

# Homework M6: Prometheus and Grafana

## Assignment

You are expected to create the following

- A setup with one virtual machine with **Docker** installed just like on the practice
  - \* *You can separate the workload on two machines. Either way, adjust the parameters in order to fit within your available resources*
- On the machine(s) run the following
  - o **Prometheus** as container. One instance
  - o **Grafana** as container. One instance
  - o The application (**goprom**) used during the practice. Two instances
- In terms of measurement, do the following
  - o Make **Docker** to provide metrics, which to be consumed by **Prometheus**. This should result in one job. *For this one, you should research **Docker** documentation*
  - o Capture the metrics of the two application instances. This should result in one job with two targets
- In terms of visualization, create a simple dashboard that has
  - o A panel which shows how many containers are on the host (in all states)
  - o A panel which shows how many jobs are processed by each **goprom** application (all result types)

As usual, try to do the infrastructure part as automated as possible. Of course, using **Vagrant**

For the rest (**Docker**, **Prometheus**, **Grafana**), try to automate it as much as possible