



**KubeCon**



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**Europe 2023**





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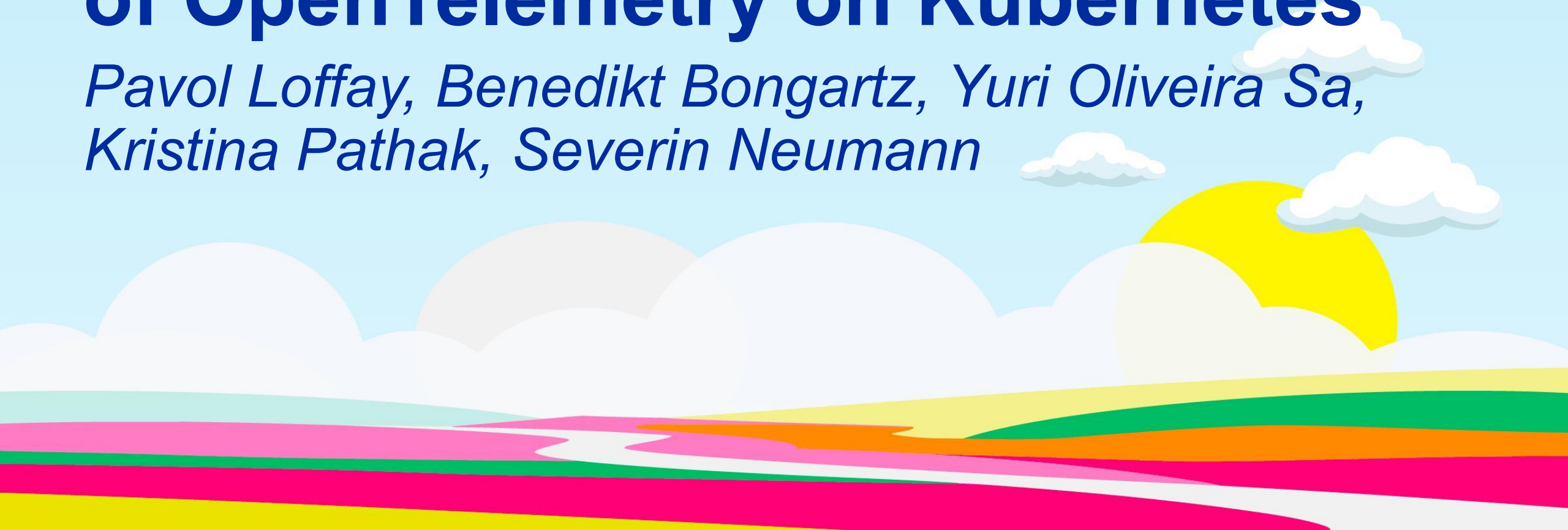


CloudNativeCon

Europe 2023

# Exploring the Power of OpenTelemetry on Kubernetes

*Pavol Loffay, Benedikt Bongartz, Yuri Oliveira Sa,  
Kristina Pathak, Severin Neumann*



- Virtual attendees may submit questions to speakers through the CNCF Slack channel: **#2-Kubecon-sessions**
- Please create a thread and tag the speaker(s) with questions about their talk.
- Questions will be answered by the speaker and/or other community members after the session concludes.


# Session Q+A



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Principal Software Engineer,  
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**Severin Neumann**

Open Source Program Manager,  
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**Kristina Pathak**

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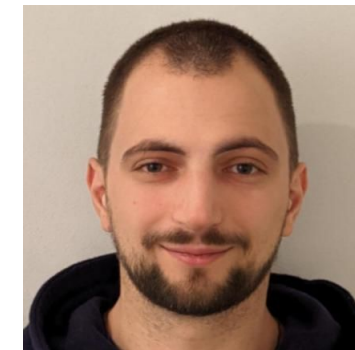
**Yuri Oliveira Sa**

Software Engineer,  
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 yuriolisa

 @yurioliveirasa




**Benedikt Bongartz**

Senior Software Engineer,  
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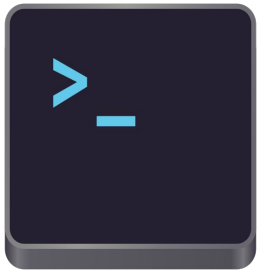
 frzifus

 @frzifus:matrix.org

# Agenda

- Prerequisites
- Observability in a nutshell
- The OpenTelemetry Project
- **Hands on session!**
- Roadmap: What's coming next?

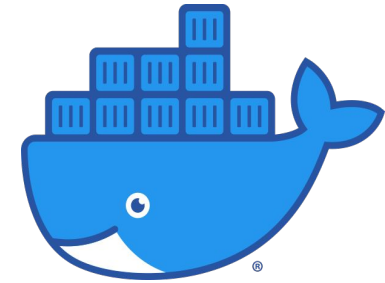
# Prerequisites



Terminal of your choice



Access to K8S  
v1.19 - v1.26

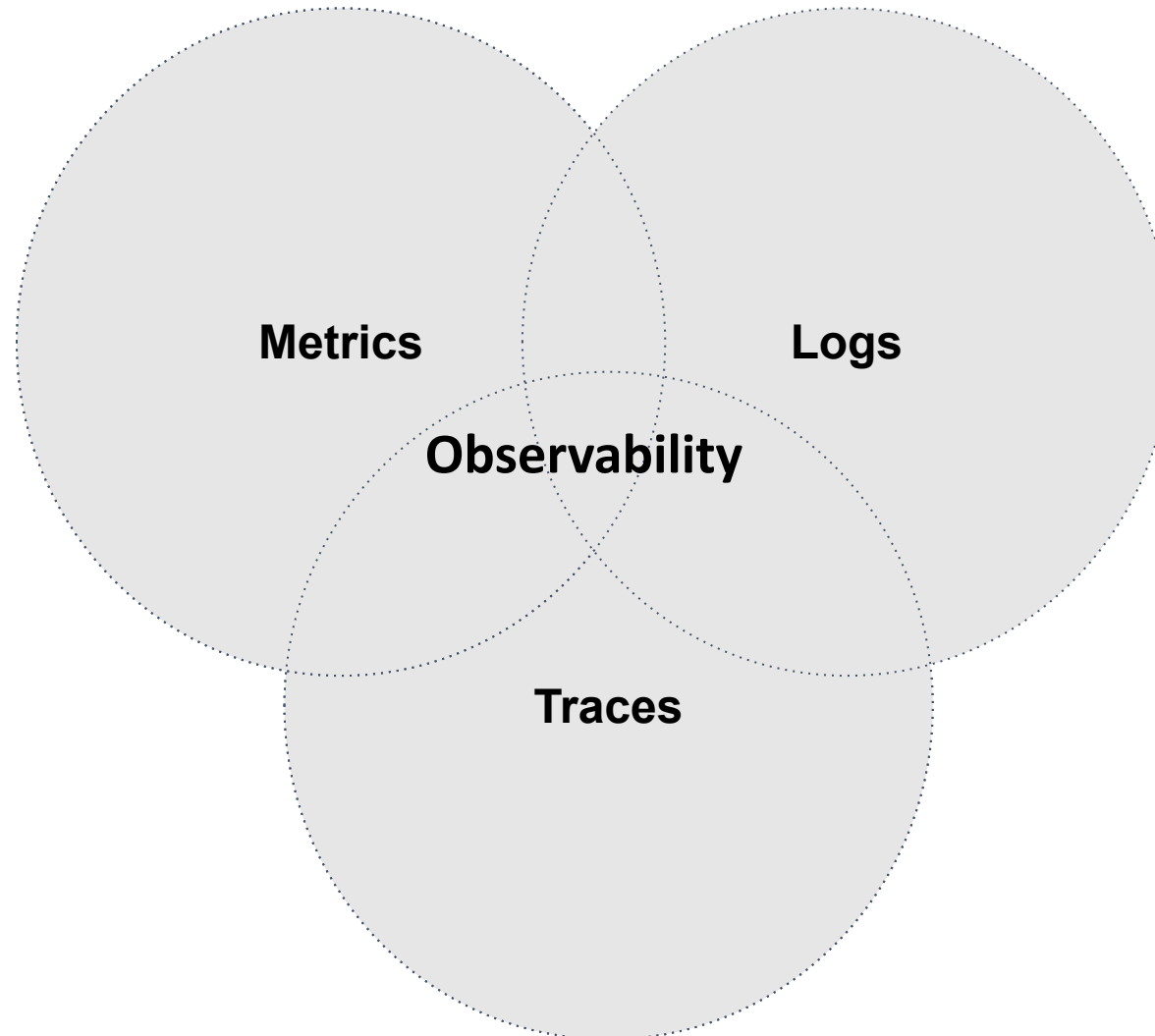


Containerization tool  
docker/podman

Open:

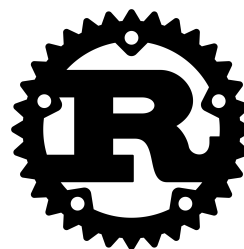
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# Observability in a nutshell



# Observability & OpenTelemetry

- Open source!
- Cloud Native Computing Foundation (CNCF)
- Vendor neutral telemetry data collection
- Specification, API, SDK, data model - OTLP, auto-instrumentation, collector
- Helm chart, Kubernetes operator





# Schedule

○ Tutorial on Apr 22, 2023

## OpenTelemetry Collector 101



**Benedikt Bongartz** authored and committed today

Verified



10min



## OpenTelemetry Operator Introduction



**Pavol Loffay** authored and committed today

Verified



10min



## How to instrument your application properly



**Pavol Loffay** and **Severin Neumann** authored and committed today

Verified



30min



## Collecting metrics and integrate with Prometheus CRs



**Kristina Pathak** authored and committed today

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15min



## Getting started with OpenTelemetry Logs



**Yuri Oliveria Sa** authored and committed today

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10min



## Roadmap: What's Coming Next



**Yuri Oliveria Sa** authored and committed today

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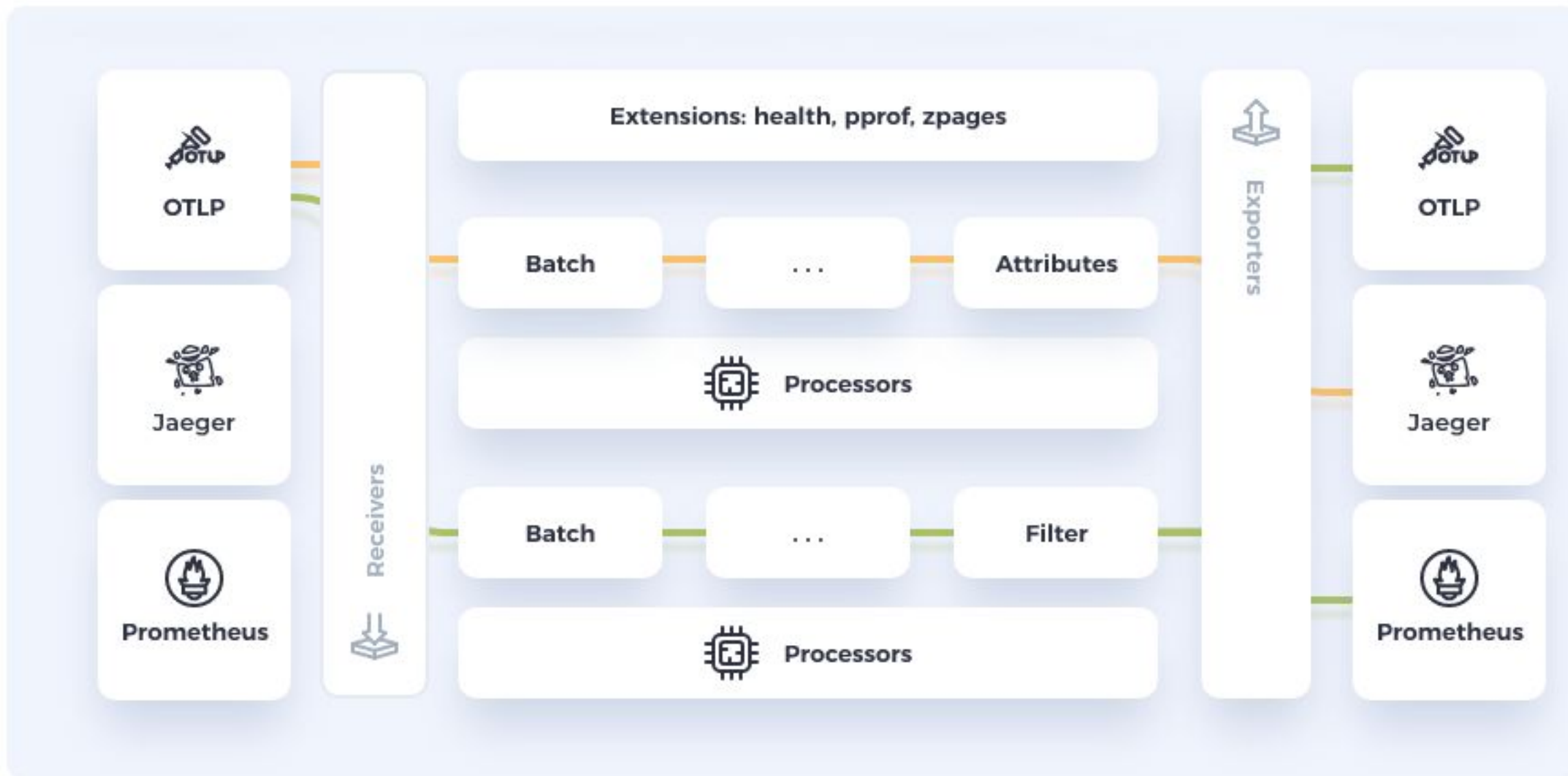
5min





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# OpenTelemetry Collector 101





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