DevOps Engineer - Practical task

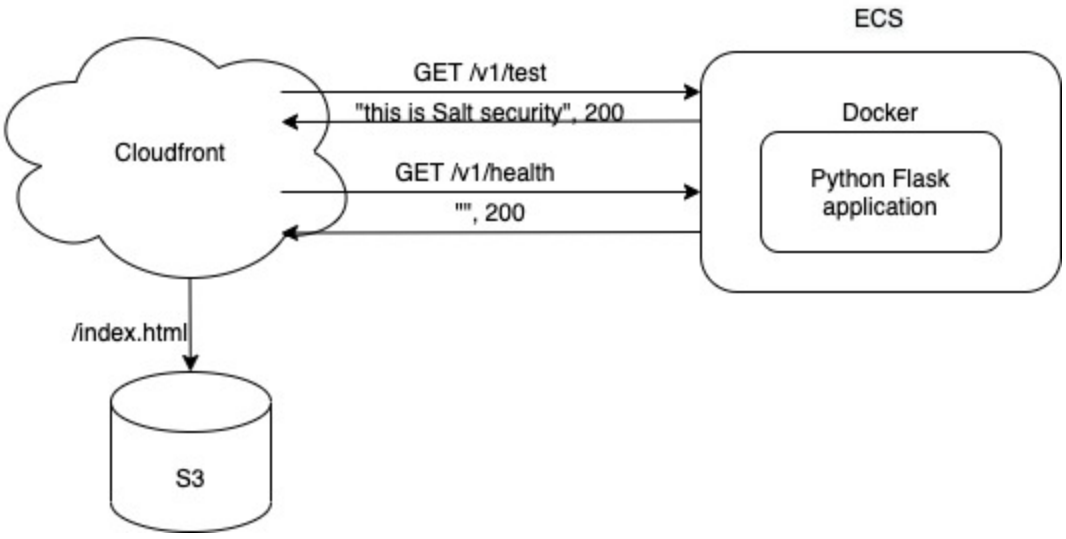
Hi and thanks for taking the time to work on our DevOps home assignment!

We need your help in planning, implementing and deploying our company's API service using IAC, ECS and cloudfront over AWS.

Note: IAC can be implemented with Terraform or Pulumi

This project includes the following items

1. Python application
    - Based on Flask, that contains the following routes
        i. GET /v1/test - returns "this is Salt security" message and a 200 status code
        ii. GET /v1/health - returns empty reply with a 200 status code
    - The application should be dockerized, with configurable port and hostname through env vars.
2. Upload the docker to ECR, create a new registry.
3. IAC project that:
    - Create an ECS cluster and deploy the application over **us-east-1**.
    - Based on the */v1/health* route, make the application highly available.
    - Using cloudfront we would like to route all requests containing */v1* to the ECS cluster while all other requests should be pulled from an S3 bucket. Please save and use Salt Security's homepage to store in S3 as index.html .



The solution to the assignment must include:

1. The Python & IAC code, and an example of how to execute it along with any additional parameters needed.
2. Relevant URLs for testing the functionality.

General guidelines:

- You can use any tool and online resource you want, and reach out to us for consultation - as you would if you were building this framework as an DevOps engineer at Salt Security :-)
- The implementation should be clean, readable and extensible. You are building an DevOps framework that initially creates basic services, but should be easily extended with other services and functionality.
- Make sure to present the tradeoffs you made as part of presenting the solution during the design and implementation review.

Good luck!