

Assignment for DevOps Engineer

Hey! Here is your test assignment 😊

Exercise 1

Steps 1

Write and deploy a web-server application in any language of your choice to kubernetes cluster running in any cloud provider of your choice.

- This Web app must show Gandalf's picture when accessing /gandalf and the time in the moment of request in Colombo City (Sri Lanka) when accessing /colombo.
- Run on a static-IP.
- Only port 80 should be open.
- Application should have built-in prometheus exporter and provide two metrics:
 - Total number of requests to /gandalf uri.
 - Total number of requests to /colombo uri.

Step 2

Deploy prometheus server (everything should be made with any configuration management mechanism).

- Create a VM in any cloud provider of your choice.
- Deploy a Prometheus server of any version to that VM.
- Configure Prometheus server to scrape metrics from your application.

All the code written during assignment should be stored in some public repository with README.md that briefly explains your decisions and choices. You must complete this assignment without using AI-generated code (e.g., ChatGPT, Cursor, etc.) so using AI tools to generate or significantly assist in writing your code or configuration may result in disqualification. While you're welcome to research best practices and documentation, the code and configuration you submit should be your own work and should be able to explain all your work.

Happy building!

SRE Team ☺