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Finlex DevOps Challenge

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DevOps position assignment

IMPORTANT

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Please carefully read this information.

- This challenge is especially designed for **you**. Content of this document is confidential. **Do not** duplicate or distribute without written permission from Finlex GmbH.
- You retain the rights to the source code and all the related development. You can delete it afterwards or open source it.
- The output will not be used by Finlex GmbH or any party affiliated with it other than evaluating your skills for the purpose of the hiring process.
- **Do not** make any reference to Finlex and/or its intellectual properties and/or employees in your submission.

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General Guidelines

- Do not put any reference to Finlex in your codebase.
- Create a publicly accessible repository (github or gitlab prefered)
- Commit often (make your progress visible).
- Limit is 1 week
- Use this time as you wish but bear in mind you have to document, build an application and deploy it
- Use any framework or tool you like.
- It is OK to copy and paste snippets as long as you reference them.
- It is also OK to not to finish everything.
- Just deliver the best you can within the constraints.
- Send your feedback and the link to the source code after the specified time limit.

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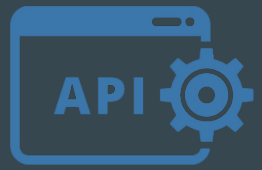
Highly Recommend

- Do not over-engineer, do not aim for max-optimisation.
- Do not get stressed.

Deliverables



Backend Application

- Node.js, Python, Golang
- A Restful API over HTTP
- API should display its current version.

Documentation

Please try to document your thought processes. (Readme.de is a good place)

Nice to have:

- Setup
- Install instructions
- Usage
- What would be required to take this to production?

Deployment/Setup

The application is supposed to deployed on AWS ECS fargate.

Your application does not have to be deployed to the AWS cloud, just the terraform and scripts file needs to allow us to do deployment.

But you should provide the declarations and documentation for reproducing a working setup easily.

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The Challenge: Versioned Deployments

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The Application

Write a simple application to display its version.

- A simple restful application
- Responds to '/version' http endpoint and display its current version
- Packaged as a docker image
- Any commands/scripts used to build this

The Deployment

Create infrastructure and deployment process with terraform (deployment take place after each new version)

- Reusable module that can be used in different setup
- Setup and running in AWS ECS Fargate
- Configuring domain which can redirect traffic to the service via route53
- Configure Application Load Balancer for service
- Show zero downtime via rolling update

The Documentation

- What a real life deployment would need extra?
- What can be improved upon?

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Last Notes

- Focus on producing, we want to see what you can do best
- Feel free to add more features if you wish.

Good Luck!