

Hiring Challenge

Position: DevOps Engineer

Requirement 1

Write a program that provides an HTTP/REST API to store and retrieve files. It should support the following features:

- Upload a new file
- Retrieve an uploaded file by name
- Delete an uploaded file by name
- Bonus point: if multiple files have similar contents, reuse the contents somehow to save space.
- Code should be put to Version Control services like Github, Gitlab,...

You can use any framework or library you are comfortable with. For your information, the development teams will use languages such as node.js for front-end/back-end applications, and python for data processing...

Requirement 2

We would like to deploy code of **#requirement 1** to AWS by following functions:

- Infra and application configuration should manage by code
- Our infra is using AWS, we would like to get IaC code support AWS provider
- CI/CD to deploy the application code(**#requirement 1**) on infra
- IaC code should be put into Version Control services like Github, Gitlab,...

For your information, we are managing applications by Container technology and we are using Terraform as IaC and Ansible as Configuration as Code. We don't expect you will make this infra setup online, but you need to make sure the code can work after you give us the Github/Gitlab repo, since we will try the code on our test environment.

What we look for in the project:

- Awareness of performance and security implications
- Clean code style
- Compliance with standards
- Enough documentation :)
- Appropriate use of tools with cost efficiency

Duration

One week since we send the exam invitation.