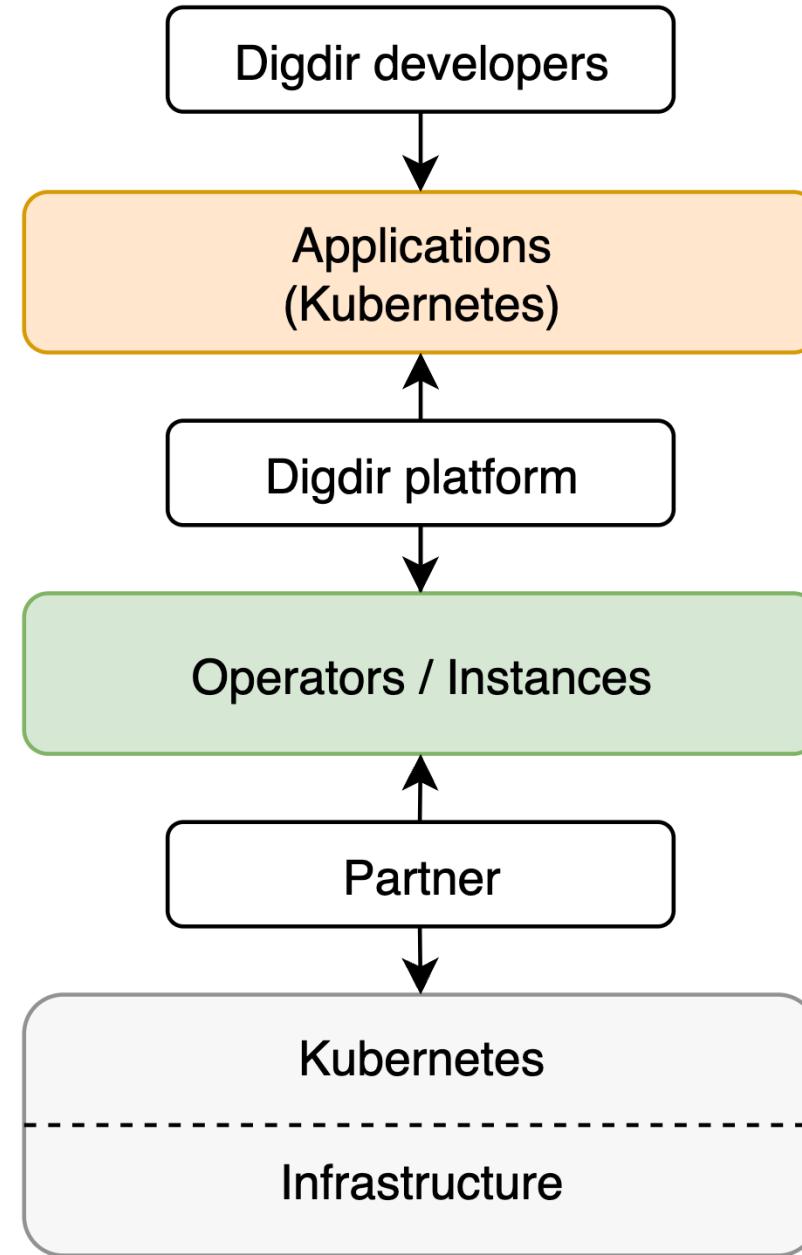
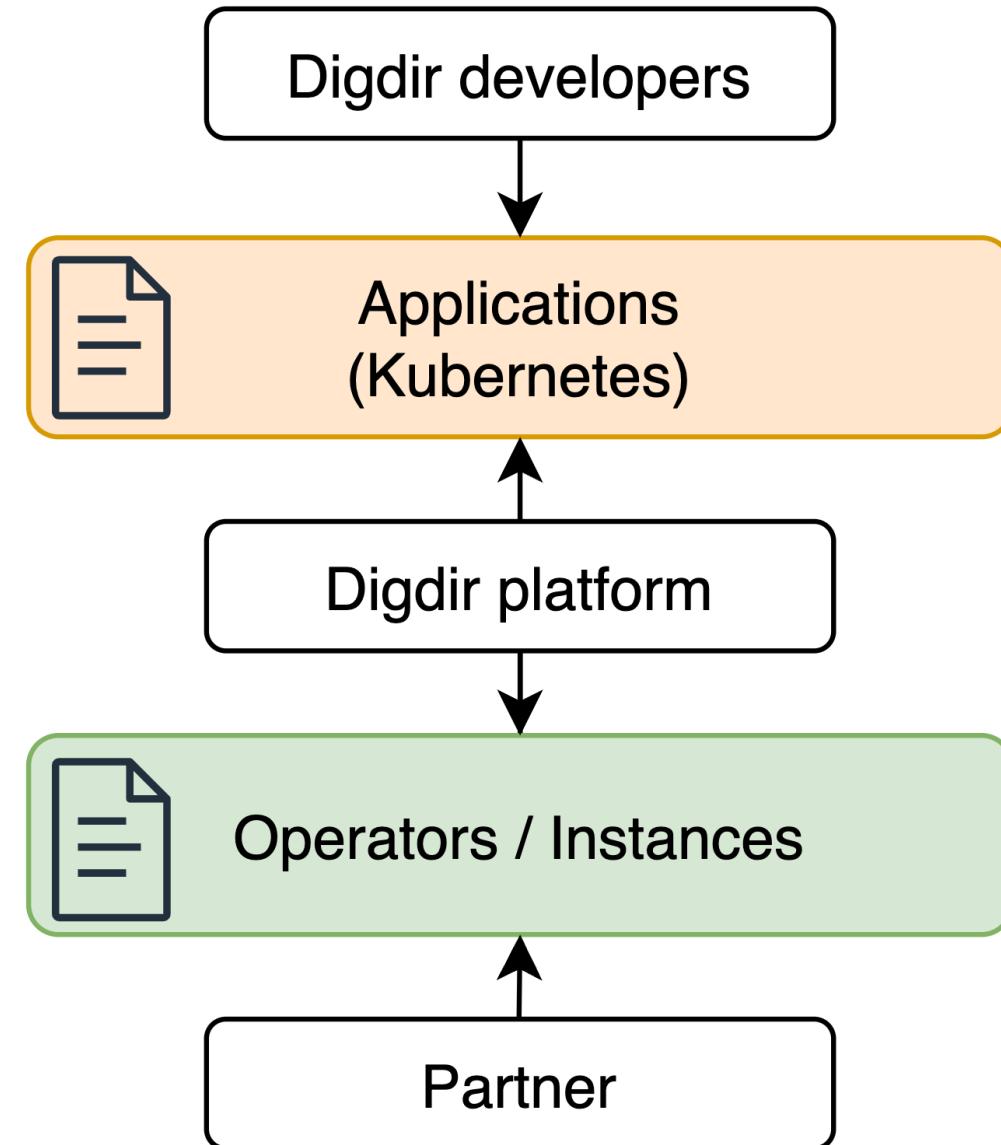


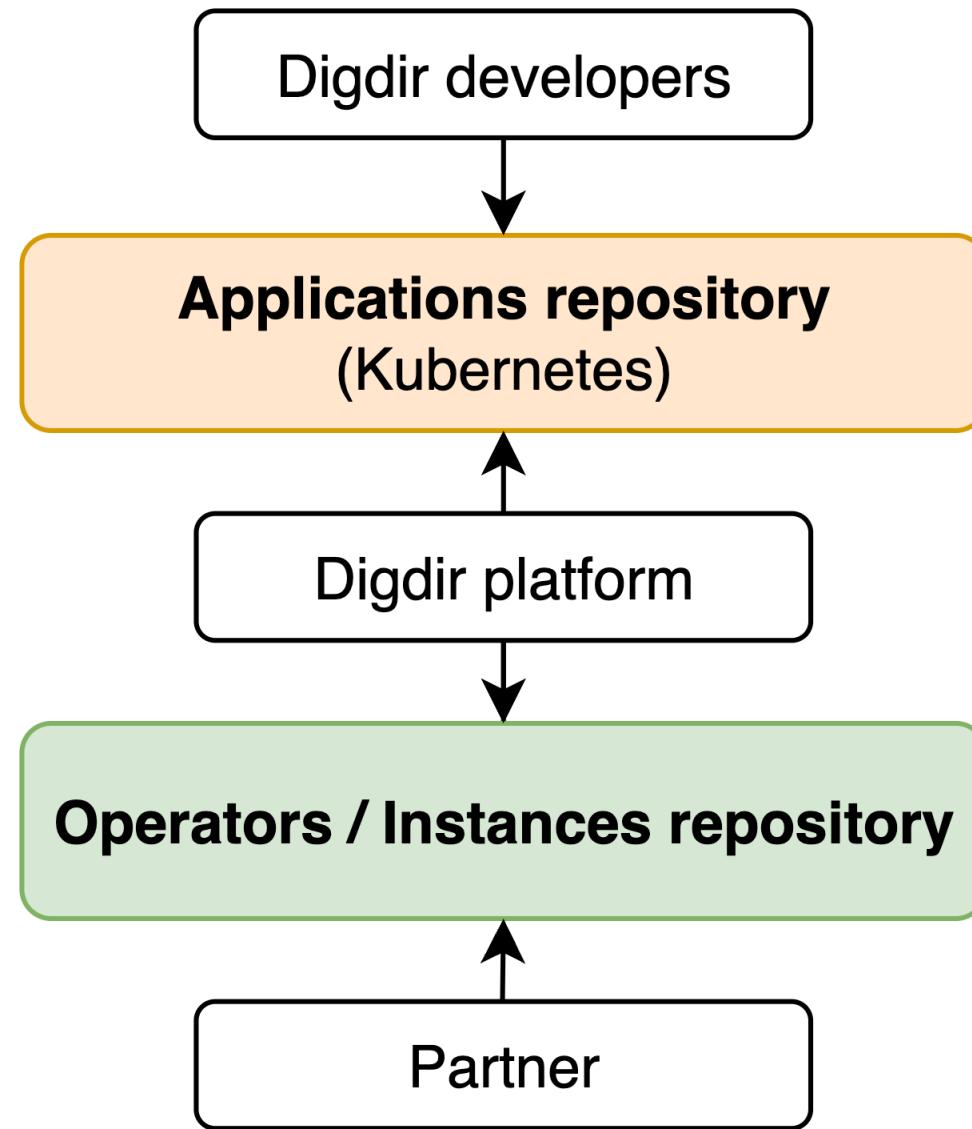
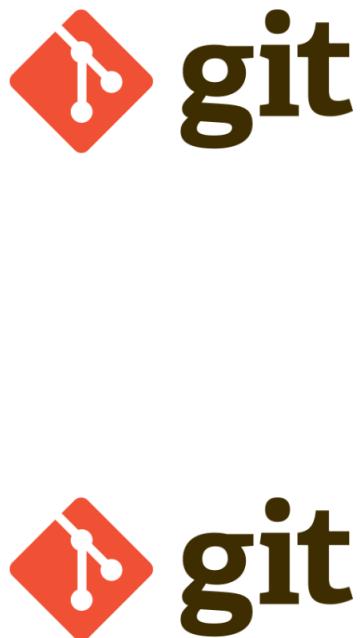
Part 1 – GitOps and collaboration

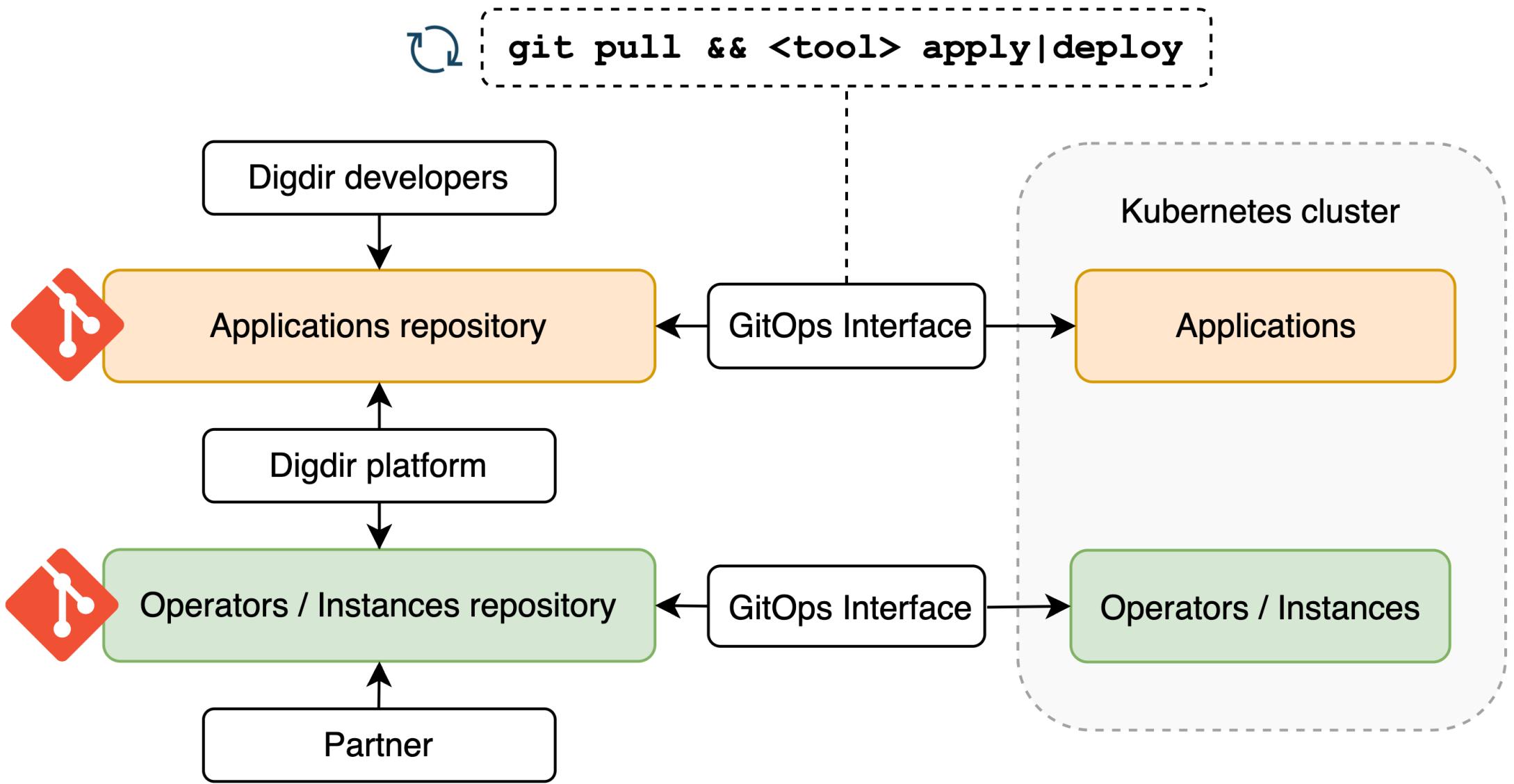
Part 2 – Application management and deployment

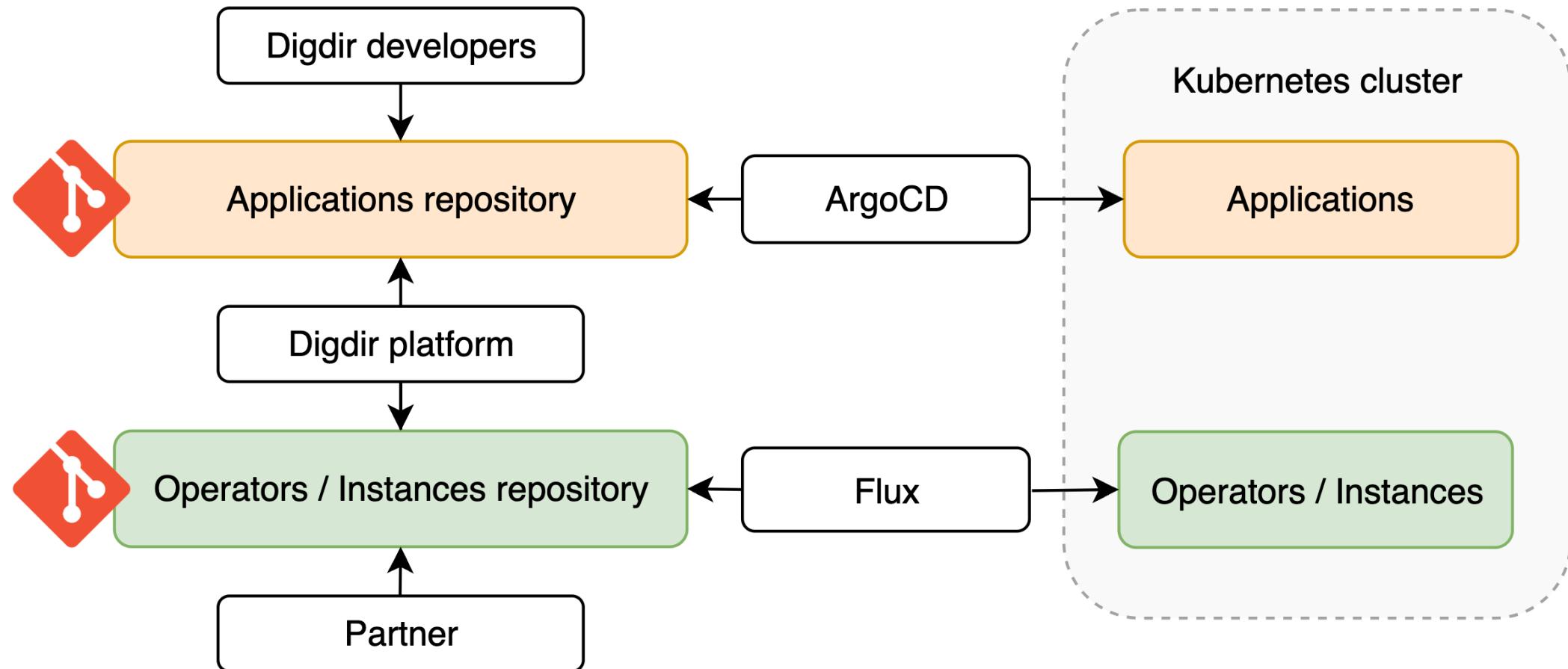
# Part 1



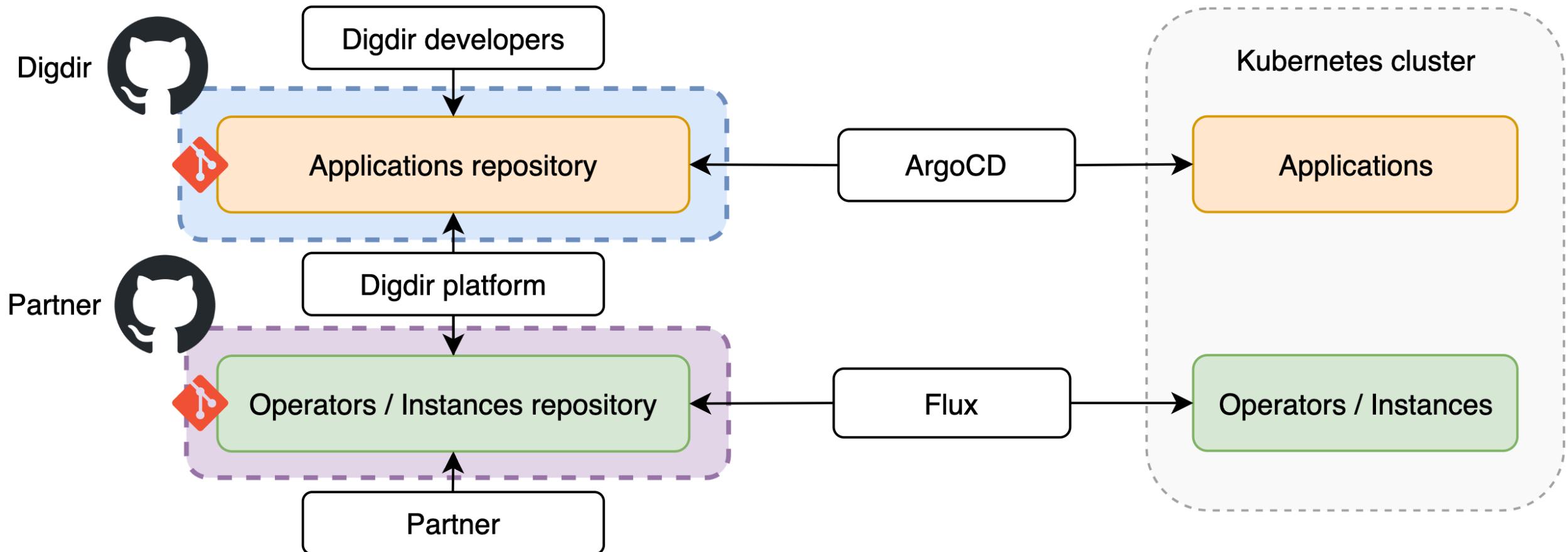


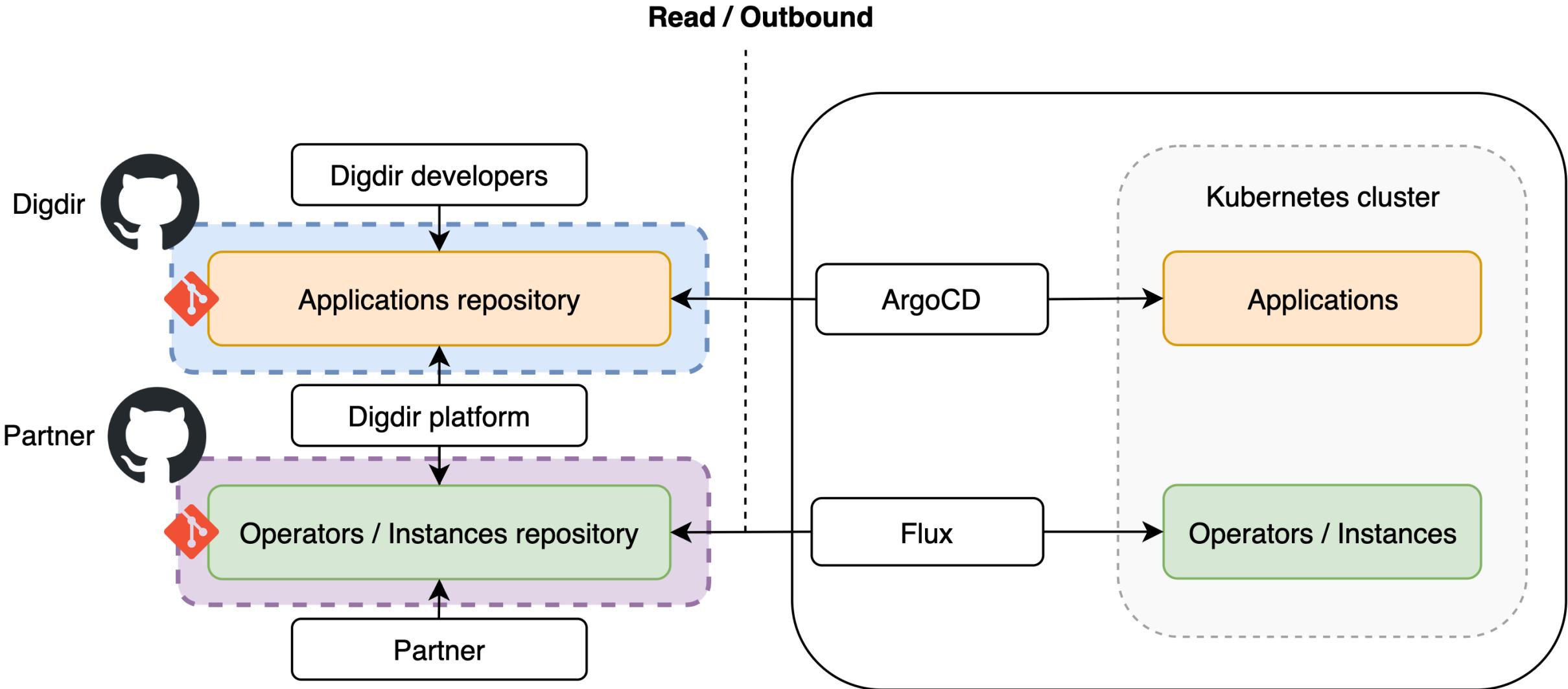


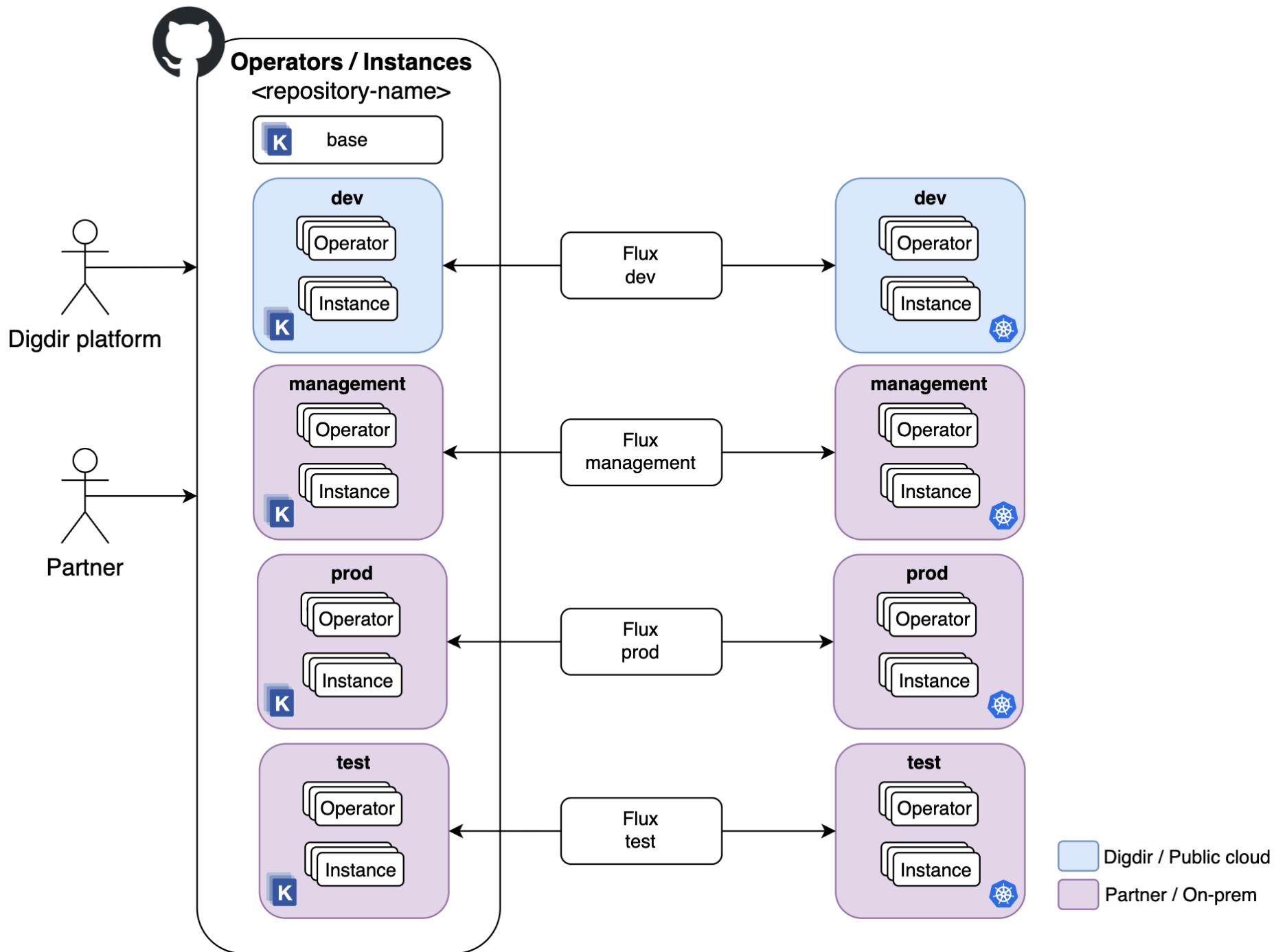


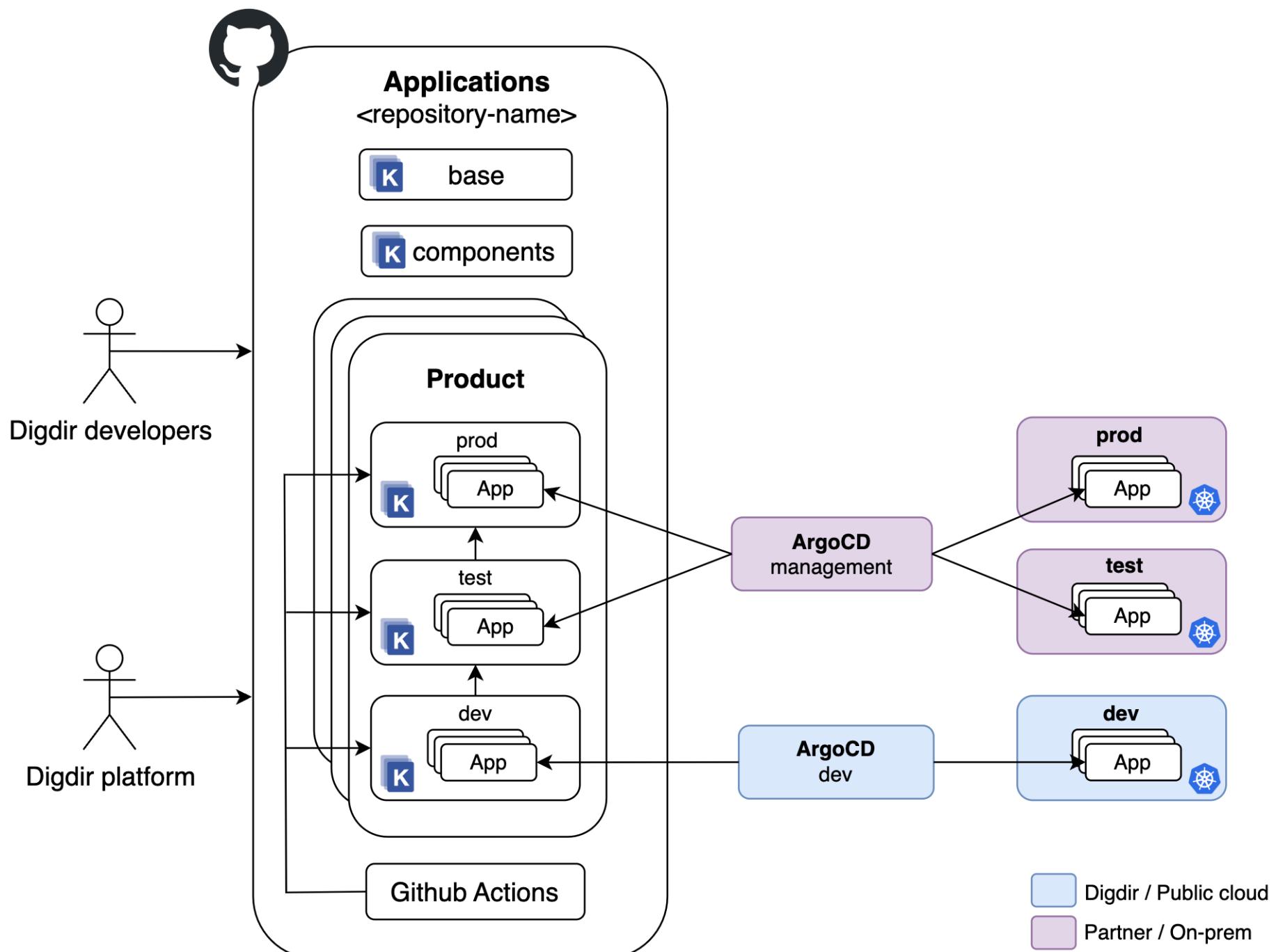


# Different organizations

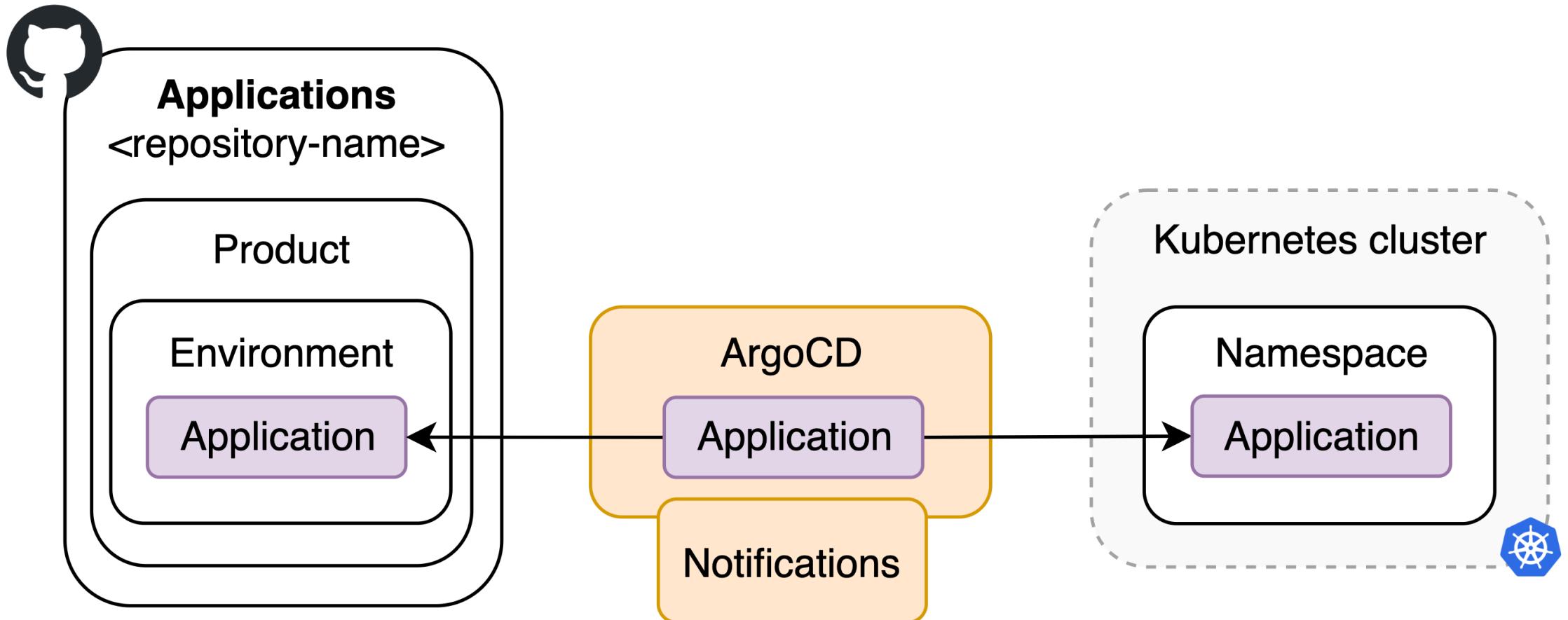




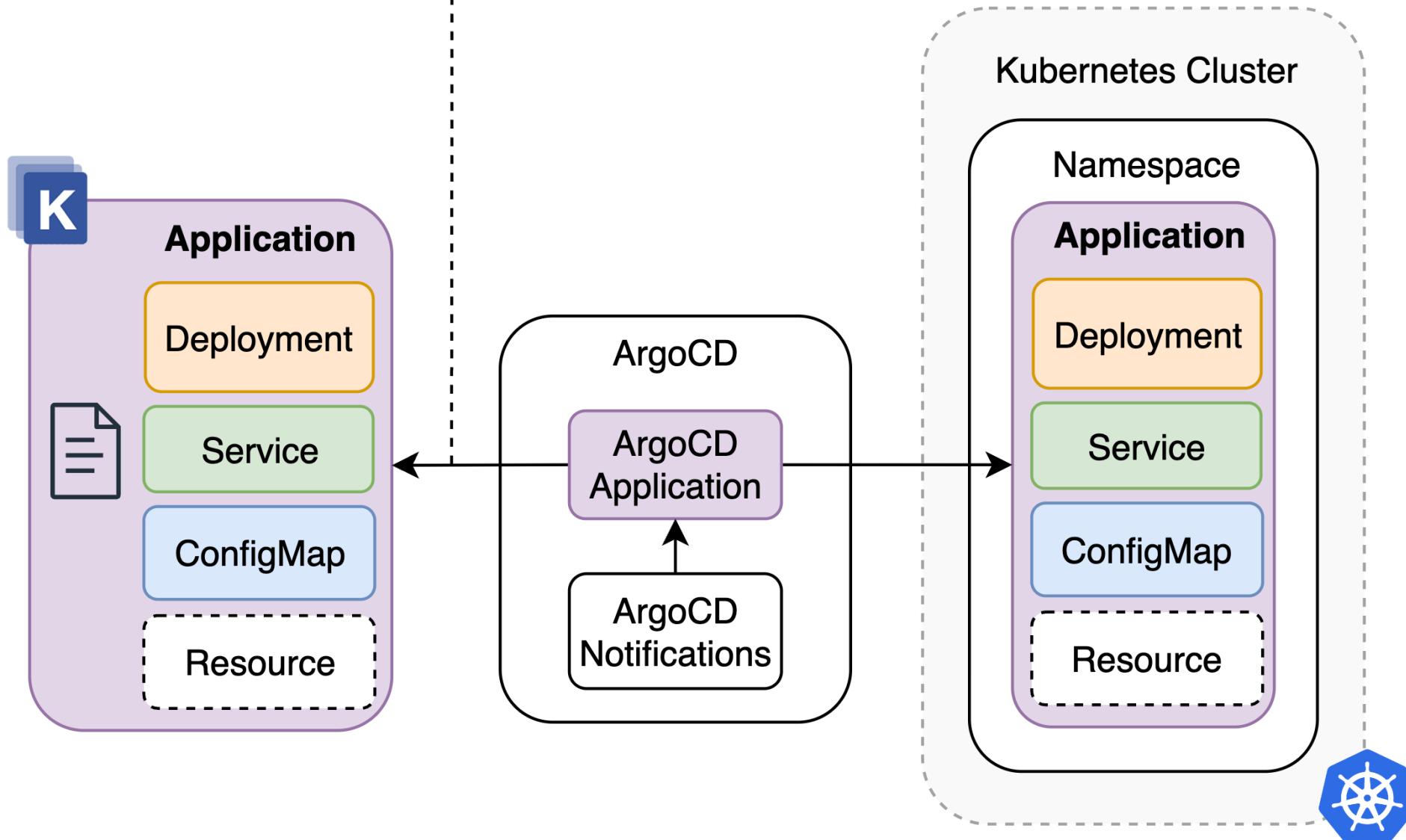




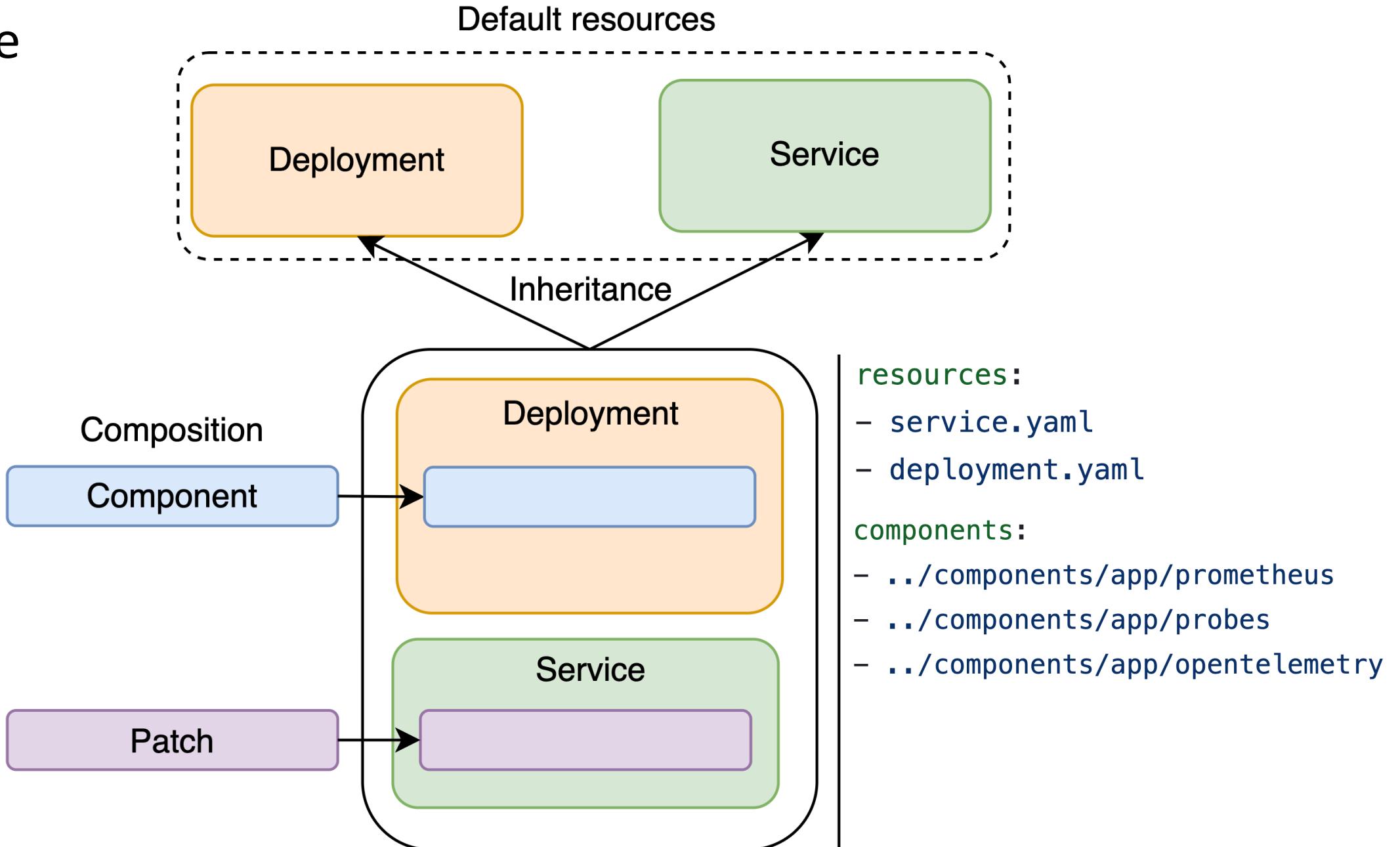
## Part 2



`apps/<product>/<environment>/<application-name>`



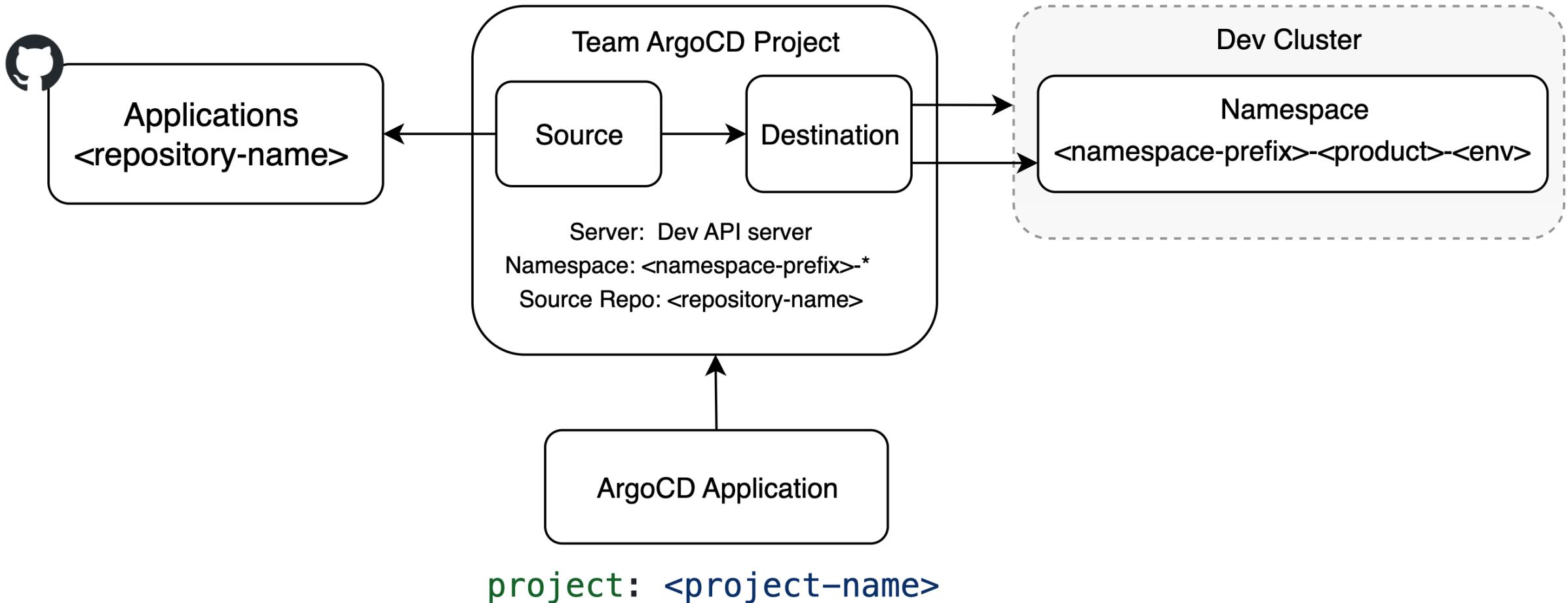
# Kustomize



# ArgoCD App

```
1  apiVersion: argoproj.io/v1alpha1
2  kind: Application
3  metadata:
4    name: product-x-app-a-dev
5    namespace: argocd
6  spec:
7    destination:
8      namespace: <namespace-prefix>-product-x-dev
9      server: https://kubernetes.default.svc
10   project: <project-name>
11   source:
12     path: apps/product-x/dev/app-a # ----- Key / Topic
13     repoURL: git@github.com:<organization>/<repository-name>.git
14     targetRevision: main
```

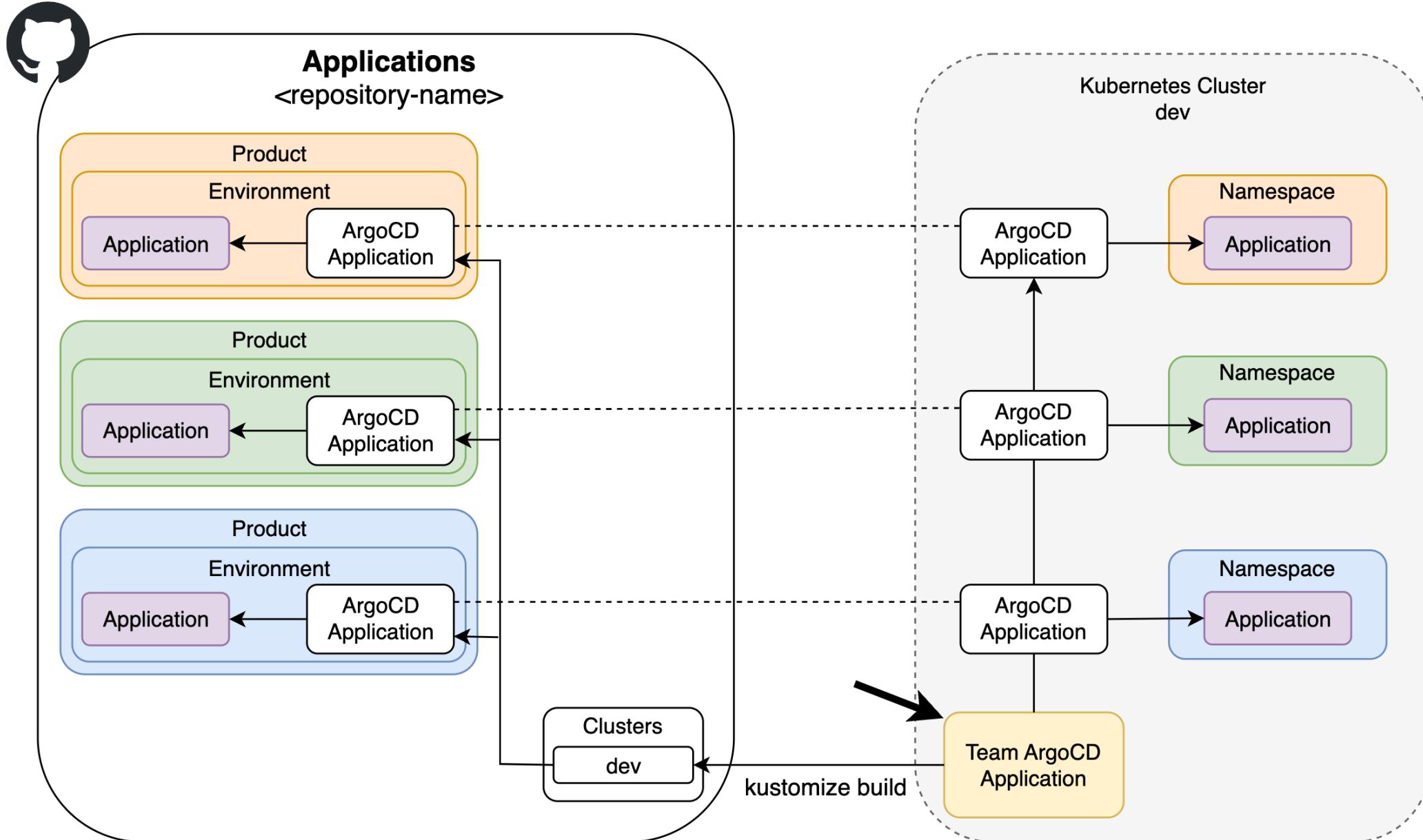
# ArgoCD Project - Source and destination control



# ArgoCD Project - Source and destination control

```
1  apiVersion: argoproj.io/v1alpha1
2  kind: AppProject
3  metadata:
4    name: <project-name>
5    namespace: argocd
6  spec:
7    description: "ArgoCD Project"
8  ----> sourceRepos:
9    - 'git@github.com:<organization>/<repository-name>.git'
10 ----> destinations:
11   - namespace: <namespace-prefix>-* 
12   server: https://kubernetes.default.svc
```

# “App of apps” pattern for routing apps to clusters

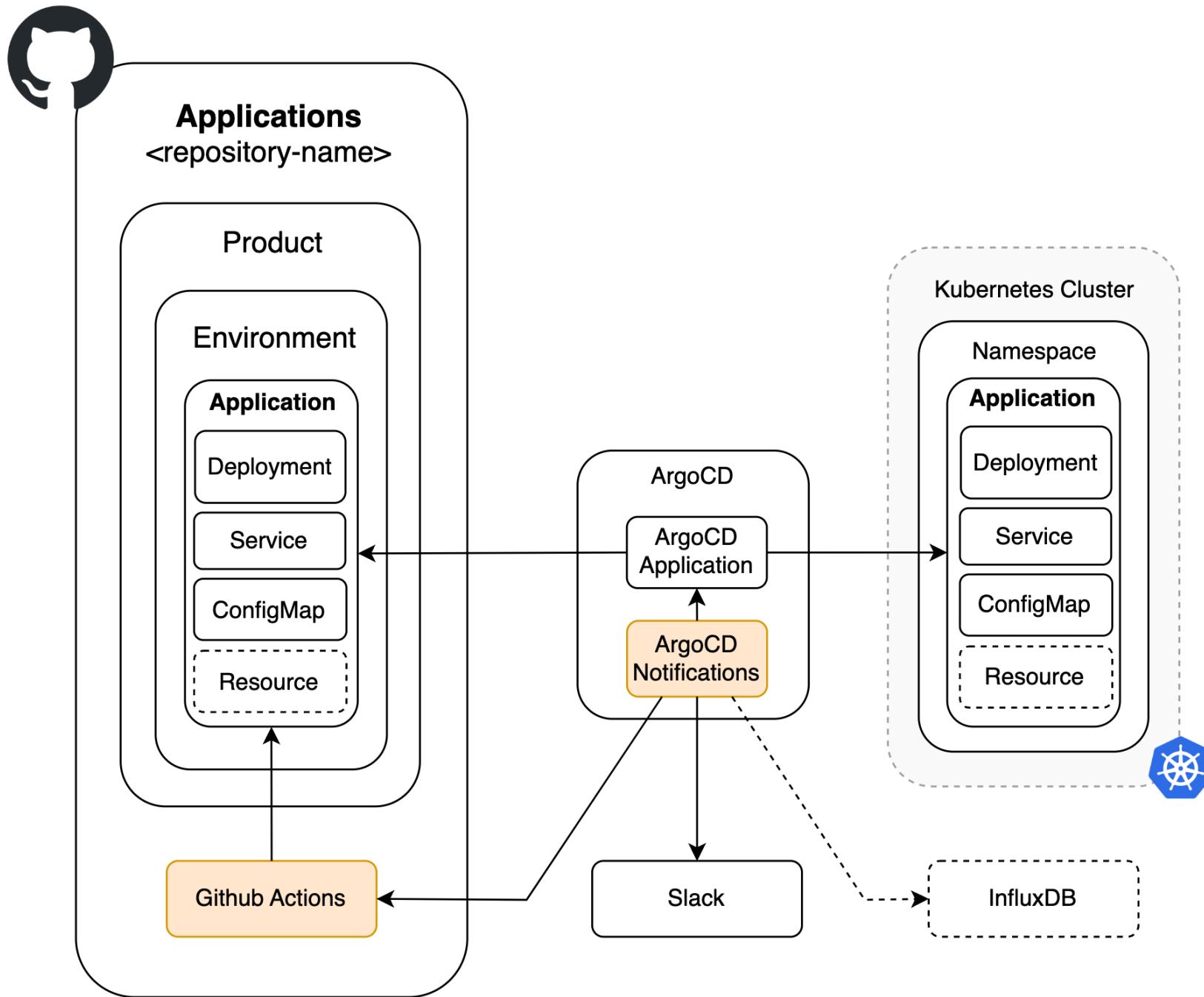


---> clusters/dev

```
1 apiVersion: kustomize.config.k8s.io/v1beta1
2 kind: Kustomization
3
4 resources:
5 # - ../../../../apps/<product>/<environment>/argocd-applications
6 - ../../../../apps/product-x/dev/argocd-applications
7 - ../../../../apps/product-y/dev/argocd-applications
8 - ../../../../apps/product-z/dev/argocd-applications
9
10 commonAnnotations:
11   notifications.argoproj.io/subscribe.dev-sync-success.github: ""
12   notifications.argoproj.io/subscribe.on-sync-failed.slack: channel-name
```

---> apps/product-x/dev/argocd-applications

```
1 apiVersion: kustomize.config.k8s.io/v1beta1
2 kind: Kustomization
3
4 resources:
5 # ../<app>/argocd-application
6 - ../app-a/argocd-application
7 - ../app-b/argocd-application
8 - ../app-c/argocd-application
```



## argocd-notifications-cm.yaml

```
1 trigger.<cluster>-sync-success: |
2   - when: app.status.operationState.phase in ['Succeeded'] and app.status.health.status == 'Healthy'
3     oncePer: app.status.operationState.operation.sync.revision
4     send: [github-<cluster>-sync-success]
```

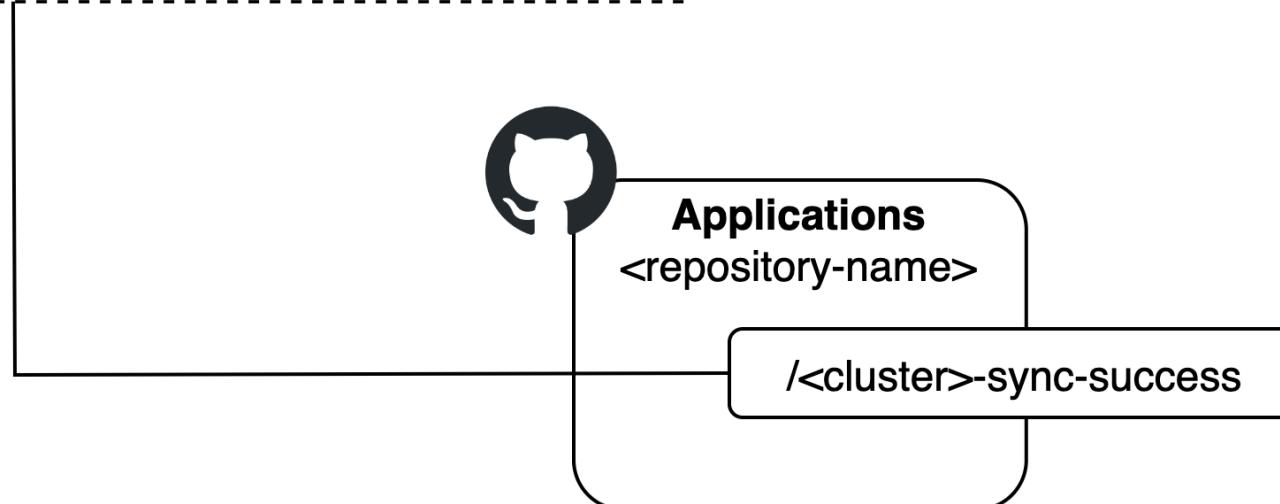
## argocd-notifications-cm.yaml

```
1 template.github-<cluster>-sync-success: |
2   webhook:
3     github:
4       method: POST
5     ----> path: /repos/{{call .repo.FullNameByRepoURL .app.spec.source.repoURL}}/dispatches # <--- repository_dispatch
6     body: |
7       {
8         "event_type": "<cluster>-sync-success", # <--- repository_dispatch types
9         "client_payload": {
10           "application": "{{.app.metadata.name}}",
11         ----> "revision": "{{.app.status.operationState.operation.sync.revision}}",
12           "namespace": "{{.app.spec.destination.namespace}}",
13           "server": "{{.app.spec.destination.server}}",
14         ----> "source_app_path": "{{.app.spec.source.path}}",
15           "startedAt": "{{.app.status.operationState.startedAt}}",
16           "finishedAt": "{{.app.status.operationState.finishedAt}}",
17           "images": "{{.app.status.summary.images}}",
18           "initiatedBy": "{{.app.status.operationState.operation.initiatedBy.username}}"
19       }
```

# Repository HTTP endpoint

`https://github.com/<organization>/<repo>/<api-endpoint>`

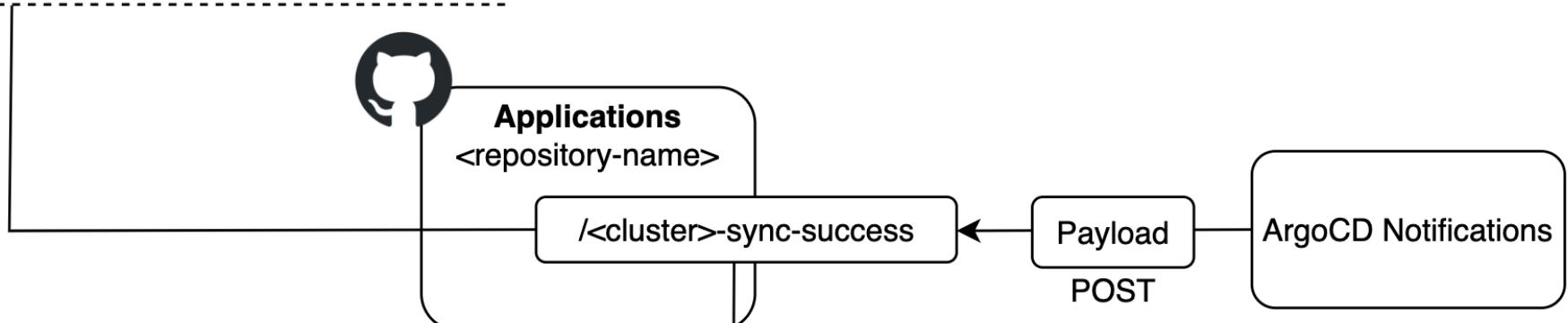
```
1   on:  
2     repository_dispatch:  
3       types: [<cluster>-sync-success]
```



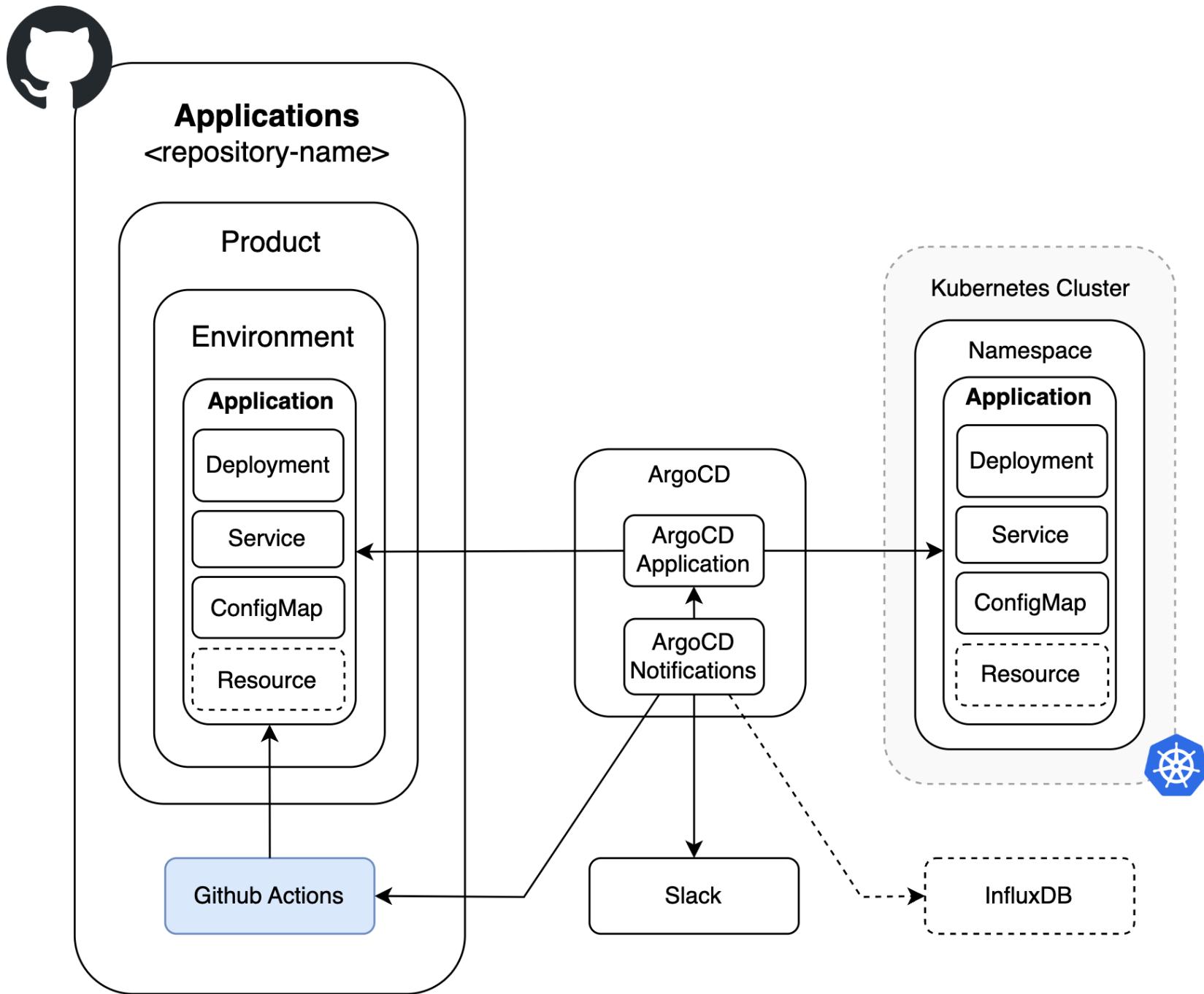
# Repository HTTP endpoint

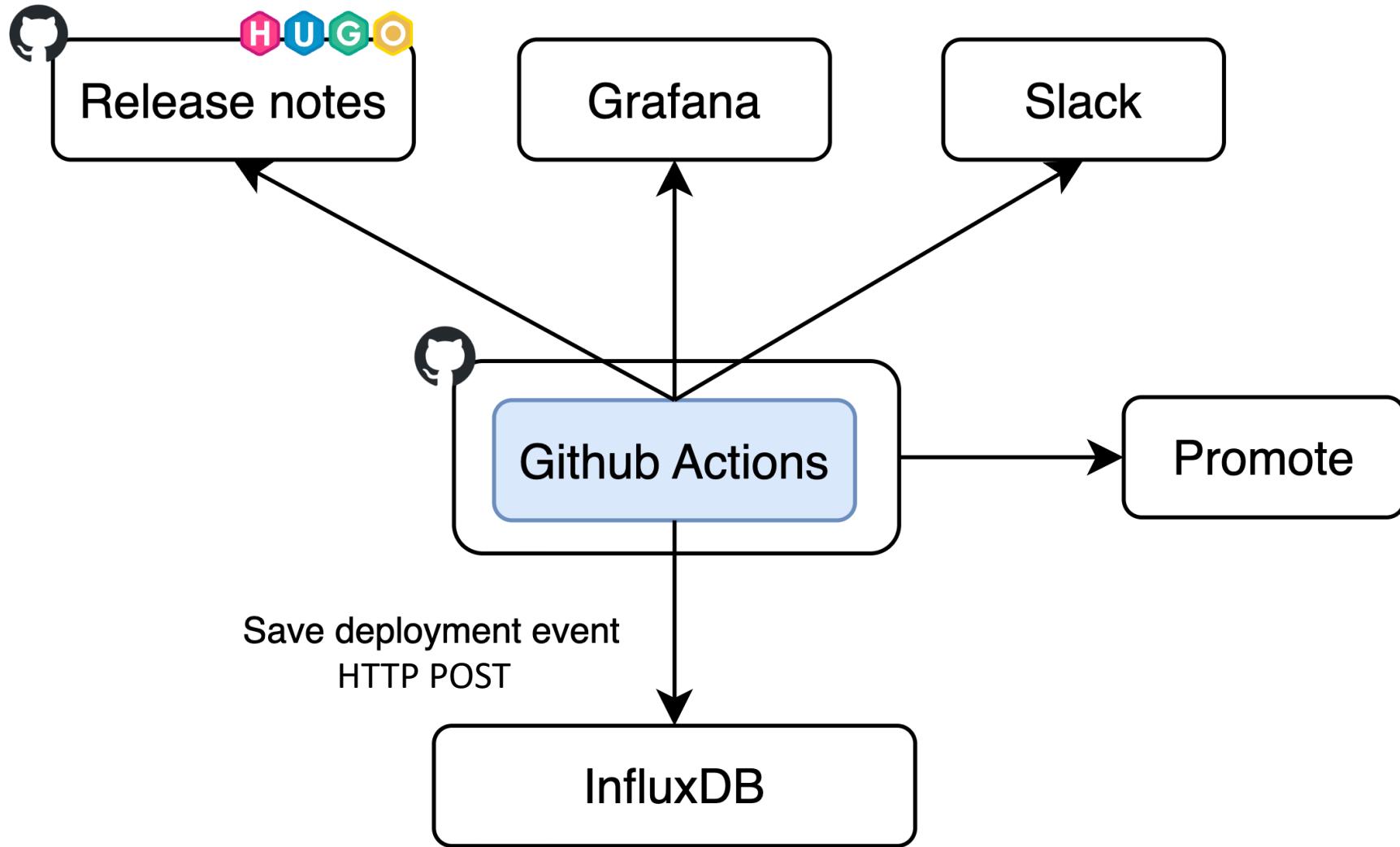
`https://github.com/<organization>/<repo>/<api-endpoint>`

```
1   on:  
2     repository_dispatch:  
3       types: [<cluster>-sync-success]
```



```
1   revision: f8627160289072264d30af7d311cf3fa6ba843ba  
2   source-app-path: apps/product-y/environment-a/app-b
```



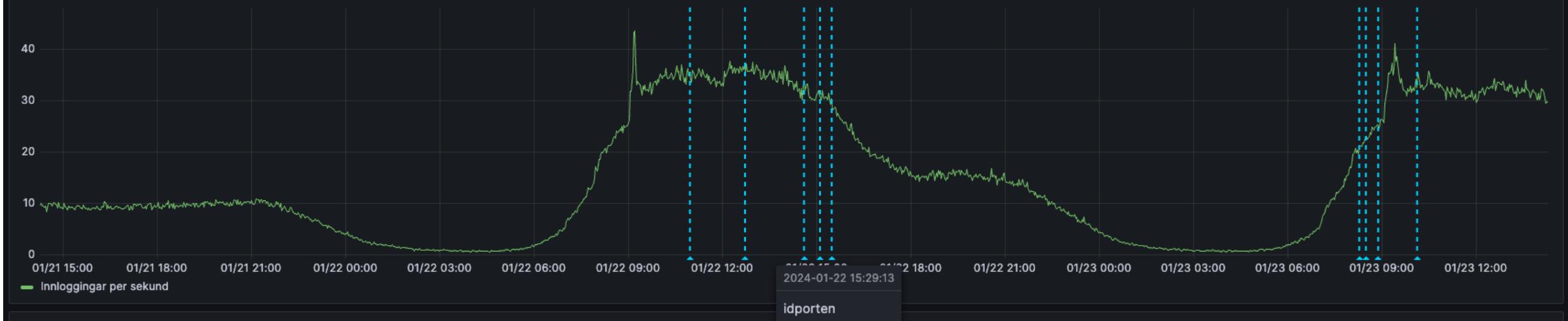


# Promote app-b from environment a -> b



```
1 source-environment: "environment-a"
2 target-environment: "environment-b"
3
4 target-app-path=$(echo apps/product-y/environment-a/app-b | sed "s|environment-a/app-b|environment-b/app-b|")
5 cp f862716/.../environment-a/app-b/image.yaml main/.../environment-b/app-b/image.yaml
```

ID-porten



Public dashboard URL



<http://tinyurl.com/vf4h9kxc>

