

Workshop for SRE applicant

Introduction

In this workshop you will be working with several technologies. This will demonstrate to us your current skills and how you work. It is important that you track everything you do so commit often and keep a log of what you have done and what problems you encountered and how you solved them.

The assignment has been left open as much as possible for you to make your own choices. We are interested on why you made those choices so make sure you document it. The second interview will be focussed around your results.

Below you will find a description of the assignments, A list of (technical) requirements you will have to comply with and a list of deliverables for your assignment submission.

Assignment

We would like you to deploy a Kubernetes cluster into an aws account using EKS. Within This cluster we would like you to setup a stateless demo web-service of your own choice and a stateful application.

The webservice should be available on a public url on the domain provided to you in the workshop account.

When deploying the kubernetes cluster & resources in the cluster keep into account:

- Security
- Scalability
- Availability
- Repeatability

Keep in mind that in our team we always strive for Infrastructure as a Code. So, what you use to build the infrastructure should be reusable. and resources within the kubernetes cluster should also be deployed via some versioned system and automatic pipeline.

While deploying the resources feel free to add extra elements to your setup, as long as you are able to demonstrate the added value of those and how they work.

Requirements

For us to be able to review your work we have a few requirements on both the tech stack side and functional.

- Use the aws account that is provided
- Use a versioned repository

Deliverables

The following items are required for your submission

- All code used to deploy in a git repository (Please provide us access to your full project including ci/cd pipelines)
- Work Log of what you have done
- Credentials for the kubernetes cluster (e.g. kubeconfig)
- Code & instructions how to cleanup your resources