



# End to end visibility into Kafka using OpenTelemetry

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# Agenda

- Why do we want end to end visibility?
- What is OpenTelemetry and why should we care
- Integrating it to Kafka



# About me: Michael Haberman

- CTO and Co-Founder @ Aspecto
- Working with microservices and distributed applications for the past 5 years



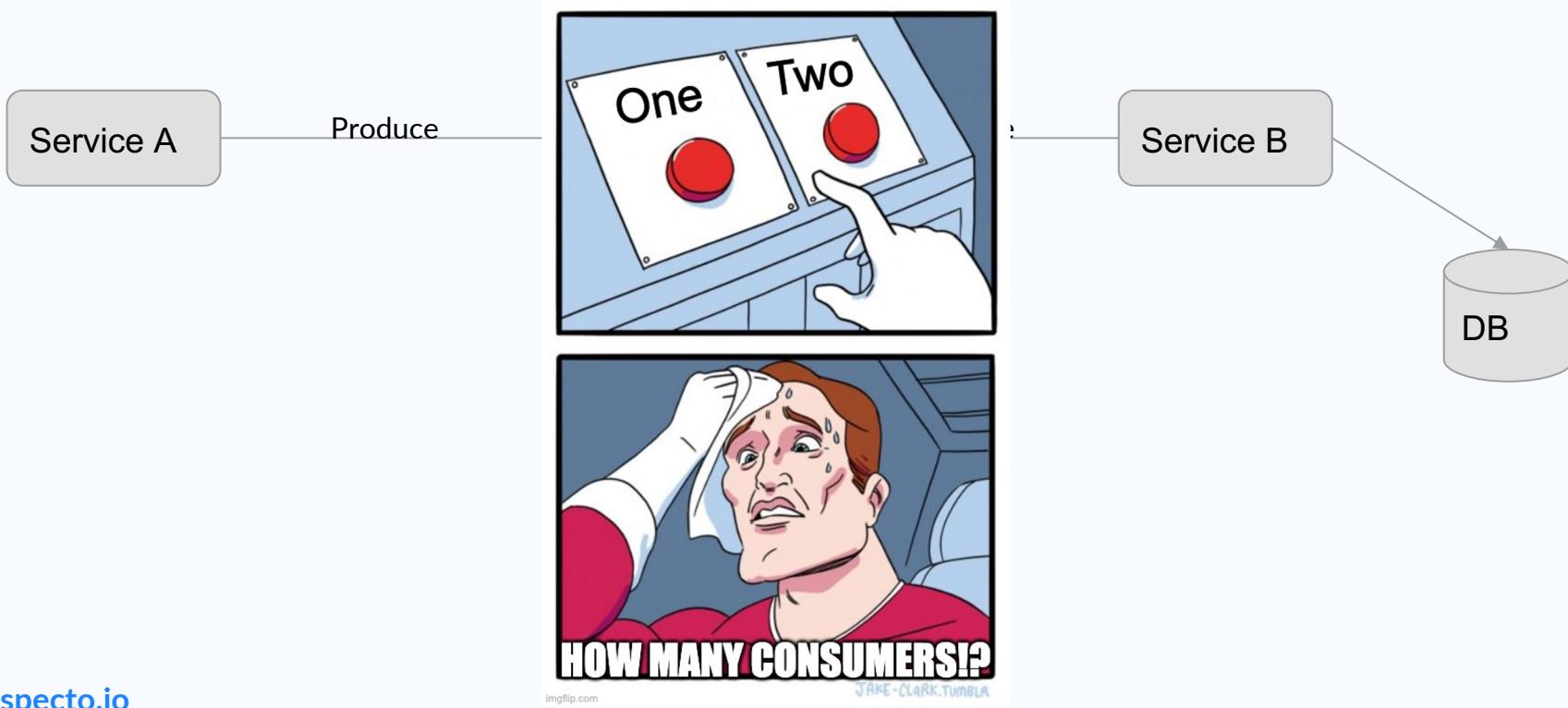
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# End to end visibility



# We want to see!

We want to visualize messages flow:

- Who produced?
- Who consumed?
- What did each consumer had done with the message?



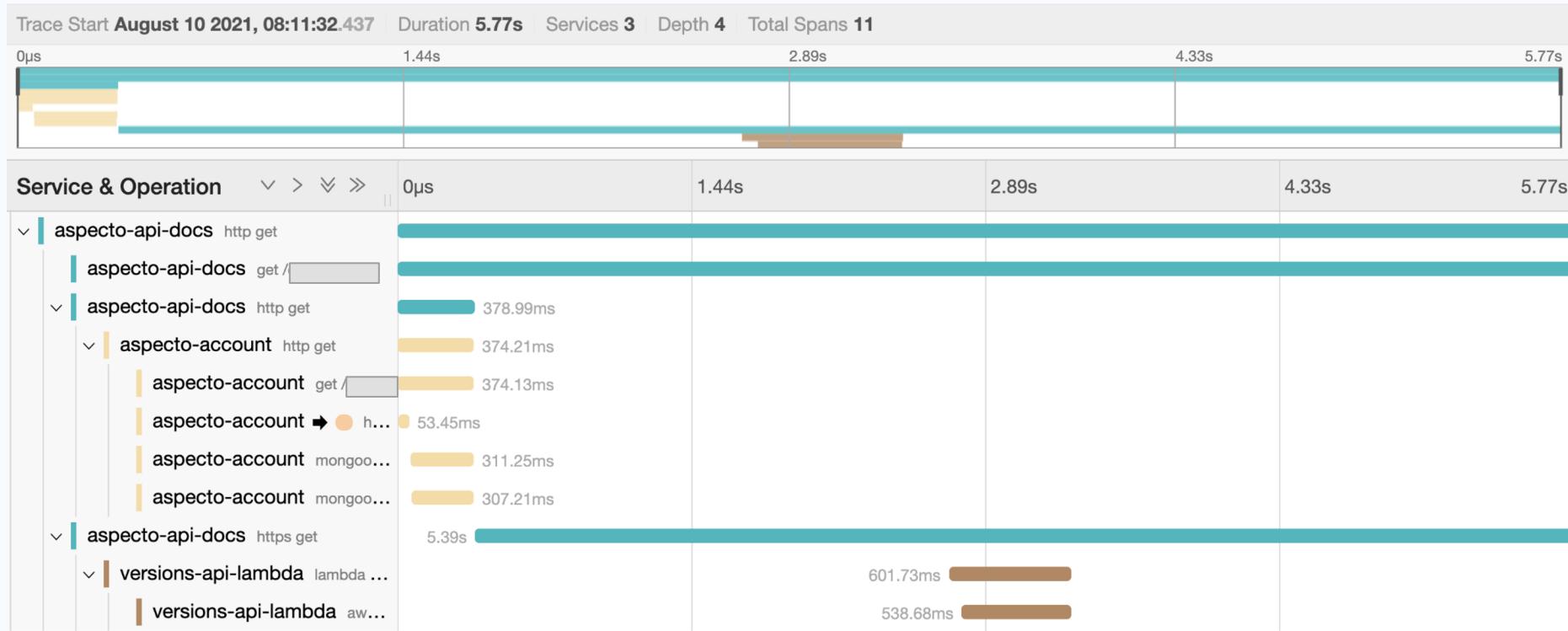
# Traces!

OpenTelemetry allows us to collect distributed traces:

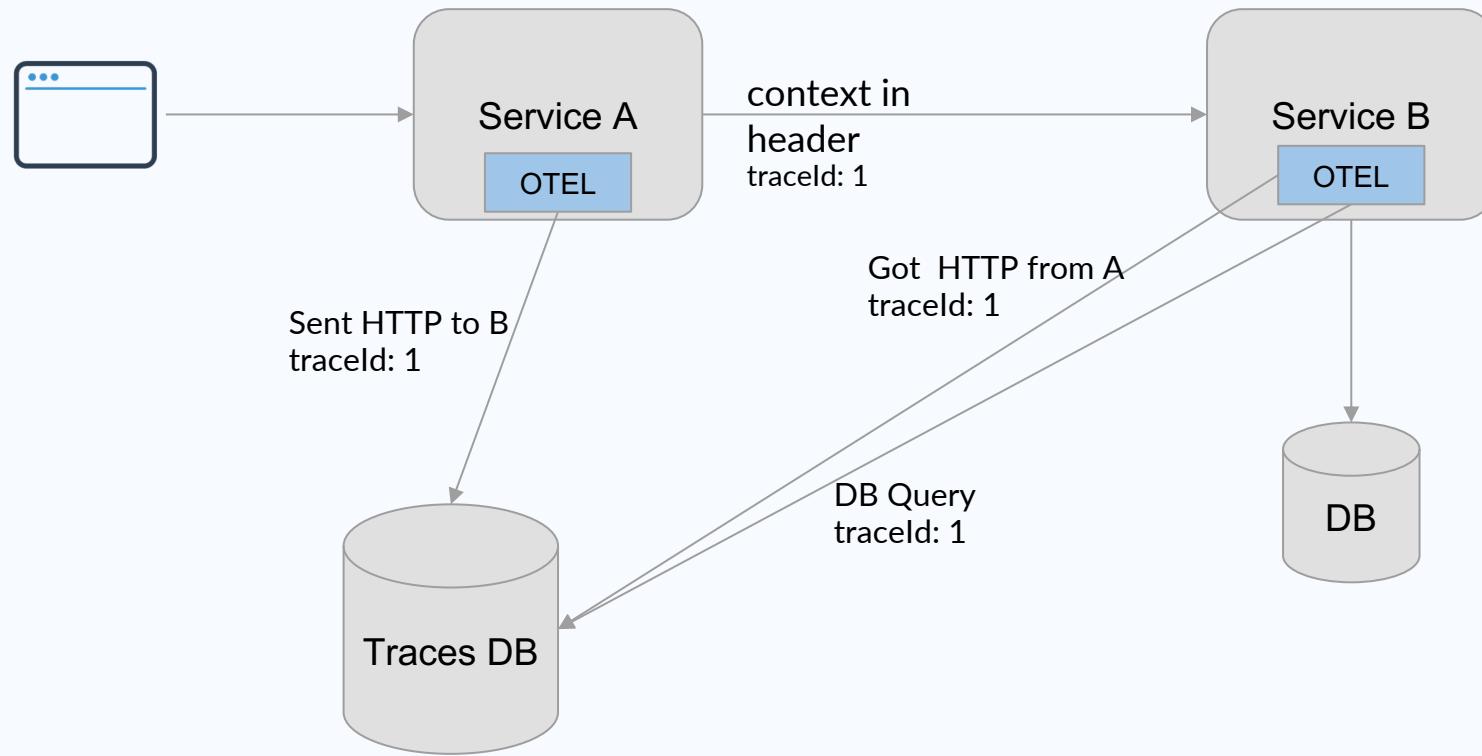
- CNCF Project
- Code level (SDK)
- Sends the data to be visualized (vendor, open-source)



# Traces!



# How traces works?



# DEMO

Let's look at some code!

Our goal is to:

- Integrate OpenTelemetry with Kafka
- End to end visibility



# What we learned?

- OpenTelemetry on any distributed system
- Start by looking for auto-instrumentation
- If N/A - work a bit harder, it worth it!



# Questions?





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