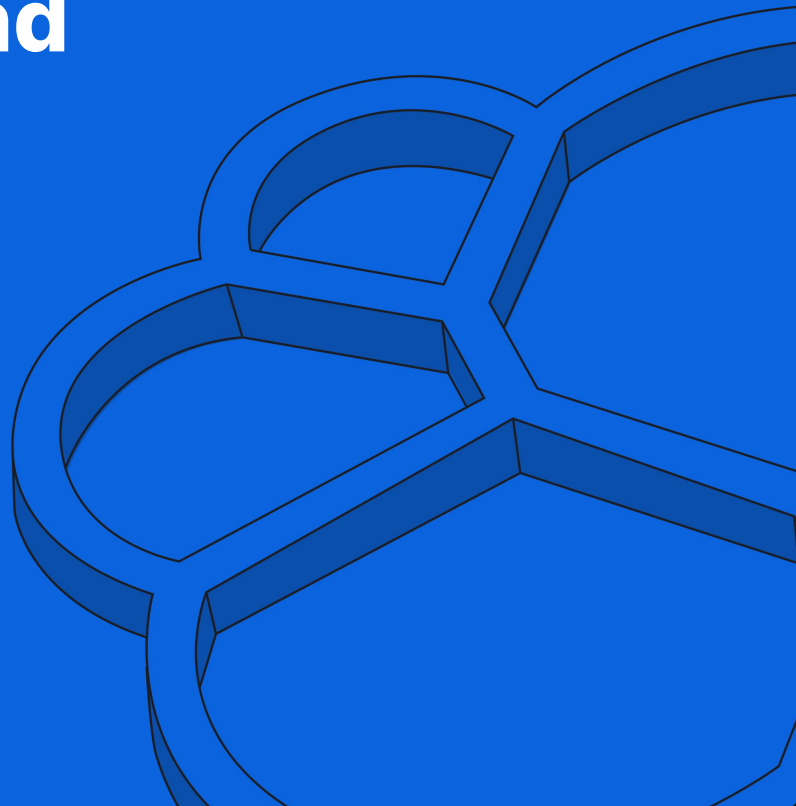


Open source observability with OpenTelemetry and Elasticsearch

Andrzej Stencel

KCD Warsaw, October 2025



Hi, my name is

Andrzej Stencel

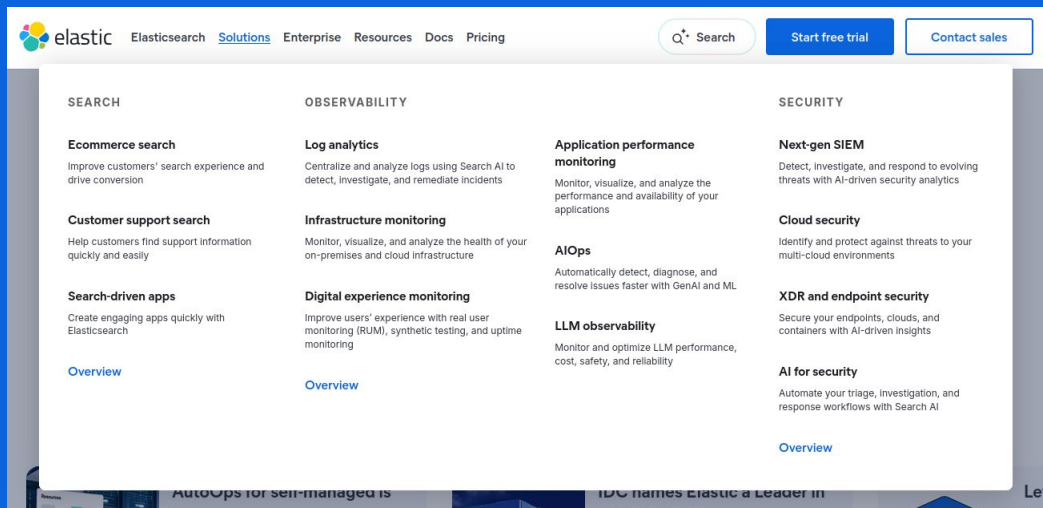
Senior Software Engineer at Elastic

Maintainer of OpenTelemetry Collector Contrib



Message #1

Elasticsearch – you know, for search.
And observability, and security.



Message #2

OpenTelemetry + Elasticsearch = ❤️

What is OpenTelemetry again?

OpenTelemetry is an open source project that provides tools to collect, manipulate and export telemetry (logs, metrics, traces and more) to any external destination, independent of any vendor or proprietary format.

Elastic ♥ OpenTelemetry

Top 1: number of people contributing last year

General / Companies Table

Range Last year Metric Contributors

OpenTelemetry Companies statistics (Contributors, Range: Last year), bots excluded

Rank ^	Company	Number
	All	6090
1	Elasticsearch Inc.	74
2	Microsoft Corporation	73
3	Independent	67
4	Grafana Labs	56
5	Splunk Inc.	37
6	Google LLC	33
7	Cisco Systems Inc.	29
8	Red Hat Inc.	28
9	Amazon	26
10	Dynatrace LLC	22

Elastic ♥ OpenTelemetry

Top 3: number of contributions last year

General / Companies Table

Range Last year Metric Contributions

OpenTelemetry Companies statistics (Contributions, Range: Last year), bots excluded

Rank ^	Company	Number
	All	246334
1	Splunk Inc.	47040
2	Microsoft Corporation	33993
3	Elasticsearch Inc.	30728
4	Datadog Inc	14092
5	Grafana Labs	10754
6	Dynatrace LLC	8645
7	Hound Technology Inc. dba Honeycomb	7838
8	Google LLC	6310
9	New Relic Inc.	6075
10	CNCF	4168

Elastic ♥ OpenTelemetry

Donated eBPF profiling agent

[Blog](#) / [2024](#) / Elastic Contributes Profiling Agent

Elastic Contributes its Continuous Profiling Agent to OpenTelemetry

By [Bahubali Shetti](#) (Elastic), [Alexander Wert](#) (Elastic), [Morgan McLean](#) (Splunk), [Ryan Perry](#) (Grafana) | Friday, June 07, 2024

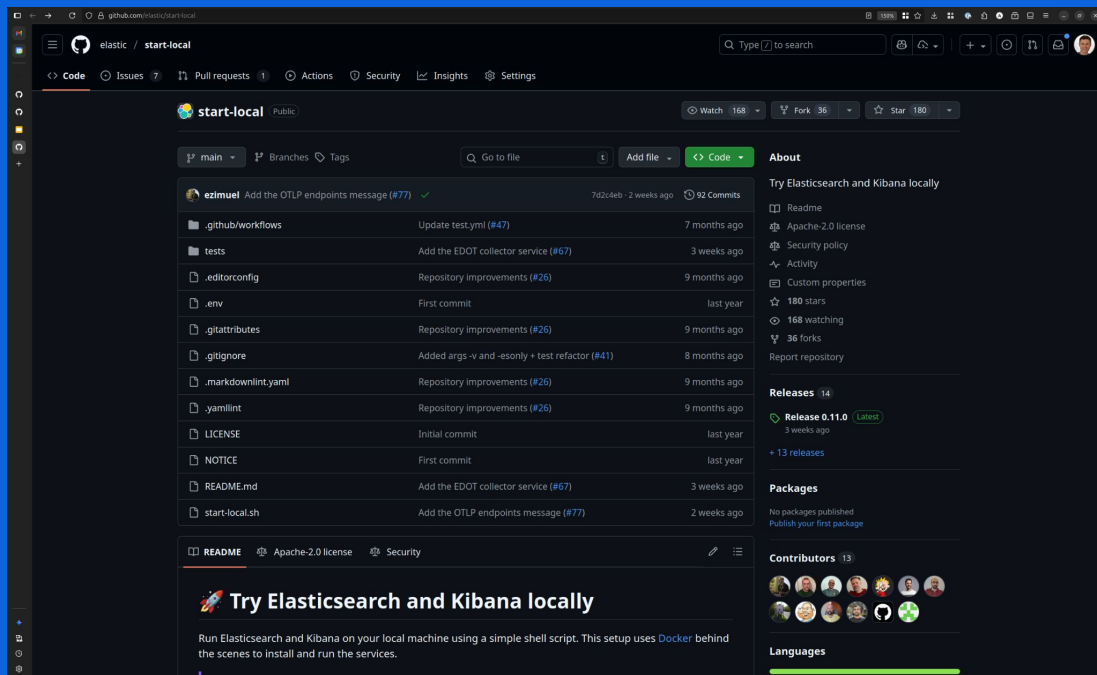
Following significant collaboration between [Elastic](#) and [OpenTelemetry's profiling community](#), which included a thorough review process, we're excited to announce that the OpenTelemetry project has accepted [Elastic's donation of its continuous profiling agent](#).

This marks a significant milestone in establishing profiling as a core telemetry signal in OpenTelemetry. Elastic's [eBPF based](#) profiling agent observes code across different programming languages and runtimes, third-party libraries, kernel operations, and system resources with low CPU and memory overhead in production. Both, SREs and developers can now benefit from these capabilities: quickly identifying performance bottlenecks, maximizing resource utilization, reducing carbon footprint, and optimizing cloud spend.

Let's see this in action



Elasticsearch start-local



```
curl -fsSL https://elastic.co/start-local | sh
```

Elastic Cloud

The screenshot displays the Elastic Cloud console interface. At the top, a navigation bar includes the Elastic logo and a 'Cloud' tab. The main content area is titled 'Welcome to Elastic Cloud' and features three primary sections: 'Hosted deployments', 'Serverless projects', and 'Connected clusters'. Each section includes a table of resources and a 'Create' button. The 'Hosted deployments' table shows a single deployment named 'Elastic Deployment for Andrzej' with a 'Healthy' status. The 'Serverless projects' table lists two projects, 'kcd-warsaw' and 'kcd-warsaw-1', both in a 'Complete' state. The 'Connected clusters' section provides instructions on connecting self-managed clusters and lists benefits such as utilizing cloud services, monitoring clusters, troubleshooting issues, and onboarding with ease. On the right side, there are three informational panels: 'News' with recent Elastic Stack releases, 'Community' with event announcements, and a section for engaging with the community. At the bottom, there are links for 'Support' and 'Training'.

Welcome to Elastic Cloud

Hosted deployments [Create hosted deployment](#)

Deployment	Status	Version	Cloud provider & region	Actions
Elastic Deployment for Andrzej	Healthy	8.18.0	GCP - Frankfurt (europe-west3)	Open Manage

Serverless projects [Create serverless project](#)

Project	Type	Cloud provider & region	Actions
kcd-warsaw	Observability Complete	GCP - Belgium (europe-west1)	Open Manage
kcd-warsaw-1	Observability Complete	GCP - Belgium (europe-west1)	Open Manage

Connected clusters [Connect self-managed cluster](#)

Connected clusters

Connect your self-managed cluster to Elastic Cloud to use the cloud services such as AutoOps, Elastic Inference Service and more. [Learn more](#)

- ✓ Utilize cloud services
- ✓ Monitor your cluster
- ✓ Troubleshoot issues
- ✓ Onboard with ease

Support

Search documentation, guides, articles and more...

Training

Go deeper with hands-on training

Build essential skills and learn Elastic with free introductory training in the

News

Elastic Stack 9.1.5 released
OCTOBER 6, 2025 [New!](#)

Elastic Stack 9.0.8 released
OCTOBER 6, 2025 [New!](#)

Elastic Stack 8.18.8 released
OCTOBER 6, 2025 [New!](#)

Community

Join an ElasticON event
Hear success stories, lessons learned, tips, tricks, best practices, and funny anecdotes from Elastic experts from all over the world.

Experience the power of Search AI at Elastic[ON] New York City
OCTOBER 9, 18:00

Intro to Observability Workshop
OCTOBER 14, 10:00

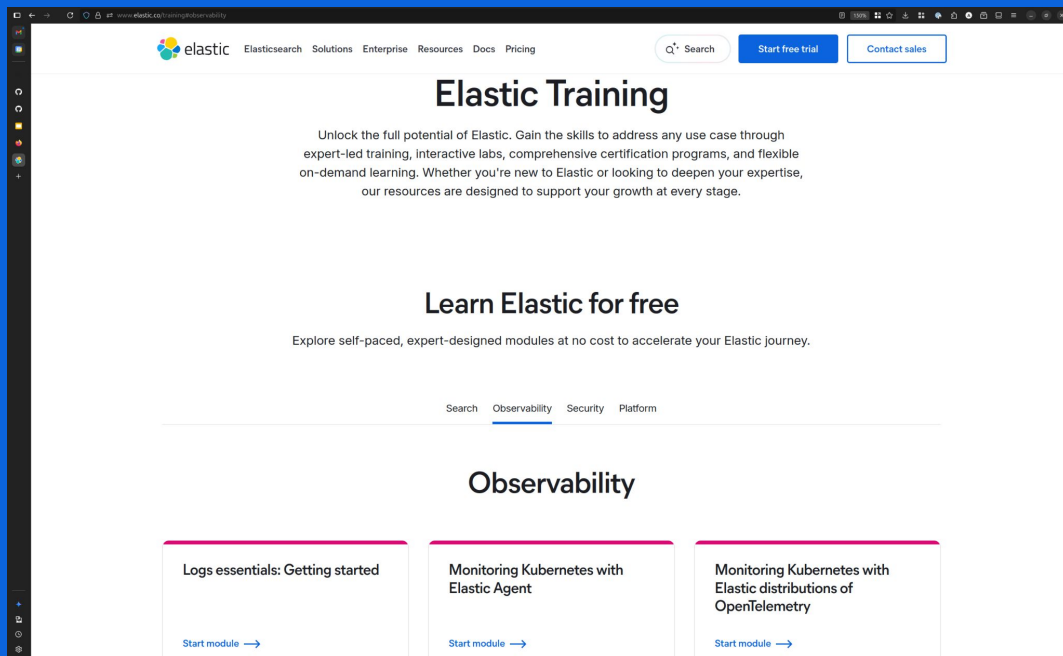
[Events portal](#)

Engage with our community! Visit our forum, join us on Slack, or contribute to the Elastic Stack on GitHub.

cloud.elastic.co

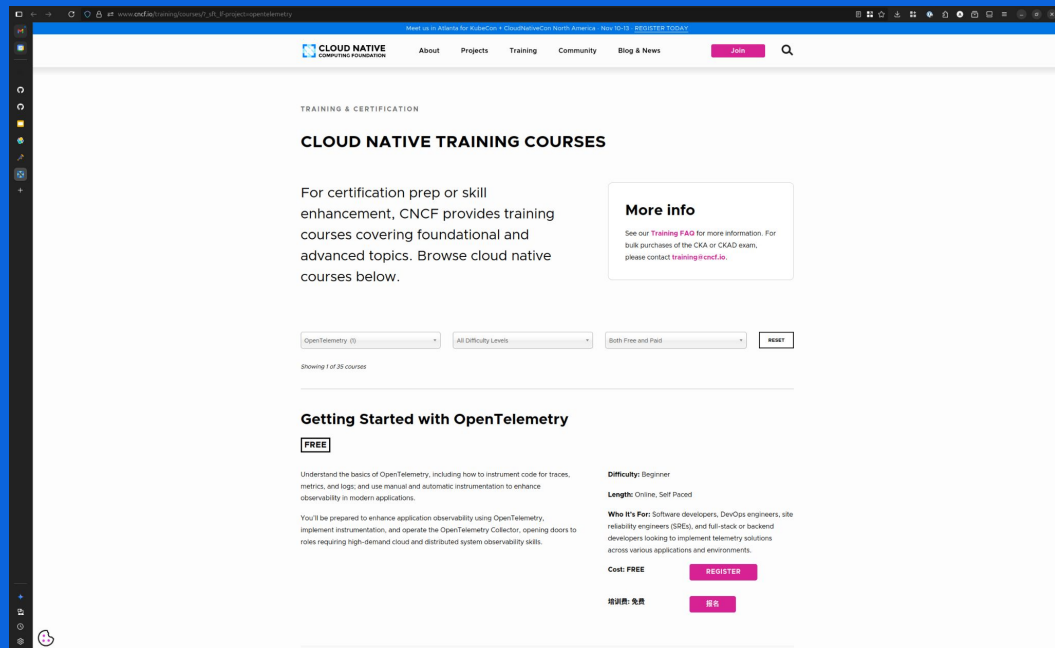
DEMO

Elastic observability free training



www.elastic.co/training

OpenTelemetry free training



The screenshot shows the 'Cloud Native Training Courses' page on the OpenTelemetry website. The page is titled 'TRAINING & CERTIFICATION' and 'CLOUD NATIVE TRAINING COURSES'. It features a search bar, a 'Join' button, and a 'More info' section with a link to the 'Training FAQ'. Below the search bar, there are filters for 'OpenTelemetry (0)', 'All Difficulty Levels', and 'Both Free and Paid'. The page displays 'Showing 1 of 38 courses'. The first course is 'Getting Started with OpenTelemetry', which is marked as 'FREE'. The course description states: 'Understand the basics of OpenTelemetry, including how to instrument code for traces, metrics, and logs, and use manual and automatic instrumentation to enhance observability in modern applications. You'll be prepared to enhance application observability using OpenTelemetry, implement instrumentation, and operate the OpenTelemetry Collector, opening doors to roles requiring high-demand cloud and distributed system observability skills.' The course is listed as 'Difficulty: Beginner', 'Length: Online, Self Paced', and 'Who it's For: Software developers, DevOps engineers, site reliability engineers (SREs), and full-stack or backend developers looking to implement telemetry solutions across various applications and environments.' The cost is 'FREE', and there are 'REGISTER' and '报名' buttons.

Cloud Native Computing Foundation

TRAINING & CERTIFICATION

CLOUD NATIVE TRAINING COURSES

For certification prep or skill enhancement, CNCF provides training courses covering foundational and advanced topics. Browse cloud native courses below.

More info

See our [Training FAQ](#) for more information. For bulk purchases of the CNA or CNA+ team, please contact training@cncf.io.

OpenTelemetry (0) All Difficulty Levels Both Free and Paid RESET

Showing 1 of 38 courses

Getting Started with OpenTelemetry

FREE

Understand the basics of OpenTelemetry, including how to instrument code for traces, metrics, and logs, and use manual and automatic instrumentation to enhance observability in modern applications.

You'll be prepared to enhance application observability using OpenTelemetry, implement instrumentation, and operate the OpenTelemetry Collector, opening doors to roles requiring high-demand cloud and distributed system observability skills.

Difficulty: Beginner

Length: Online, Self Paced

Who it's For: Software developers, DevOps engineers, site reliability engineers (SREs), and full-stack or backend developers looking to implement telemetry solutions across various applications and environments.

Cost: FREE

REGISTER

培训费: 免费 报名

opentelemetry.io/training

Thank you

