



Monitoring with Grafana, Graphite and Collectd

DevOps Course

Agenda

- ✦ Introduction
- ✦ Architecture
- ✦ Monitoring Dashboard Tools
- ✦ Monitoring Data Stores Tools
- ✦ Monitoring Data Collectors Tools
- ✦ Lab: Building your first Grafana Dashboard

Grafana

✦ Grafana is an open source project used as platform to create beautiful feature rich metrics dashboards for analytics and monitoring.

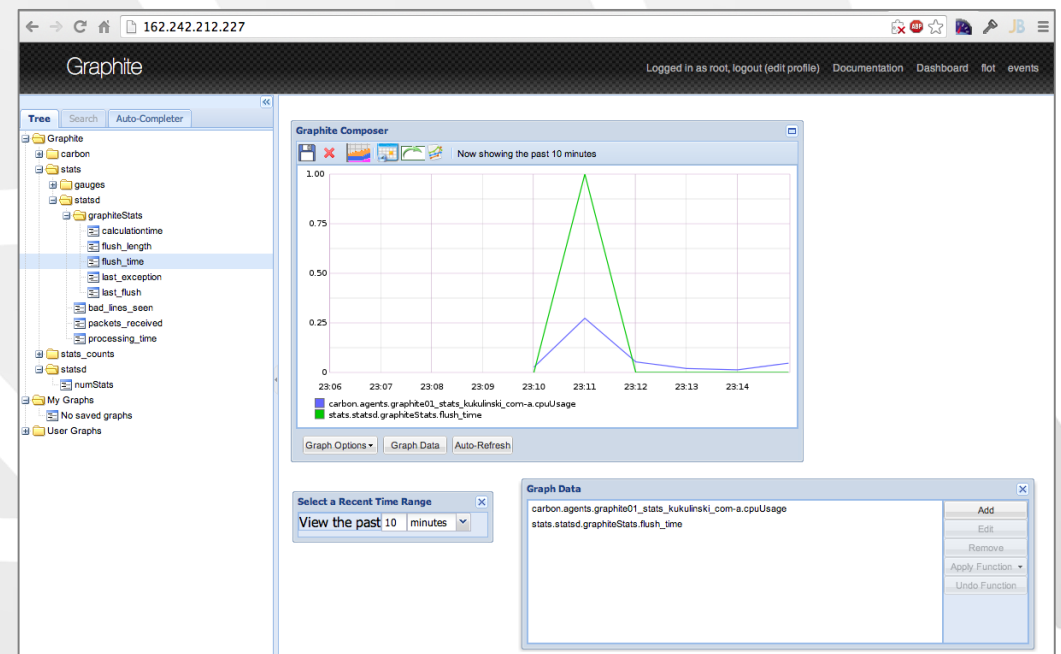
✦ Grafana Supports:

- ✦ Graphite
- ✦ Elasticsearch
- ✦ OpenTSDB
- ✦ Prometheus
- ✦ InfluxDB



Graphite

- ✦ Graphite is an open source monitoring tool for storing and viewing time series data.
- ✦ It doesn't collect data by itself, but has a simple interface and integrates easily with third-party tools.
- ✦ Graphite do two things:
 - ✦ Store numeric time-series data
 - ✦ Render graphs of this data on demand

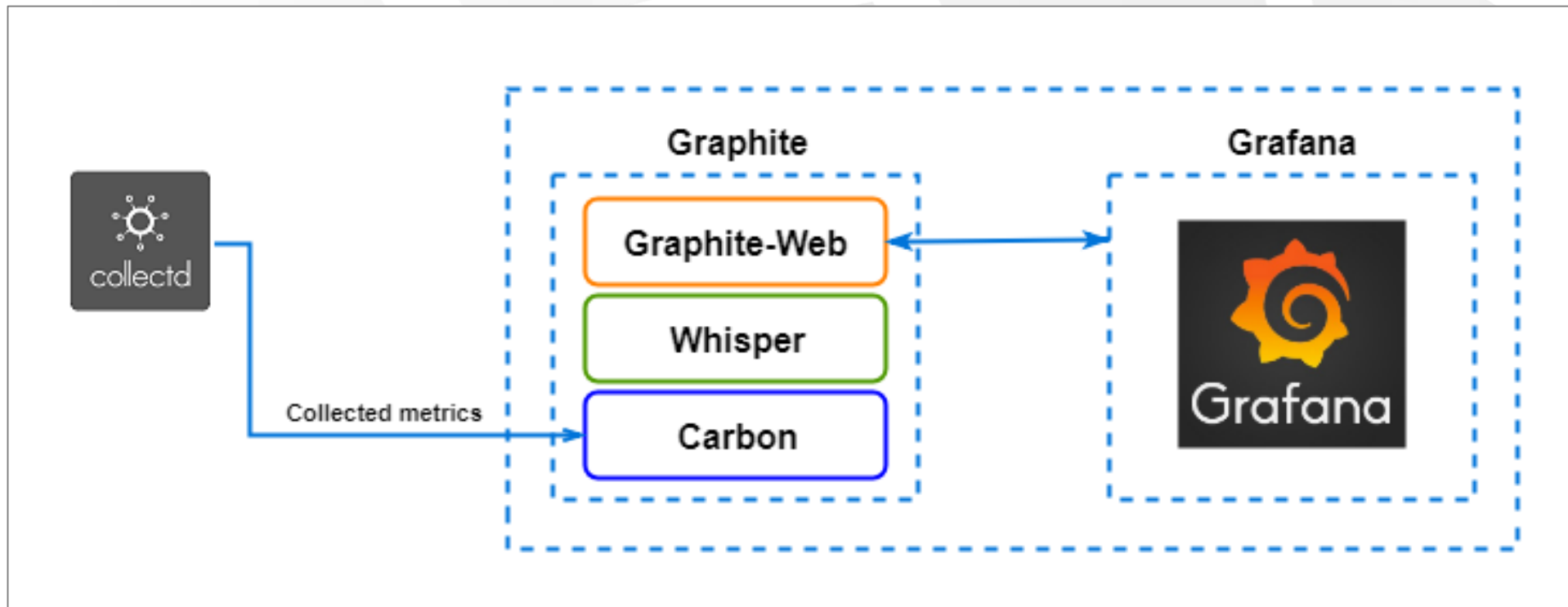


Collectd

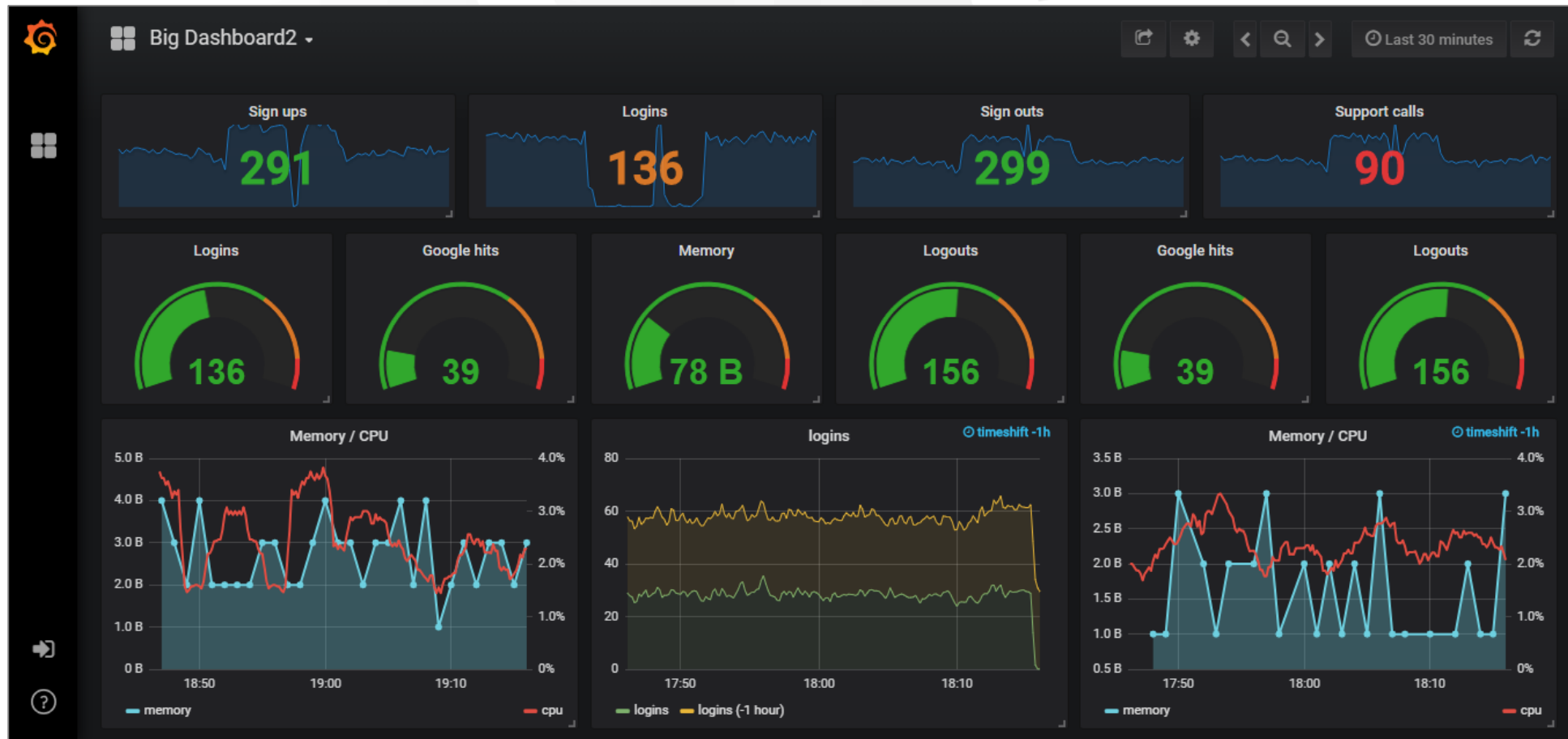
- ✦ Collectd is a daemon which collects system and application performance metrics periodically and provides mechanisms to store the values in a variety of ways.
- ✦ Collectd gathers metrics from:
 - ✦ Operation System
 - ✦ Applications
 - ✦ Logs
 - ✦ External Devices
 - ✦ Network



Putting all Together



Grafana Dashboards



Questions



Demo: Exploring Grafana Dashboards

Demo

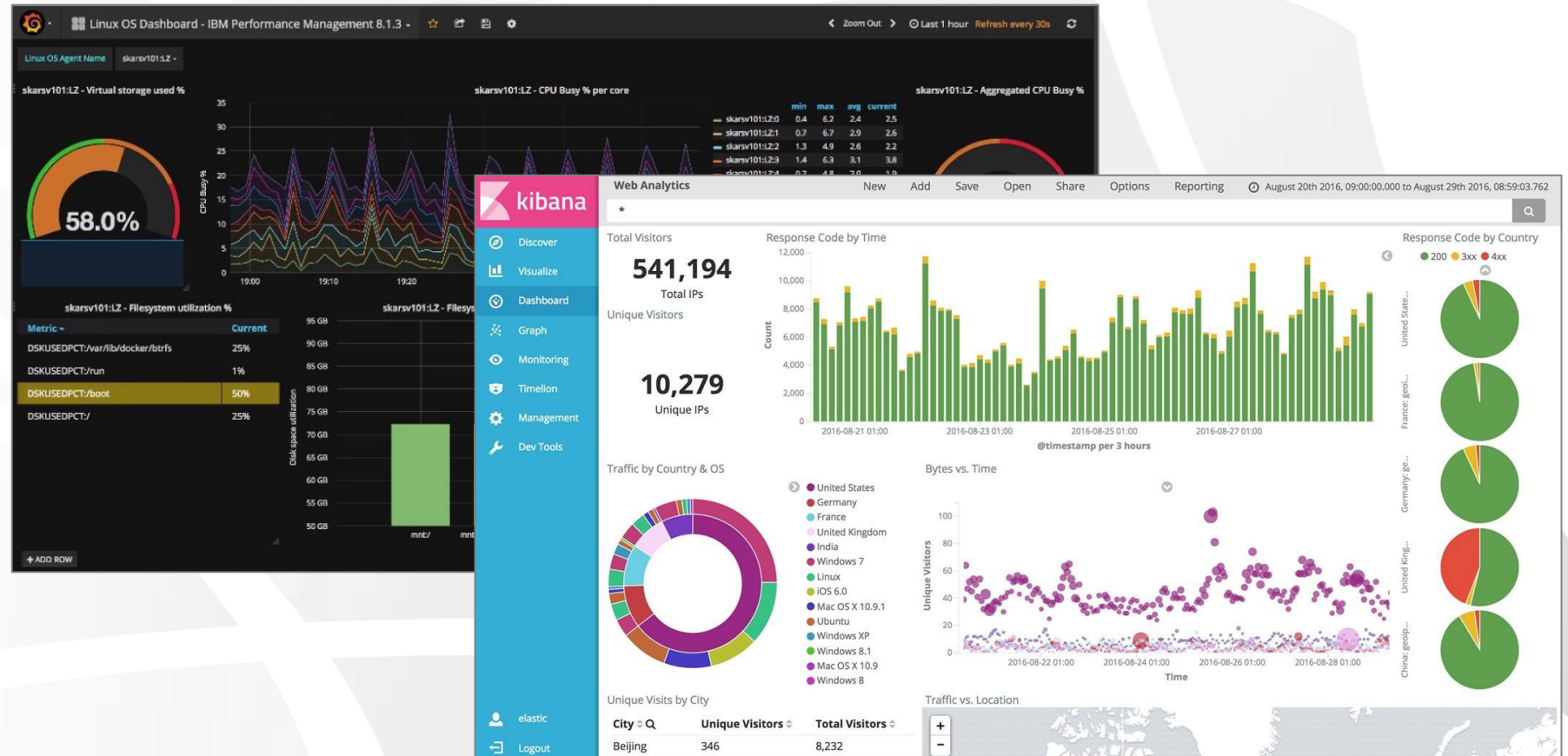


<https://play.grafana.org/d/0000000045/big-dashboard2?orgId=1>

Monitoring Dashboard Tools

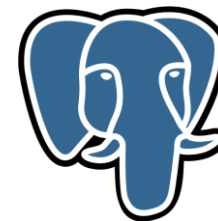
🔥 Grafana

🔥 Kibana



Monitoring Data Stores Tools

- ✦ ElasticSearch
- ✦ Graphite
- ✦ Prometheus
- ✦ InfluxDB
- ✦ PostgreSQL
- ✦ Microsoft SQL Server
- ✦ CloudWatch

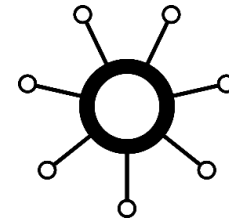


Monitoring Data Collector Tools

- ✦ collectd
- ✦ statsd
- ✦ Logaster
- ✦ Sensu
- ✦ telegraf
- ✦ Fluentd
- ✦ Elastic Beats



beats



statsd



LOGASTER



telegraf

Questions



Lab: Building your first Grafana Dashboard

Lab



<https://github.com/leonjalfon1/basic-monitoring-lab>