

# Plan A - DevOps case study

We want you to help us creating a highly availability solution on AWS to reliably deliver a product to your customers. Please pay attention to the following details in order to get started.

## Details

- Create a **network with public & private subnets** (please consider a meaningful CIDR).
- Create a **load balancer** which redirects requests from port 80 to 443.
- Create an **AWS ECS Fargate cluster** and run 2 tasks there using a standard Nginx image (round-robin).
- (Optional) Create a **Blue/Green deployment pipeline** (preferably using GitHub Actions) to deploy a new version of the image without downtime.
- If you **could not implement** it: **Explain** the whole **deployment process** in a CI/CD pipeline, from code to production. You can make use of text, diagrams, slides, etc. The solution will be discussed during the interview.

## Hint

- There is **no** single right solution; accordingly, some details are intentionally vague. Assumptions may be made as long as they are documented appropriately.
- There are **no** bonus points for the most complex design. You impress us most with a good compromise between pragmatism and technical excellence.

## General rules & conditions

- Make use of **Terraform** in combination with **Terragrunt**.
- Do **not** use open source modules (i.e. implement from scratch).

## Deliverables

- Send us your solution once you've completed the challenge.
- Add a README file and include any relevant information you consider important: architecture diagrams, deployment steps, etc.

## Time required

4-5 hours max.

## Legal Notes

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