

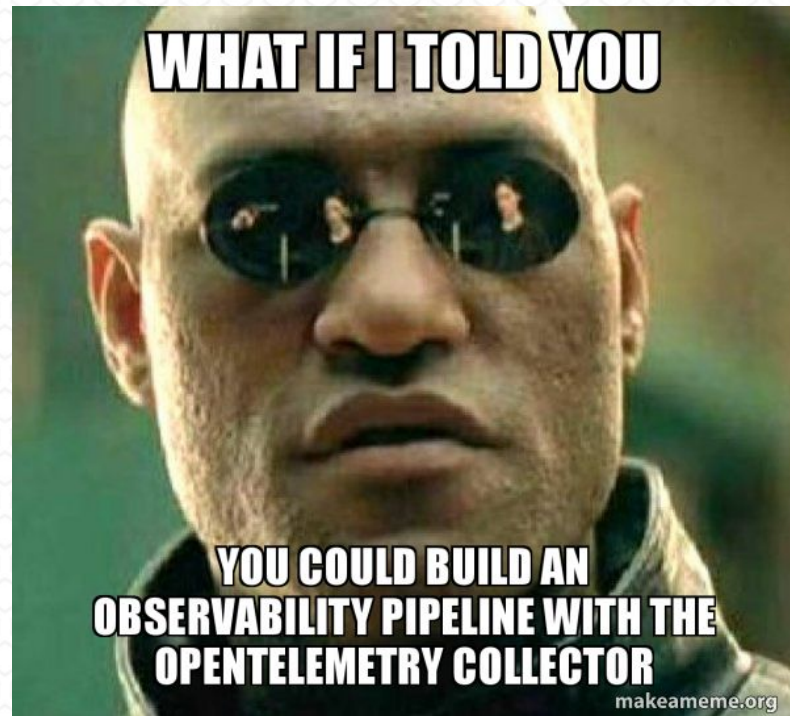
Empowering Observability with OpenTelemetry

Pavel Strobl / Prusa Research / 1695831000 / v2.0.1

What is OpenTelemetry?

OpenTelemetry basics

- Vendor-agnostic
- Framework
- APIs
- SDKs
- Definition of protocol
- Not storage backend!
- Auto-instrumentation
- Collector
 - Pipelines



State at Prusa Research

- Prometheus
 - For metrics
- Grafana Loki
 - For logs
- Grafana Tempo
 - For traces
 - Well...
- Sentry
 - For something else



OpenTelemetry in Kubernetes

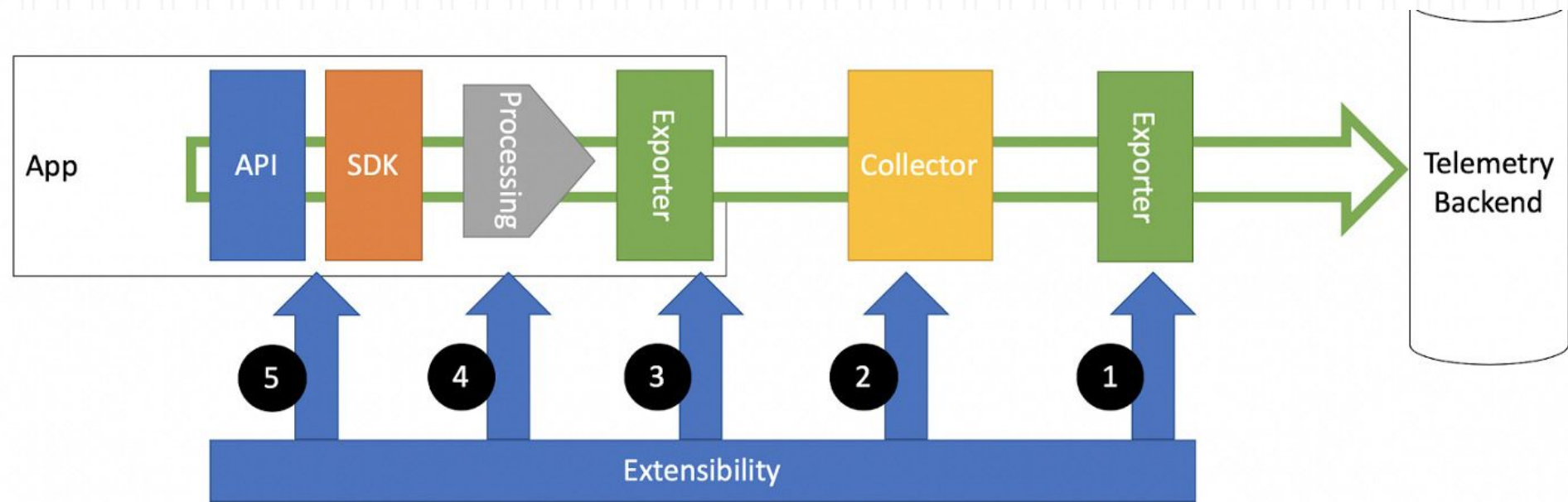
- K8s operator
 - Mostly works
- Slightly behind the collector
 - In terms of development
- Little bit moody
- You can deploy collector itself
 - Not so pleasant

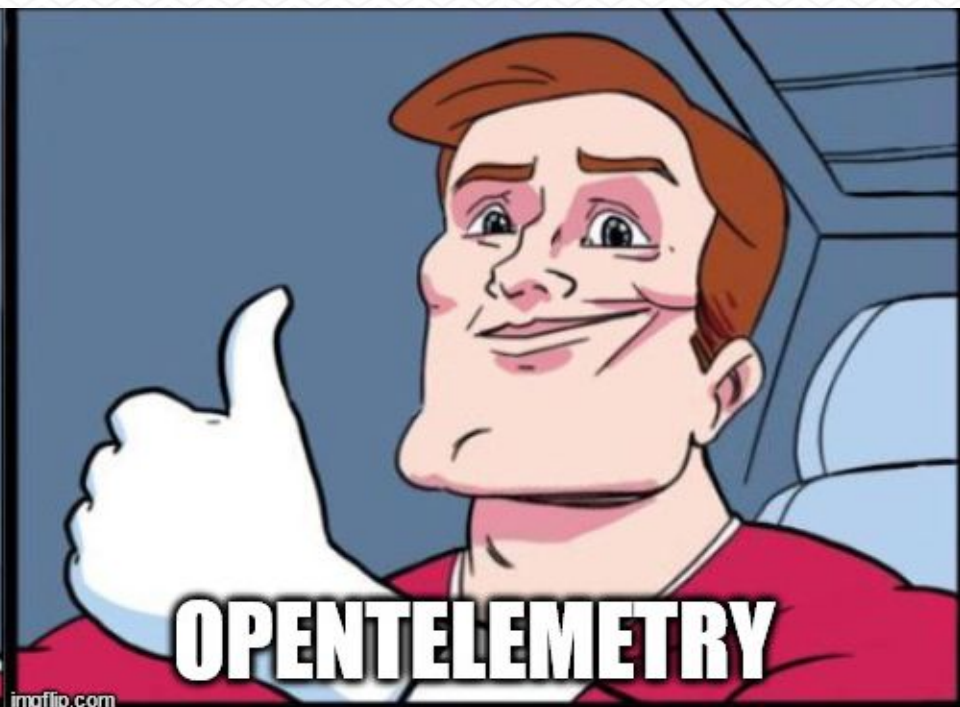
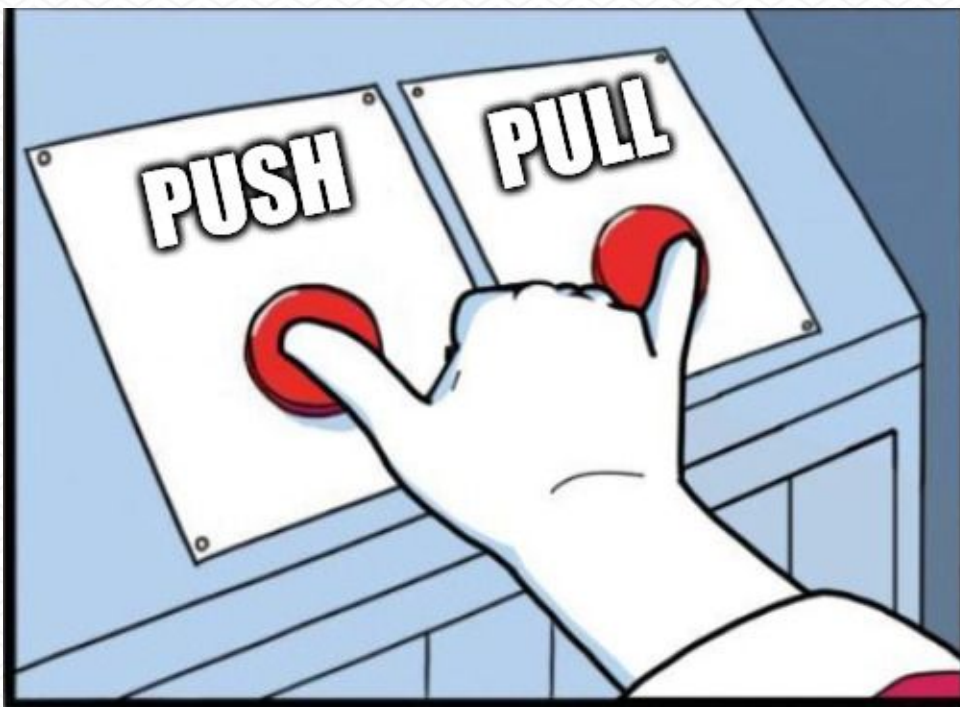


Dev vs. Ops

- Two approaches of OpenTelemetry
- Depends on your role
- Dev
 - needs instrument code
 - use of libraries
- Ops
 - can auto-instrument
 - only for selected languages

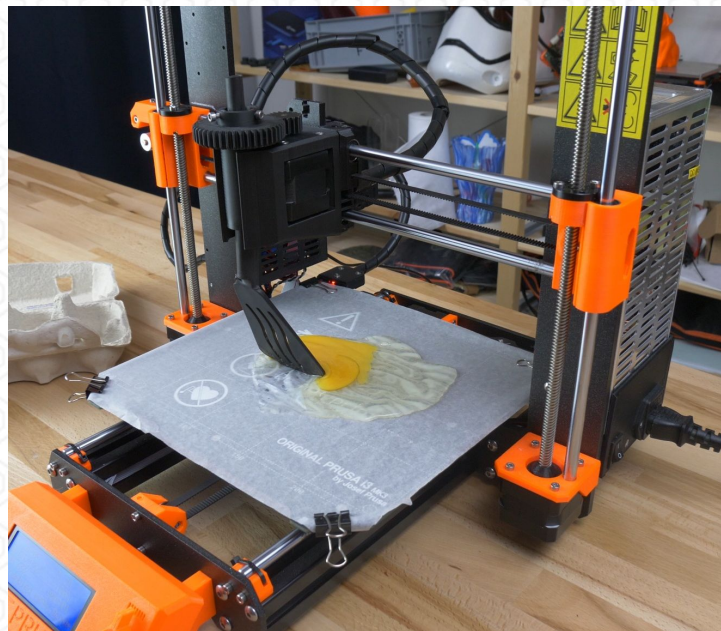






OpenTelemetry at Prusa Research

- Both of our clusters
- Logs in testing
 - Just for context
 - We use Promtail and Loki
- Mainly tracing
 - Nginx in prod
 - Replacement for Zipkin
- Experimenting with complete implementation



**What about the
future?**

Future of OpenTelemetry

- Part of CNCF landscape
- Incubating project
- Bright future
- Second most popular project
 - After...?
- Kinda stable
 - Depends on point of view



QA



Thank you!

I'll be back for christmas

