

I read a book

Spring Microservices IN ACTION

John Carnell

MANNING



John Carnell

is a senior cloud engineer at Genesys, where he works in Genesys's PureCloud division. John spends the majority of his day hands-on building telephony-based microservices using the AWS platform. His day-to-day job centers on designing and building microservices across a number of technology platforms including Java, Clojure, and Go.

What is Spring Cloud?

*Collection of open source tools and
libraries that solve common cloud
problems*

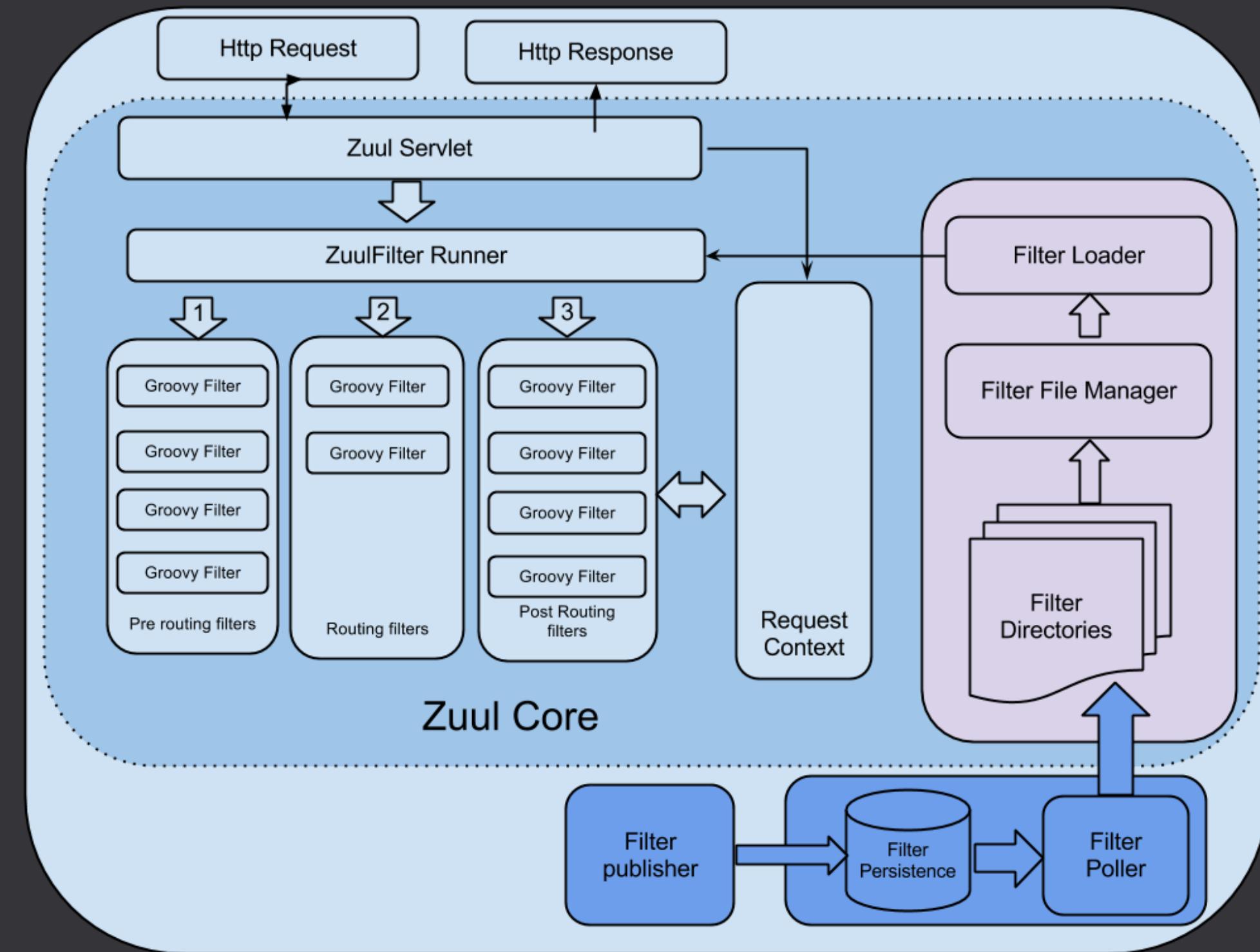
Routing

Zuul



Why

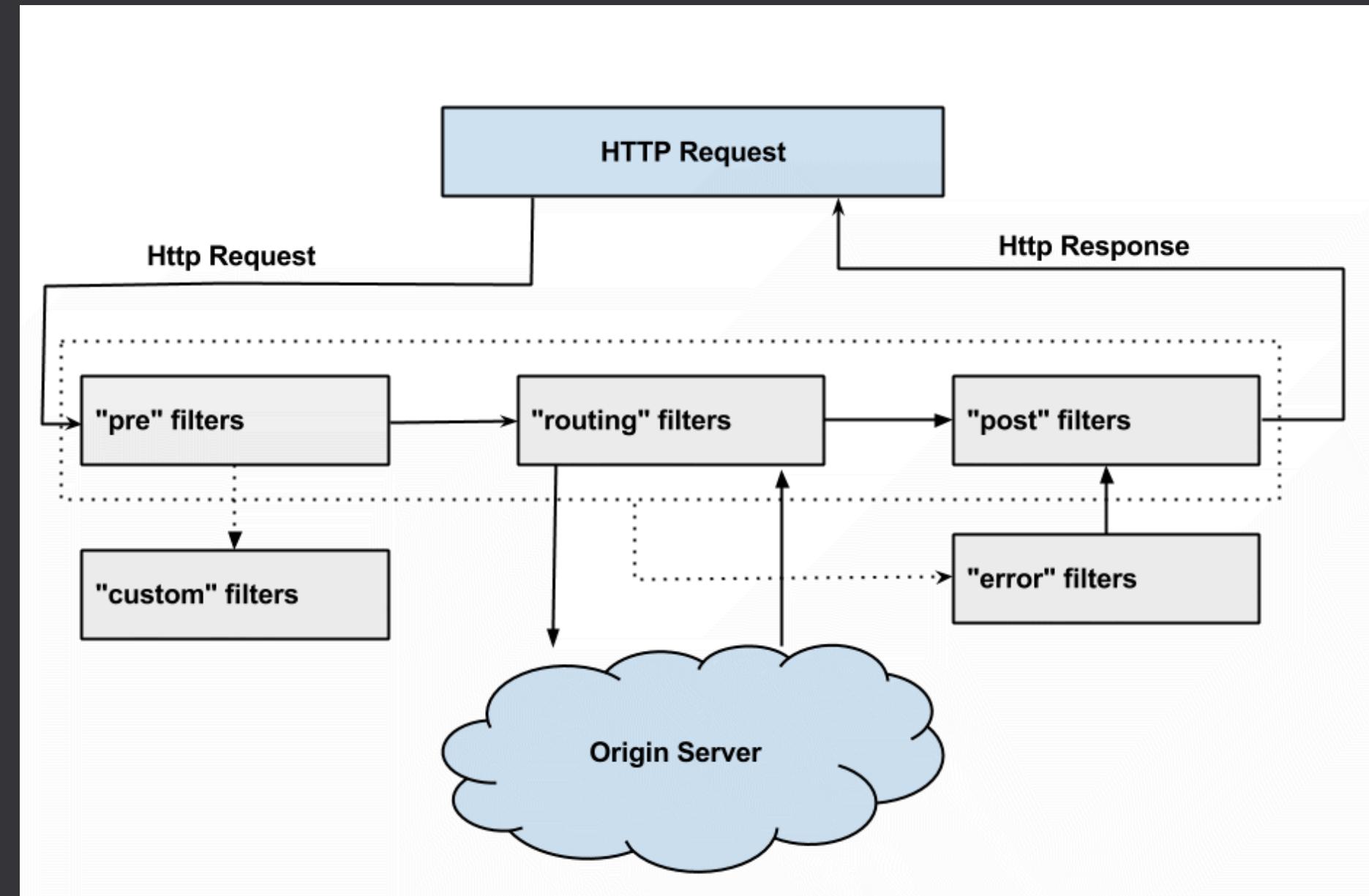
- >> Allows you to hide service destinations behind a context path
- >> Dynamically re-route requests based on their payload
- >> Authentication and authorization
- >> Metrics and logging



Used in Member Web today!

- » Zuul replaced a custom written proxy
- » New Document Centre required multipart HTTP requests
- » We also created a Zuul Filter which determines outage period

Filters



Demo

Service Discovery

Demo

Distributed Log Tracing



Honest Status Page

@honest_update

Follow



We replaced our monolith with micro services so that every outage could be more like a murder mystery.

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3.0K

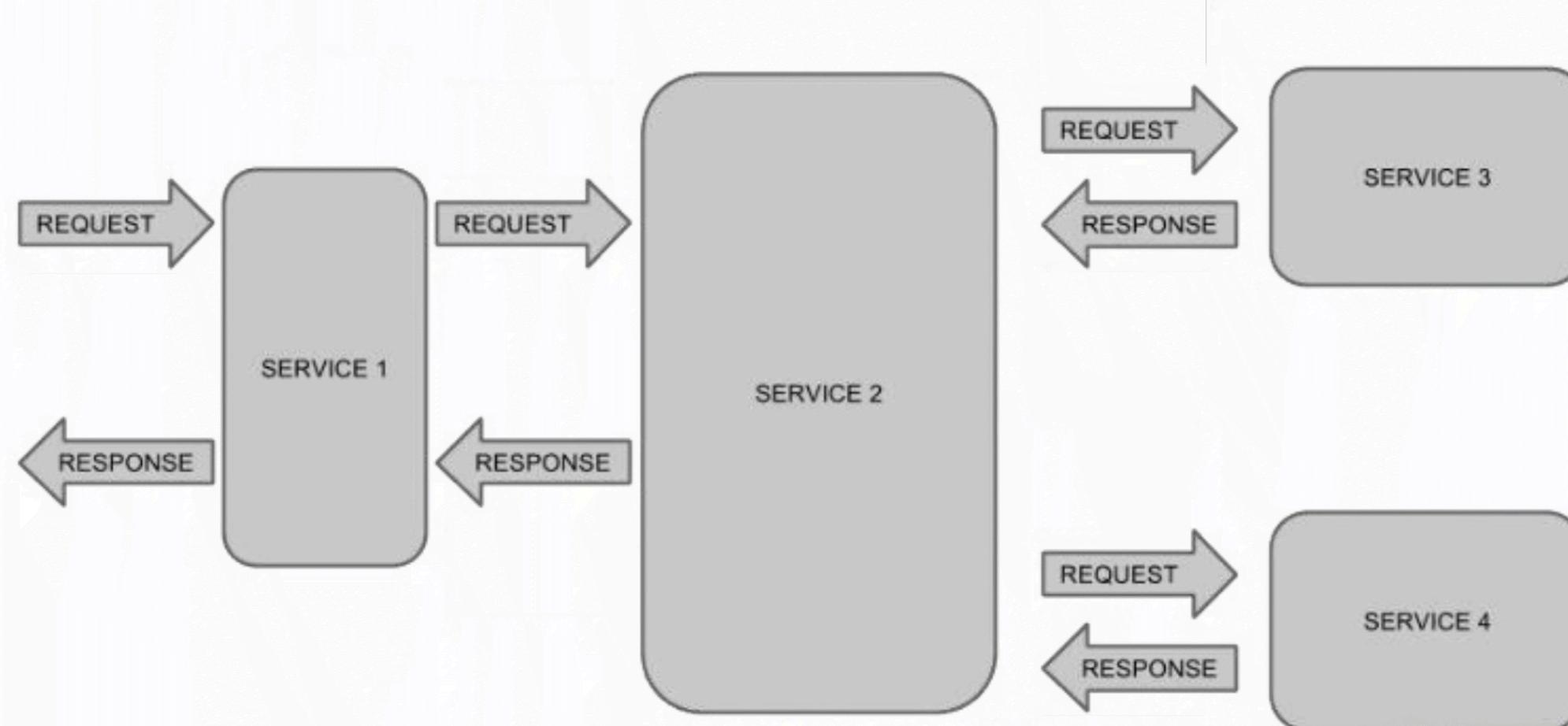
2.6K



Terminology

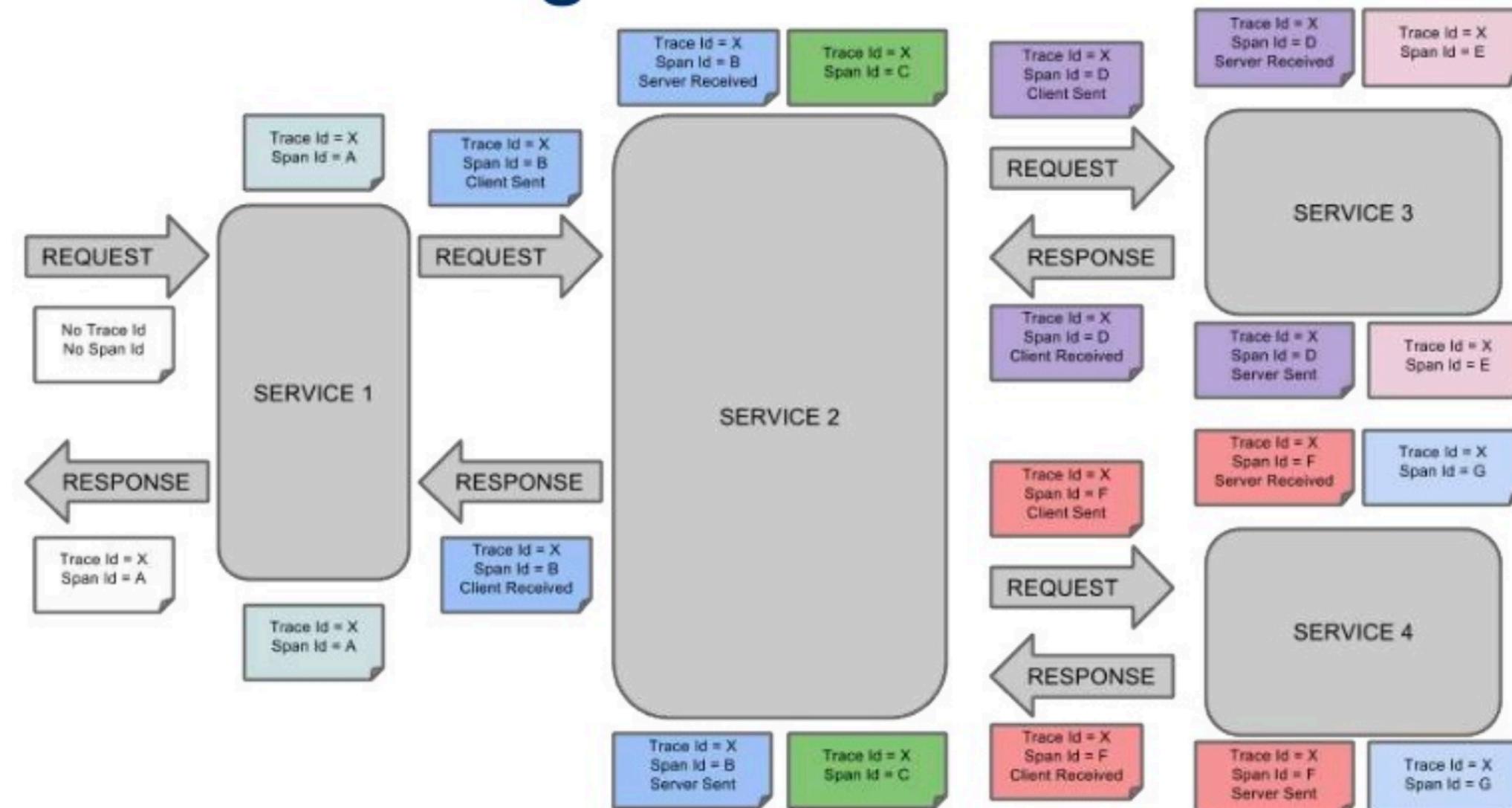
1. Trace - the entire request processed by a distributed system
2. Span - named timed operation, represents work in a trace

Distributed tracing



<http://cloud.spring.io/spring-cloud-sleuth/spring-cloud-sleuth.html>

Distributed tracing



<http://cloud.spring.io/spring-cloud-sleuth/spring-cloud-sleuth.html>

Sleuth

Zipkin

Demo

Cloud Config

Store your configurations in:



**FLAT
FILES**

GITHUB

Refresh Config

@RefreshScope

@Bean

curl actuator/refresh

Questions?