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Take me Down to the Paradise City where the Metric is Green and Traces are Pretty

Ricardo Ferreira

Principal Developer Advocate, Elastic

SRE CON_

Who am I?

- Principal Developer 🥑 at Elastic

- Community, Developer Relations

- Before Elastic: Confluent, Oracle, Red Hat

- Observability, Streaming Systems, Databases, 🧑🏻‍💻 Java and Golang

- https://riferrei.com

@riferrei

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Agenda

- Observability 101, redefined

- Overview about OpenTelemetry

- Creating an observability backend

- Example of instrumented app in Java

- Example of instrumented app in Go

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Current perception about observability

What

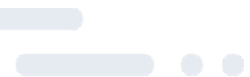Tools + Processes + People

Logging

When

Tools + Processes + People
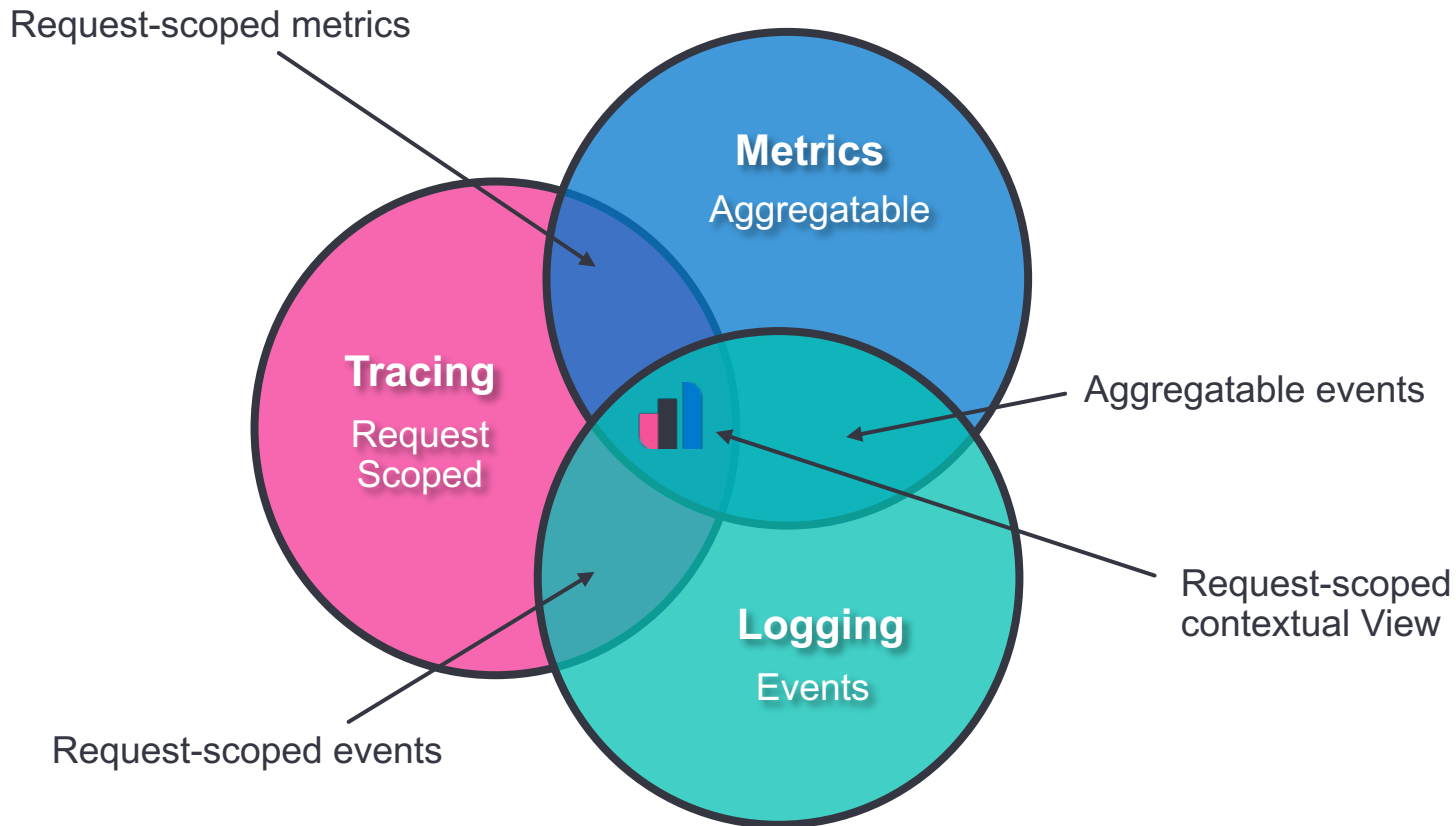
Metrics

Where

Tools + Processes + People

Tracing

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"...this seems like calling 'gasoline, motor oil, and tires' the 3 pillars of F1 racing. It is not wrong, precisely, but..."

Josh Berkus
Kubernetes Community Manager, Red Hat

Observability redefined: pipes (not pillars)

Request-scoped metrics

Metrics
Aggregatable

Tracing
Request Scoped

Aggregatable events

Request-scoped contextual View

Logging
Events

Request-scoped events

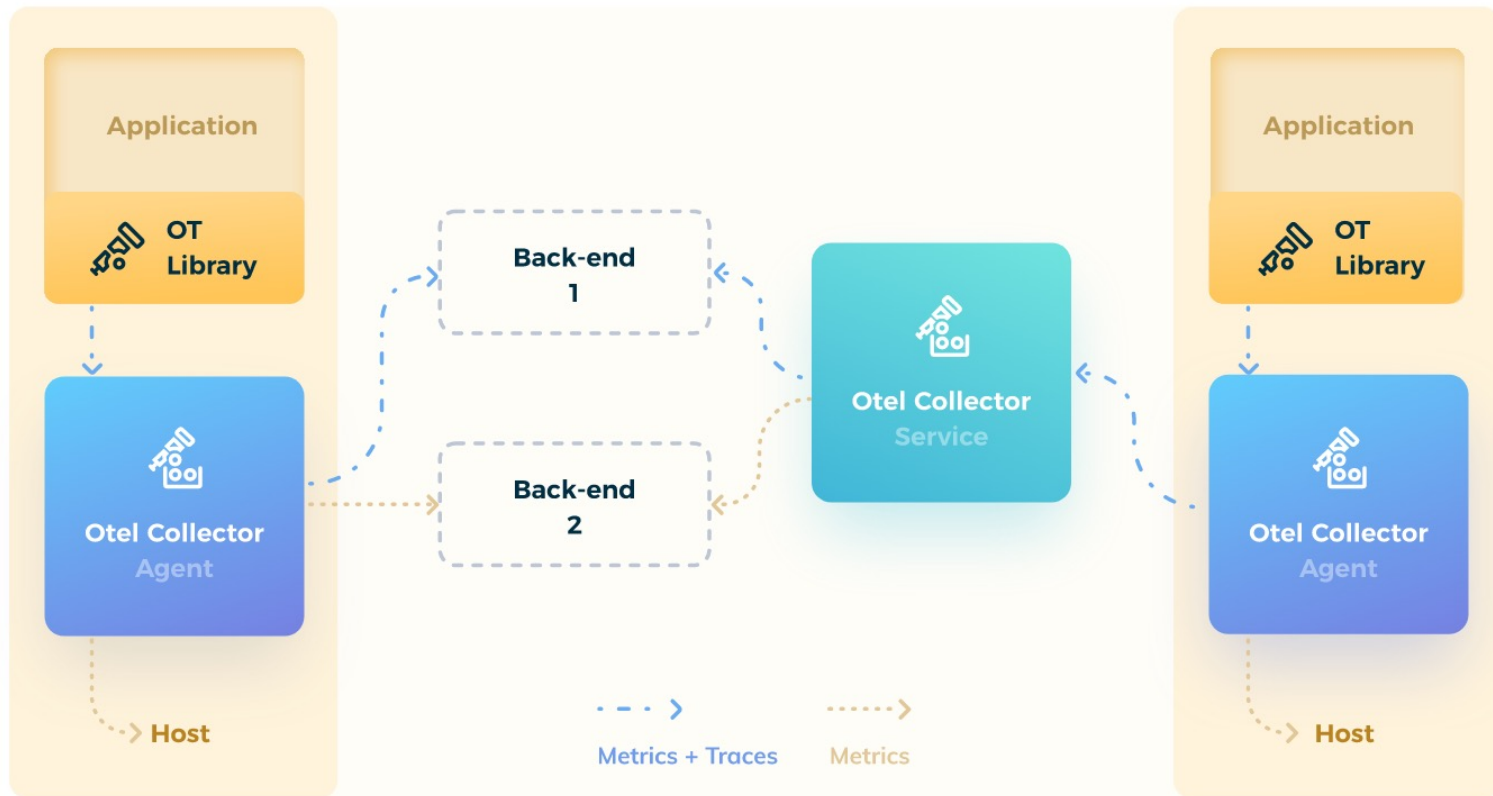# Overview about OpenTelemetry

https://opentelemetry.io

- Based on the projects OpenTracing and OpenCensus

- Open source CNCF project

- Provides specification, protocols, SDK, and integration tools

- Unifying all types of telemetry data: traces, metrics, and logs

- Vibrant growing community
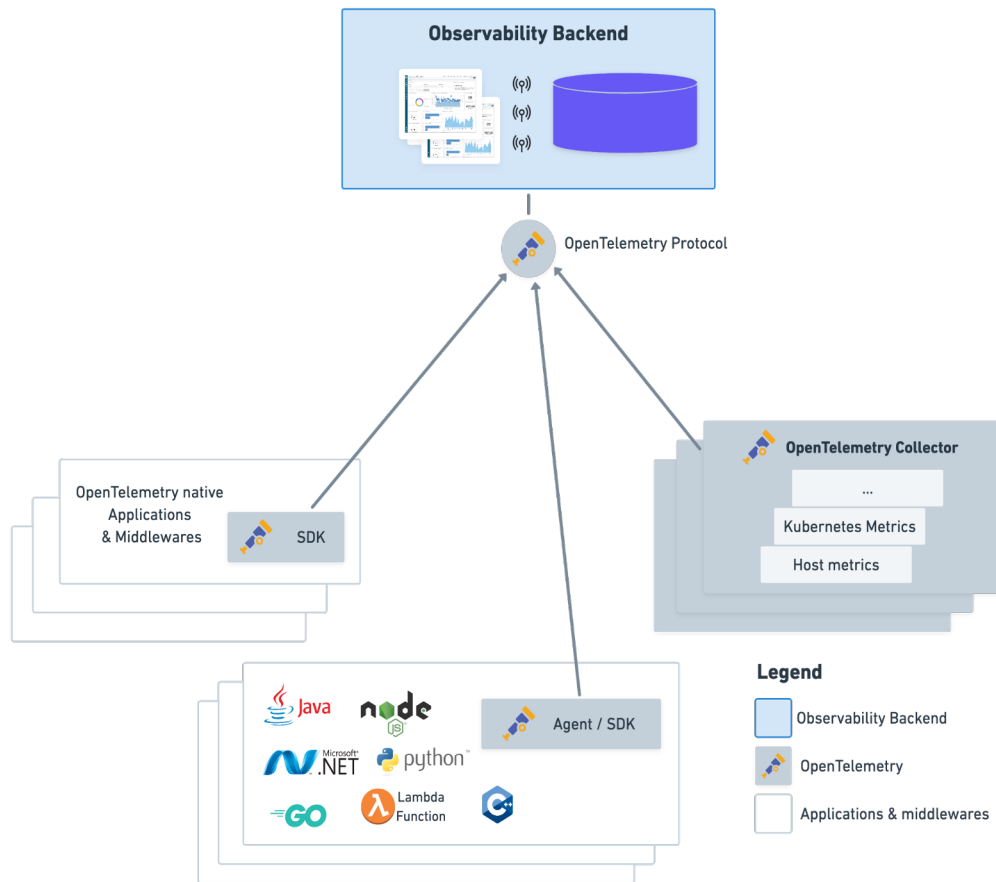
Different deployment topologies

Is OpenTelemetry stable enough?

OpenTelemetry Stability

- **Traces** are GA and programming languages are mostly up to speed

- **Metrics** are almost GA and programming languages are mostly up to speed

- **Instrumentation libraries** are popping up every single week. Help to accelerate this.

- **Logs** are not ready. But you can use the collector for most things log-related.
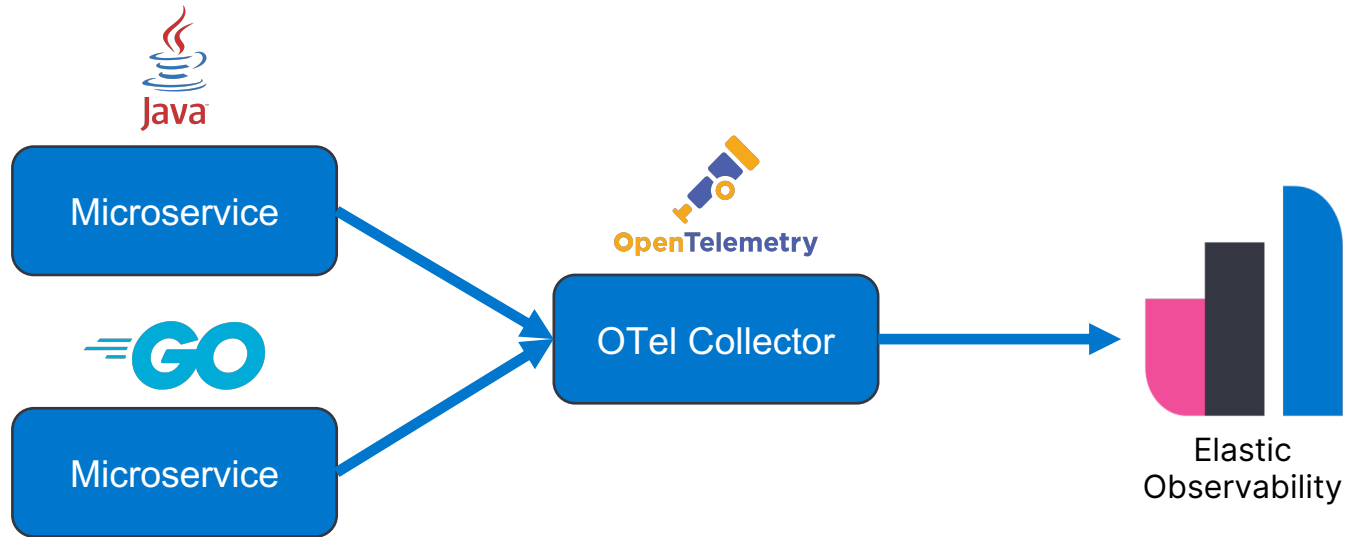

- **TL;DR**: yes... start using OpenTelemetry

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Time to see some hands-on stuff

Creating a observability backend
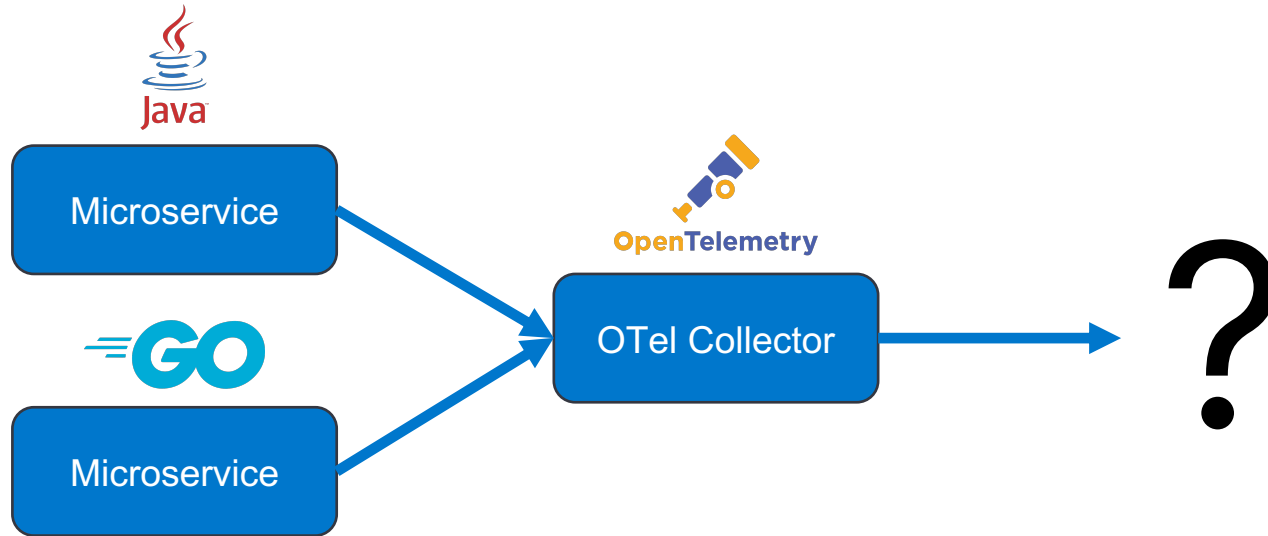
Creating a observability backend

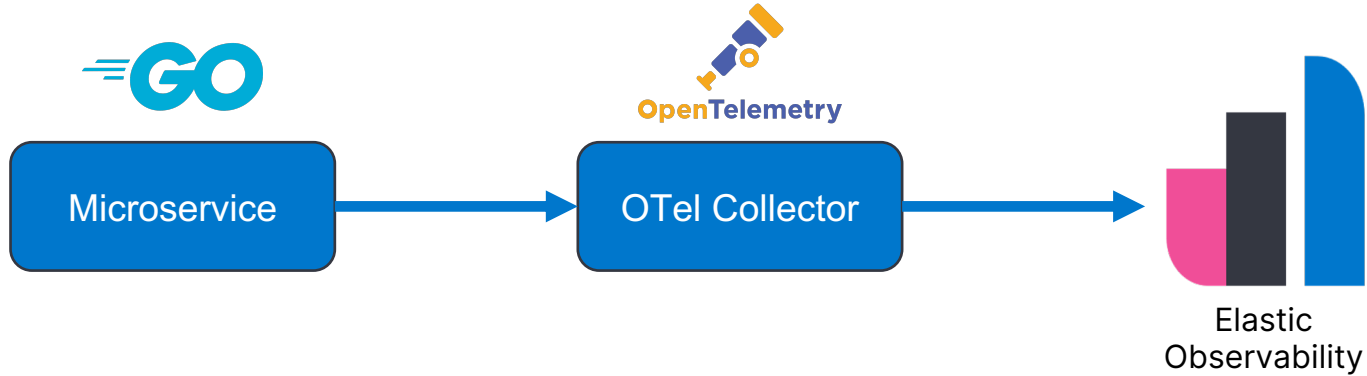# Get started with Elastic for free today!

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Example of instrumented app in Java

https://github.com/riferrei/otel-with-java

Example of instrumented app in Go

| Microservice | → | OTel Collector | → | Elastic Observability |

https://github.com/riferrei/otel-with-golang
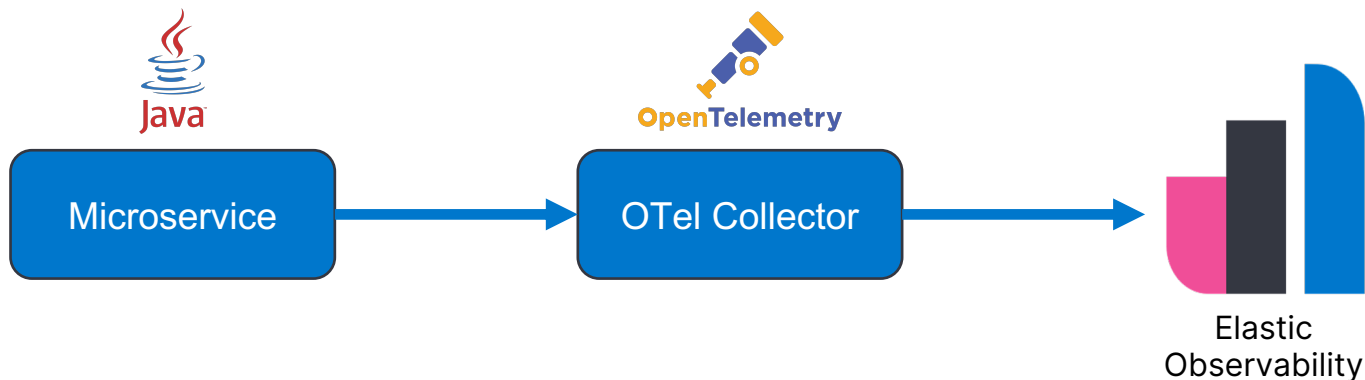
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Thank You