

# THESIS STATUS REPORT

## WEEK 02

### DONE

I connected the single steps of the synthetic load testing and deployment. Both processes are now automated.

I decided to use Linkerd as a service mesh to gather network metrics. It is easier to deploy and more lightweight than other service meshes like *Istio* and *traefik*. Furthermore, it contains its instance of *Prometheus* which makes collecting its metrics more accessible. I accomplished to deploy Linkerd into the Kubernetes cluster and I am now able to collect these metrics.

I started to filter and format all gathered metrics and I am now finding out which metrics are useful in which particular way and combination.

Additionally, I deployed *Grafana* and started to create a dashboard where all relevant metrics can be observed in real-time.

I started to research about how an auto scaler could be implemented.

### UPDATE FROM SYNC MEETING (15.01.2021)

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### NEXT STEPS

1. Format the Data for machine learning and extra-p usage
2. Develop and implement the machine learning model
3. Implement extra-p
4. Implement the auto scaler