Application Instrumentation

(or some other terrible talk title)

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Overview of tools & terminology

Instrumenting our applications “the hard way” with examples

Instrumenting our applications “the easy way” with examples

A few more examples just for funsies

Why Bother?

Observing vs. Alerting vs. Dashboards

Instrumenting from our applications

Build applications with instrumentation in mind from the beginning

AND develop all of your instrumentation “on your machine” as you build the application

Tools & Terminology

JMX : Java Management Extensions

Jolokia : Expose JMX through endpoints

Hawtio : Explore the endpoints

Influxdb : Time Series Database

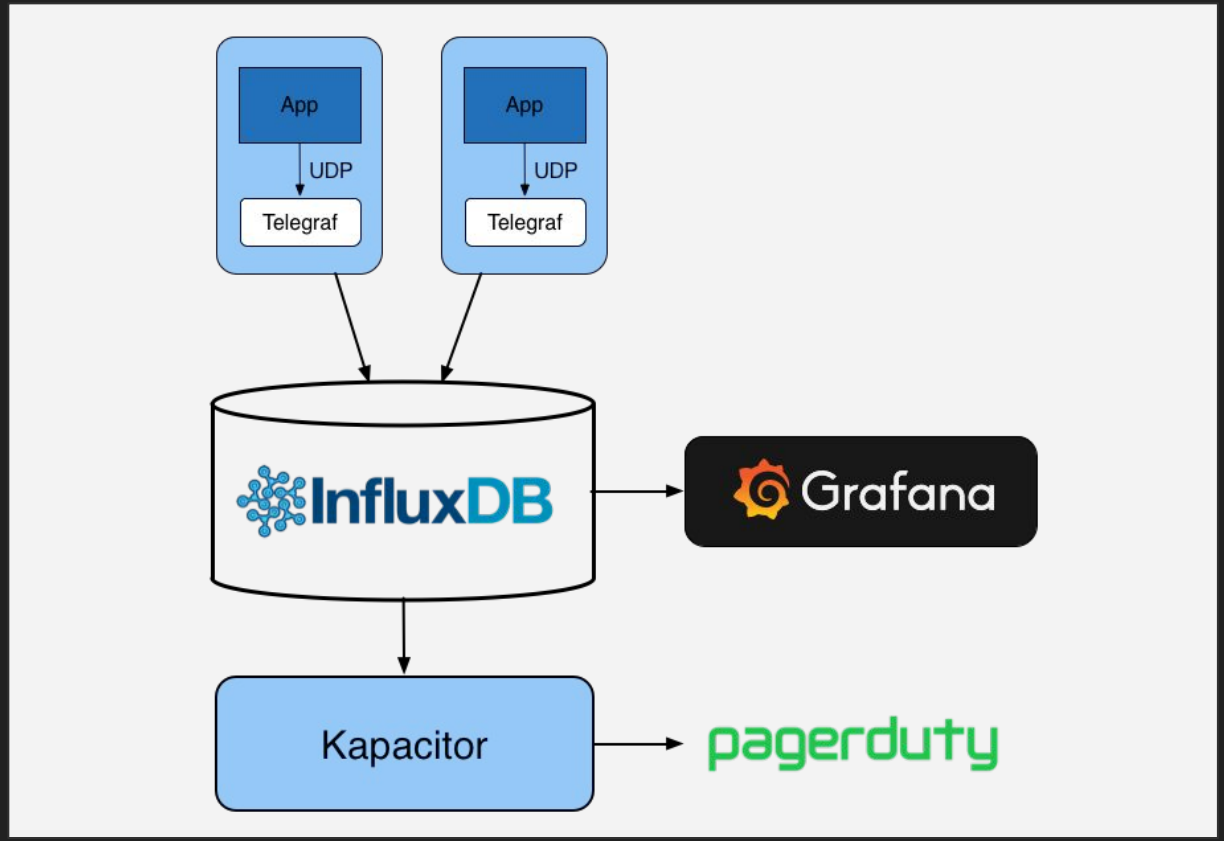
Telegraf : Collect & Process

Chronograf : Browse

Grafana : Create Dashboards

Kapacitor : Stream Processing & Alerting

This is DevOps



Let’s connect some containers!

Network Config

Influx Docker Setup

Chronograf Docker Setup

Grafana Docker Setup

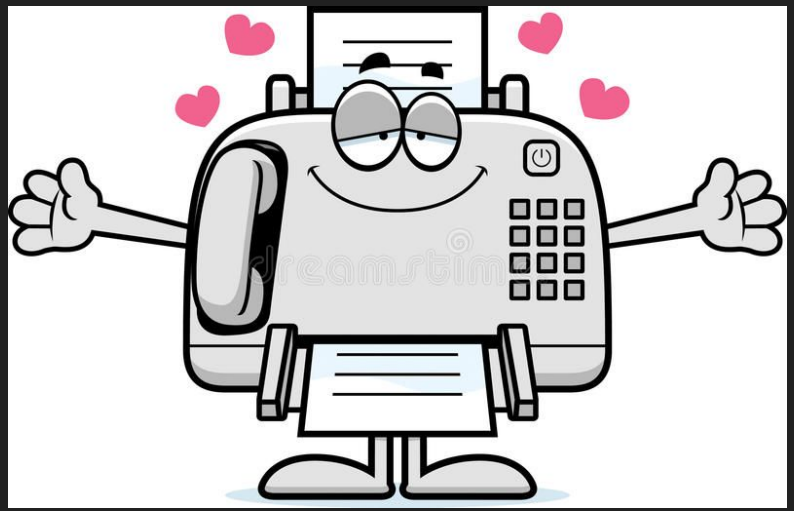

Let’s do it for real...

Custom Metrics

Output additional data by exposing it through JMX or custom application endpoints.

If you are using spring boot you can extend actuator functionality to report metrics. Otherwise configure Telegraf to forward them.

Questions?



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Slides & Examples:

https://github.com/jessiepuls/2018-09-cijug