

# Continuous Monitoring – Part 2

This lesson provides insight into continuous monitoring tools.

## We'll cover the following ^

- Introduction
- The flow

## Introduction #

After *cAdvisor* comes to *Prometheus*, it's an open-source data monitoring tool that is largely used with *cAdvisor* and *Grafana* to set up a data analytics and monitoring system. This is kind of a de facto combination is used in the industry.

*Grafana* is an open-source monitoring dashboard tool that enables us to study monitoring data fetched from a certain data source. In our use case, the data source is *Prometheus*. *Prometheus*, besides being a monitoring system, is also a *time series database*.

*Grafana* dashboards help us track user behavior, application behavior, error frequency in production or other environments, types of errors popping up, and so on.

*StackOverflow* uses *Grafana* to enable their developers and site reliability teams to create tailored dashboards for visualizing data and optimizing their server's performance.

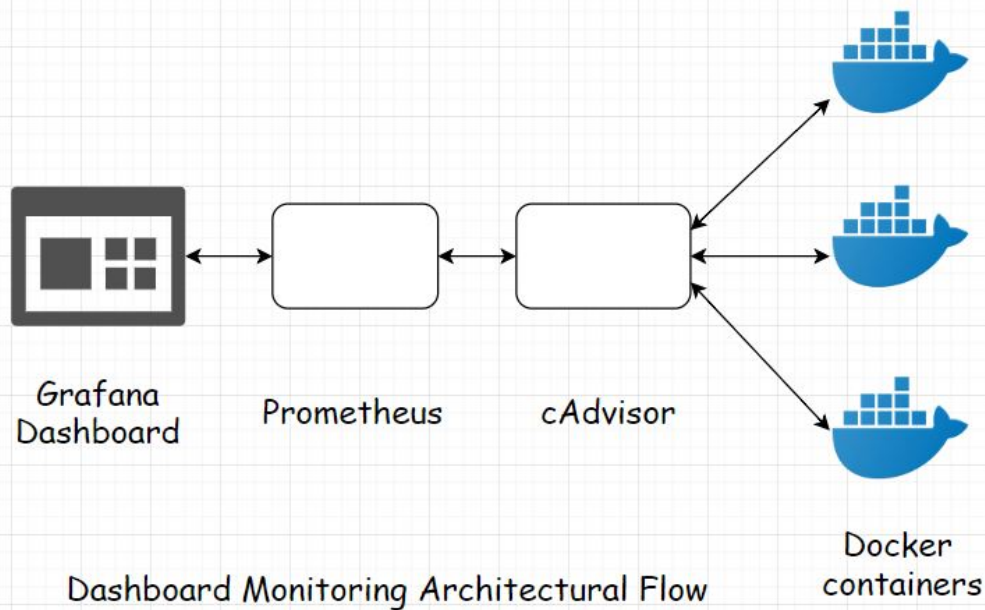
*Digital Ocean* uses *Grafana* to build a common visual data-sharing platform that enables developers to share visualization data between their teams.

Here is a [demo](#) of a Grafana dashboard that you can check out to gain insight into how it tracks different metrics of the system.

## The flow #

Our services run in containers and the container information is streamed into

*Prometheus* from *cAdvisor*. *cAdvisor* exposes container statistics as *Prometheus* metrics intrinsically. Jobs are configured in *Prometheus* to connect with *cAdvisor*.



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All the container data is displayed on custom *Grafana* dashboards. Queries fired from the dashboard hit *Prometheus*, which is plugged-in to *Grafana* as a data source.

*Grafana* dashboards contain a gamut of visualization options such as geo maps, heat maps, histograms, and all the varieties of charts and graphs that a business typically requires to study data.

This is a high-level insight into how container monitoring is set up using open source tools. In the next lesson, let's have a look at another popular stack known as the *ELK Elastic Logstash Kibana* stack, which is primarily used to monitor the logs in a distributed system.