Deadlines

Each sprint has a hard deadline. Sprints can be handed in earlier. If a deadline is missed the points are not awarded and the solution is uploaded to GitHub so the next sprint can be accomplished.

Sprint 1: Instance Pools

Deadline: 1st of October 2020

In this sprint you must demonstrate your ability to set up an instance pool and a network load balancer.

Pass criteria: your webservice must answer on an IP address and balance traffic across all instances running in an instance pool. The number of instances will be changed in the demonstration and your web service must adapt accordingly.

Sprint 2: Monitoring

Deadline: 1st of November 2020

In this sprint you must demonstrate your ability to monitor a varying number of instances set up on an instance pool in the previous sprint.

Pass criteria: Your monitoring instance must be set up with Prometheus and Grafana running. Prometheus must track the instances in the instance pool using custom service discovery and collect their CPU usage in a graph in Grafana.

Sprint 3: Autoscaling

Deadline: 1st of December 2020

In this sprint you must demonstrate your ability to receive a webhook from Grafana and adjust the number of instances in the instance pool from the previous sprint under load.

Pass criteria: Your service will be hit with a large number of requests and it must scale up as outlined in the project work document.