



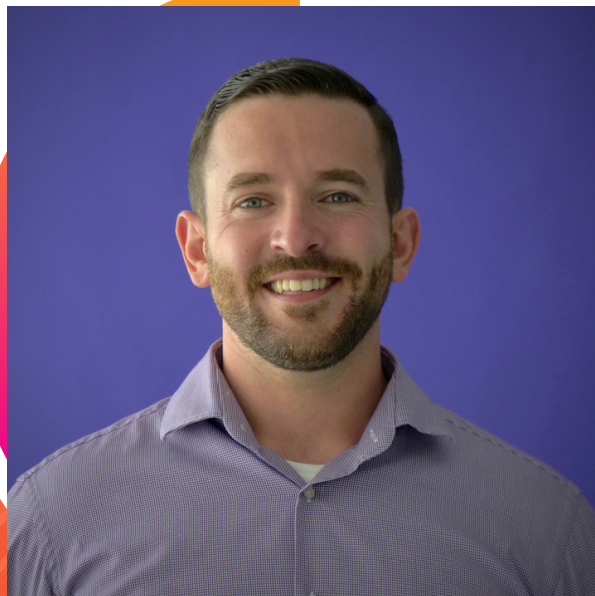
Unified Observability with OpenTelemetry

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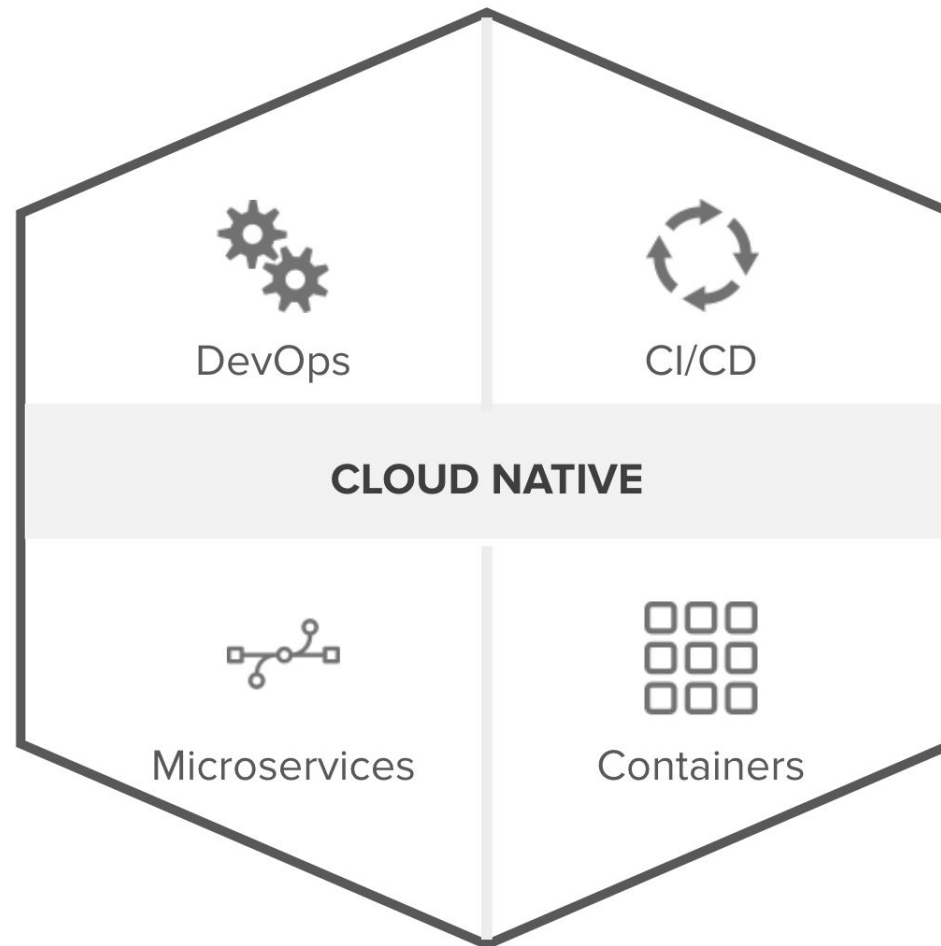
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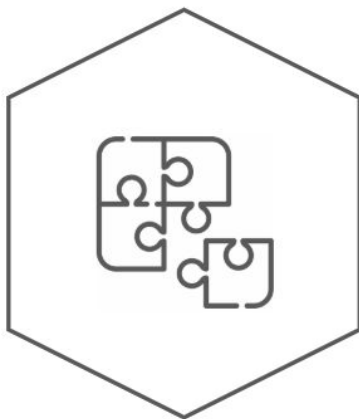


We Now Live in a Cloud Native World

We Build Software Differently



Pains of the Microservice World...



How to connect
problem to root cause?



Who to wake
up?



Which customer or
action is impacted?

Where is the Context?



Metrics



Logs

Three Pillars of Observability



Traces



Metrics

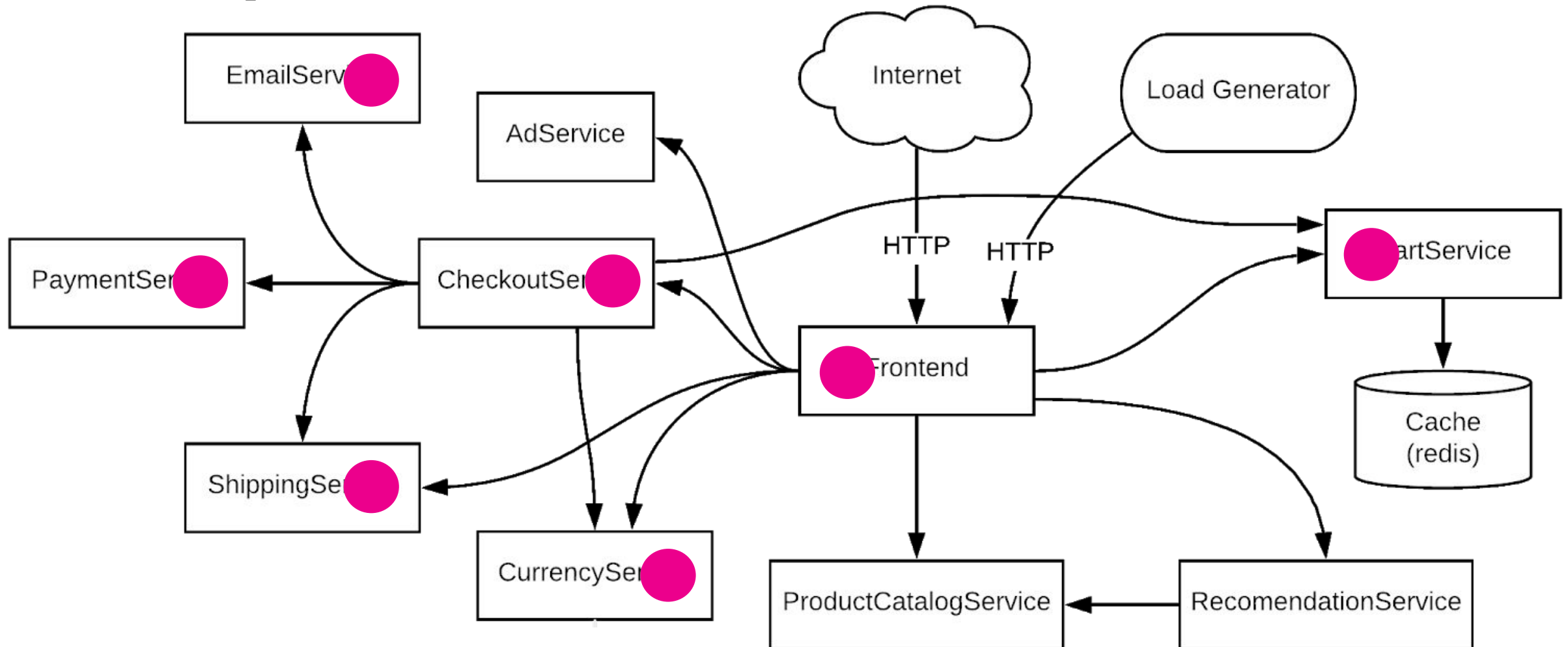


Logs

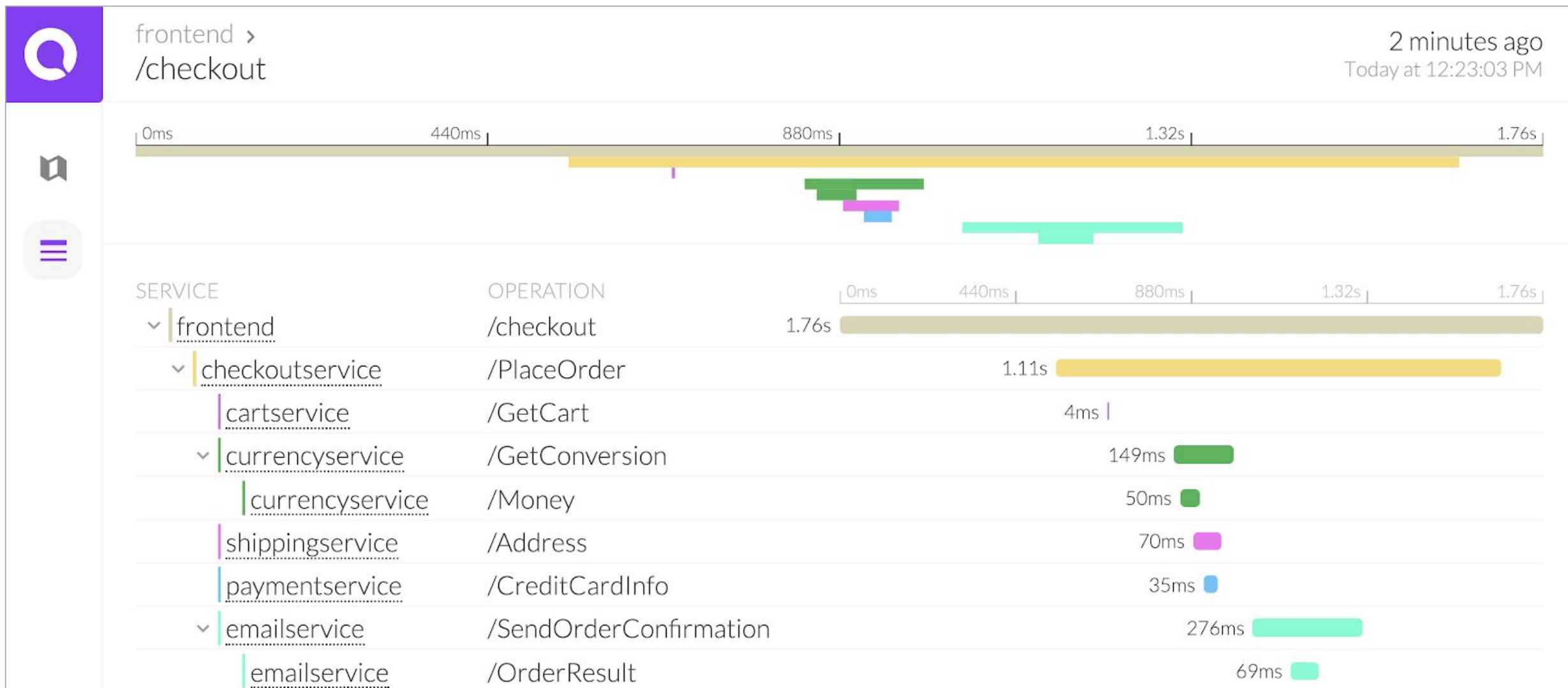


The Power of Distributed Tracing

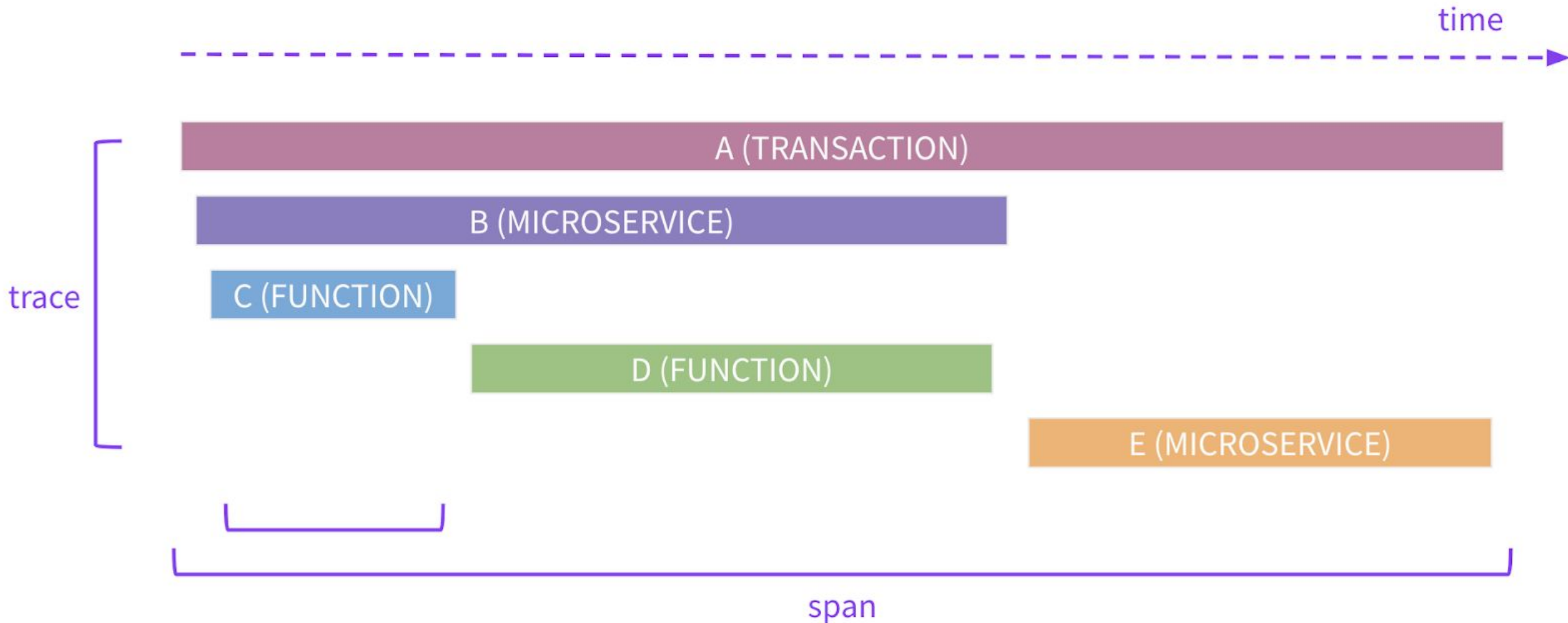
Example Microservice Architecture



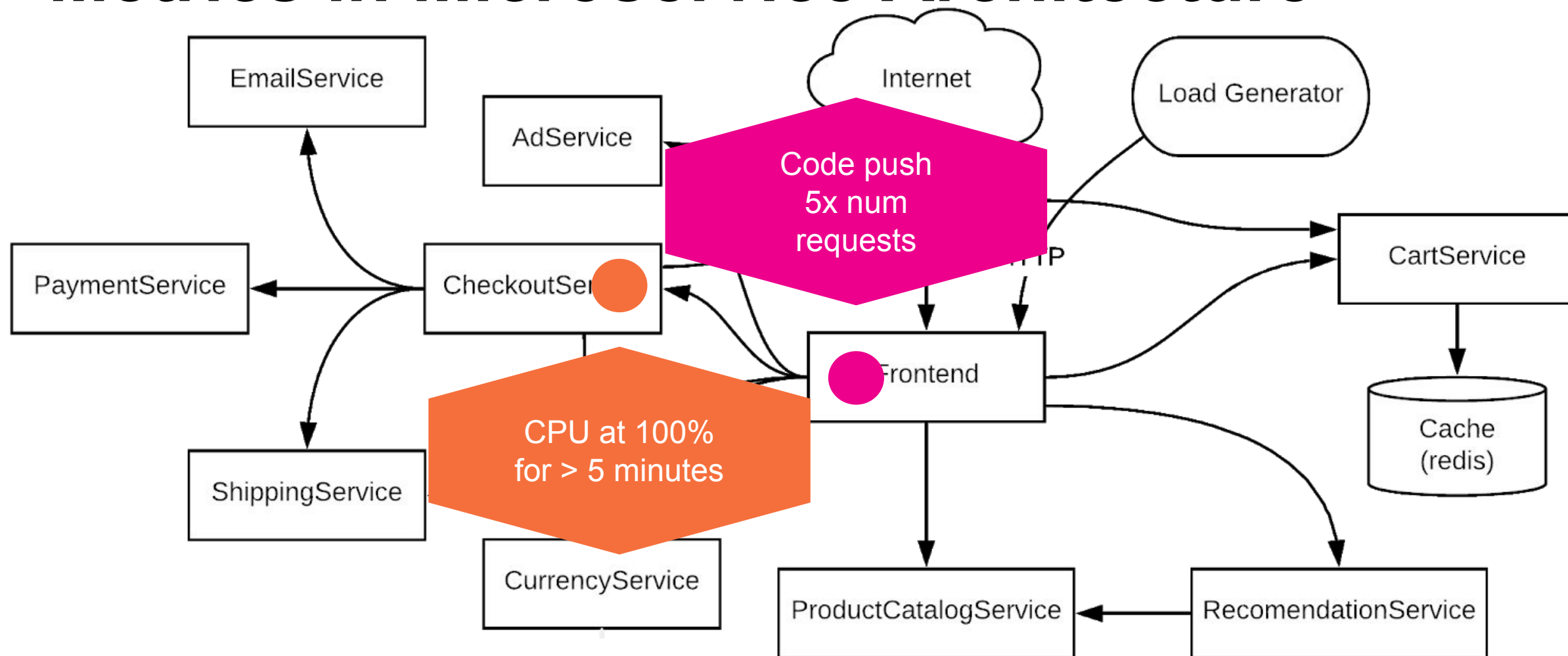
Distributed Trace Visualization



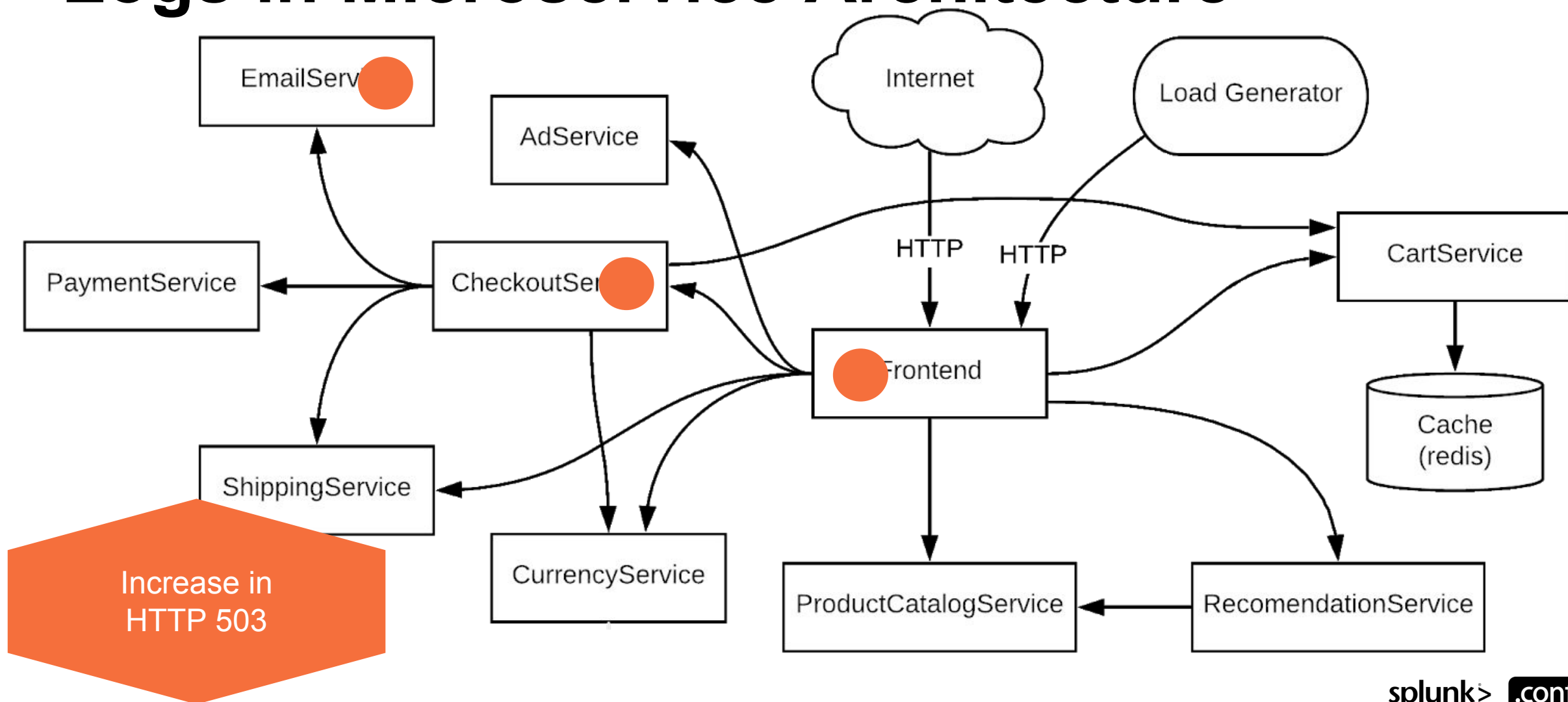
Distributed Trace Details



Metrics in Microservice Architecture



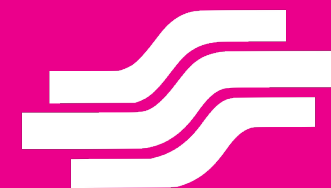
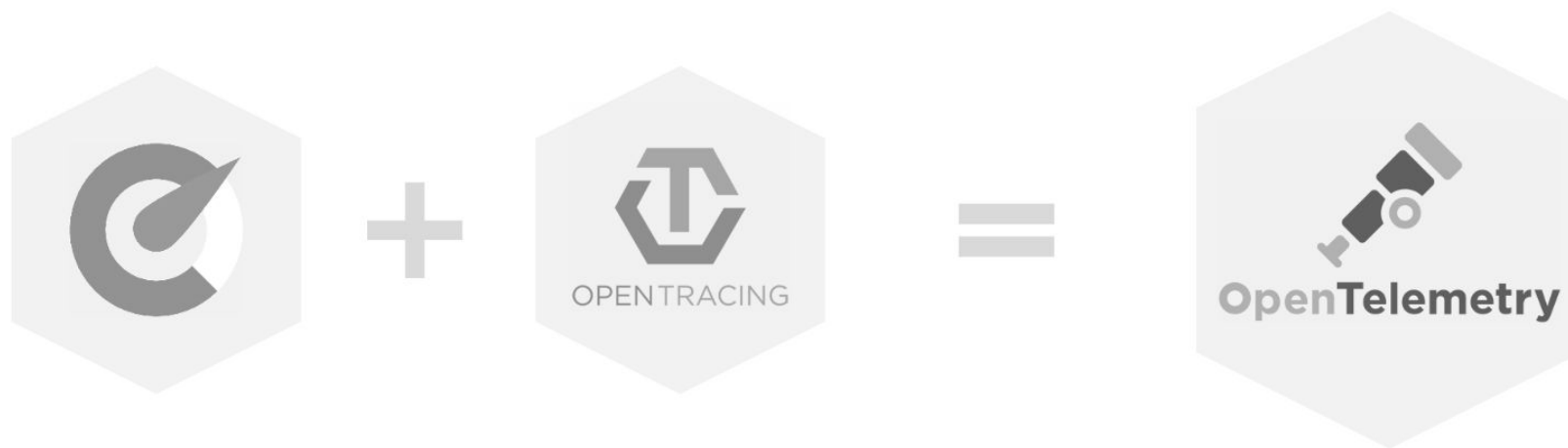
Logs in Microservice Architecture





Introduction to OpenTelemetry

OpenTelemetry



And many more...

Cloud Native Telemetry

Telemetry “verticals”

Telemetry “layers”

Tracing

Metrics

Logs, etc

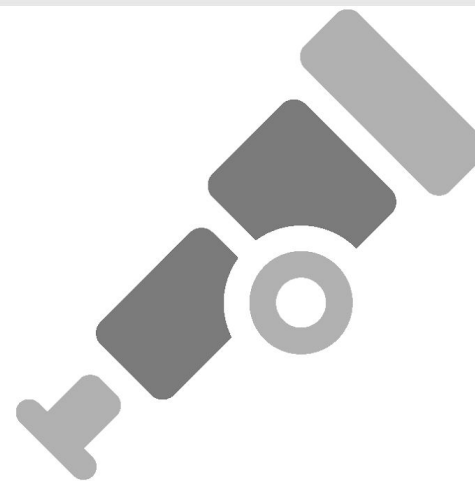
Instrumentation APIs

Canonical
implementations

Data infrastructure

Interop formats

OpenTelemetry



Client Libraries

1. Add a client library dependency
 - Choose a context propagation format
 - Instantiate a tracer
 - Configure a destination
2. Enhance spans
 - Key/Value tags
 - Logs
3. Add more spans
 - Functional level instrumentation
 - Integrations (DBs, public cloud services, etc.)

OpenTelemetry Collector

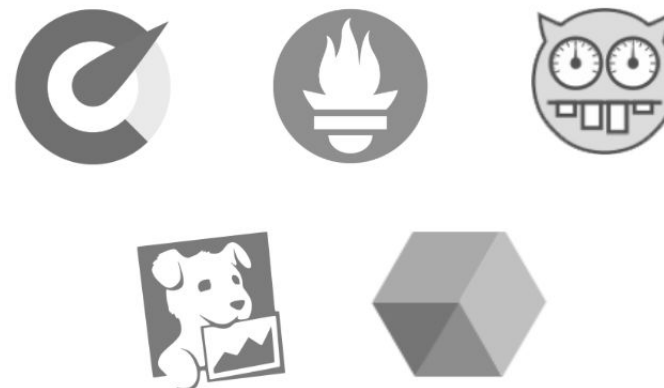
RECEIVERS

EXPORTERS

TRACES



METRICS





DEMOs

THANK YOU!

Links

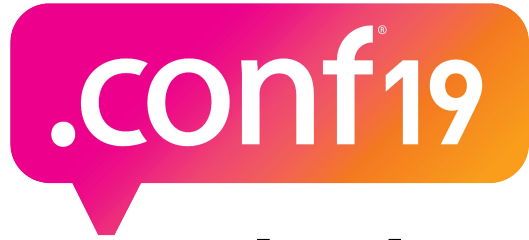
- <https://opentelemetry.io>
- <https://opencensus.io>
- <https://opentracing.io>

GitHub

- <https://github.com/open-telemetry/community>
- <https://github.com/census-instrumentation>

Other

- Twitter: @opentelemetry
- Gitter: open-telemetry



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Thank

You



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