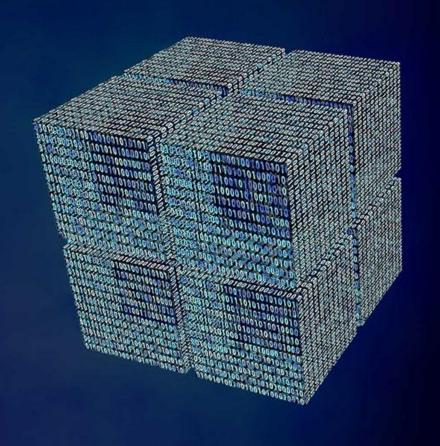


Agenda



Used tools 01 Infrastructure 02 Steps and overview 03 Result 04









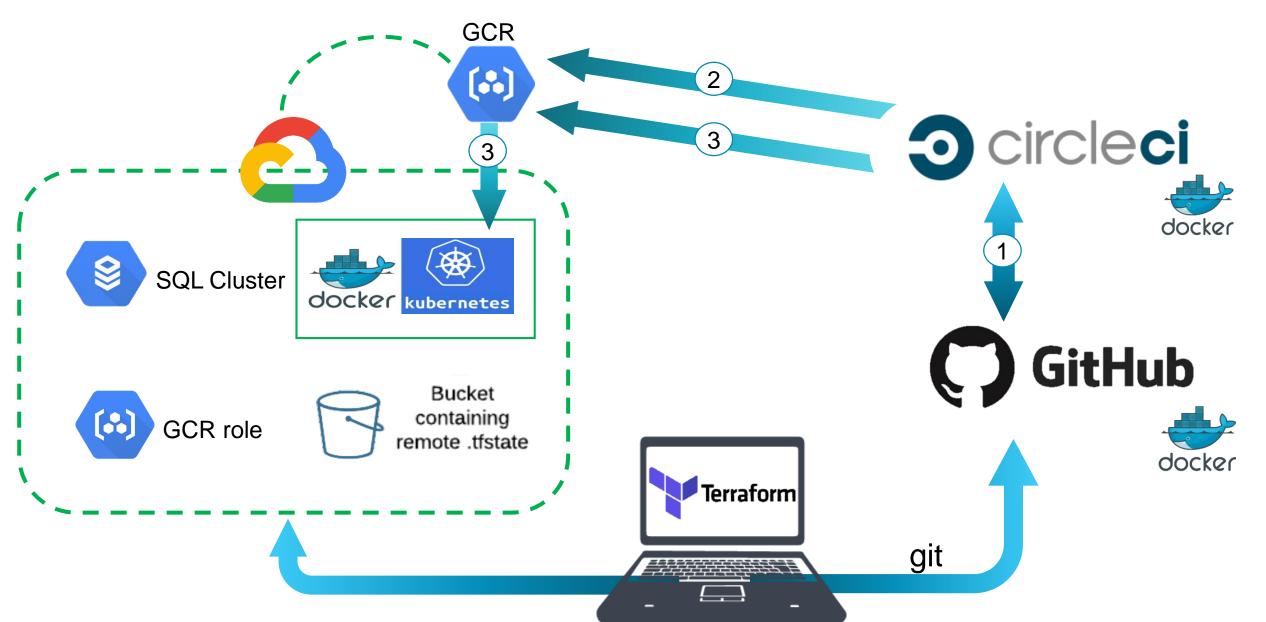






Infrastructure





Steps

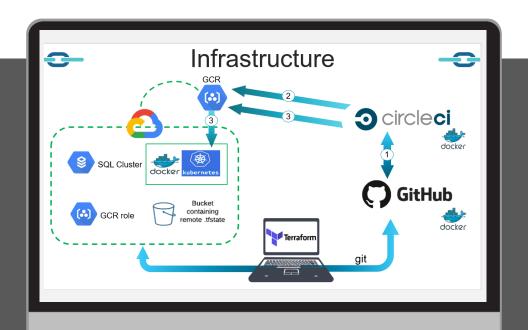
√ Cr

Creating a public repository on GitHub

Infrastructure building by Terraform

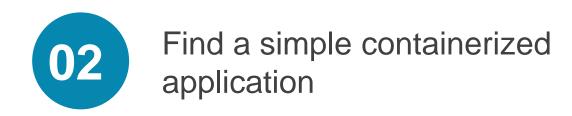
Writing a deployment manifest for k8s

Creation of 3 jobs (build, push, deploy)



Github

O1 Create a public Github repository

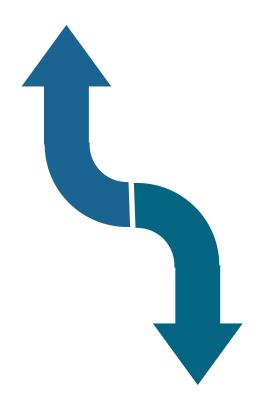


Copy that application code to my Github repo

Terraform

Creating terraform code for all needed GCP resources such as: GKE cluster, GCR, MySQL DB instance.

1 step



2 step

Use GCS bucket as a backend to store your terraform state files

3 step Provision the infrastructure

CircleCl

1 step

Set up CircleCI, initialize it with your GH repo

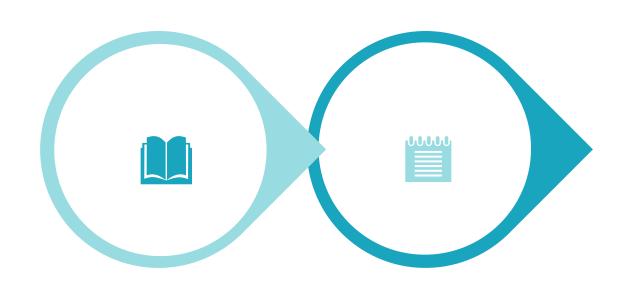


2 step

Creating CircleCI configuration file, store it in your repo. Customize your CircleCI pipeline with 3 jobs: build (setting up build environment, building an image), push (push built image to GCR) and deploy (deploy built image to GKE)

3 step
Creating CircleCI Contexts

Kubernetes



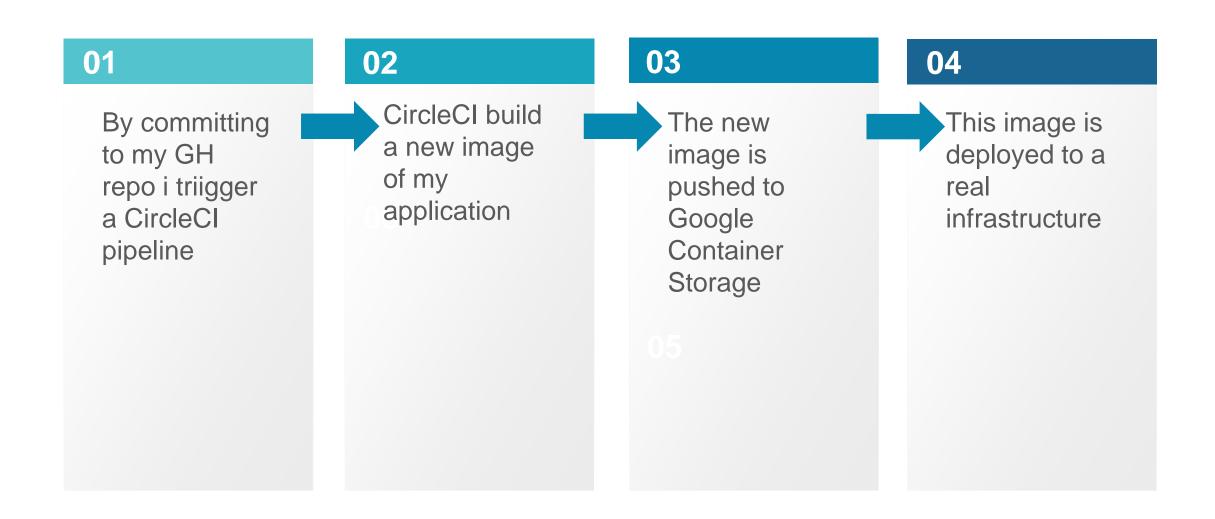
1 step

Creating Kubernetes manifests to manage my kubernetes resources: deployment

2 step

Store configuration files in my GH repo

Overview:



Result

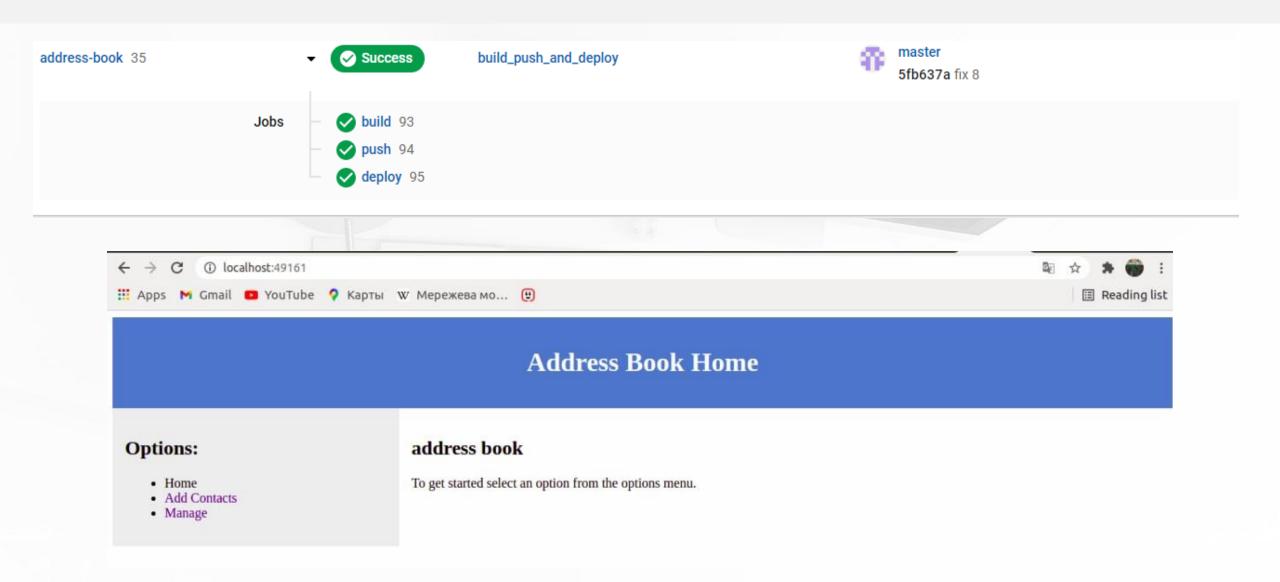


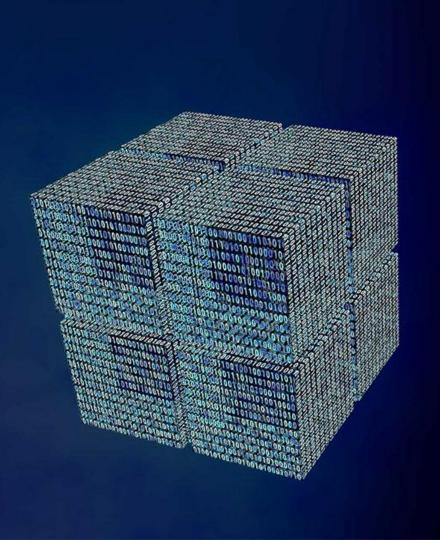
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Result





You have any questions?

