Effective distributed tracing requires high-quality telemetry

Integrate OpenTelemetry into simple,
best-in-class distributed tracing with Lightstep

OpenTelemetry provides a single set of APIs, libraries, agents, and collector services to generate distributed traces, metrics, and more from your application. You can then ingest and process the resulting data with an analysis engine such as Lightstep.

The Project: OpenTelemetry

OpenTelemetry is an open source collaboration hosted by the Cloud Native Computing Foundation (CNCF). The project provides a consistent, cross-language design in order to reduce confusion for developers and make robust telemetry easy and available for all web services. OpenTelemetry is the standard for high-quality, vendor-neutral, and portable telemetry.

To carry forward the vision of distributed tracing and observability everywhere, the teams at Lightstep, Google, Microsoft, and others across the technology spectrum created OpenTelemetry in May 2019 as the merger and next major version of two earlier open source projects, OpenCensus and OpenTracing.

Since then, the OpenTelemetry project has grown to over 100 contributing organizations, and is now the second most active project within the CNCF, after Kubernetes.

The Platform: Lightstep

Lightstep has been involved since the beginning – Ben Sigelman and Ted Young are two of the co-founders of OpenTelemetry. They started the project with a clear goal in mind: democratize telemetry, and disrupt costly vendor lock-in and redundant instrumentation efforts.

Lightstep engineers, working with other community stakeholders, are making sure developers have access to a stable set of observability tools, covering all major languages and frameworks. These efforts minimize instrumentation time without sacrificing visibility, allowing developers to focus on the features that matter to their customers.

Whether it is in our platform tools, open source engineering, or customer success efforts, we at Lightstep understand data and observability better than anyone. Leverage Lightstep's expertise and suite of solutions to get the most from your OpenTelemetry instrumentation.

How Can I Contribute?

You can find us at:
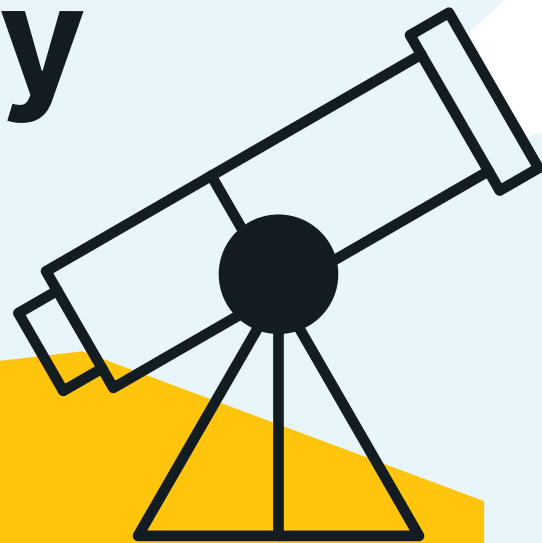
github.com/open-telemetry

gitter.im/open-telemetry/community

opentelemetry.io

Lightstep is trusted by technology leaders

ROBLOX
twilio
lyft

GitHub
Airtable
PLAID

YEXT
Auth0
BIGCOMMERCE

Spotify®
zalando
DigitalOcean

samsara
Benchling
invision

kw KELLERWILLIAMS®
MessageBird
FACTSET

Grab
Medium
indeed

DRIFT
COGNITE
GRUBHUB™

Why OpenTelemetry

Developers of modern software applications must deal with complex, distributed systems that move data through an increasing network of services. Traditional APM tools weren't built with this many-layered architecture in mind, and many require excessive manual instrumentation in order to capture distributed trace data.

By providing a standardized data format for distributed traces and metrics data, OpenTelemetry eliminates the need for vendor-specific integrations. Language-specific SDKs and automatic instrumentation for common languages and frameworks make it easier than ever to instrument your code and start capturing observability data. Teams can get started with basic instrumentation quickly and painlessly, and changing vendors no longer requires re-instrumenting code from scratch. Instead, distributed traces and corresponding metrics are captured and emitted in a standardized format, and can be passed to any platform that accepts this format, giving developers the observability they need to build and maintain modern software.

About Lightstep

Lightstep's observability platform is the easiest way for developers and SREs to monitor health and respond to changes in cloud-native applications. Powered by cutting-edge distributed tracing and a groundbreaking metrics database, and built by the team that launched observability at Google, Lightstep provides actionable insights to help teams answer the question "What caused that change?"

How Can I Contribute?

You can find us at:

github.com/open-telemetry

gitter.im/open-telemetry/community

opentelemetry.io