DEVSECOPS TEST
Hands on technical test

IMPORTANT NOTE

As part of this exercise you can use a free aws tier account, qwiklabs account or something similar that you can work on top off, we **won't** require this app to work live, **won't** need access to the AWS account. The deliverables will need to be sended on a tar file, make sure you roll back all your resources in order to avoid getting billed.

Test Overview

We want to dockerize a simple web app, and here's what we expect you to do:

1. Choose a programming language you feel comfortable working on and develop or use a simple web application project scaffold app.
2. This project needs to run locally using docker and needs to be deployed to AWS ECS.
3. You can use a free github, bitbucket or aws code commit account to host your project in order to test the ci/cd process.
4. Build up a CI/CD you need to use AWS suite ej: code pipeline, code build, code deploy.
5. Develop IAC in Cloudformation.
6. Documentation on how you envision all the environments, and workflow of the project and propose an alternative to env variable handling.

Deliverables

In the left corner you will find each of the items we expected you to complete, and in the left side how we expect to receive them on the tar file.

Items to work on	Deliverables
Simple web app	Source files of the project, ej (.py, rb, php.)
Local project docker setup	Dockerfile, docker-compose files

CI/CD	ymls files, terraform, cloudformation scripts
IAC	Terraform code, Cloudformation scripts
Documentation	Txt or pdf file with instructions on: ● How to run the project locally using docker. ● What was the major issue that you had and how did you solve it. ● How you envision all the environments ● How you envision the workflow of the project ● What alternative you propose for env variables management ● How would you improve availability in a production environment. ● If you ran out of time, how did you envision your finished project? ● What is your recommendation for future work?
Tar file	With all the above