

# DevOps assignment

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At Everon we run a large part of our API on a Kubernetes cluster that is hosted in Google Cloud Platform. And this is done using Infrastructure as code with Terraform. So being able to work with and maintain this is critical to ensure we can scale in a stable way.

The task is to deploy a simple microservice to a GKE cluster that runs on GCP.

## General Instructions

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Use the following credentials to setup access to the cloud:

- project: `evbox-infrastructure`
- zone: `europa-west1-d`
- network: `default`
- subnetwork: `default`
- access key: `e0905a2dcabe.json`

You can spend as much or as little time as you want, but try your best to apply production standards.

## Requirements

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- Use Terraform to create & deploy all required resources
- Use Google Cloud Storage as a backend and `devops-assignment` bucket to share the state file with us
- Use `nginxdemos/hello` Docker image as the target microservice
- Run the microservice in a replicated but cost-efficient configuration
- Provide usage instructions in `README.md`

## Added awesomeness

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- Expose the service through a DNS record
- Setup the Let's Encrypt certificate and enforce a secured connection

## Questions!

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Please write the answers to the following questions in a file and add it to the final zip file along with your results.

- What is your favourite feature that GCP or it's competitor has recently brought to market, and how are you intending to use it?
- What future or current technology do you look forward to the most or want to use and why?

Thank you for your time in completing this assessment.