

Journal 01

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Entry 01 | 2024-11-13

For our project, I chose to test out Prometheus with the help of Grafana to monitor several systems.

Most of my difficulties during the day came with finding where the installation for VMware was. After that with the use of several articles, documentation and quite a few videos. I managed to set up a basic monitoring system, but only for the host.

Most of the resources were quite useless, because they did not have anything to do with my current requirements. For example, the documentation given by Prometheus did not help much, because they were showing how to install it on a docker container. I did find an article made by [howtoforge](#) that taught me the steps I had to go through to install and use Prometheus on Debian.

Unlike Prometheus though, Grafana had its [documentation](#) for installing it on a Debian system in. But to connect them, I found that information on the [documentation](#) of Prometheus. Although it was quite confusing to read, I managed to connect the two.

For the rest of the night, I just used Grafana by myself and figured out how it works without the help of anything. Its layout is a bit confusing at first, but after some playing around, I got used to it. It is quite barebone by itself and you must create your own graphs, but there are templates that you can use for many different situations.

Entry 02 | 2024-11-14

This day I spent more time figuring out Grafana and Prometheus and messing with the configurations.

I created a separate virtual machine, and to be able to inspect it, I had to install Prometheus and node explorer as well. To connect the machine, I had to add the virtual machine's IP:PORT# either as a data source in Grafana or add it to the target array of the prometheus.yml (both the Prometheus port and the node explorer port).

This day I also asked help from ChatGPT on the different queries that I could use and what they could do, because the Prometheus documentation doesn't show much information about that.

This day allowed me to get the queries I needed to display the information we wanted to display and how to display the information for multiple machines and at the same time (to compare them).

Set by step Guide

This will be provided with the markdown file in my journal repository [prometheus_guide.md](#) in the [GitHub repository](#)

