

# Coding Exercise

## Description

- For the purposes of this exercise, it's expected to implement an application that creates infrastructure for a web application
- It's expected that you use Python for this exercise
- It's expected that the infrastructure is created on AWS
- This exercise is meant to allow you to display your skills and experience, the use of best practices is expected
- The use of a database is not required
- It is expected that the take-home part of this should not take more than 3 hours to complete
- If you move onto the next phase of the interview, it will be expected that you bring this code in for a peer exercise where you'll be expected to iterate on this code

## Scenario

A new service needs infrastructure to run on. This service is HTTP service that on request returns

HTTP 200

Hello World

As a member of the infrastructure team you are asked to develop an application that can create the infrastructure required for this new application.

I.e. usage of such an application

```
>python createWebInfra.py
```

Application created and available at <link>

Infrastructure Team Requirements:

- The infra team runs all web services on either ec2+load balancer or k8s, this application should create infrastructure using one of these (only implement one)
- Tag all the related service infrastructure with 'hello-world-service' (for ease of auditing)
- Security: Ensure that no other services/internal infrastructure or external can reach this infrastructure except via the public load balancer on port 80

Final notes:

- You can run any webserver or OS (we like Nginx and Linux).
- (Along with the infra, you'll also need to write the new service. The webserver should be a 'stub' and only return 200 Hello World)