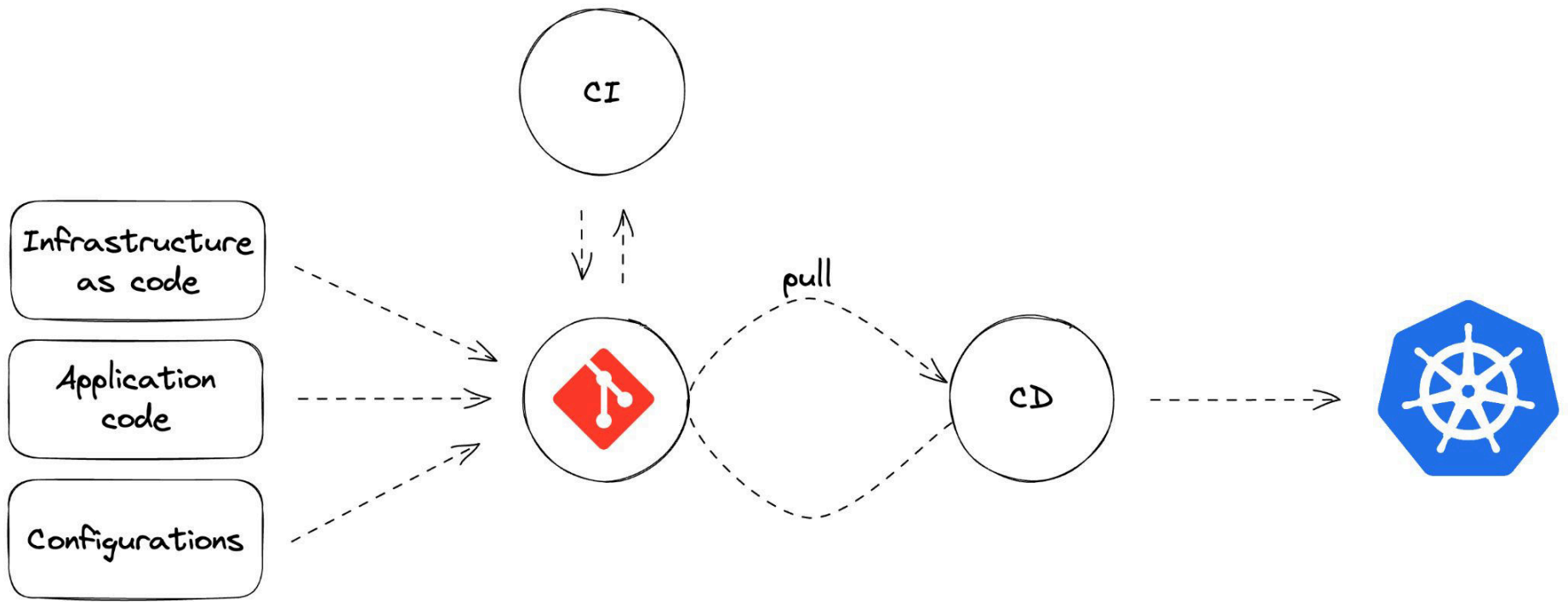


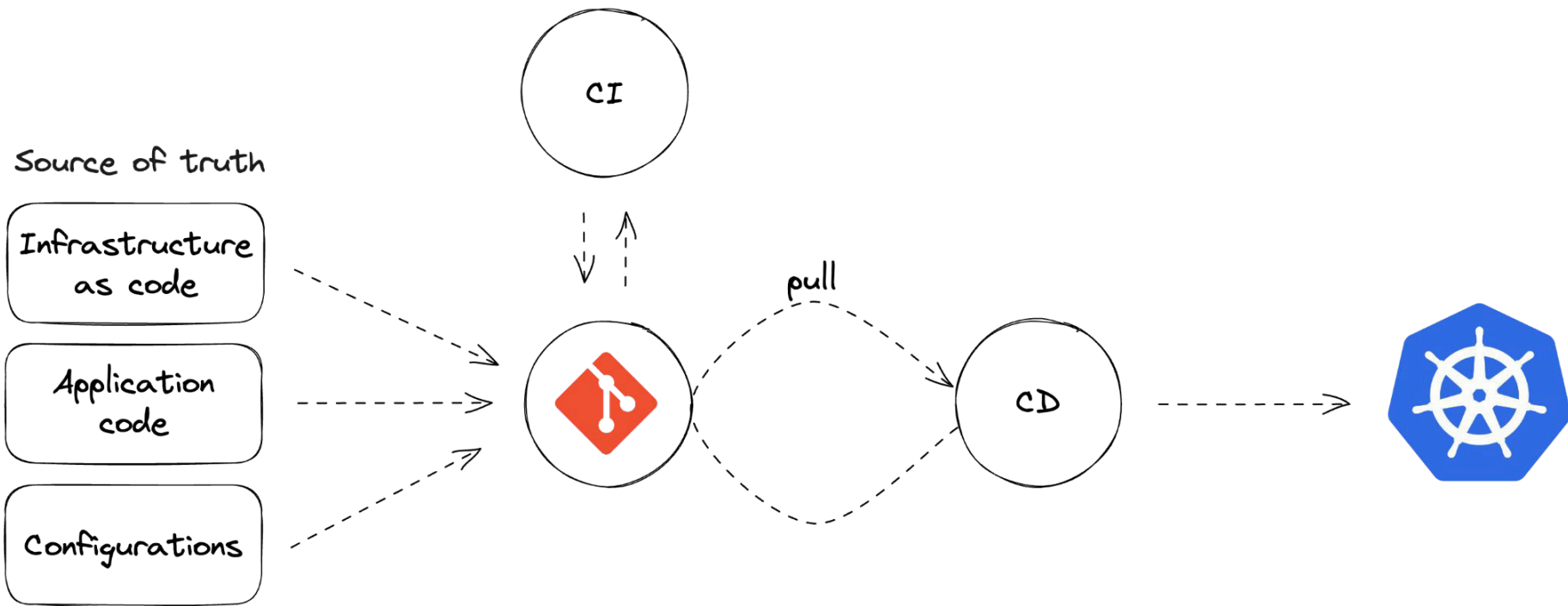




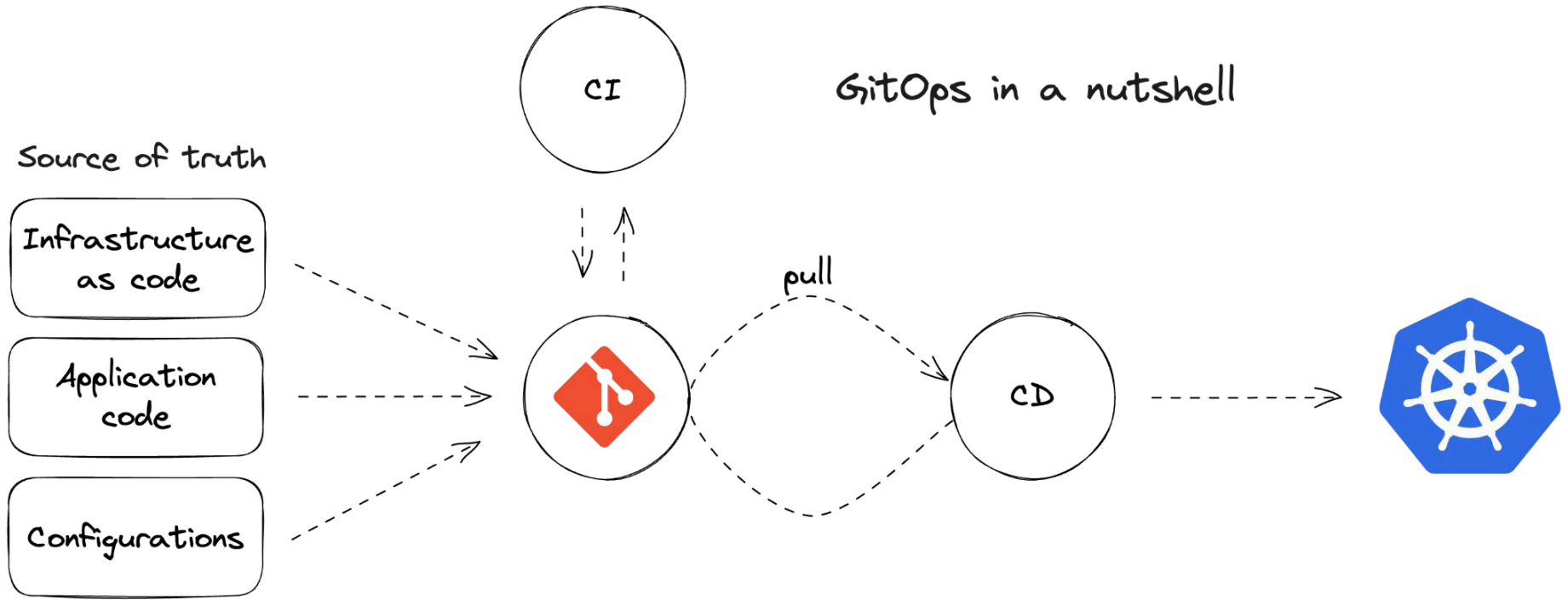








## GitOps in a nutshell



# 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**

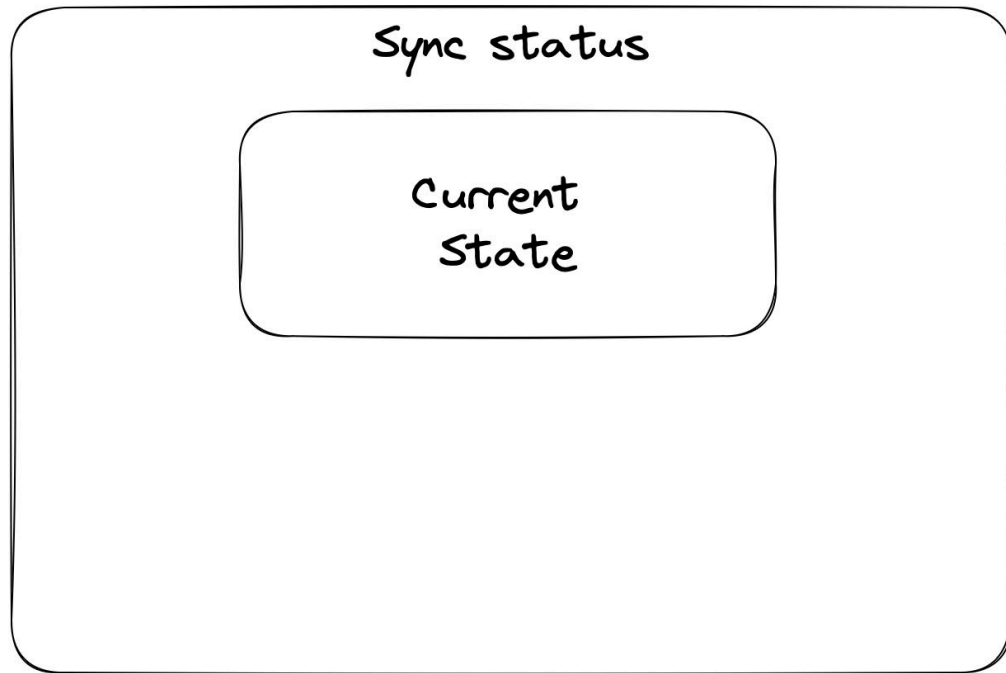
# Argo CD



# Real-time Updates

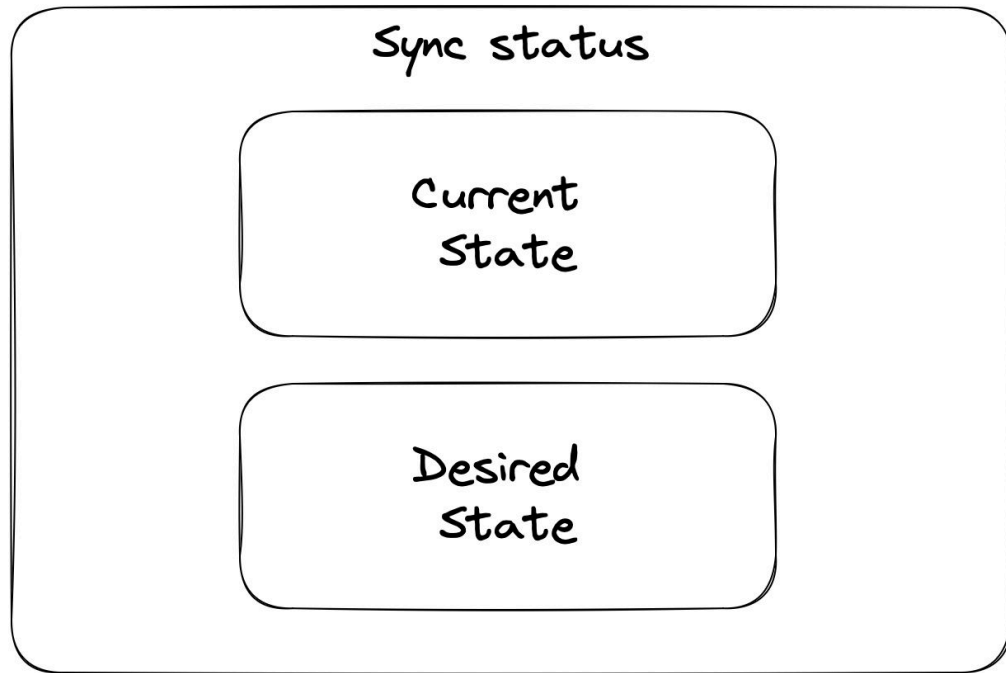
Sync status

# Real-time Updates

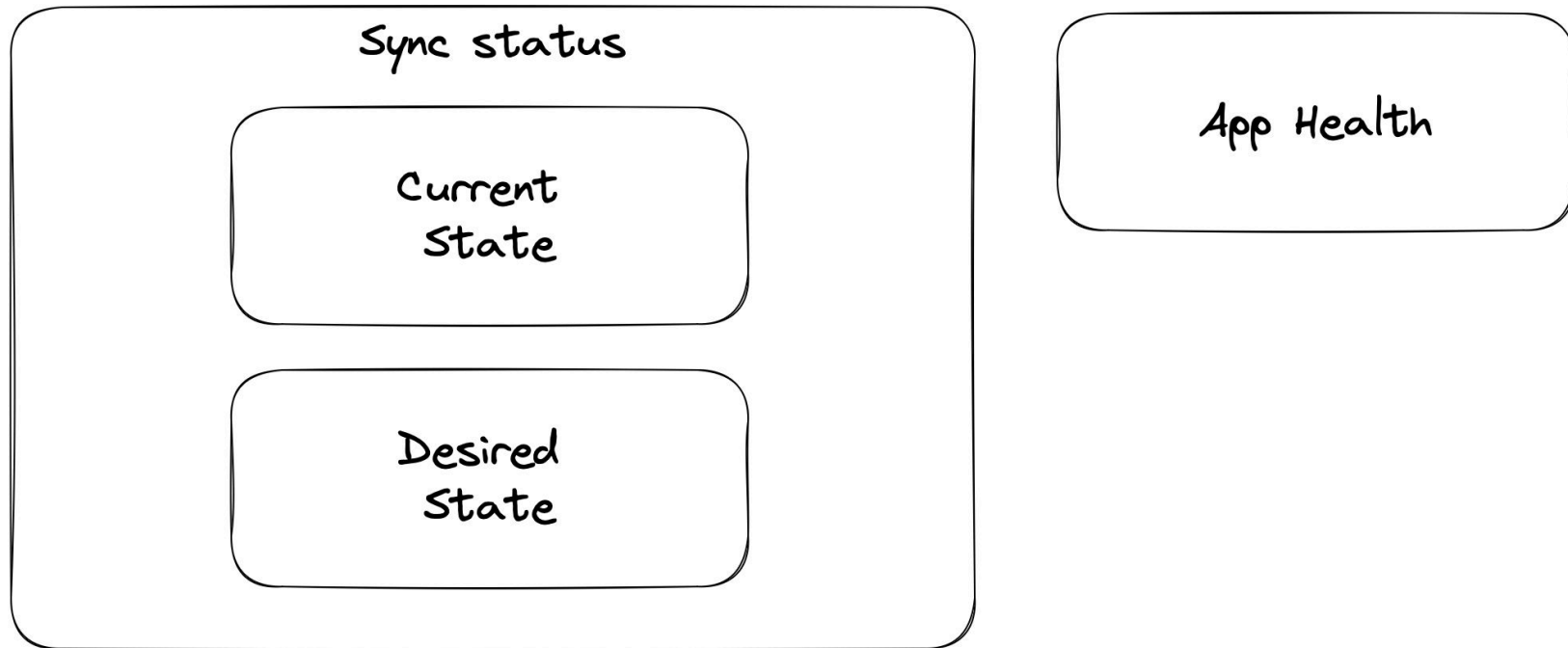




# Real-time Updates



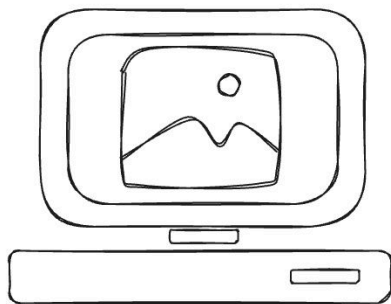
# Real-time Updates



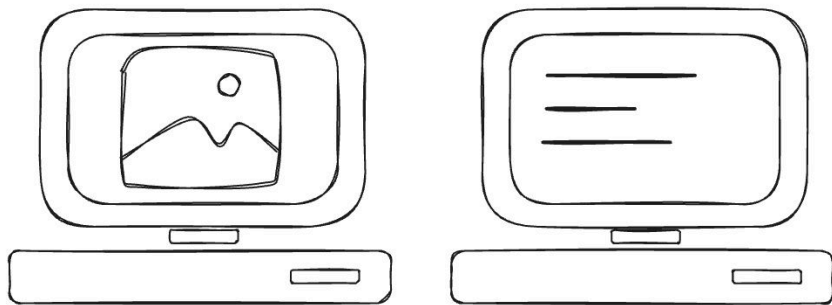
# Argo CD in production demo

# **application deployment**

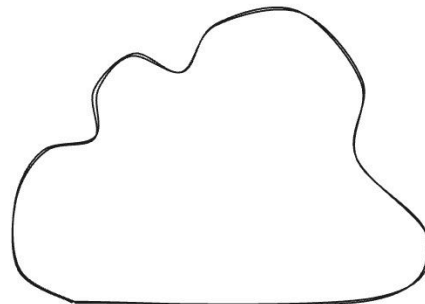
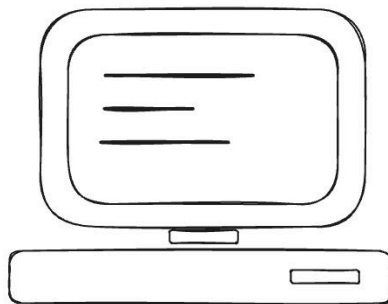
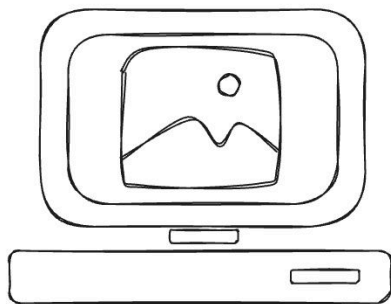
# Applications



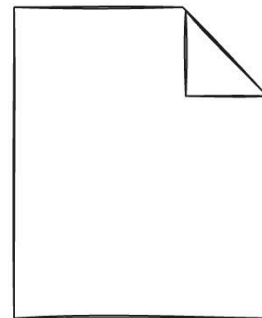
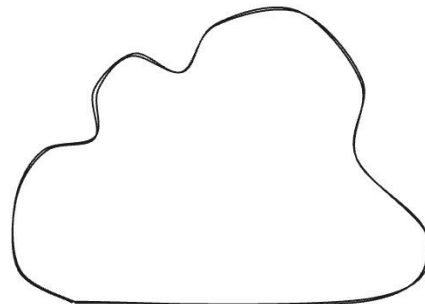
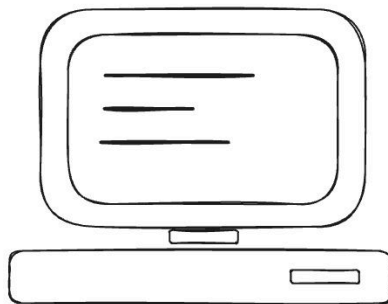
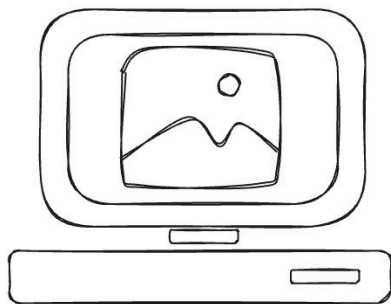
# Applications



# Applications

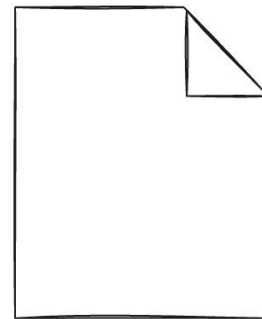
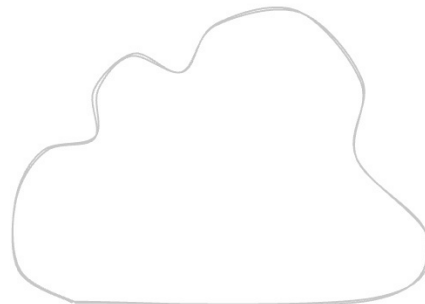
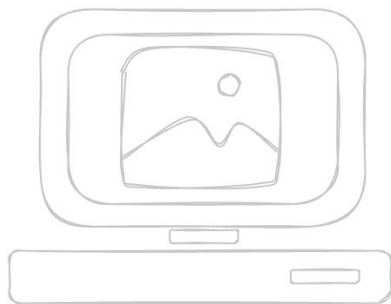


# Applications





# Applications



# Applications



# Applications



# Repositories



# Deploying an App demo

**sync**  
**waves**

# Phases & Sync Waves

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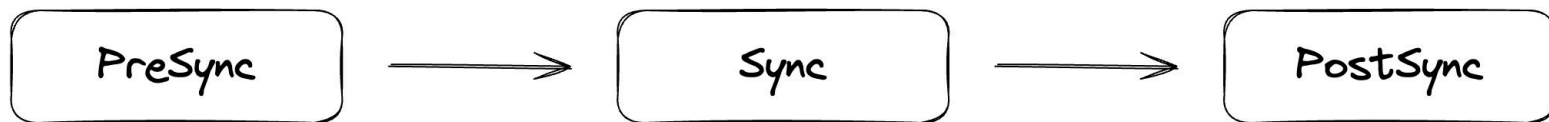
PreSync



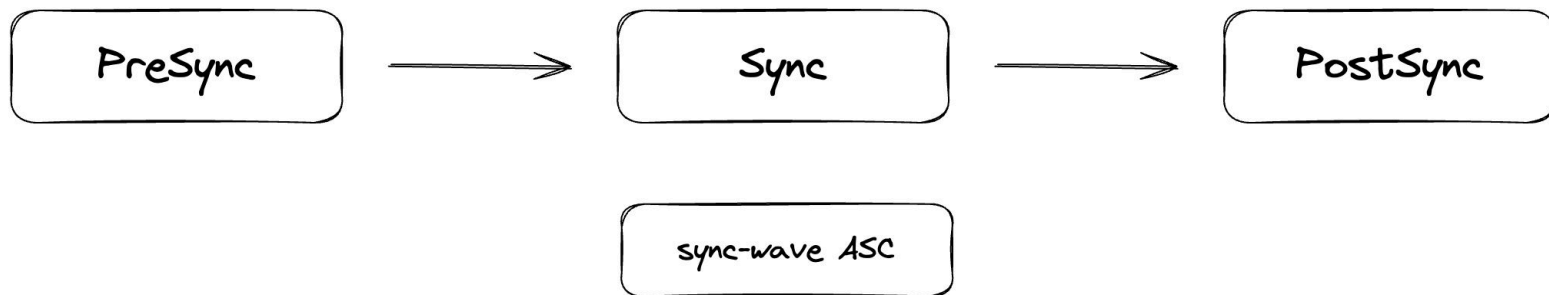
# Phases & Sync Waves



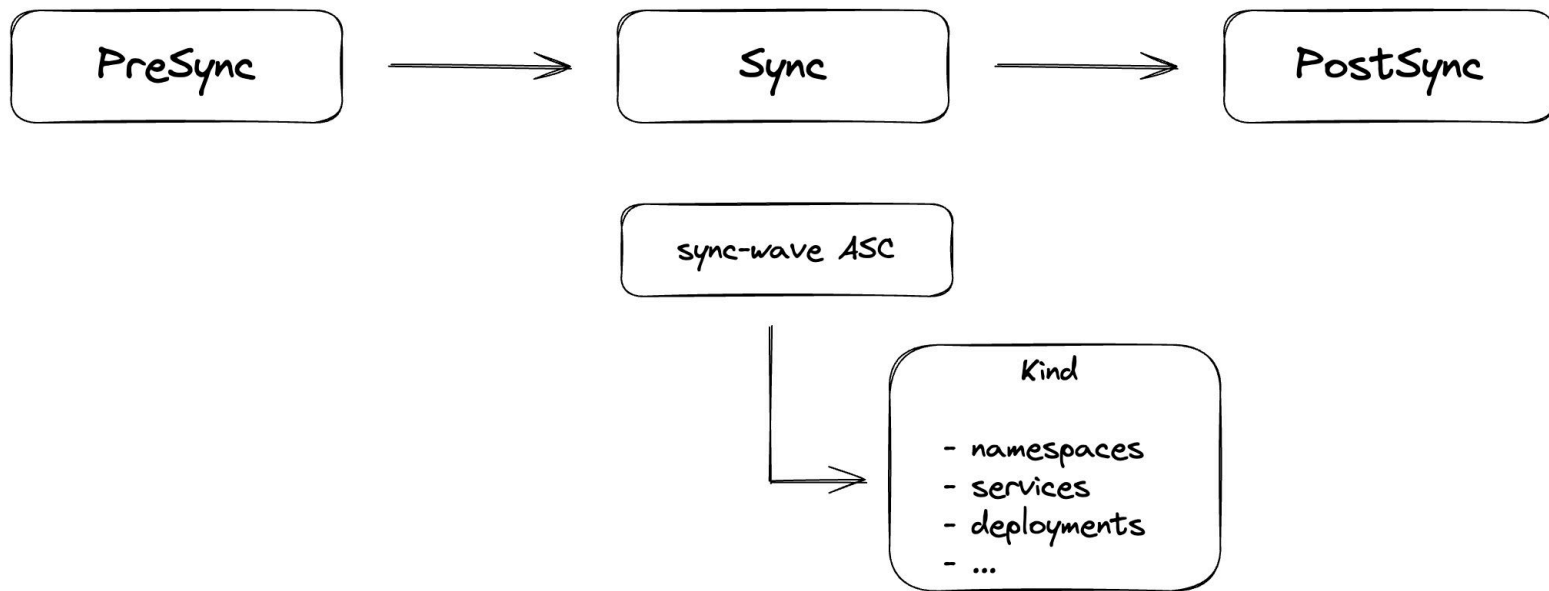
# Phases & Sync Waves



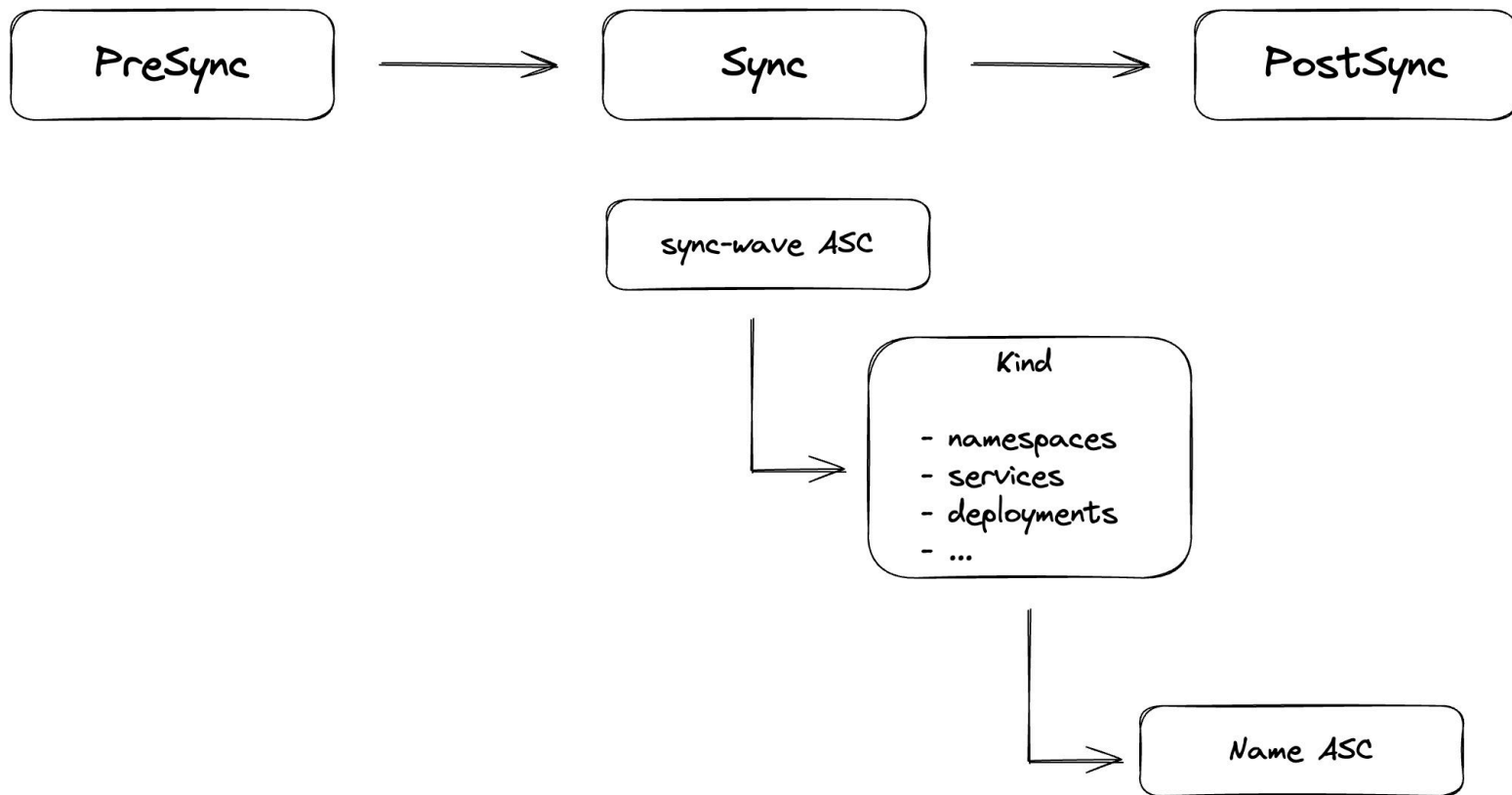
# Phases & Sync Waves



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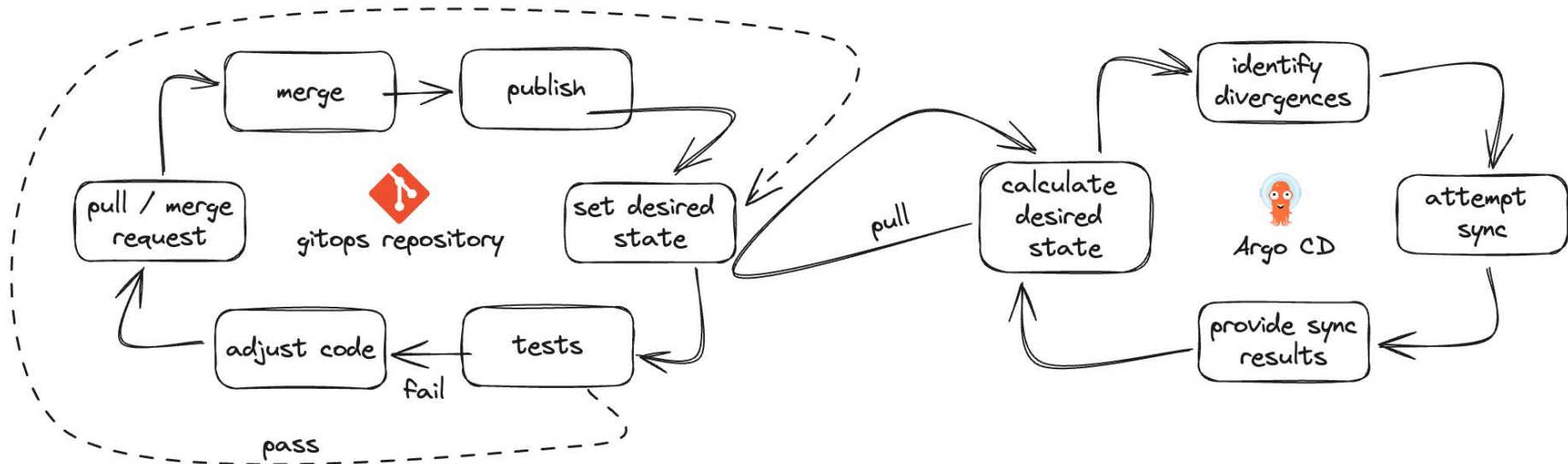


# Phases & Sync Waves



```
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](https://argoproj.github.io/cd)**



vs



**[bit.ly/argo-vs-flux](https://bit.ly/argo-vs-flux)**



**kubefirst.io**



**kubefirst.io/slack**

**#argo**



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