



Introduction to Grafana



Table of Contents



- ▶ What's Grafana?
- ▶ Grafana Interface
- ▶ Grafana Loki
- ▶ Exploring
- ▶ Alerting
- ▶ Plugins



1

What's Grafana?

CLARUSWAY©
WAY TO REINVENT YOURSELF



What's a Grafana?

Grafana is open-source visualization and analytics software. It allows you to query, visualize, alert on, and explore your metrics no matter where they are stored.



CLARUSWAY©
WAY TO REINVENT YOURSELF



What's a Grafana?

Grafana helps us;

- to track the user behavior
- to track application behavior
- to track frequency of errors popping up in production or a pre-prod environment
- to track type of errors popping up & the contextual scenarios



What's a Grafana?

Why Grafana?

- Fast
- Open
- Beautiful
- Versatile
- Free





2

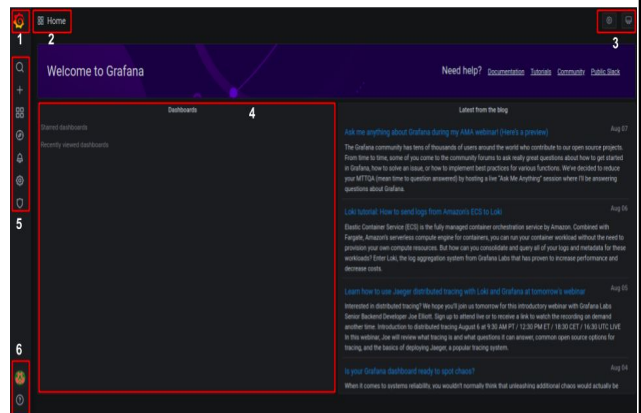
Grafana Interface

CLARUSWAY©
WAY TO REINVENT YOURSELF



Grafana Interface

1. **The Grafana logo button:** Returns the user to the Home dashboard
2. **The dashboards button:** Displays the current dashboard
3. The dashboard settings and view mode
4. **The dashboard panel:** Shows the favorite and recently viewed dashboards
5. **The side menu bar:** Provides navigation to common tasks and pages
6. The user and help buttons



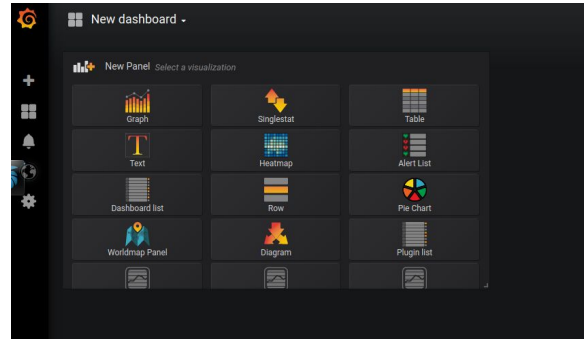
CLARUSWAY©
WAY TO REINVENT YOURSELF

8



Grafana Interface

Grafana is structured around two main interactive UI components that together constitute its core functionality: **dashboards** and **panels**.



Grafana Interface

Dashboards

- A dashboard is a set of one or more panels organized and arranged into one or more rows.
- Grafana makes it easy to construct the right queries, and customize the display properties so that you can create the perfect dashboard for your need.

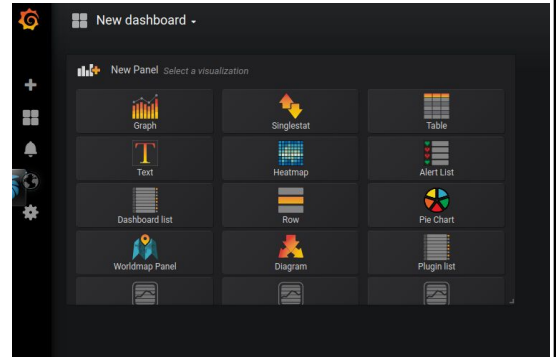




Grafana Interface

Panels

- The **panel** is the basic visualization building block in Grafana.
- Each panel has a query editor specific to the data source selected in the panel.
- In order to display data, you need to have at least one **data source** added to Grafana.



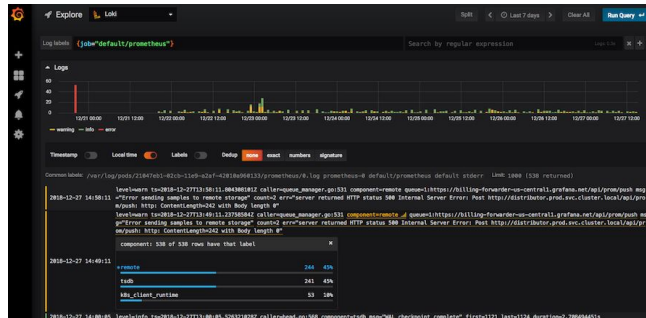
3

Grafana Loki



Grafana Loki

- **Loki** is a horizontally-scalable, highly-available, multi-tenant log aggregation system inspired by Prometheus.
- Unlike other logging systems, it does not index the contents of the logs, but rather a **set of labels** for each log stream



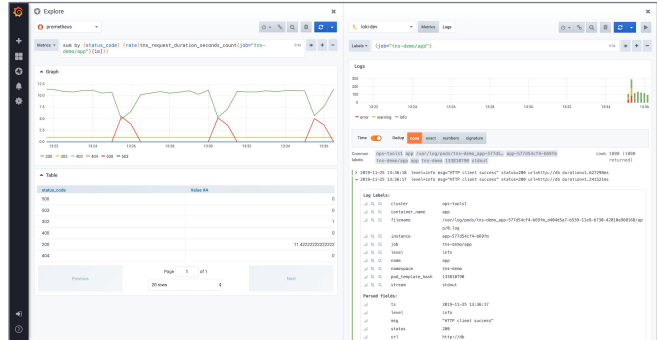
4

Exploring



Exploring

- **Explorer** is one of Grafana's most exciting features.
- It is a kind of data-driven scratchpad for exploring a data source prior to implementing it on a dashboard graph.



5

Alerting

▶ Alerting



- **Alerts** allow you to identify problems in your system moments after they occur.
- Alerts consist of two parts:
 - **Alert rules:** When the alert is triggered. Alert rules are defined by one or more conditions that are regularly evaluated by Grafana.
 - **Notification channel:** How the alert is delivered.

▶ Alerting



- You can perform the following tasks for alerts:
 - Add or edit an alert notification channel
 - Create an alert rule
 - View existing alert rules and their current state
 - Test alert rules and troubleshoot

You can also set alert rule notifications along with a detailed message about the alert rule.



6

Plugins



▶ Plugins

- You can install one of the plugins built by the Grafana community, or build one yourself.
- Grafana supports three types of plugins:
 - **Panel plugins**, such as the Worldmap Panel, Clock, and Pie Chart.
 - **Data source plugins**, such as Google BigQuery.
 - **Applications plugins**, such as the Zabbix and Kubernetes apps.



THANKS!

Any questions?

You can find me at:

- ▶ @David - Instructor
- ▶ david@clarusway.com

