Infrastructure Test Assignment

Prepare a Kubernetes Helm Chart for app deployment.

This automation should do:

- Deploy database Master and Read Replica based on PostgreSQL.
- Deploy a simple PHP/Python application with requirements:
  o It responds to the URL like 'http://host/?n=x' and returns n*n.
  o It responds to the URL 'http://host/blacklisted' with conditions:
    ▪ return error code 444 to the visitor
    ▪ block the IP of the visitor
    ▪ send an email with IP address to "test@domain.com"
    ▪ insert into PostgreSQL table information: path, IP address of the visitor and datetime when he got blocked

Tips:

- Use minikube for provisioning and testing.
- For testing environment, you can use tools like docker-compose with unit/integration tests.
- Don't forget about documentation.

Time limit:

We expect you to do it in a week. Feel free to ask any questions.

We wish you good luck :)