

DevOps Code Test

Write Terraform code to create the infrastructure specs below. The use of Terragrunt is welcome, but not required.

You don't need to write code for deployment of the application, however you should consider how this would be done.

Important: You should consider the long-term security and cost effectiveness of your infrastructure. You should aim for your code to be deployable to an AWS account.

Infrastructure Specs:

We want to host a simple web application in AWS, which will be accessible to our clients.

These are the prerequisites for the **application** to function correctly:

- Access to S3 to get static resources.
- A Ubuntu 20.04 Operating System.
- Be able to listen on a TCP port to respond to web requests.
- At least 15GiB of local storage.
- 2GiB of memory and 2 CPUs.

These are the prerequisites for the **infrastructure**:

- A HTTPS endpoint for clients to connect to the website served by the web application.
- A VPC (you can use AWS's default VPC or you can create your own)
- EC2 instance to host the web application.
- IP whitelist access to the website.
- Monitoring of the EC2 instance.
- Hosted in the Europe Ireland region.