

OBSERVABILITY DATA ENGINEERING

A STORY ABOUT MATH, FOUR GOLDEN SIGNALS, AND BUSINESS INTELLIGENCE

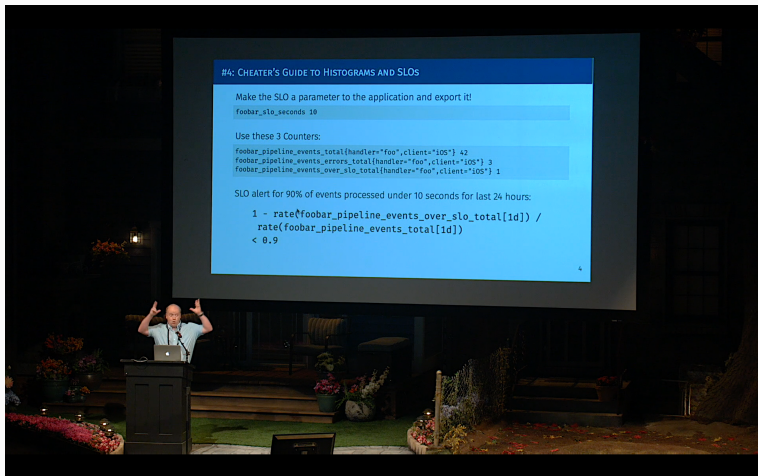
Jack Neely

jjneely@gmail.com

May 20, 2023

DevOps Observability Architect

MONITORAMA PDX 2019: HOW TO KNOW IF SOMETHING IS “UP”



What do I monitor?

Google SRE's ~~Four~~ Five Golden Signals

Health Pods are Running and Healthy

Traffic Counter of Units of Work

Errors Counter of Units of Work with Exceptions

Latency Timer of the distribution of latencies for each Unit of Work

Saturation When Pods be scaled up or down

Remember: **There are FIVE lights!**

The ~~Four~~ Five Golden Signals ensure awareness of incidents before the customer base.

The ~~Four~~ Five Golden Signals ensure awareness of incidents before the customer base.

We need to set alerts for these super special customers.

Well, if we set our Histograms correctly and record maximum values we will be able to tell when...

The ~~Four~~ Five Golden Signals ensure awareness of incidents before the customer base.

We need to set alerts for these super special customers.

Well, if we set our Histograms correctly and record maximum values we will be able to tell when...

When a customer calls we need to be able to verify the error they encountered. We'll need a high cardinality solution.

Umm...those aren't metrics. How heavily are you sampling your traces?

AS A DEVOPS OBSERVABILITY ARCHITECT...

The ~~Four~~ Five Golden Signals ensure awareness of incidents before the customer base.

We need to set alerts for these super special customers.

Well, if we set our Histograms correctly and record maximum values we will be able to tell when...

When a customer calls we need to be able to verify the error they encountered. We'll need a high cardinality solution.

Umm...those aren't metrics. How heavily are you sampling your traces?

Jack, we're an Enterprise!

starship goes here

TRAFFIC

ERRORS

LATENCY

SATURATION

CUSTOMERS