BlueVine

Welcome to the home assignment for the DevOps engineer position at BlueVine

This assignment purpose is to test your technical approach and attitude

1. Create a simple web application with the following components:
   a. **Backend** - could be created using any high level language of your choice
   b. **Proxy / Load balancer** - a simple router to serve requests to the backend service, you may choose any solution to create it such as Nginx, Apache2 , etc….
2. The **Backend** service should return a simple page with "Hello world!" in it upon receiving requests on the root page
3. Deploy partial Elastic (🎨Free and Open Search: The Creators of Elasticsearch, ELK & Kibana | Elastic) stack deployment with:
   a. Elasticsearch (Database)
   b. Kibana (Dashboard)
4. The **Proxy / Load balancer** will redirect the traffic by the following:
   a. http://yourdomain/ → point to your application (**backend**)
   b. http://yourdomain/kibana/ → point to the **Kibana** service
5. Send the application (**backend**) logs to Elasticsearch in a way of your choice

6. Discover the logs with Kibana

7. Create a public repository (on Github/Gitlab…etc) , push you solution/code to it.

TIPS:

- You can send logs with code or with 3 party application
- You can use any infrastructure to your solution (docker,compose,kubrenetes…etc)
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Good luck!