SPRING BOOT OBSERVABILITY

DASHAUN CARTER

INTRODUCTION

- 800 days as Platform Architect
  - VMware by way of Pivotal
- Certified Kubernetes Application Developer (CKAD)
- @dashaun on (Twitter|GitHub|GitLab)

MY STORY

Once upon a time, just a few years ago

MY GOALS FOR YOU.

- Get started with metrics and the Spring Boot actuator
- Use Micrometer for custom metrics

- Use Sleuth to get the benefits of tracing
  in distributed systems
- Use the Spring Boot integration with Wavefront

- Think about observability before going to production

The best person
to create observability
for your application
is you.

PINPOINTING ISSUES IS HARD

- Monolith
- Microservices
- DB connections
- Content Delivery Networks
- Load Balancers
- Sticky Sessions

PRIDE OF THE ONCALL

Bridge calls in the middle of the night
waiting for someone to say "restart it"

ACCESS DENIED

- No access to the production vms

I WAS ON A MISSION

I found Dropwizard

I WAS INTRODUCED TO SPRING BOOT

The actuator was like a dream come true.

A SIMPLE RESTFUL SERVICE

- https://start.spring.io

FOLLOW ALONG

https://github.com/dashaun/spring-boot-observability

THE ACTUATOR ALONE

Health!

METRICS

No need for production access.

- Internal route allowed /metrics
- External routes did not allow /metrics

CUSTOM METRICS AND MICROMETER

- Add a Meter Registry to store metrics
- Automatically exposed

NEXT

SPRING CLOUD SLEUTH

- Logs with SpanId TraceId
- Tracing with Zipkin or OpenTracing

FREE SERVICE INCLUDED WITH SPRING BOOT

http://localhost:8080/actuator/wavefront

THANK YOU

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THANK YOU