Patchwork DevOps Assessment

Firstly, congratulations on getting to this step! We hope you're enjoying the process so far and that this step won't be any exception.

At this step we're doing a light assessment to understand your technical skills towards commonly used tools in the DevOps space, namely containerisation (e.g. Docker) alongside your CI/CD and automation skills.

The challenge

The provided source code is for a web application written in Go and a Dockerfile which will build a viable container for you to run. The goal of this challenge is using Infrastructure-as-code (IaC) tooling such as Pulumi or Terraform to deploy this container in an automated-as-possible fashion to AWS and have it be reachable from the wider internet while following best practises.

In addition to the challenge…

We would like you to write a small document (around 500 words) in terms of how you would:

- Use best practises to secure the application.
- Updating the application once deployed.
- Deal with application issues (e.g. HTTP 500 error responses).
- Include how you might automate parts of the process you may not automate as part of this challenge.

Finally – any steps you are unable to automate for this challenge: please provide step by step instructions as to what we may have to do as we will aim to deploy your solution in a fresh AWS account. You do not need to include the steps of generating security keys / authentication other than where we may need to place the keys.

Upon Finishing

Once finished, either link us to your repository (GitHub, Bitbucket etc) or provide a zip of the files alongside any deployment instructions needed. The original files (unmodified or modified) we provided should also be included.

Some extra notes

- We're not looking for a perfectly orchestrated system. This is a light challenge to gauge your skills.
- Don't go spending any money! This challenge can be completed entirely free of charge in a fresh cloud account. And please remember to tear down your environment once you're finished (Patchwork are not liable for any costs incurred)!
- You are free to modify and fork any file in the code repository *except* **main.go** and **go.mod .**
- Please *don't* utilize AWS Cloudformation as we generally consider this to be outside the scope of what can be done with this assessment.
- You do not need to use the Terraform SaaS or Pulumi SaaS offerings and any configuration can be performed / configured locally / via S3 buckets.

If you have any issues, please feel free to reach out and we'll clarify where we can!