WHAT ARE MY MICROSERVICES DOING?

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MICROSERVICES

* TENS, HUNDREDS OR THOUSANDS

* AT DIFFERENT VERSIONS

* TALKING TO EACH OTHER
MICROSERVICES

* CHAOS
OBSERVABILITY

* METRICS
* LOGS
* TRACING
* ALERTING
OBSERVABILITY

* HINT: HTTPS://KIALI.GITHUB.IO
TRACING

* CODE INSTRUMENTATION

* "SPAN" IS A WRAPPER AROUND A ROUTINE

* SPAN CAN CONTAIN OTHER SPANS

* EXPLICIT VS. IMPLICIT INSTRUMENTATION
DISTRIBUTED TRACING

* TRACING + CONTEXT PROPAGATION

* STORY OF A REQUEST ACROSS SERVICES
DISTRIBUTED TRACING

Jaeger UI

Lookup by Trace ID...

Search

Dependencies

About Jaeger

Customer: getCustomer

Trace Start: April 17, 2018 11:15 AM
Duration: 406.63ms
Services: 2
Depth: 4
Total Spans: 4

Service & Operation

| 0ms | 101.66ms | 203.32ms | 304.97ms | 406.63ms |

getCustomer

Service: customer
Duration: 406.63ms
Start Time: 0ms

Tags: http.status_code - 200, component - java-web-servlet, span.kind - server, sampler.type - const, sampler.param - ...

Process: hostname - caju, ip - 192.168.178.60, jaeger.version - Java-0.25.0

Logs (2)

Preference: getPreferences

Service: preference
Duration: 162.18ms
Start Time: 206ms


Process: hostname - caju, ip - 192.168.178.60, jaeger.version - Java-0.25.0

Logs (2)
OPENTRACING

* INSTRUMENTATION API

* VENDOR NEUTRAL SPECIFICATION

* PART OF THE CNCF
JAEGER

* CONCRETE OPENTRACING TRACER
* BACKEND TO RECEIVE TRACING DATA
* UI TO DISPLAY THE TRACE
* PART OF THE CNCF
DEMO 1

* BARE METAL DEPLOYMENT

* FRAMEWORK INSTRUMENTATION
* KUBERNETES/OPENShift DEPLOYMENT

* PLUS SERVICE MESH INSTRUMENTATION
RESOURCES

* GITHUB.COM/REDHAT-DEVELOPER-DEMOS/ISTIO-TUTORIAL
* JAEGERTRACING.IO
* OPENTRACING.IO
* KIALI.GITHUB.IO
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