

OpenTelemetry

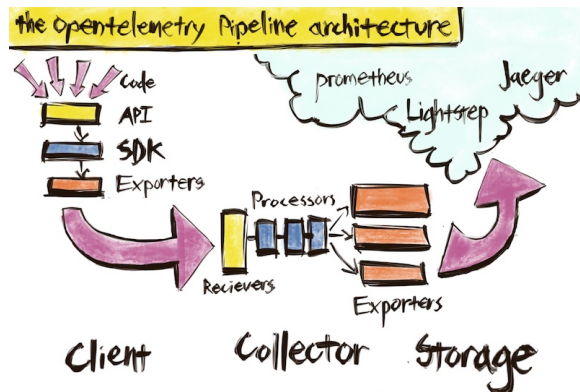
Distributed Tracing GoogleTracingNetflixOpenTracingGoogleOpenCensusOpenTelemetryotel

1. [OpenTracing](#)
2. [OpenTelemetry](#)

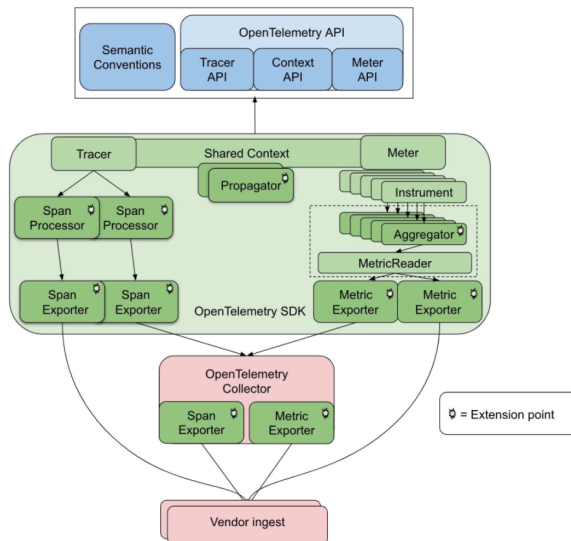
TracingOpenTelemetryGolang

1. <https://github.com/open-telemetry/opentelemetry-go>
2. <https://github.com/open-telemetry/opentelemetry-go-contrib>

Jaeger/Prometheus/GrafanaOpenTelemetry



OpenTelemetryOpenTelemetry [OpenTelemetry https://github.com/open-telemetry/opentelemetry-specification/blob/main/specification/trace/api.md](https://github.com/open-telemetry/opentelemetry-specification/blob/main/specification/trace/api.md)



TracerProvider

TracerTracerProvider (NoopTracerProvider)Tracer

Tracer

Tracertracerspan8spantracer:

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```
span.AddEvent("http.request", trace.WithAttributes(
    label.Any("http.request.header", headers),
    label.Any("http.request.baggage", gtrace.GetBaggageMap(ctx)),
    label.String("http.request.body", bodyContent),
))
```

SpanContext

SpanContext

- spanspan_id, trace_id
- Baggage - K/VBaggage Attributes K/V Attributes
 - keyvalue
 - BaggagespanSpanContextspanBaggage - spanK, VCPU

Propagator

Propagator/ClientServerTraceIdSpanIdBaggagePropagator/OpenTelemetryTextMapPropagatorTextMapPropagator<https://github.com/open-telemetry/opentelemetry-specification/blob/main/specification/context/api-propagators.md>

GoFramegtraceOpenTelemetry

```
// defaultTextMapPropagator is the default propagator for context
propagation between peers.
defaultTextMapPropagator = propagation.NewCompositeTextMapPropagator(
    propagation.TraceContext{},
    propagation.Baggage{},
)
```



GoFrameOpenTelemetryTracerProviderTracerProviderTracerProviderTraceIDS
panID

- Http Client
 - HTTP
- Http Server
 - HTTP
- gRPC Client
 - gRPC
- gRPC Server
 - gRPC
- Logging
 - TraceIdglogCtxcontext.Contextcontext.ContextTraceId
- ORM
 - Orm
- Redis
 - RedisRedis
- Utils

Tracinggtrace<https://pkg.go.dev/github.com/gofr/gf/v2/net/gtrace>

- <https://opentracing.io>
- <https://opencensus.io>
- <https://opentelemetry.io>
- <https://github.com/open-telemetry/opentelemetry-specification/tree/main/specification>