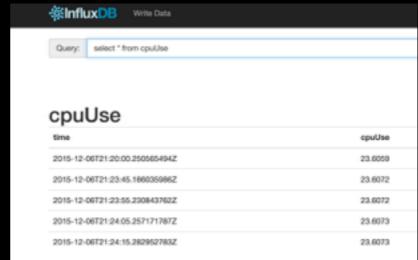
InfluxDB and Grafana for Real-Time Visualization

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InfluxDB

- Time-Series data
- Open Source



- Easy portal to view and manage info
- Easy REST API
- SQL-like query language

Time-Series Data

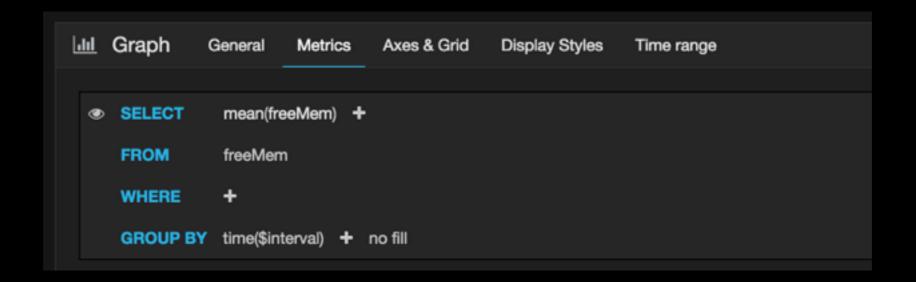
- Time-stamp + other data
- Useful for tracking what happened at a given instant
- Often used in statistics, monitoring system processes, anything that could benefit from use of temporal information

Grafana

- Open source data visualization tool
- Compatible with: InfluxDB, OpenTSDB, KairosDB, Graphite, Elasticsearch
- Allows for real-time updating
- Graph sharing

Grafana Overview

- Has query builder, gives options such as mean, stddev, derivative etc
- Can easily add more than 1 data plot to a graph



Project Goals

- Setup InfluxDB and Grafana to run on CentOS
- Visualize system metrics
- Access info via BASH commands

Example



Further Work

- Report r/s and w/s of top 3 hard drives
- Automate installation and setup of Grafana dashboards

Takeaways

- InfluxDB and Grafana pair well together
- Great for real-time data visualization