

Observability Day

EUROPE

Observability Day

EUROPE

A red rectangular background featuring a white rounded rectangle containing the text. Behind the text are several semi-transparent, overlapping icons related to observability and monitoring, including a line graph, a flame, a bird, a network grid, a telescope, a building, and a small cartoon character.

Welcome & Opening Remarks

Bartek Płotka (@bwplotka)

Event Co-Chair, Prometheus Maintainer, TAG Observability TL, SWE @ Google

Context Propagation 😊

Observability Day
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Why we are here?

Observability Day
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Observability and Analysis - Monitoring (9)



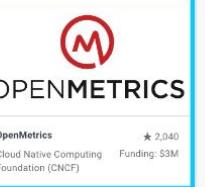
cortex
Cortex ★ 5,041
Cloud Native Computing Foundation (CNCF) Funding: \$3M



FONIO
FONIO ★ 398
Cloud Native Computing Foundation (CNCF) Funding: \$3M



kuberhealthy
Kuberhealthy ★ 1,670
Cloud Native Computing Foundation (CNCF) Funding: \$3M



OPENMETRICS
OpenMetrics ★ 2,040
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Observability and Analysis - Logging (1)



fluentd
Fluentd ★ 11,907
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Observability and Analysis - Tracing (3)



JAEGER
Jaeger ★ 17,458
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OpenTelemetry
OpenTelemetry ★ 607
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Observability and Analysis - Continuous Optimization (1)



OpenCost
OpenCost ★ 3,592
Cloud Native Computing Foundation (CNCF) Funding: \$3M

OpenObservability in Detroit



Kubecon_ @KubeCon · Oct 24, 2022

If you're here for day one of KubeCon + CloudNativeCon, be sure to check out Open Observability Day!

#Openo11yDay #CloudNativeNA #KubeCon #CloudNativeCon



OpenObservability in Detroit



Kubecon_ @KubeCon_ · Oct 24, 2022

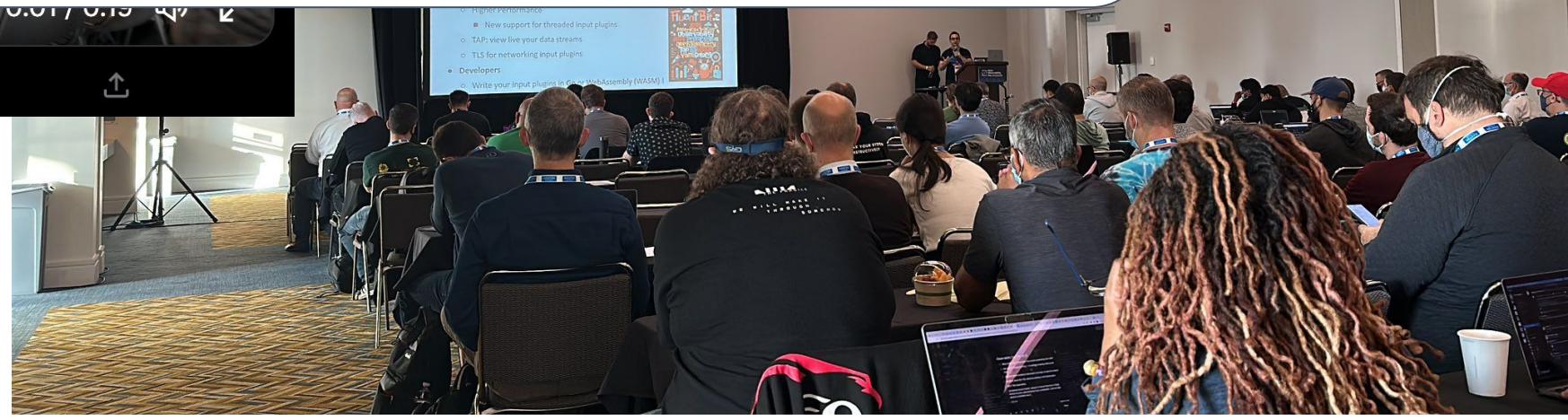
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#Openo11yDay #CloudNativeNA #KubeCon #CloudNativeCon



We want your feedback!

cncf-o11y-day@googlegroups.com



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Agenda

Agenda

09:10 CEST	Prometheus Project Updates - Richard Hartmann, Grafana Labs HALL 7, ROOM E GROUND FLOOR EUROPE COMPLEX
09:15 CEST	Open Telemetry Project Updates - Austin Parker, Lightstep HALL 7, ROOM E GROUND FLOOR EUROPE COMPLEX
09:20 CEST	Fluentd and Fluent Bit Project Updates - Eduardo Silva- Calyptia HALL 7, ROOM E GROUND FLOOR EUROPE COMPLEX
09:30 CEST	Sponsored Keynote: Telemetry Pipelines: Your Recipe for Success Calyptia - Anurag Gupta, Calyptia HALL 7, ROOM E GROUND FLOOR EUROPE COMPLEX
09:35 CEST	Coffee Break ☕ + Networking HALLS 2 + 3 + 6 + 7
09:50 CEST	Prometheus Native Histograms in Production - Björn Rabenstein, Grafana Labs HALL 7, ROOM E GROUND FLOOR EUROPE COMPLEX
10:20 CEST	Does It Add Up? Exploring the Delta Temporality in OpenTelemetry and Beyond - Matej Gera & Oded David, Coralogix HALL 7, ROOM E GROUND FLOOR EUROPE COMPLEX
10:50 CEST	Profiling Formats and Why You Should Care - Sumera Priyadarsini, Polar Signals HALL 7, ROOM E GROUND FLOOR EUROPE COMPLEX
11:10 CEST	Coffee Break ☕ + Networking HALLS 2 + 3 + 6 + 7
11:25 CEST	AI and Observability Role in an E-Government Ecosystem - Zoltan Mathe, IdomSoft Ltd. HALL 7, ROOM E GROUND FLOOR EUROPE COMPLEX
11:55 CEST	Ingesting 6.5 Tb of Telemetry Data Daily Through Open Telemetry Protocol and Collectors - Gustavo Pantuza, VTEX HALL 7, ROOM E GROUND FLOOR EUROPE COMPLEX
12:00 CEST	Lunch 🍽 + Networking HALLS 2 + 3



Agenda

13:35 CEST	<p>✓ Panel Discussion: The Present and Future of Open Source Observability - Alex Boten, Lightstep; Lili Cacic; Juraci Paixão Kröhling, Grafana Labs, Anthony Mirabella, AWS & Alolita Sharma, Intel</p> <p>HALL 7, ROOM E GROUND FLOOR EUROPE COMPLEX</p>
14:15 CEST	<p>✓ Unified Observability at Scale: How We Accelerated Issue Resolution for Modern Fin-Techs - Ekansh Gupta & Shivangi Motwani, Zeta</p> <p>HALL 7, ROOM E GROUND FLOOR EUROPE COMPLEX</p>
14:45 CEST	<p>✓ Observability at Scale: How Open Systems Collects Telemetry from Over 10'000 Edge Devices Worldwide - Joel Verezak, Open Systems AG</p> <p>HALL 7, ROOM E GROUND FLOOR EUROPE COMPLEX</p>
15:00 CEST	<p>✓ Coffee Break ☕ + Networking</p> <p>HALLS 2 + 3 + 6 + 7</p>
15:20 CEST	<p>✓ Using OpenTelemetry's Exponential Histograms in Prometheus - Ruslan Kovalov & Ganesh Vernekar, Grafana Labs</p> <p>HALL 7, ROOM E GROUND FLOOR EUROPE COMPLEX</p>
15:50 CEST	<p>✓ Banking Observability at Scale - Arijan Luiken & Salvatore Vitale, ING</p> <p>HALL 7, ROOM E GROUND FLOOR EUROPE COMPLEX</p>
16:20 CEST	<p>✓ Scaling Observability Stack for AIOPS - Ravi Hari, Intuit</p> <p>HALL 7, ROOM E GROUND FLOOR EUROPE COMPLEX</p>
16:50 CEST	<p>✓ eBPF for Observability: The Good, the Bad, and the Ugly - Anna Kapuscinska, Isovalent</p> <p>HALL 7, ROOM E GROUND FLOOR EUROPE COMPLEX</p>
17:15 CEST	<p>✓ Closing Remarks - Program Committee Member- Bartłomiej Plotka, Google</p> <p>HALL 7, ROOM E GROUND FLOOR EUROPE COMPLEX</p>
17:30 CEST	<p>✓ CNCF-Hosted Co-Located Events Reception</p> <p>HALLS 2 + 3</p>

Observability Day

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Logistics

Code of Conduct

Observability Day
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Remember the **Golden Rule**: Treat others as you would want to be treated - with kindness and respect

Scan the QR code to access and review the **CNCF Code of Conduct**:



Captioning and Translations



**Accessibility via Wordly
on your personal device**

1. Scan the QR Code
2. Choose your language, session ID will auto-populate and select “Attend”.
3. Captioning will begin when the session begins.



Social Media Hashtag **#O11yDay**

Talks are recorded and live to virtual attendees

Virtual Discussions:
#tag-observability on CNCF Slack

Wifi: **Upbound4Crossplane**
Password: **cloudnative**

Speakers: Please go to AV Team **5m** before start of your talk

Talk Tables



During lunch, we will have **Talk Tables** set up for you to chat about subjects of interest.

During a break, please check the easels in the back to suggest topics, we'll note the tables based on the most popular topics.

Observability Day

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Acknowledgments

Program Committee



Thanks!

Anurag Gupta
Austin Parker
Eduardo Silva
Jaana Dogan
Khallai Taylor
Libby Meren

Ling Huang
Michael Hausenblas
Myrle Krantz
Paige Cruz
Ravi Hari
Reese Lee
Richard Hartmann
Rynn Mancuso

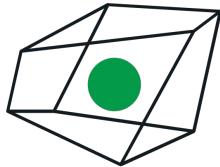
Thank you to our DIAMOND Sponsor!



Thank you to our PLATINUM Sponsors!



DATADOG



Lightstep

from ServiceNow



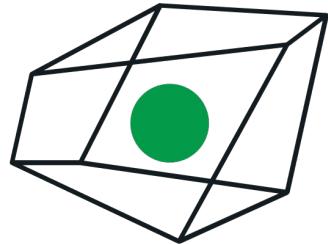
Thank you to our GOLD Sponsors!



Grafana **Labs**



Thank you to our Live Stream Sponsor!



Lightstep

from ServiceNow

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Project Updates

Prometheus Updates



Prometheus 2.39

- Support out-of-order sample ingestion

Prometheus 2.40

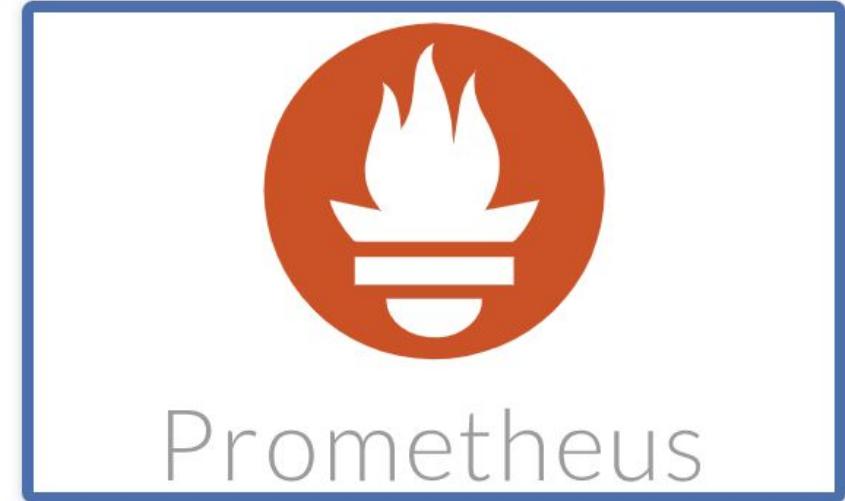
- Native histograms!

Prometheus 2.43

- Improving memory usage and performance around labels (checkout +stringlabels release)

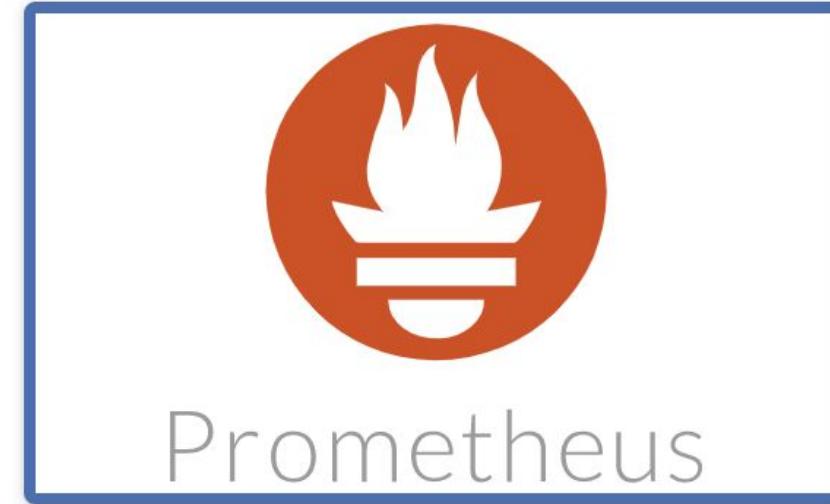
Future:

- New Alertmanager UI, consistent with Prometheus UI



Prometheus Updates

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Wednesday, April 19 • 11:55 - 12:30

-  Prometheus Updates and Deep Dive - Kemal Akkoyun, Polar Signals & Josue Abreu, Grafana Labs

Friday, April 21 • 16:00 - 17:30

-  ContribFest: Prometheus - Hands-on Development and Contribution Workshop (Limited Availability; First-Come, First-Served)

OpenTelemetry Update



We've accomplished a lot as a community in the past six months.

- Metrics API/SDK and Histograms
- Logs → Log Bridge
- OTLP Stability
- Further documentation improvements.
- First round of OpenTelemetry Ambassadors

OpenTelemetry Update



Today, we're announcing that OpenTelemetry and Elastic are converging the Elastic Common Schema (ECS) with OpenTelemetry Semantic Conventions!

OpenTelemetry Update



The Governance and Technical Committees are working to re-organize around the new maturity level of the project in order to provide -

- Better, more stable roadmaps
- More end-user feedback
- Stable Logging Models
- Graduation

OpenTelemetry Update



Attend our Maintainer's Track Session!

Thursday, 16:30 E105-106 1F Congress Center

Enjoy!



OBSERVABILITY DAY



Project Updates

Eduardo Silva
eduardo@calyptia.com

\$ whoami

Eduardo Silva



Creator and Maintainer of **Fluent Bit**

Founder and CEO of **Calyptia**

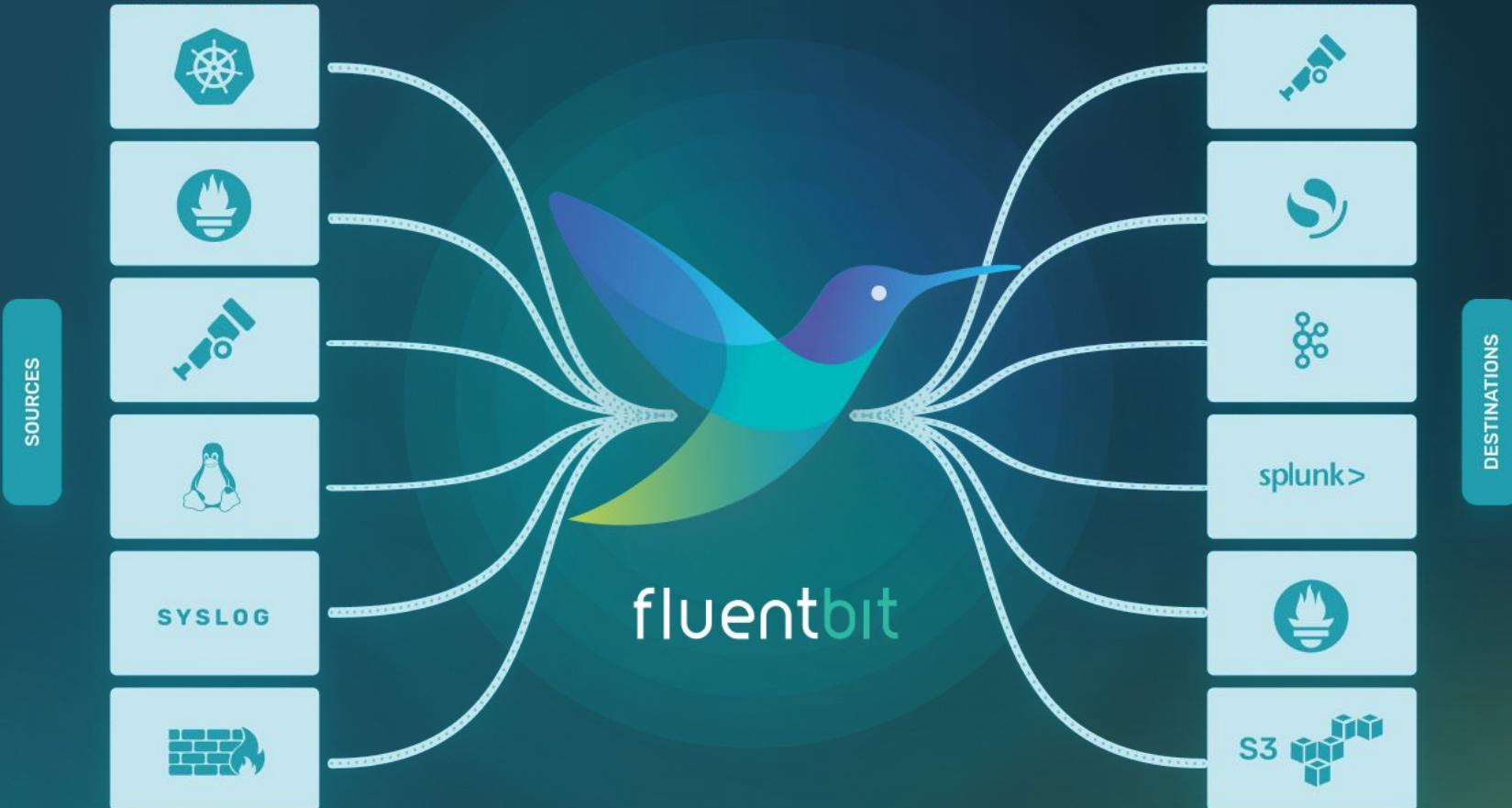
CNCF friend



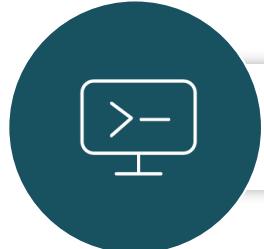
- [@edsiper](https://twitter.com/edsiper)



**CLOUD NATIVE
COMPUTING FOUNDATION**



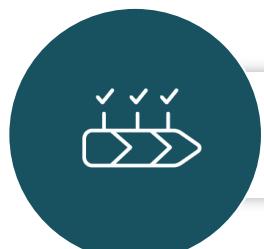
Fluent Ecosystem



Open Source Observability



No vendor lock-in



Product, Project and Platform agnostic



Fluent Bit Ecosystem

Trusted by major Cloud Providers

Amazon Web Services (AWS)

Google Cloud

Microsoft Azure





fluentbit

v.2.1

Fluent Bit v2.1

Hot Reload Support



Restart Fluent Bit seamlessly

Use SIGHUP or the new HTTP /api/v2/reload endpoint

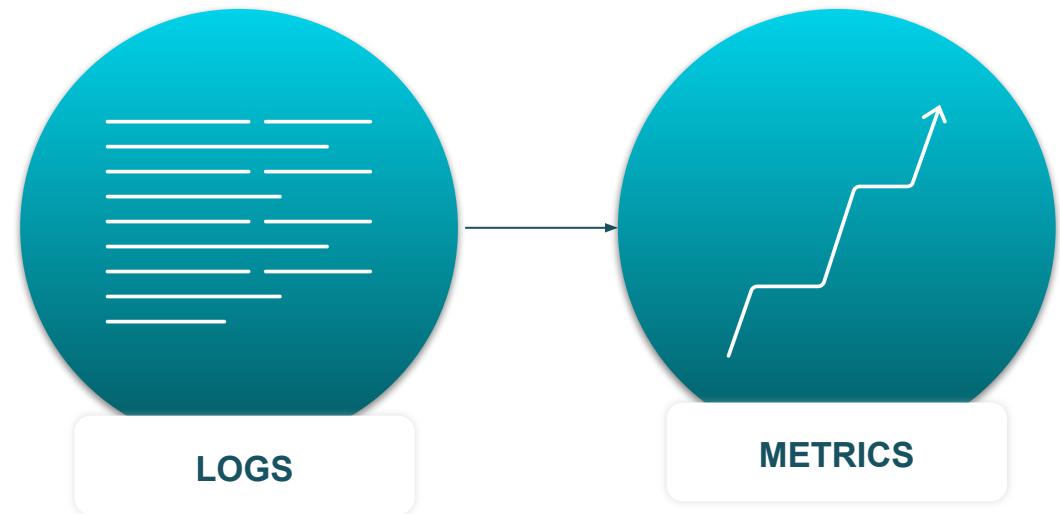


Fluent Bit v2.1

Convert from Logs to Metrics

Convert any value to a counter, gauge or histogram

Supports Kubernetes mode



Fluent Bit v2.1

Linux host metrics



New Filesystem metrics



New Text file metrics support



Collectors now supports individual scrape intervals

Fluent Bit v2.1

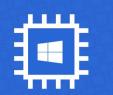
Windows host metrics



Enhanced WMI system metrics



Collectors now supports individual scrape intervals

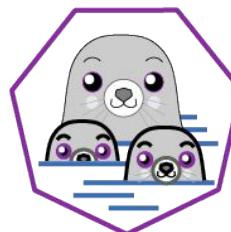


Add support Windows Arm64

Fluent Bit v2.1

Podman Container Metrics

New plugin to collect **metrics** from Podman containers



Fluent Bit v2.1

Metadata support for Logs

No breaking changes :)

BEFORE

[TIMESTAMP, {EVENT}]

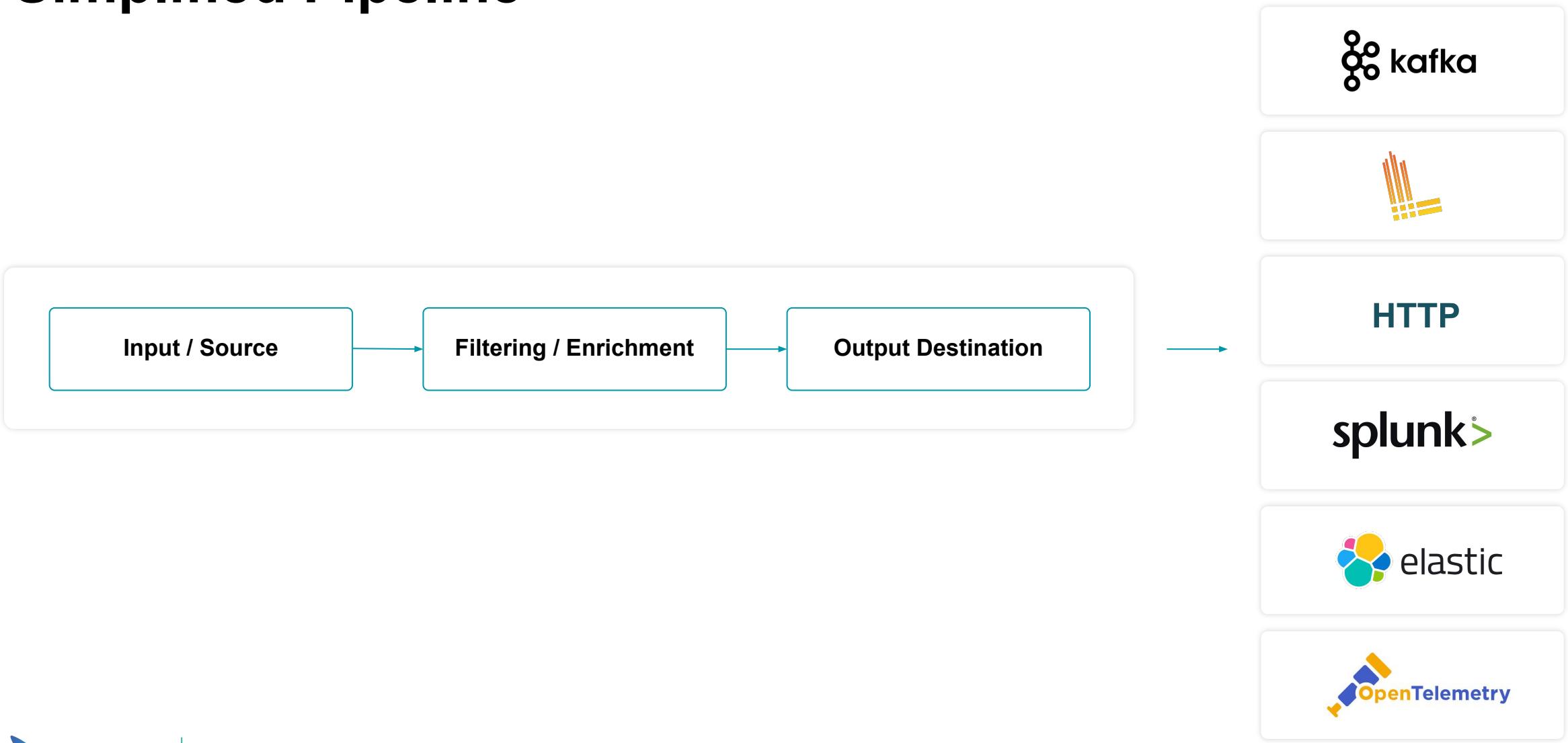
NOW

[[TIMESTAMP, {METADATA}], {EVENT}]

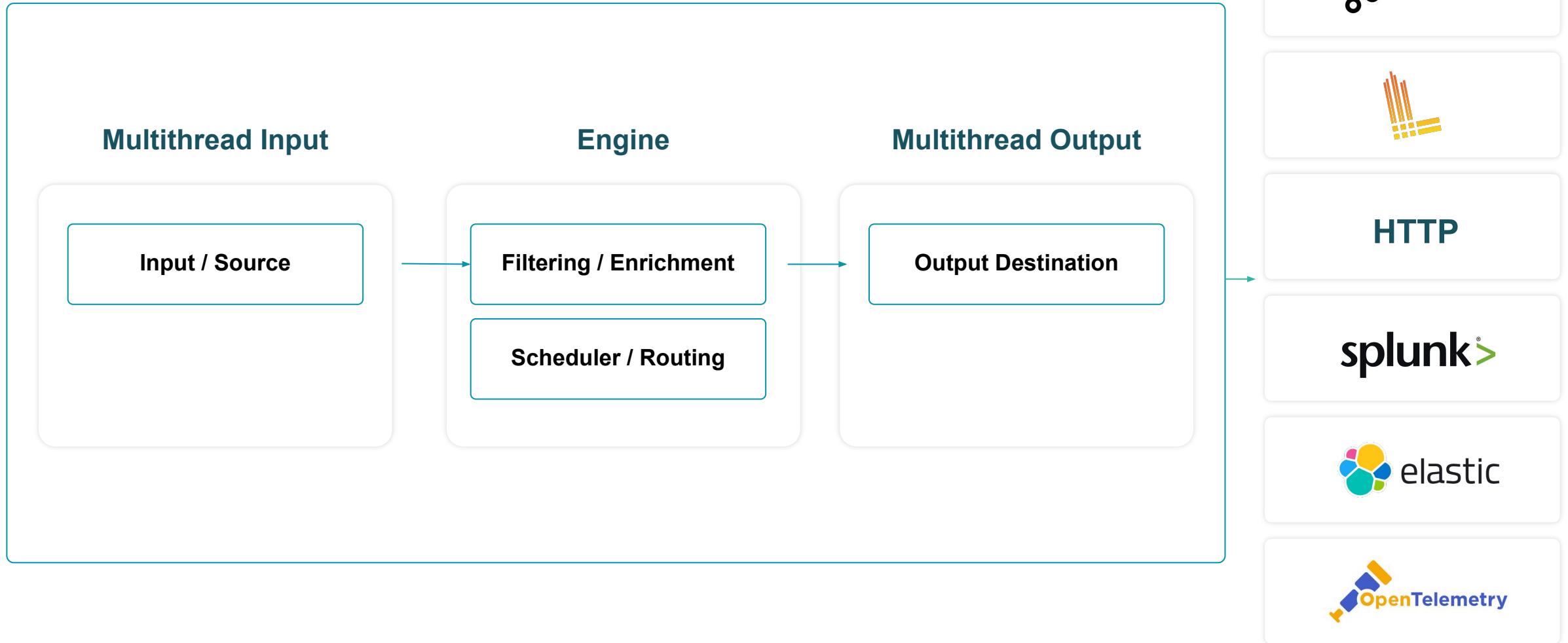


Introducing: Processors

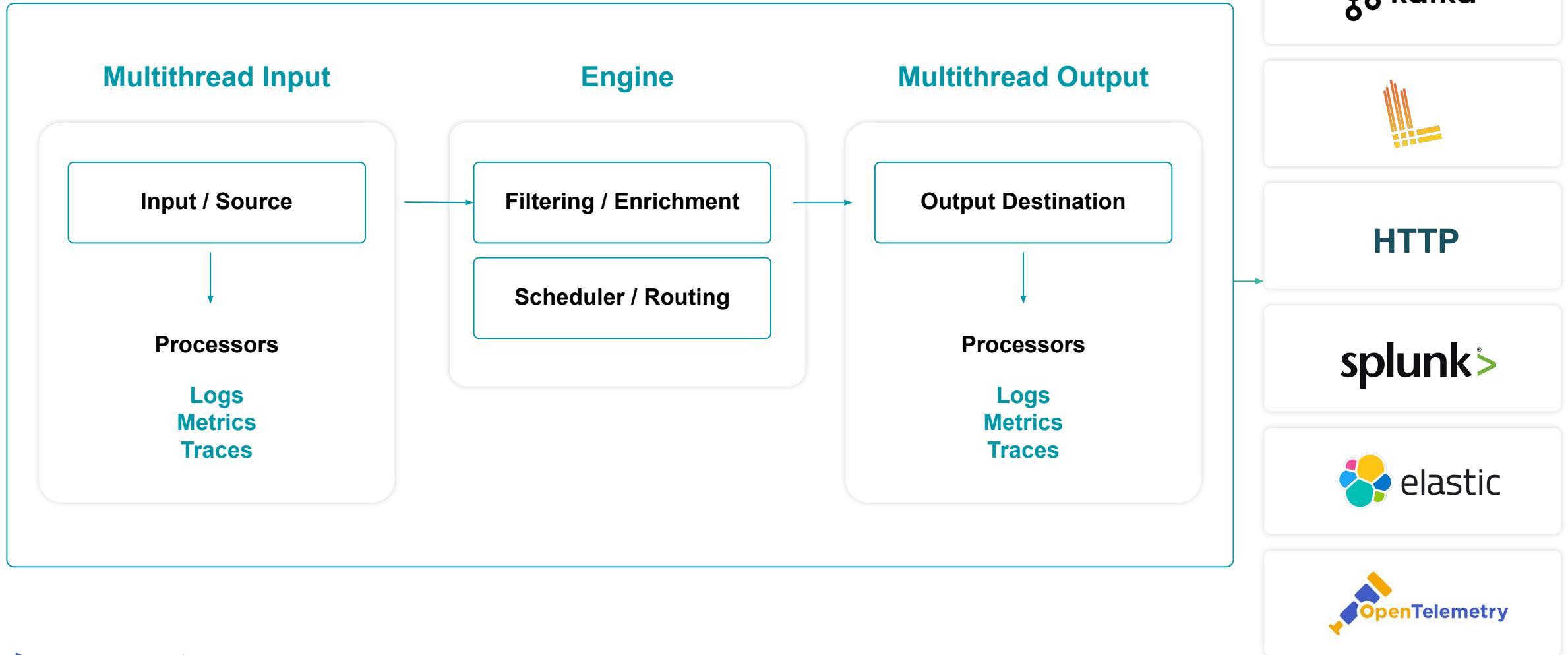
Simplified Pipeline



Multithread Support + Pipeline



Multithread Support + Pipeline + Processors



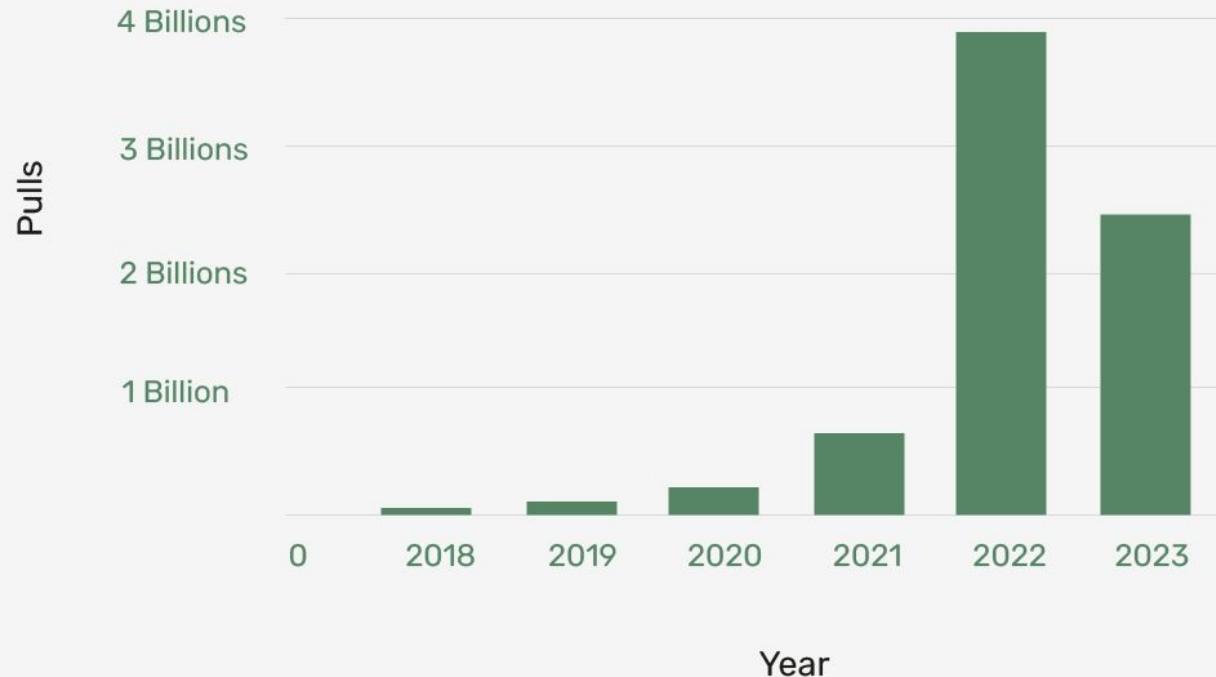
```
service:  
  log_level: info  
  
pipeline:  
  inputs:  
    - name tail  
      tag: kube.*  
      path: /var/log/containers/*.log  
      multiline.parser: docker, cri  
  
  processors:  
    logs: _____  
      - name: lua  
        call: append_tag  
        code: |  
          function append_tag(tag, timestamp, record)  
            new_record = record  
            new_record["tag"] = tag  
            return 1, timestamp, new_record  
          end  
  
      - name: node_exporter_metrics  
        processors:  
          metrics: _____  
            - name: labels  
              upsert: color blue  
              hash: code  
  
  outputs:  
    - name: stdout  
      match: '*'
```

Logs processor: enrich logs with inline Lua Script

Metrics processor: insert or update metrics labels and
'hash' the value of label code.

Stats: Docker Hub Downloads

Pulls vs Year





6.3 Billion downloads

6.3 Billion total! (as of today)

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A red rectangular background featuring a white rounded rectangle containing the event title. Behind the title, there is a grid of various icons related to observability, monitoring, and system management, such as a flame, a gear, a bar chart, a network graph, a telescope, a building, and a small cartoon character.

Closing Remarks

Bartek Płotka (@bwplotka)

Event Co-Chair, Prometheus Maintainer, TAG Observability TL, SWE @ Google

Thanks!

Observability Day
EUROPE

Speakers ❤
CNCF Content Managers ❤
Sponsors ❤
Venue Staff ❤
Program Committee ❤

Feedback



We care about your opinion!

Anything we can improve or keep doing?

Let us know!

cncf-olly-day@googlegroups.com

How to Stay Involved?



Kubernetes SIG Instrumentation

A screenshot of a web browser window. The address bar shows the URL: "github.com/kubernetes/community/tree/master/sig-instrumentation". The main content area displays the "README.md" file for the Kubernetes SIG Instrumentation. The title "Instrumentation Special Interest Group" is prominently displayed in large, bold, white font. Below the title, a detailed description of the group's purpose is provided: "Covers best practices for cluster observability through metrics, logging, events, and traces across all Kubernetes components and development of relevant components such as klog and kube-state-metrics. Coordinates metric requirements of different SIGs for other components through finding common APIs." A large callout box at the bottom left indicates the event details: "Friday, April 21 • 14:55 - 15:30". Another callout box at the bottom right lists the session topic: "SIG Instrumentation Introduction and Deep Dive - Damien Grisonnet, Red Hat".

Instrumentation Special Interest Group

Covers best practices for cluster observability through metrics, logging, events, and traces across all Kubernetes components and development of relevant components such as klog and kube-state-metrics. Coordinates metric requirements of different SIGs for other components through finding common APIs.

Friday, April 21 • 14:55 - 15:30

SIG Instrumentation Introduction and Deep Dive - Damien Grisonnet, Red Hat

How to Stay Involved?



CNCF TAG Observability



A screenshot of a GitHub repository page for "CNCF TAG Observability". The page has a dark theme. At the top, there's a navigation bar with icons for back, forward, refresh, and home, followed by a lock icon and the URL "github.com/cncf/tag-observability". Below the navigation is a header with three horizontal lines and the text "README.md". To the right of the header is a pencil icon for editing. The main content area features a large title "CNCF TAG Observability" in white, accompanied by two icons: a red and white telescope-like icon and a grey gear icon. Below the title is a subtitle: "Technical Advisory Group for Observability under the umbrella of CNCF." A section titled "Mission statement" follows, with a descriptive paragraph about the TAG's focus on cloud native workloads and its role in supporting projects within the CNCF scope.

README.md

CNCF TAG Observability 🚀⚙️

Technical Advisory Group for Observability under the umbrella of [CNCF](#).

Mission statement

TAG Observability focuses on topics pertaining to the observation of cloud native workloads. Additionally, it produces supporting material and best practices for end-users and provides guidance and coordination for CNCF projects working within the TAG's scope.

How to Stay Involved?

Observability Day
EUROPE

Observability and Analysis - Monitoring (9)



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FONIO
Fonio ★ 398
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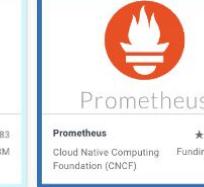
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Observability and Analysis - Continuous Optimization (1)



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Connect with Others!

Observability Day
EUROPE

Tuesday, April 18 • 17:00 - 18:30



CNCF-Hosted Co-Located Events Reception

[Click here to remove from My Schedule.](#)

<https://sched.co/1Jol>



[Tweet](#)



[Share](#)

Join us onsite for drinks and appetizers with fellow co-located attendees from Tuesday's CNCF-hosted Co-located Events.

Network with attendees from:

ArgoCon

CiliumCon

Cloud Native Telco Day

Cloud Native Wasm Day

Istio Day

Kubernetes Batch + HPC Day

Kubernetes on Edge Day

Linkerd Day

Observability Day

Tuesday April 18, 2023 17:00 - 18:30 CEST

Halls 2 + 3

● Breaks

Thanks!



Bartek Płotka (@bwplotka)

Event Co-Chair, Prometheus Maintainer, TAG Observability TL, SWE @ Google

Backup

Title



18 April 2023
Amsterdam, The Netherlands



Speaker Name

Job Title

Company



Speaker Name

Job Title

Company

Title



18 April 2023
Amsterdam, The Netherlands



Speaker Name

Job Title

Company

Title



18 April 2023
Amsterdam, The Netherlands



Speaker Name
Job Title
Company



Speaker Name
Job Title
Company



Speaker Name
Job Title
Company



Speaker Name
Job Title
Company



Speaker Name
Job Title
Company