



OpenTelemetry

La observabilidad desde el Open Source



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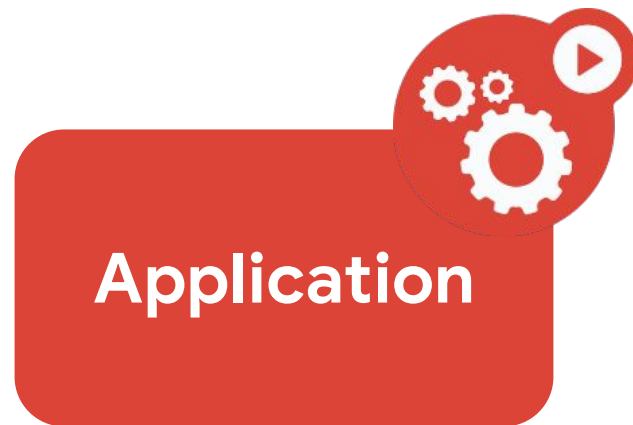
isra.rocks

Quality Engineer at Red Hat

Google Developer Expert en Google Cloud

Google Developer Group organizer

Observability?

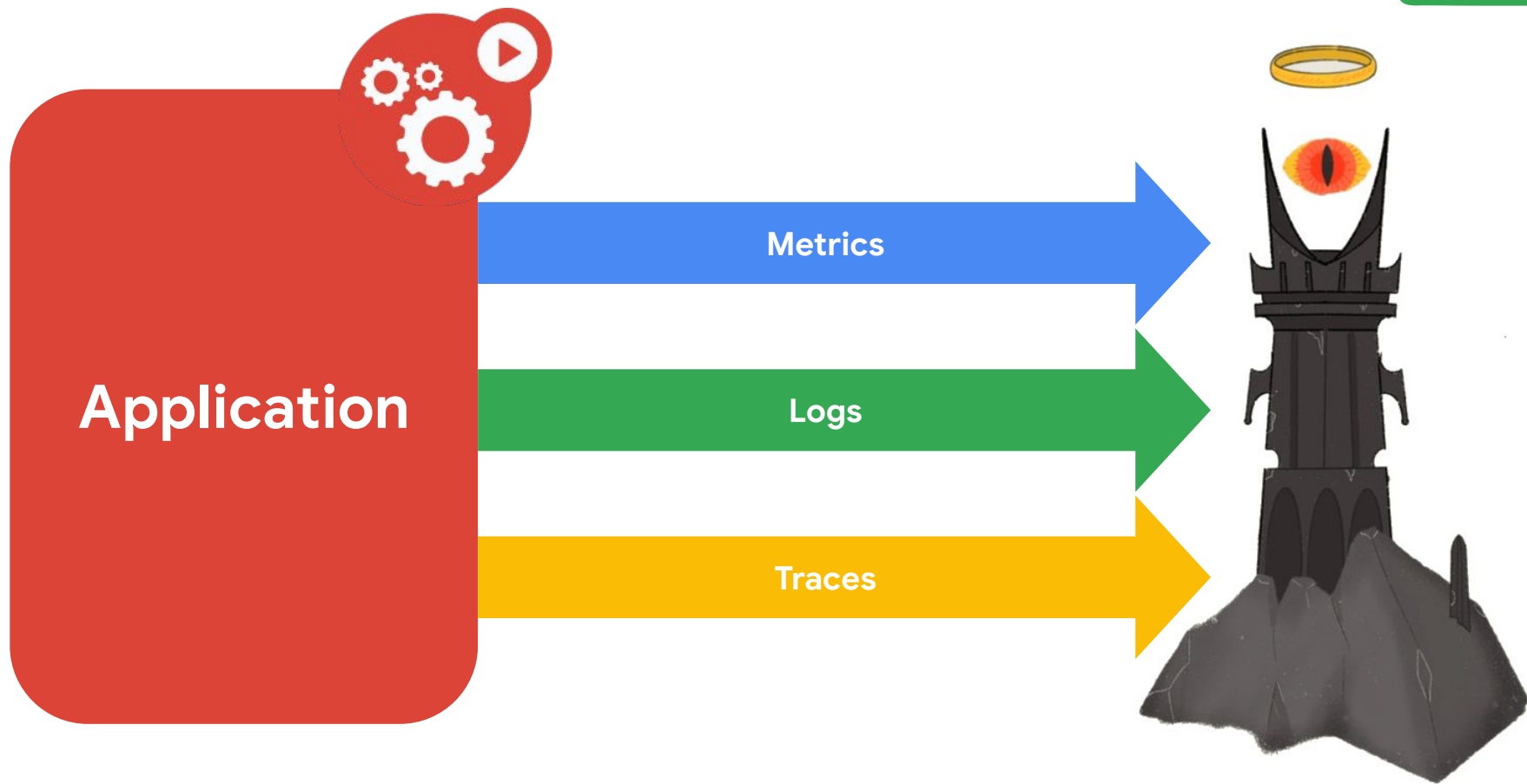






What do we usually do?

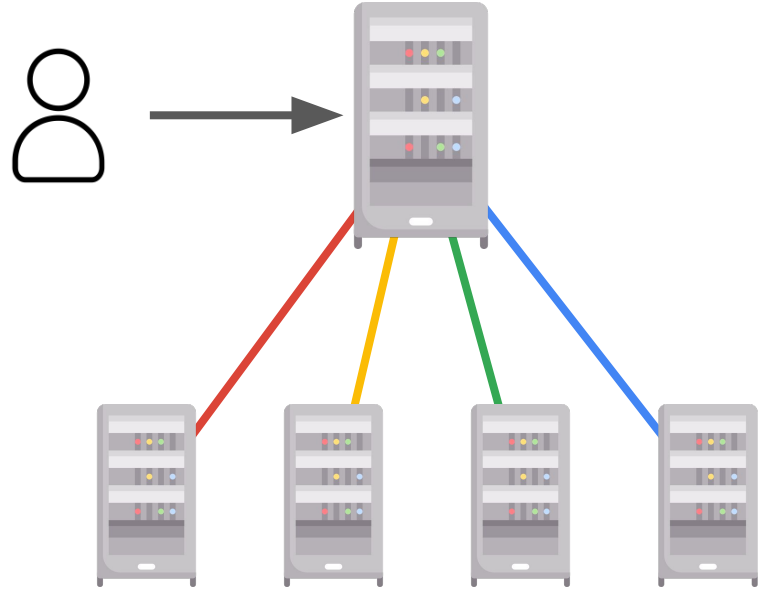
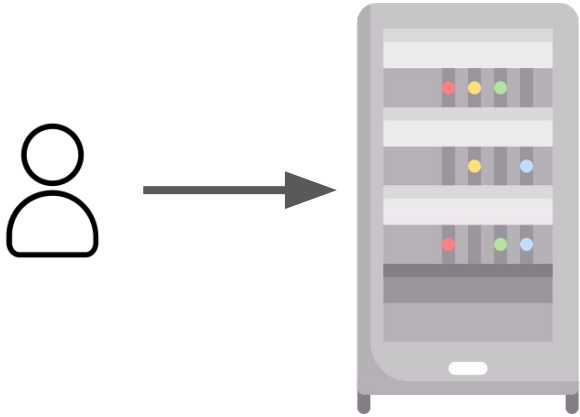
Check the stacktrace and read the code
until find what is wrong



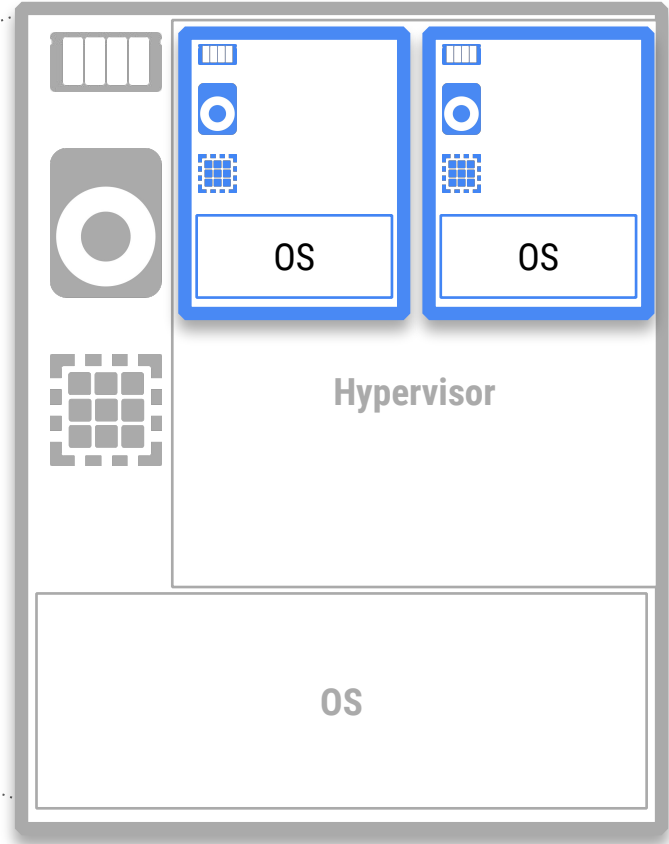
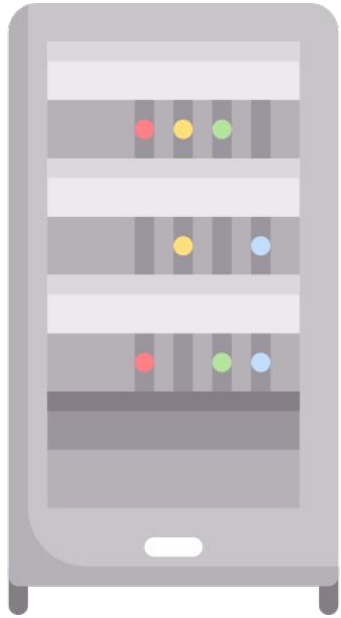
**Why is “observability”
something interesting?**

A quick introduction

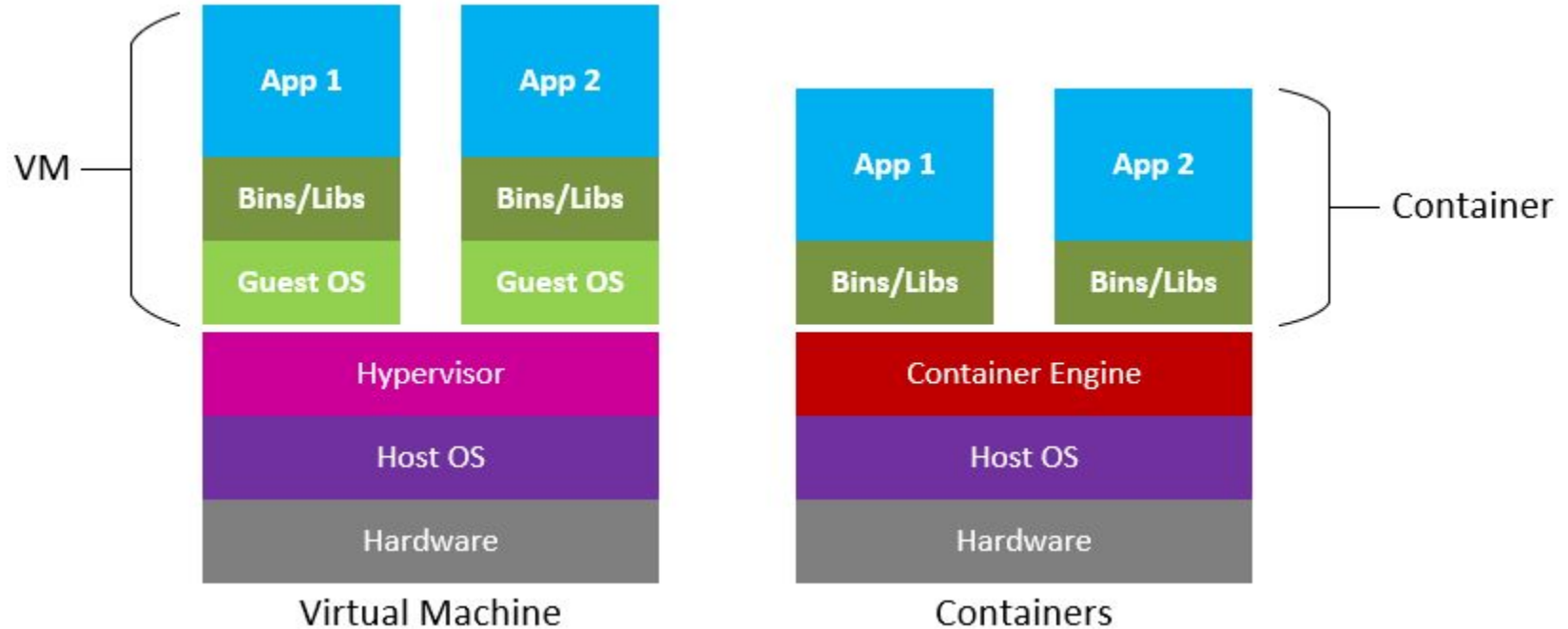
Scaling up the infra



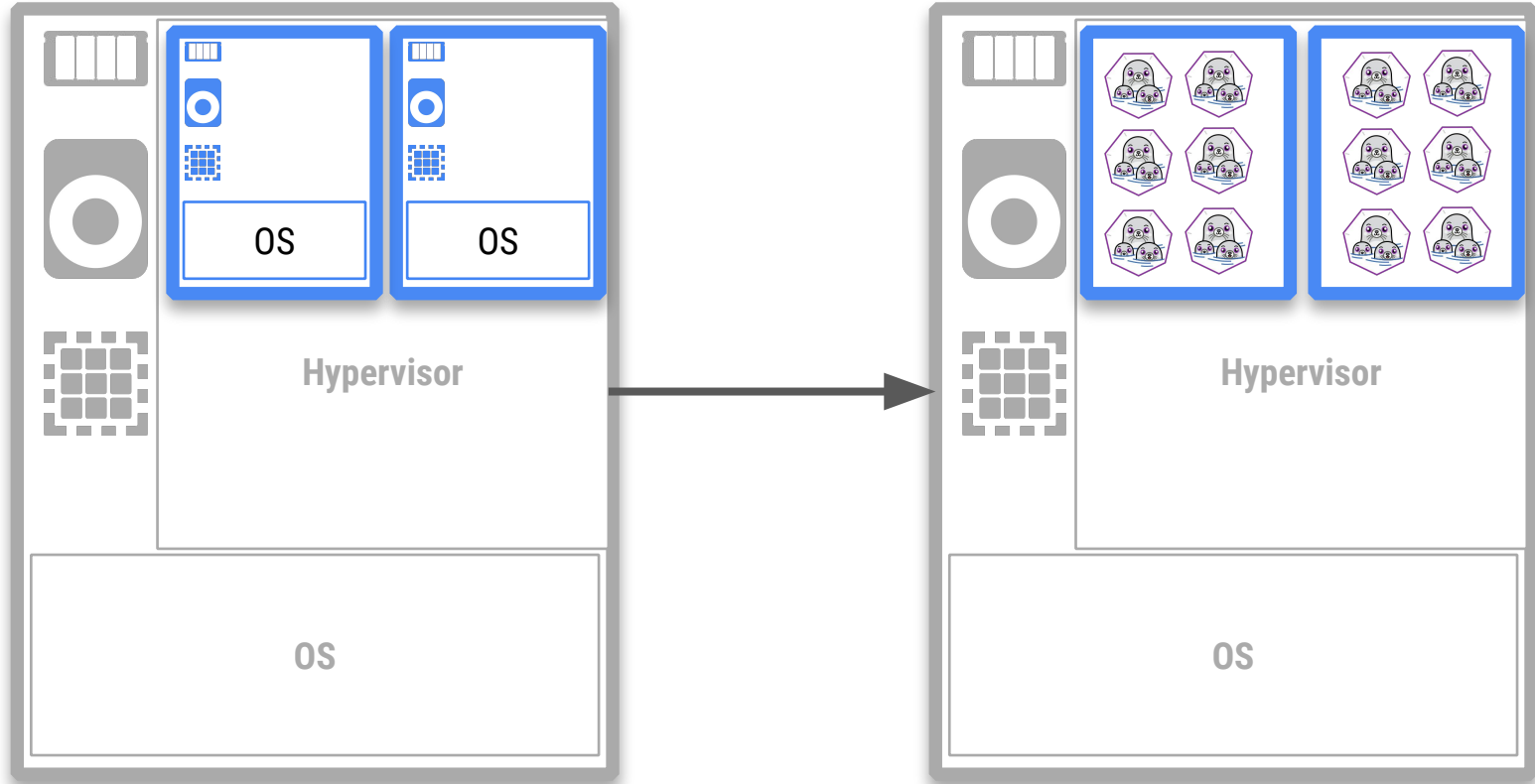
Scaling up the infra



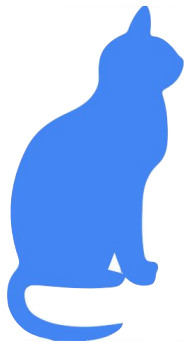
Scaling up the infra



Scaling up the infra

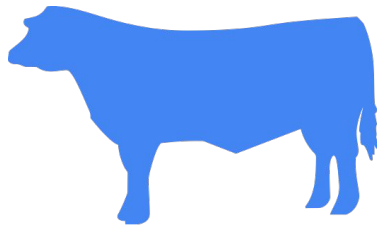


Scaling up the infra



Pet (VM)

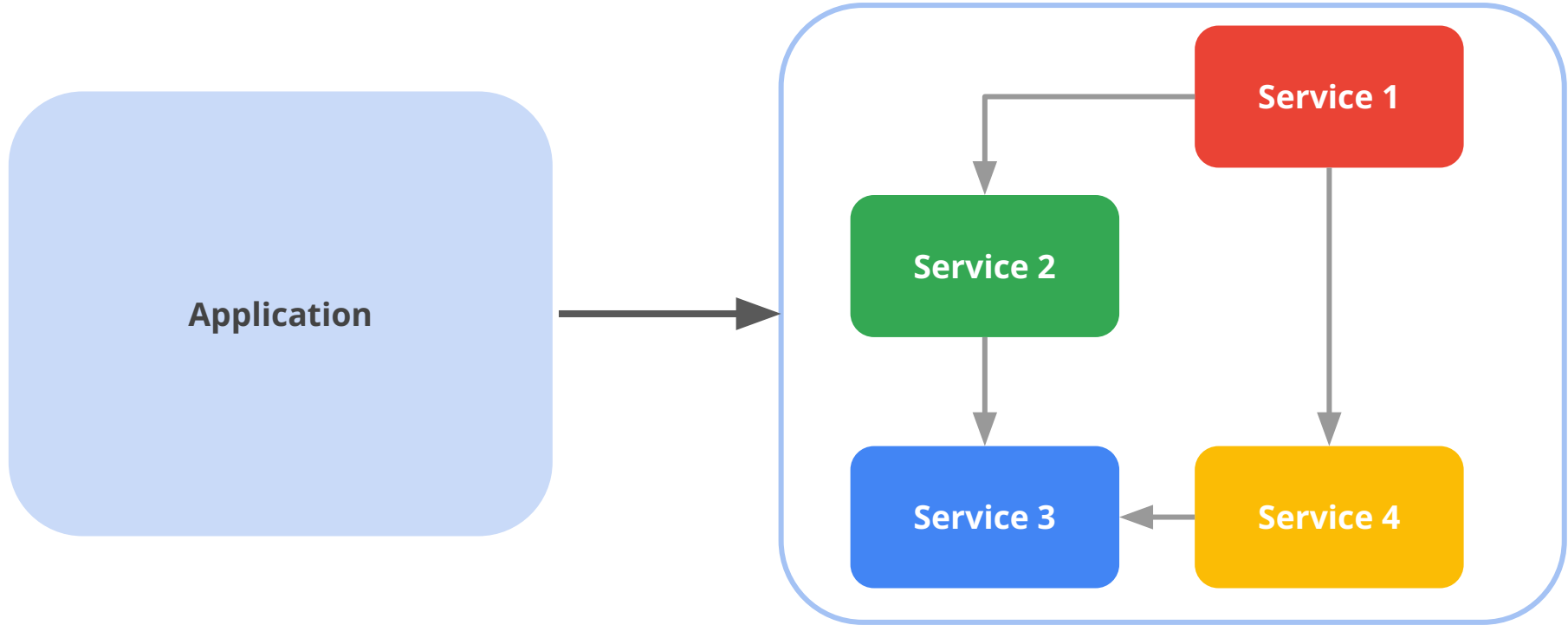
- Has a name
- Is unique or rare
- Personal attention
- If it gets ill, you make it better



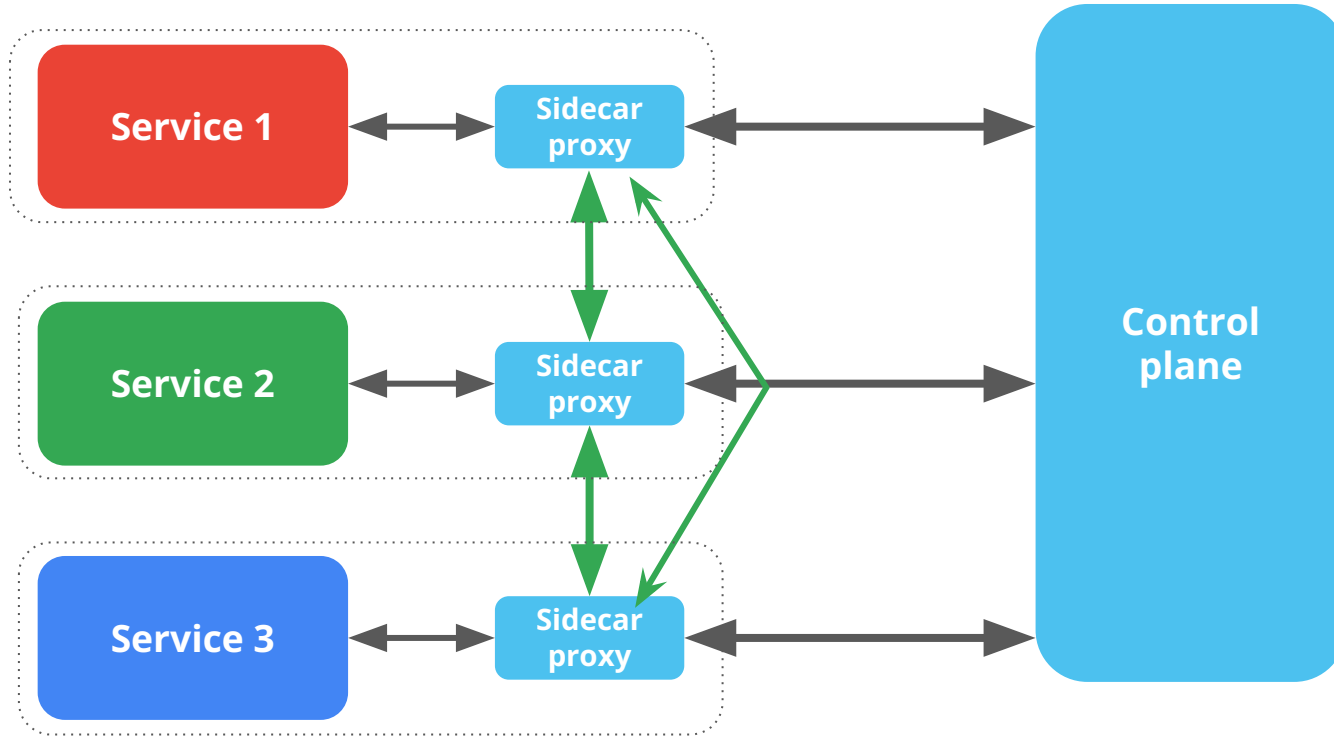
Cattle (containers)

- Has a number
- One is much like any other
- Run as a group
- If it gets ill, you sacrifice it

Microservices



Service meshes



Why do we need this?

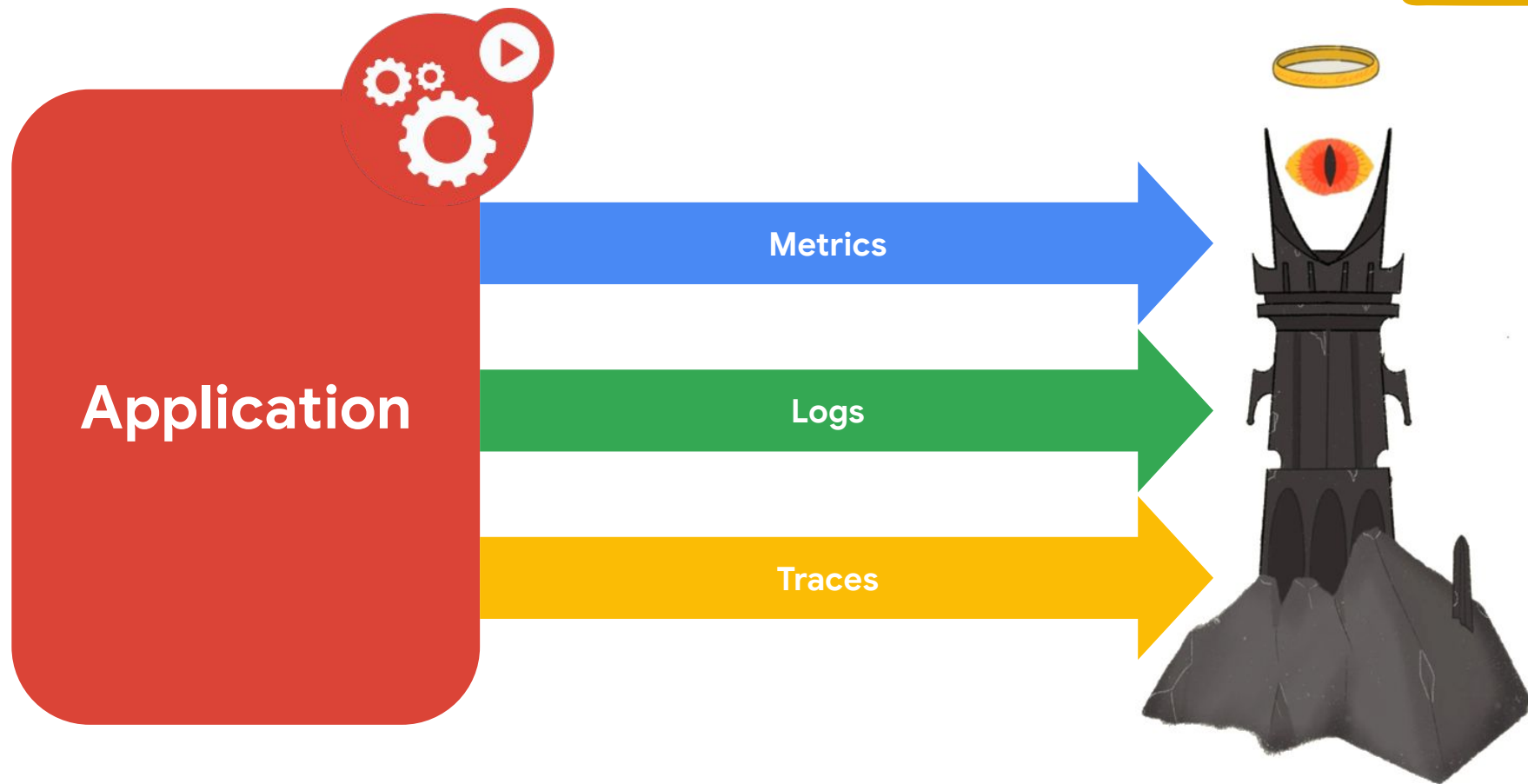
It all about the money!

It all about the money

Disaster can not be avoided

- Untested code paths
- Corner cases
- Outages
- Human error
- Network issues: latency, bandwidth, reliability, homogeneity...

Ok so... observability



Observability and monitoring



Alerting



Overview (dashboards)

} Monitoring



Profiling, debugging,
tracing, logging,
dependency analyses...

} Observability

Failures appear

- What?
- When?
- Why?

Distributed systems as context

Some technology examples

Tracing

Jaeger



Metrics and alerts

Prometheus, Thanos



Log Management

Elastic, Fluentd, Kibana



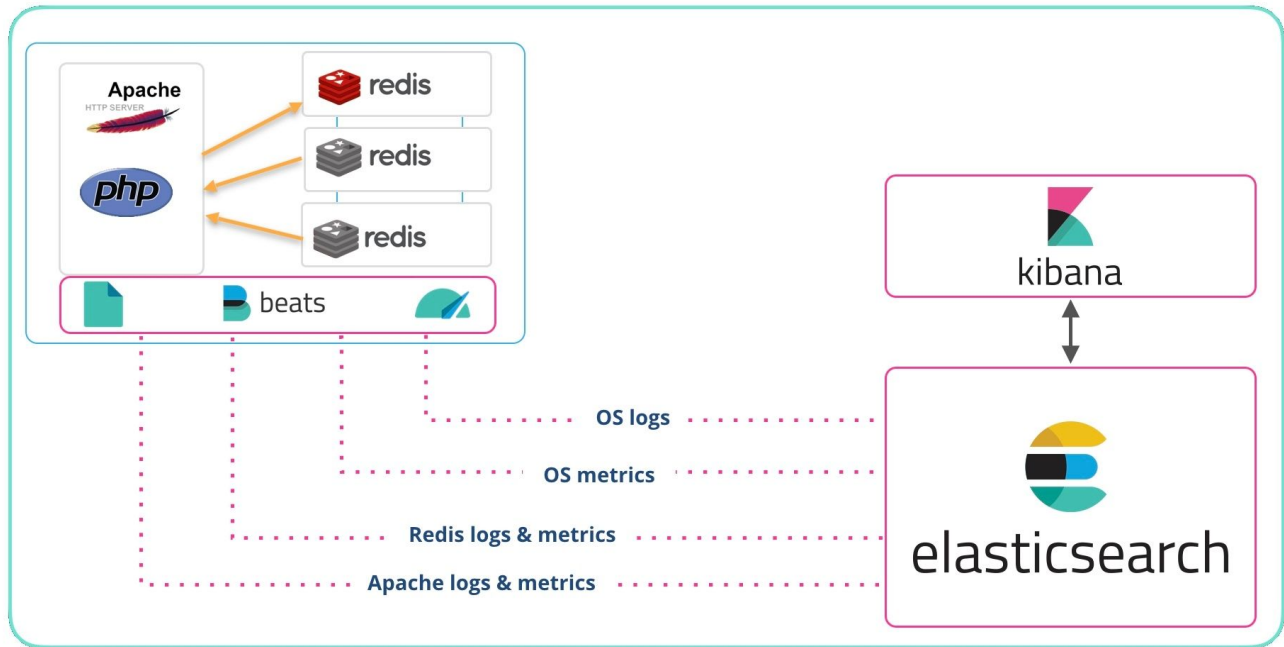
Management Dashboards

Kiali, Grafana, OpenShift UI

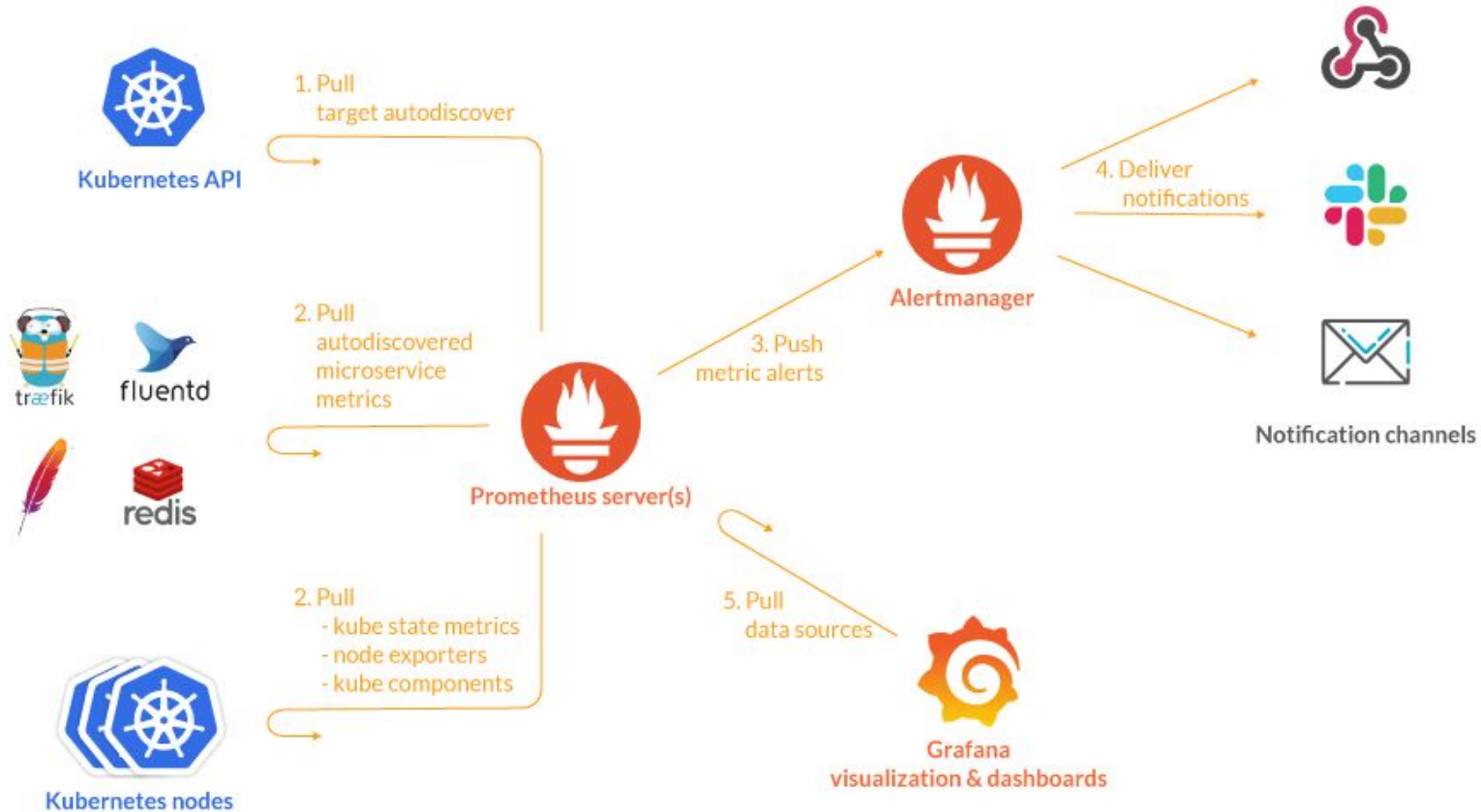


Logging

Solutions to manage and analyze big amounts of logs from different systems



Metrics



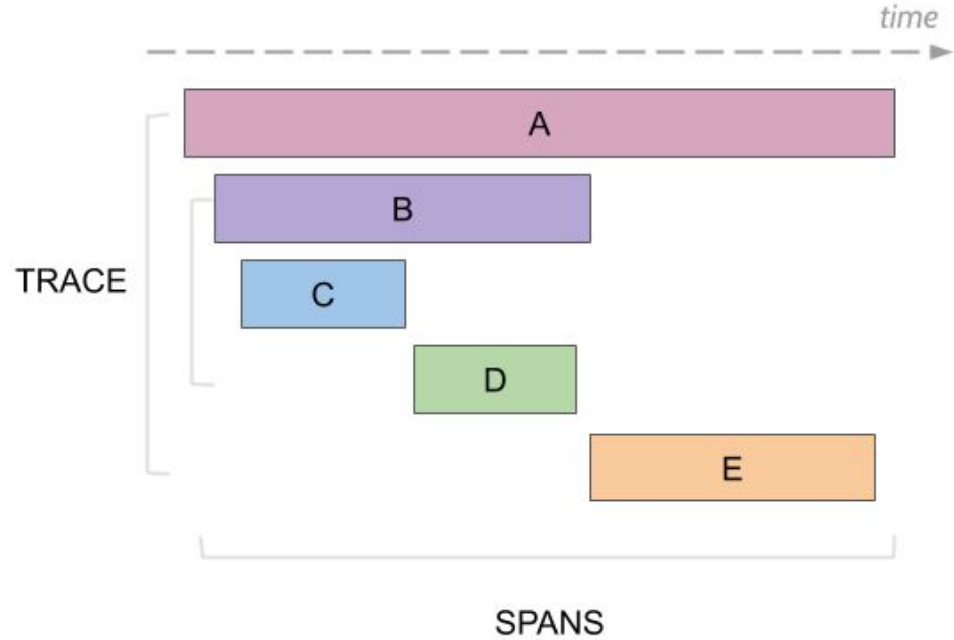
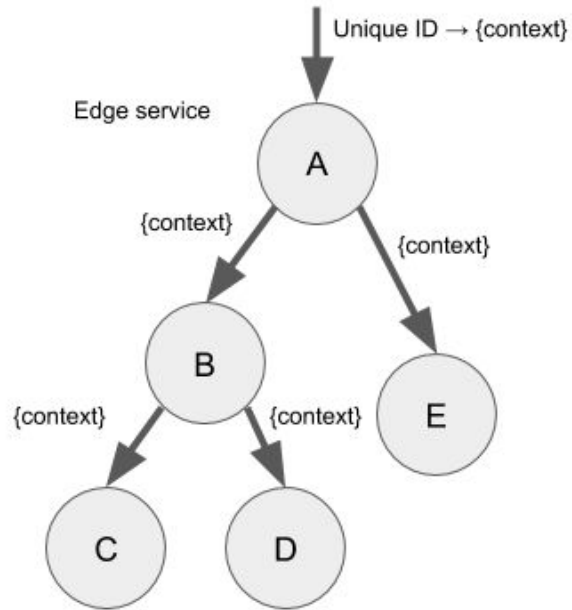
Distributed tracing

Distributed tracing

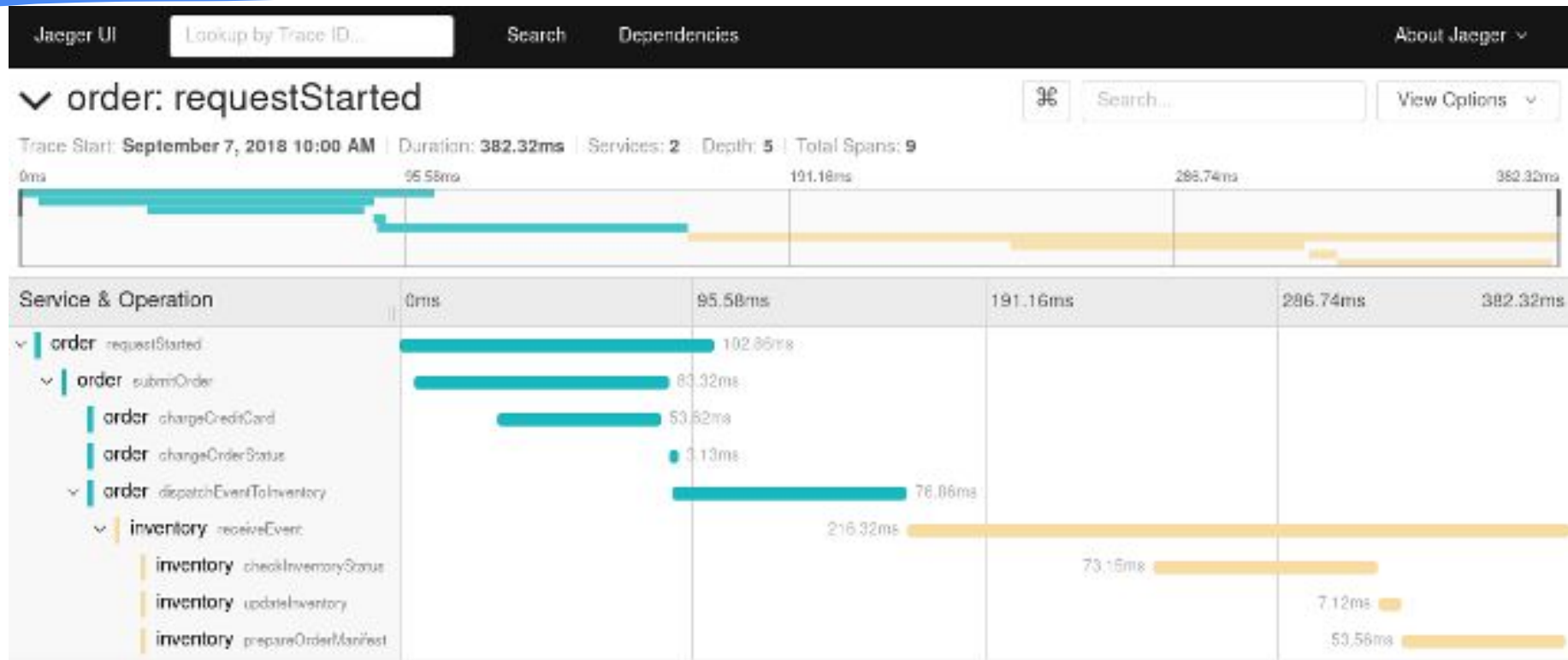
Tells the story of a request across services

Which services were touched, when, in which order, what parameters were used...

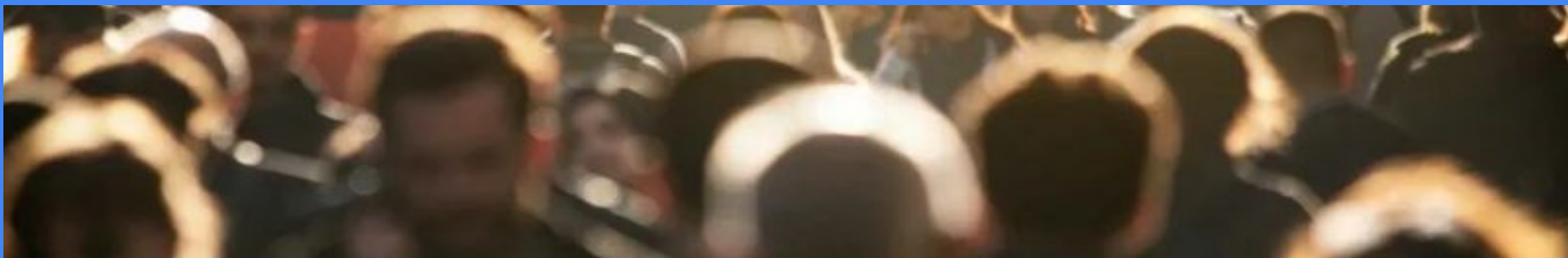
Spans



Spans



dev.to/iblanca



Israel Blancas

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Edit Manage Stats

Observability: the basics

#observability #tracing #logging #metrics

Some technology examples

Tracing

Jaeger



Metrics and alerts

Prometheus, Thanos



Log Management

Elastic, Fluentd, Kibana



Management Dashboards

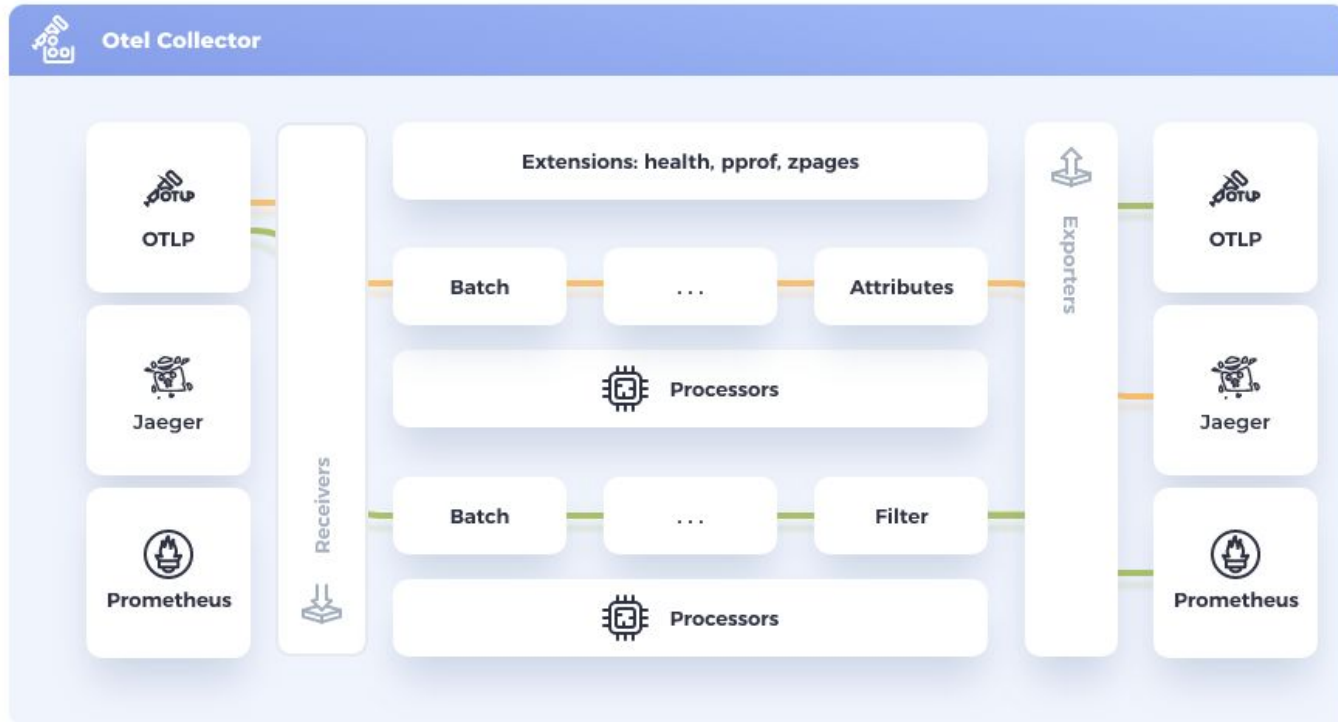
Kiali, Grafana, OpenShift UI



Solution



Solution



OpenTelemetry metrics release candidates are now available! [Read more](#)



OpenTelemetry

High-quality, ubiquitous, and portable telemetry to enable effective observability

[Learn more](#)[Mission, vision, and values](#)

opentelemetry.io

Thank you!

Questions?



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