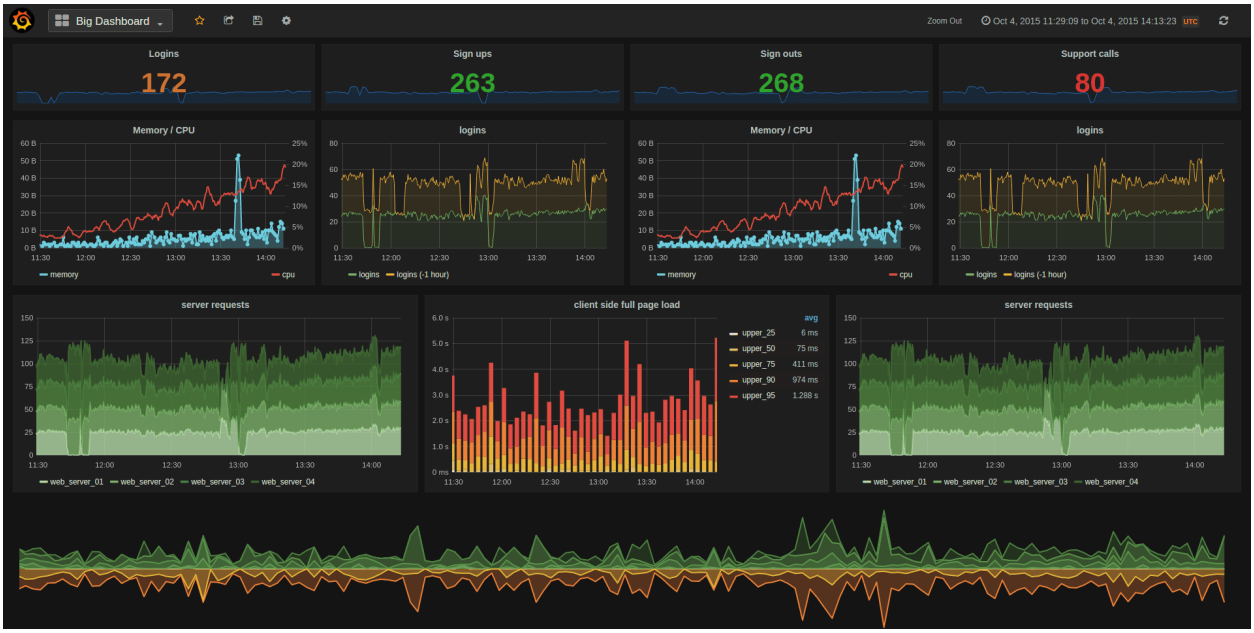
What is grafana and what is it used for

Grafana is an open-source solution for running data analytics with the help of metrics that give us an insight into the complex infrastructure and massive amount of data that our services deal with, with the help of customizable dashboards.

Grafana connects with every possible data source such as Graphite, Prometheus, Influx DB, ElasticSearch, MySQL, PostgreSQL etc. The open-source nature of the solution helps us alternatively write custom plugins to connect with any data source of our choice.

The tool helps us study, analyze and monitor data over a period of time, technically called time series analytics. It helps us track the user behavior, application behavior, frequency of errors popping up in production, pre-prod or any other environment, type of errors popping up and the contextual scenarios by providing relative data.

What is grafana dashboard



The dashboards pull data from plugged-in data sources such as Graphite, Prometheus, Influx DB, ElasticSearch, MySQL, PostgreSQL etc. These are a few of the many data sources that Grafana supports by default.

The dashboards contain a gamut of visualization options such as geo maps, heat maps, histograms, and a variety of charts and graphs which a business typically requires to study data.

The dashboard contains several different individual panels on the grid. Each panel has different functionalities.

How to install grafana in EC2 instance

1. Create an ec2 instance

2. Import GPG key:

```bash
wget -q -O gpg.key https://rpm.grafana.com/gpg.key
sudo rpm --import gpg.key
```

3 Create `/etc/yum.repos.d/grafana.repo` with the following content:

```bash
[grafana]
name=grafana
baseurl=https://rpm.grafana.com
repo_gpgcheck=1
enabled=1
gpgcheck=1
gpgkey=https://rpm.grafana.com/gpg.key
sslverify=1
sslcacert=/etc/pki/tls/certs/ca-bundle.crt
```

4.To install Grafana OSS, run the following command:

```bash
sudo dnf install grafana
```

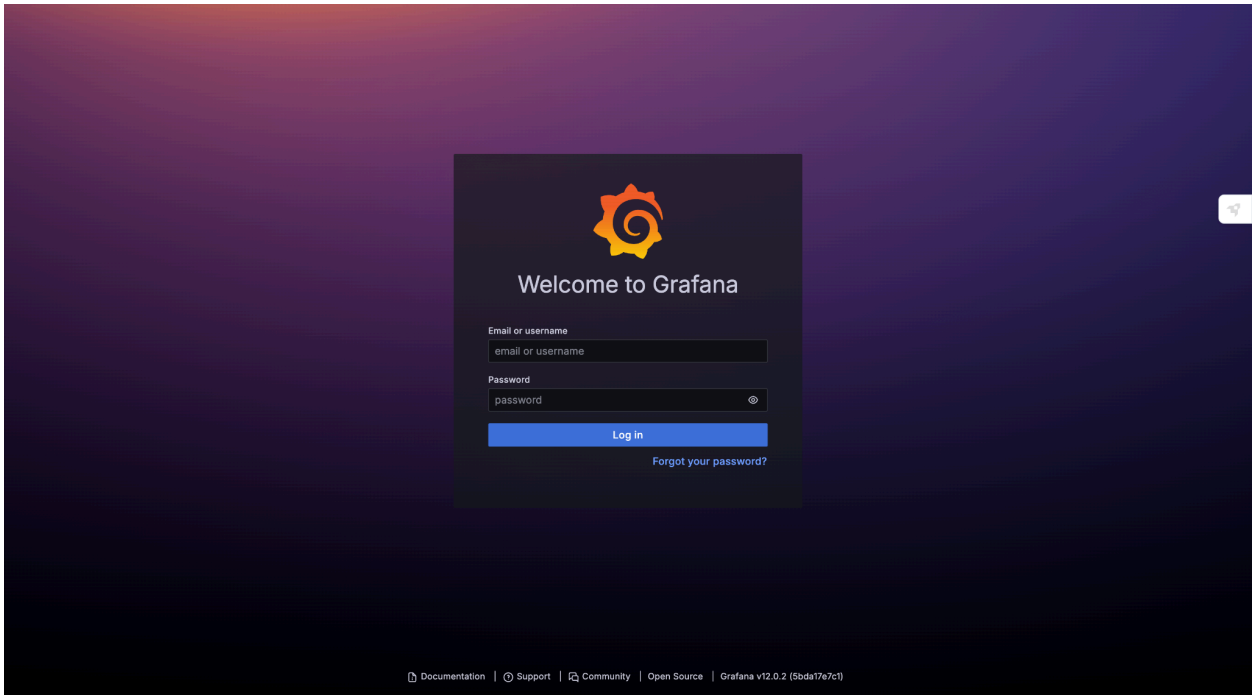
Now grafana has been installed in ec2 instance .

5. Run this command to start tha grafana service
    1. **Service grafana-server start**
    2. **systemct1 enable grafana-server.service**

6. Copy your public ip address of ec2 instance in which to have installed grafana .

7. In any browser search the ip address **13.234.21.93 and** add **:3000** in you ip address then search etc **13.234.21.93:3000** like this
Why be adding 3000 in ip address :- because grafana work on port no 3000.

8. After search you will see the grafana login page



Default login username and password is **admin**.