OpenTelemetry

TracingMetrcis

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OpenTracing

OpenTracingTrace201611CNCFOpenTracingHostedCNCFKubernetesPrometheusCNCFOpenTracing ZipkinJaegerOpenTracing

OpenCensus

OpenTracingOpenCensusOpenCensusTracingOpenCensusGoogle DapperOpenCensusOpenTracing TracingMetricsOpenCensusOpenCensusAgentCollectorOpenCensusOpenCensus

OpenTracing vs OpenCensus

TracingPKSteve

OPENTRACING	OpenCensus
- One “vertical” (Tracing) Users want only one dependency	- Many “verticals” (Tracing, Metrics)
- One “layer” (API)	- Many “layers” (API, impl, infra)
- “Looser” coupling (small scope)	- “Tighter” coupling (framework-y) Users and vendors want flexibility
- Lots of languages (~12)	- Many languages (5 in beta)
- Broad adoption	- Broad adoption

OpenTracingOpenCensusOpenTracingOpenCensusMetricsAPIPK

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OpenTracingElasticSearchUberDataDogSkyWalkingOpenCensusGoogle PK

OpenTelemetry

OpenTelemetryOpenTelemetryOpenTracingOpenCensusOpenTracingOpenCensusOpenTracing OpenCensusOpenTelemetry

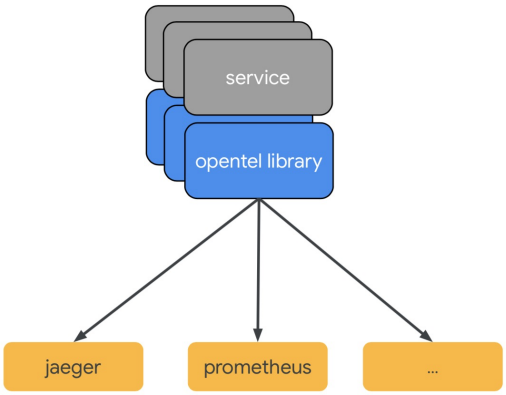
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OpenTelemetryOpenTracingOpenCensusCNCF sanboxOpenTelemetry3

1. APIW3CGRPC
2. SDKToolSDKLog4jLogBack
3. OpenCensusAgentCollector

OpenTelemetrySDKBackendVisualAlertPrometheusMetricsBackendJaegerTracingBackend



MetricsTracingLogging
Logging

1. OpenTracingOpenCensusSDKLoggingP2
2. LoggingCNCFFluentd

OpenTelemetryMetricsTracingLoggingCNCF

Tracing
Metrics/CounterGaugeHistogram
Logging/

MetricsTracingMetrics/

OpenTelemetry APIs SDKs

OpenTelemetry trace APIsOpenTelemetryexporters traceNew Relic

- https://opentracing.io
- https://opencensus.io
- https://opentelemetry.io
- https://developer.aliyun.com/article/710154