

Group Project ArgoCD Deployment

What is happening, step-by-step.

1. Starting with Backstage

A developer selects a Building Block template, fills in parameters (names, realm settings, namespaces, etc.), and Backstage generates a new repository with a consistent structure.

Keycloak Authentication Building Block

Deploy a preconfigured Keycloak instance and publish to your GitHub

1

2

3

4

Keycloak configApp repository (your GitHub)GitOps (Argo CD)Review

Realm name *

newrealm

Name of the realm to create

Default Client ID *

123

Default client created in the realm

Keycloak Admin Username *

admin

Keycloak Admin Password

admin1234!

This widget is insecure. Please use ui:field: secret instead of ui:widget: password

Password for the admin user

Login Theme

base

Allowed Redirect URIs

redirect_uri:*

http://localhost:3000/*

BACK

NEXT

Keycloak Authentication Building Block

Deploy a preconfigured Keycloak instance and publish to your GitHub

1

2

3

4

Keycloak configApp repository (your GitHub)GitOps (Argo CD)Review

GitHub owner *

css-bb

Repository name *

newstream

visibility *

private

BACK

NEXT

Keycloak Authentication Building Block

Deploy a preconfigured Keycloak instance and publish to your GitHub

Keycloak config

App repository (your GitHub)

GitOps (Argo CD)

Review

GitOps demoorg *

cse-bb

GitOps repo name *

gitops-config

gitops branch

main

cluster server *

https://kubernetes.default.svc

cluster namespace *

demonstration

argocd project

default

App manifests path

k8s

Path to Kubernetes manifests in the app repo

App repo branch

main

BACK

REVIEW

Fetch Keycloak base

2 seconds

Publish app repository

3 seconds

Render Argo CD Application manifest (for GitOps repo)

1 second

Propose Argo CD Application to GitOps repo

4 seconds

2. Scaffolding a new repo and building an image

It's important that the scaffolded template run its own workflow to build an image based on the new configuration

newestrealm

Private

Watch 0

Fork 0

Star 0

main

1 Branch

0 Tags

Go to file

Add file

Code

Scaffolder

initial commit

12f3e0b · 14 minutes ago

1 Commit

.github/workflows

initial commit

14 minutes ago

config

initial commit

14 minutes ago

gitops-skeleton/apps

initial commit

14 minutes ago

gitops

initial commit

14 minutes ago

k8s

initial commit

14 minutes ago

Dockerfile

initial commit

14 minutes ago

README.md

initial commit

14 minutes ago

catalog-info.yaml

initial commit

14 minutes ago

docker-compose.yml

initial commit

14 minutes ago

README

All checks have passed

1 successful check

Build and push Keycloak image / build-and-push (push)

Successful in 34s

Details

About

No description, website, or topics provided.

Activity

Custom properties

0 stars

0 watching

0 forks

Releases

No releases published

Create a new release

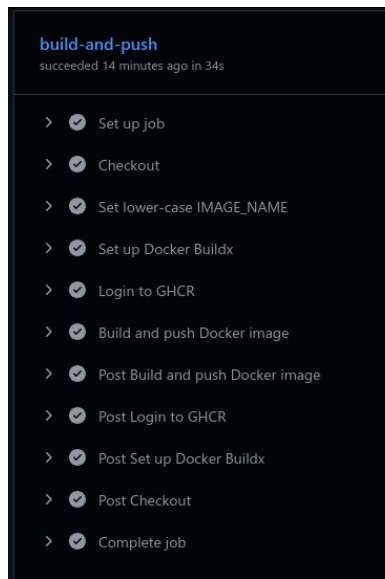
Packages 1

newestrealm

languages

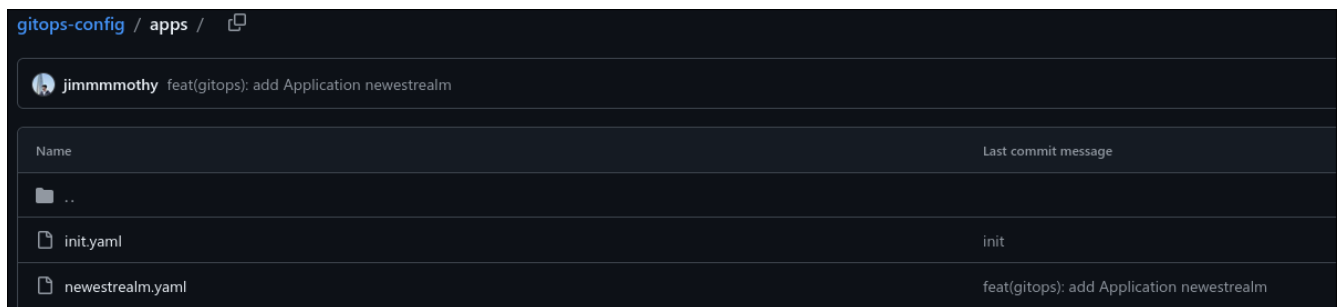
Dockerfile 55.9%

Nunjucks 44.1%



3. Updating the gitops-config repo

Backstage doesn't deploy directly to the cluster. Instead, it updates a dedicated GitOps repository.



4. ArgoCD watches for new deployments

Argo CD continuously monitors the GitOps repo. When it detects a new or changed Application, it generates the target Kubernetes manifests and reconciles them into the cluster.

