

Code repository (GitHub)

Deployment

All servers will be deployed via AWS EKS. As such, deployments will be provisioned via dockerfiles, kubernetes files and jenkinsfile(s).

A SQL / RDS server will be provisioned (separate instance) for data management.

API Service

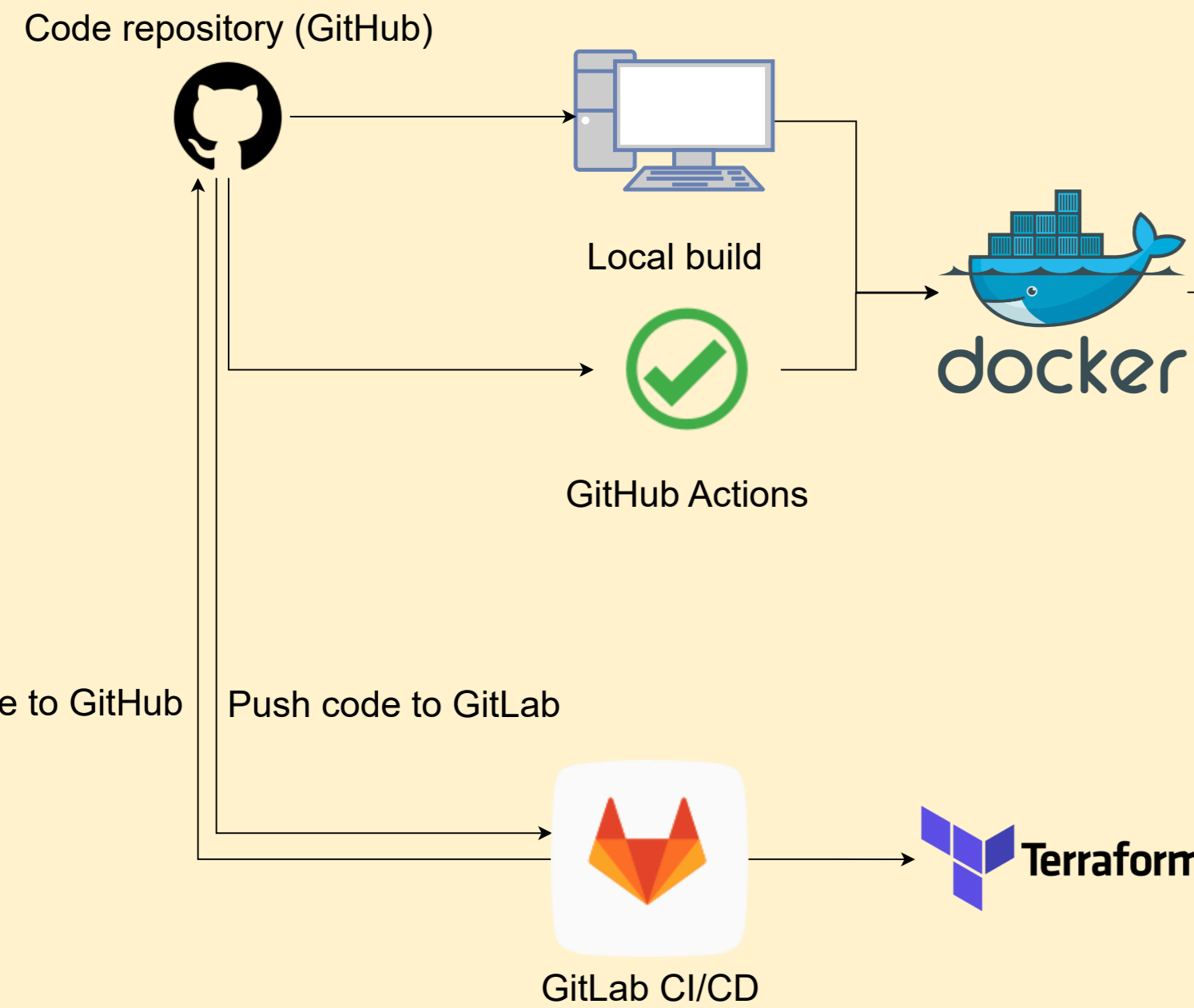
Plan A: Amazon Rekognition.

Plan B: Provision a custom server based on Python and the YOLO AI framework.

As our AI colleagues have not used Rekognition before - and it is a paid service (not within our budget), we will have to adapt one way or another.

Outside of Cloud environment(s) (1)

Build / Code layer



Environment / Presentation layer

STAGING ENVIRONMENT



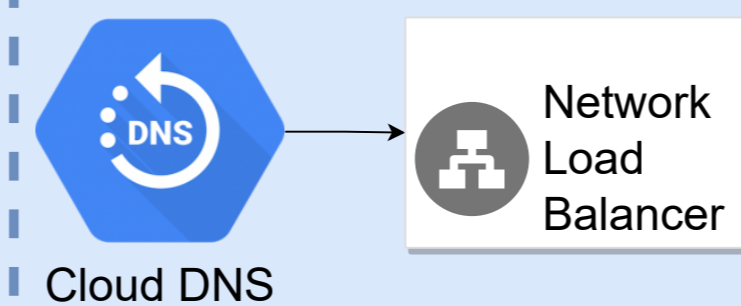
PRODUCTION ENVIRONMENT



Inside of Cloud environment(s)

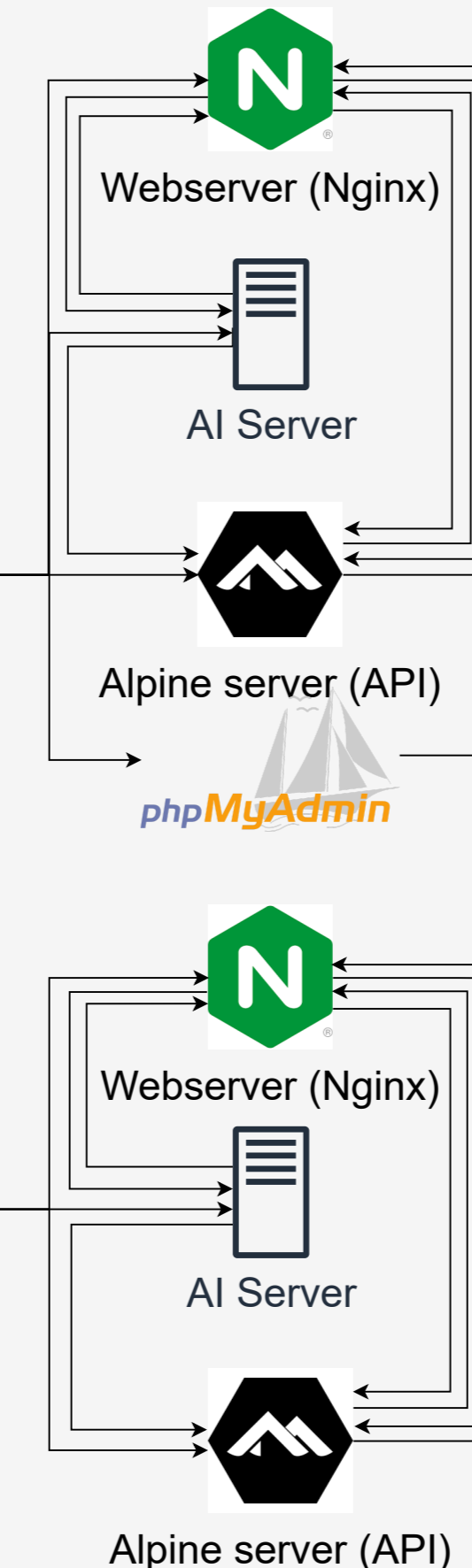
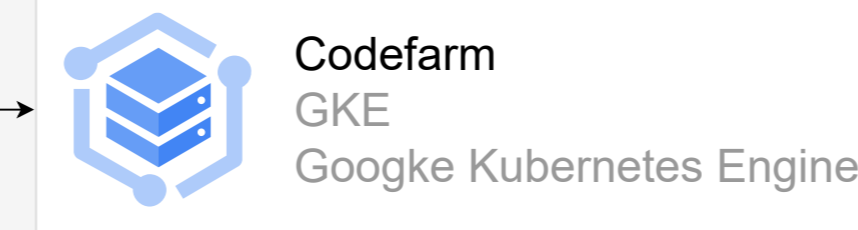
Network layer

Internal network layer

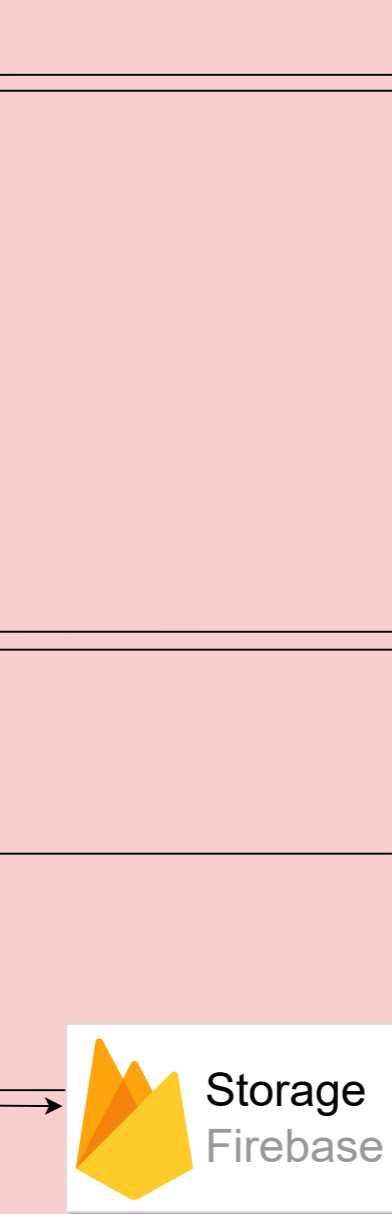


Application layer

Docker Container provisioning



Storage layer

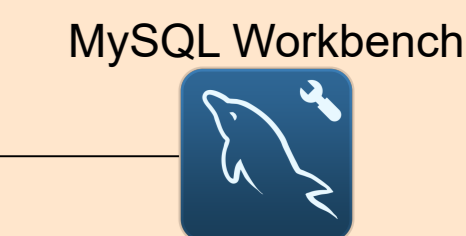


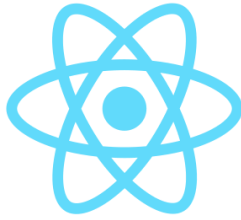
Database layer



Outside (2)

Storage layer



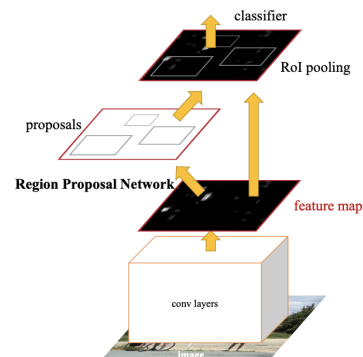


Web application framework

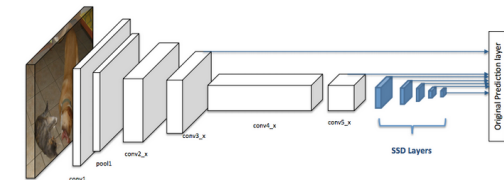
React JS



API framework

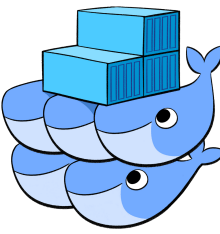
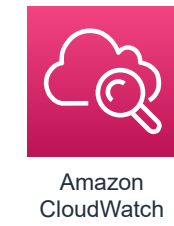
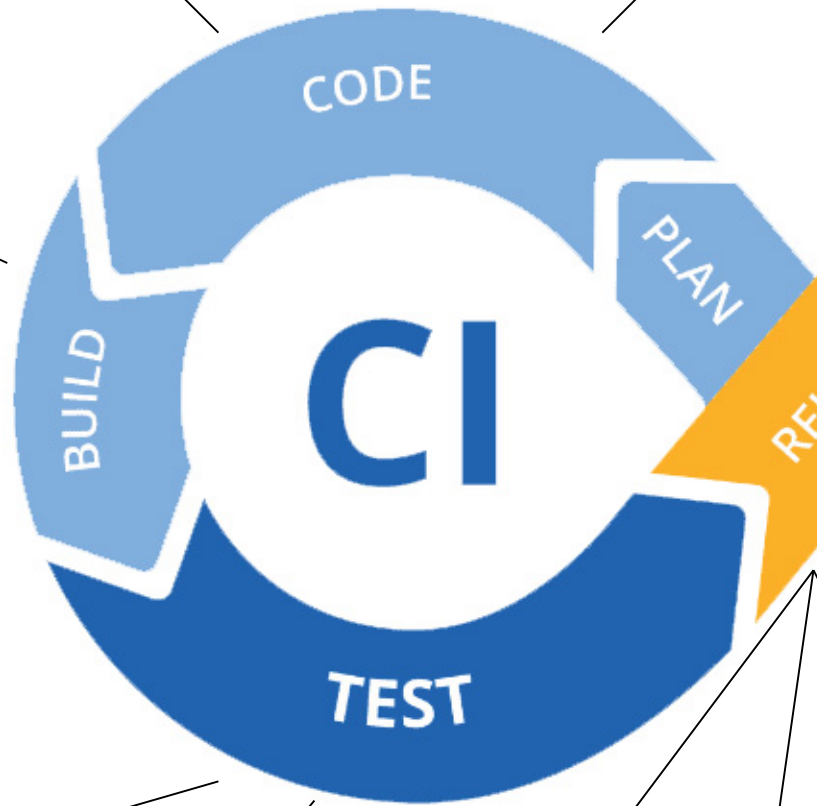


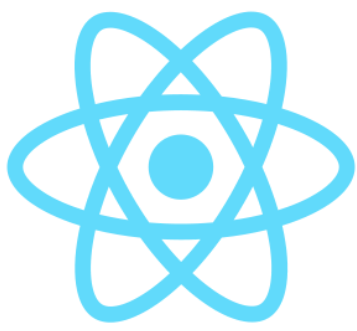
Faster R-CCN



SSD

AI framework





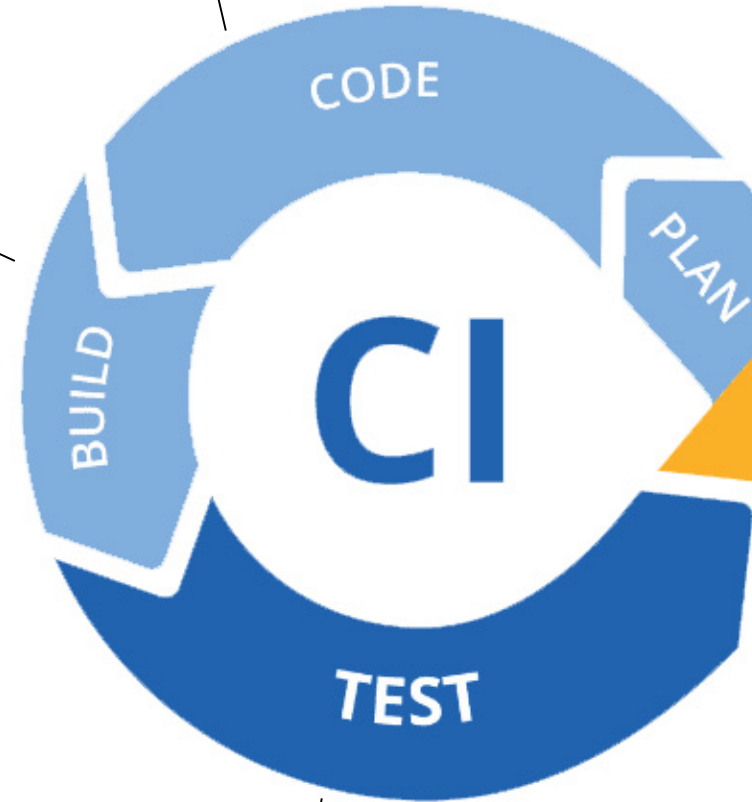
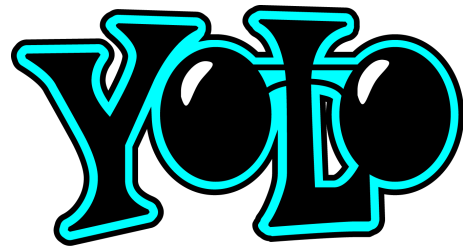
React JS

Web application framework



API framework

AI framework



Google Cloud



Google Cloud



pytest