



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

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Principal Developer Advocate, Elastic



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>

Agenda

- Observability 101, redefined
- Overview about OpenTelemetry
- Creating an observability backend
- Example of instrumented app in Java
- Example of instrumented app in Go

Current perception about observability

What

Tools + Processes + People

Logging

When

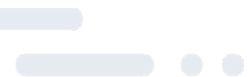
Tools + Processes + People

Metrics

Where

Tools + Processes + People

Tracing

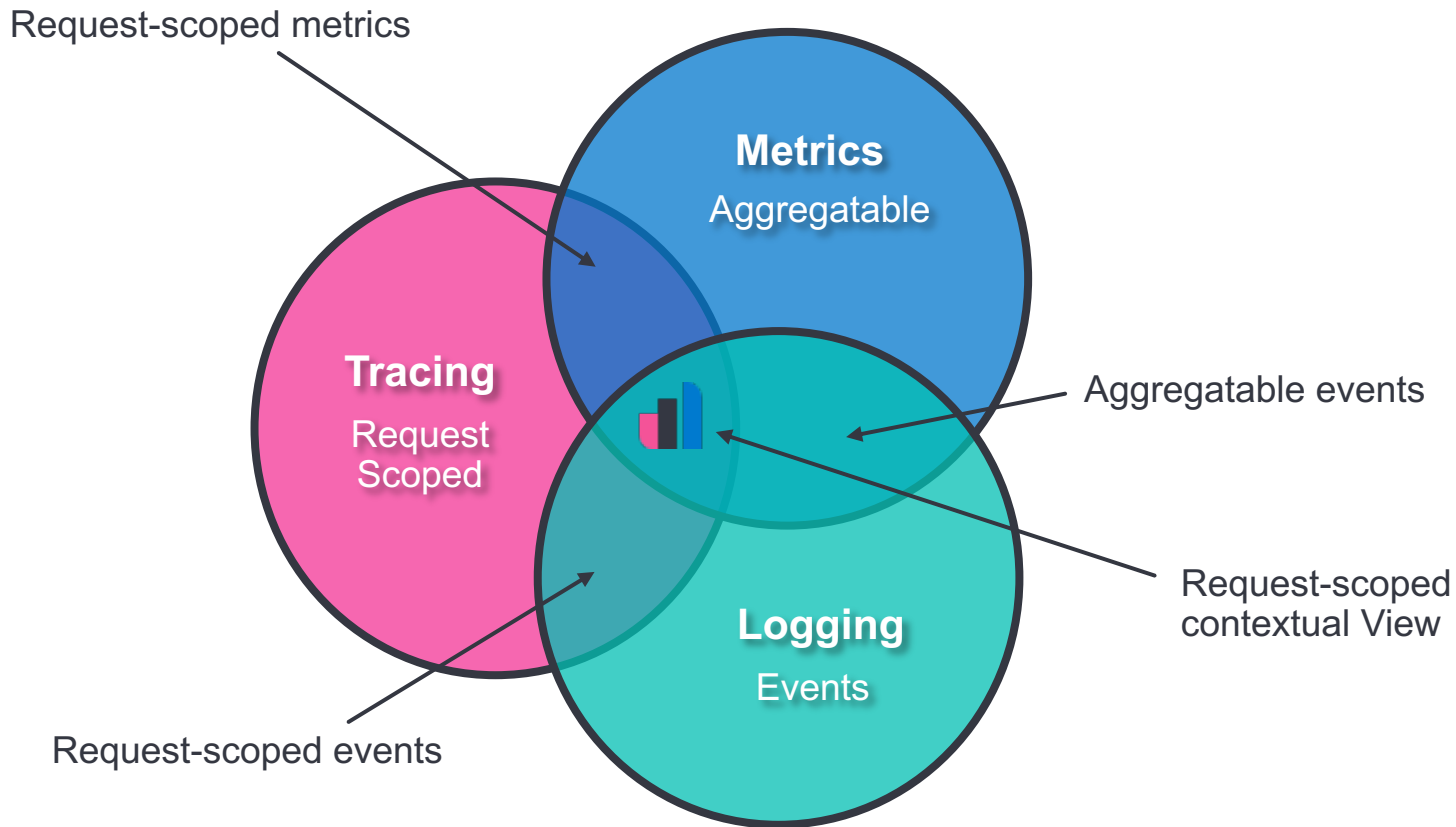


“...this seems like calling
'gasoline, motor oil, and tires'
the 3 pillars of F1 racing. It is not
wrong, precisely, but...”

Josh Berkus

Kubernetes Community Manager, Red Hat

Observability redefined: pipes (not pillars)



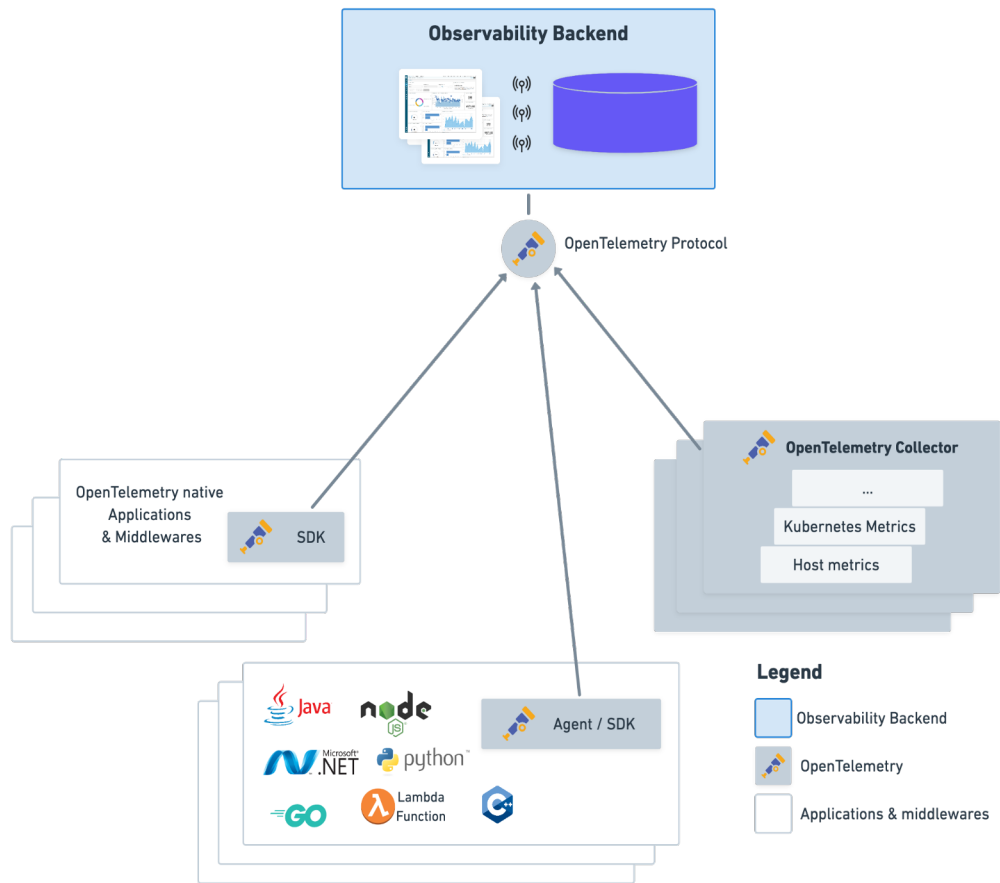
Overview about OpenTelemetry



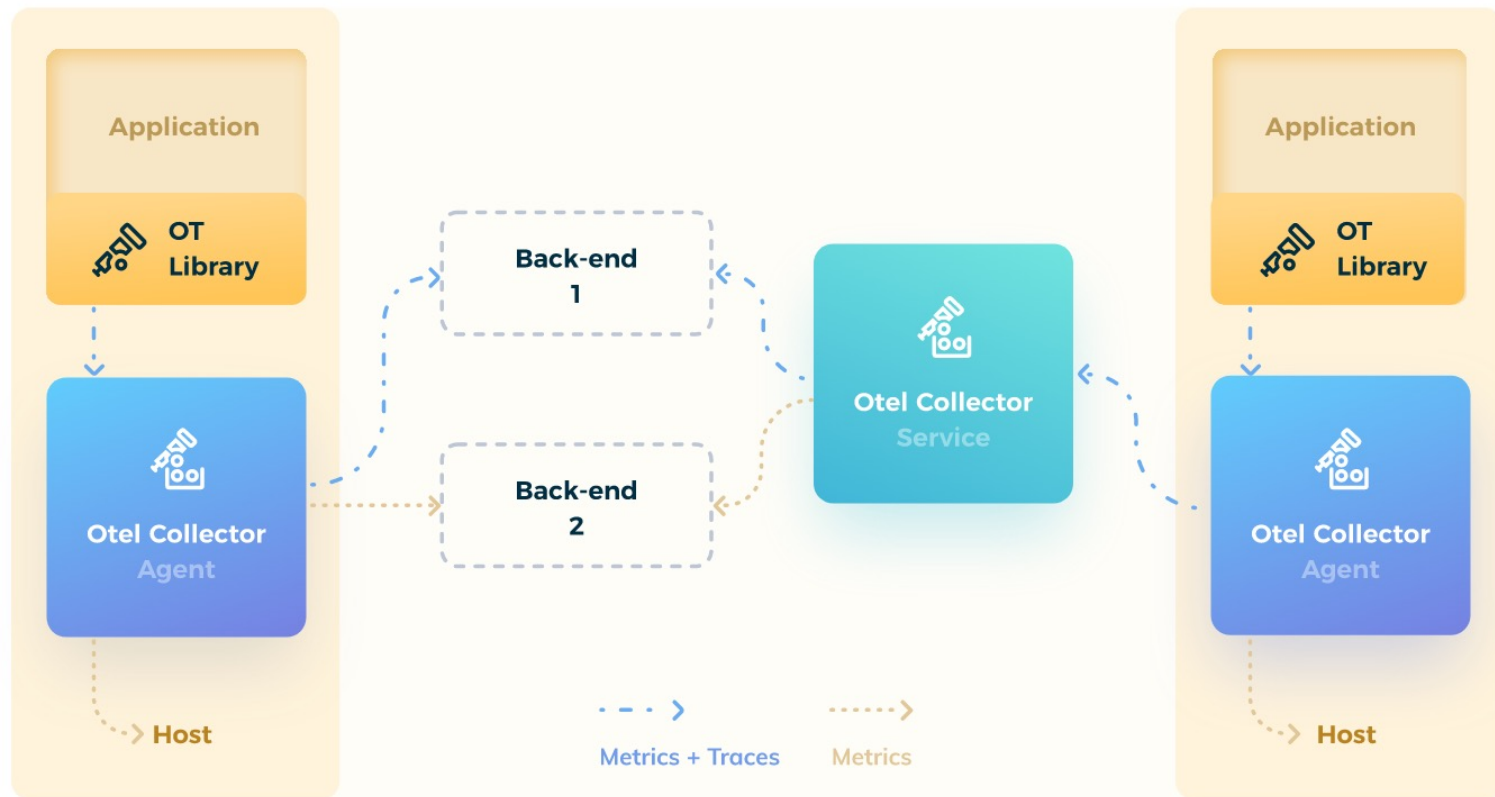
OpenTelemetry

<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



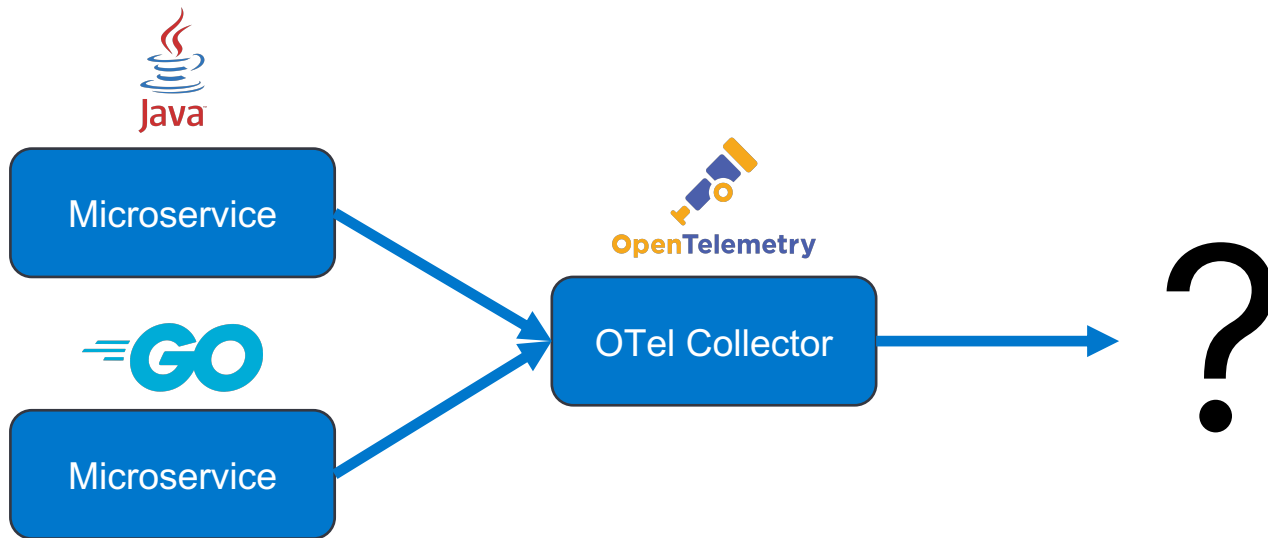
Is OpenTelemetry
stable enough?

OpenTelemetry Stability

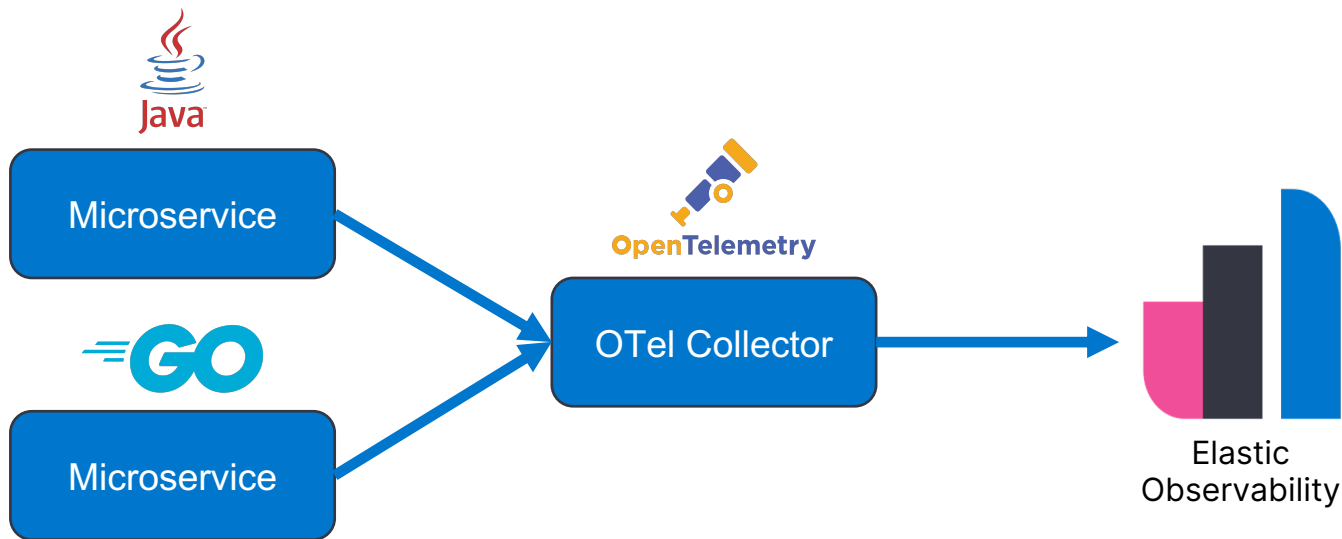
- **Traces** are GA and programming languages are mostly up to speed
- **Metrics** are almost GA and programming languages are mostly up to speed
- **Instrumentation libraries** are popping up every single week. Help to accelerate this.
- **Logs** are not ready. But you can use the collector for most things log-related.
- **TL;DR:** yes... start using OpenTelemetry

Time to see some
hands-on stuff

Creating a observability backend



Creating a observability backend

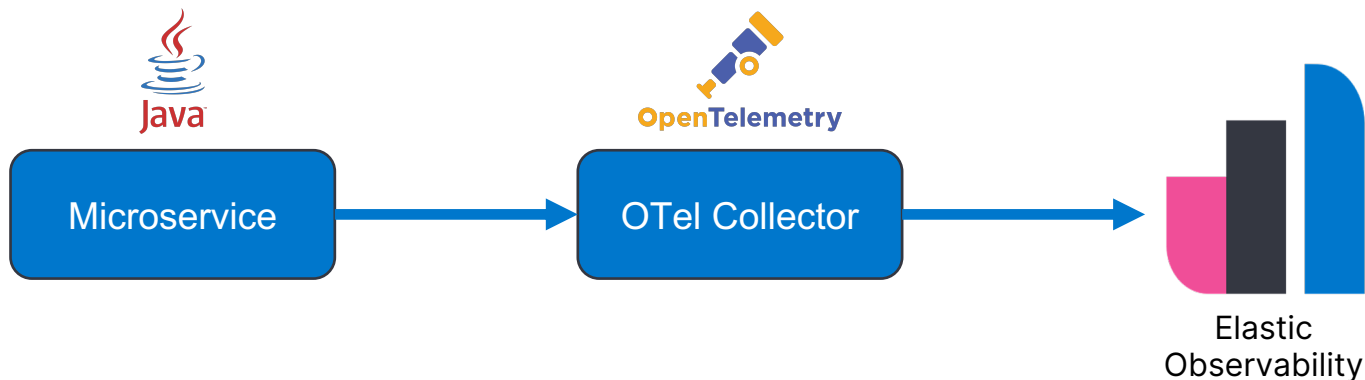


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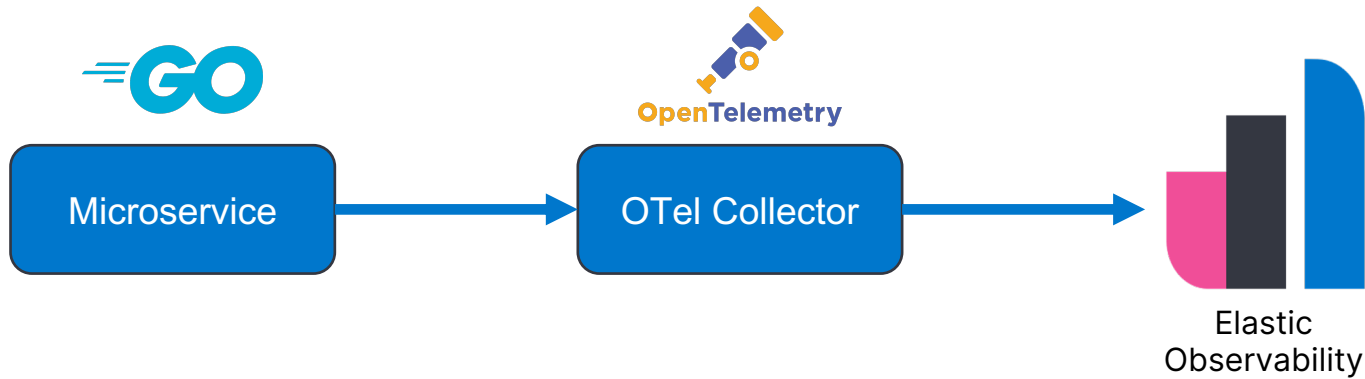
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cloud.elastic.co/registration

Example of instrumented app in Java



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

Example of instrumented app in Go



<https://github.com/riferrei/otel-with-golang>

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Thank You