



# Logs Distribuídos

OpenTracing e OpenZipikin



# Por que Logs Distribuídos?

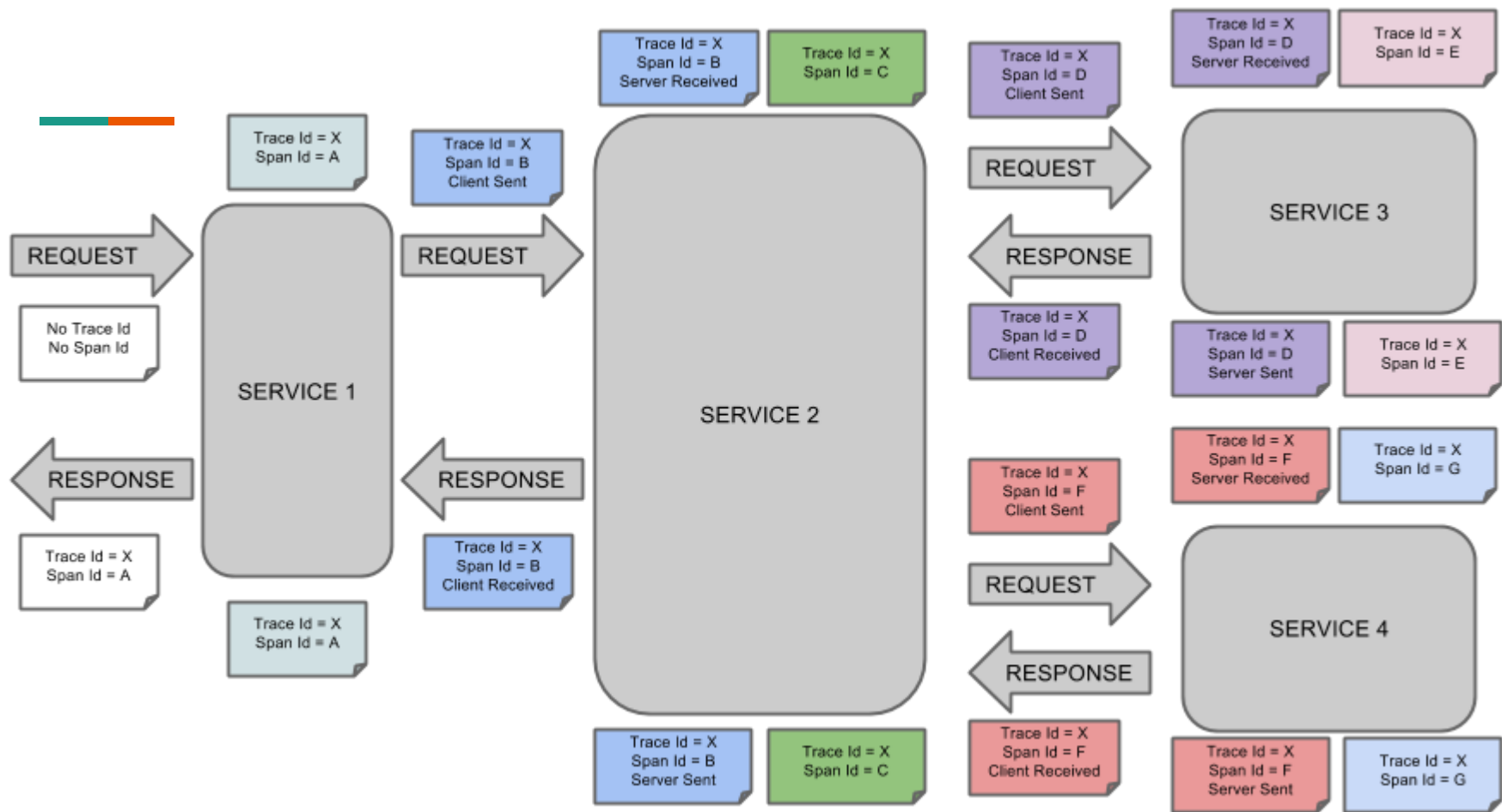
- Mirco-services
- Transações
- Rastreamento






# OpenTracing

- Google Dapper (<https://ai.google/research/pubs/pub36356>)





```
io.opentracing.Tracer tracer = ...;
...
Scope scope = tracer.scopeManager().active();
if (scope != null) {
    scope.span().log("...");
}
```



## Framework



spring

- Sleuth
- HTTP
- AMQP
- Kafka



# OpenZipikin





Duration: 1.142s

Services: 4

Depth: 3

Total Spans: 4

JSON

Expand All

Collapse All

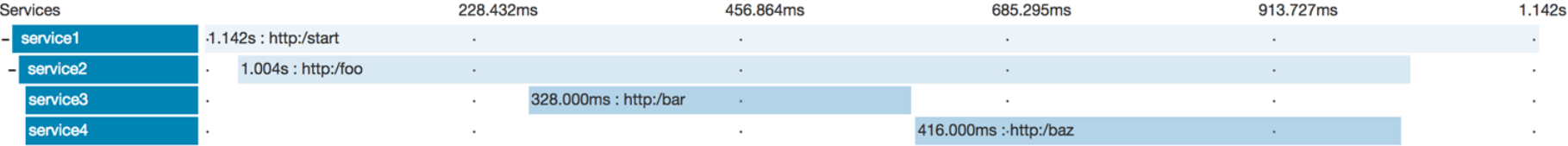
Filt... ▼

service1 x2

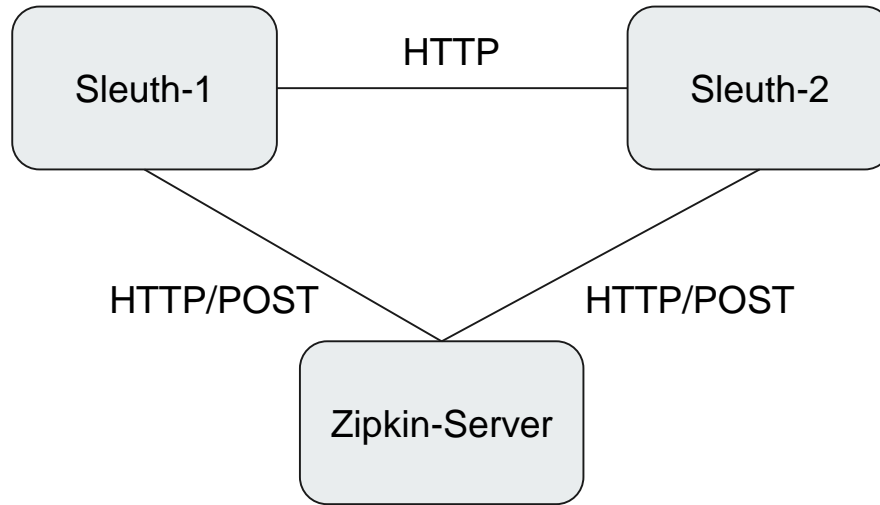
service2 x3

service3 x1

service4 x1



## Demo - Topologia





# Demo

- <https://ta-sleuth-1.herokuapp.com>
  - <https://ta-sleuth-2.herokuapp.com>
  - <https://ta-zipkin.herokuapp.com/zipkin/>
- 
- `/log/{text}`
  - `/fanout/{text}`
  - `/cycle/{text}`
- 
- <https://github.com/willmenn/ta>



# Conclusão

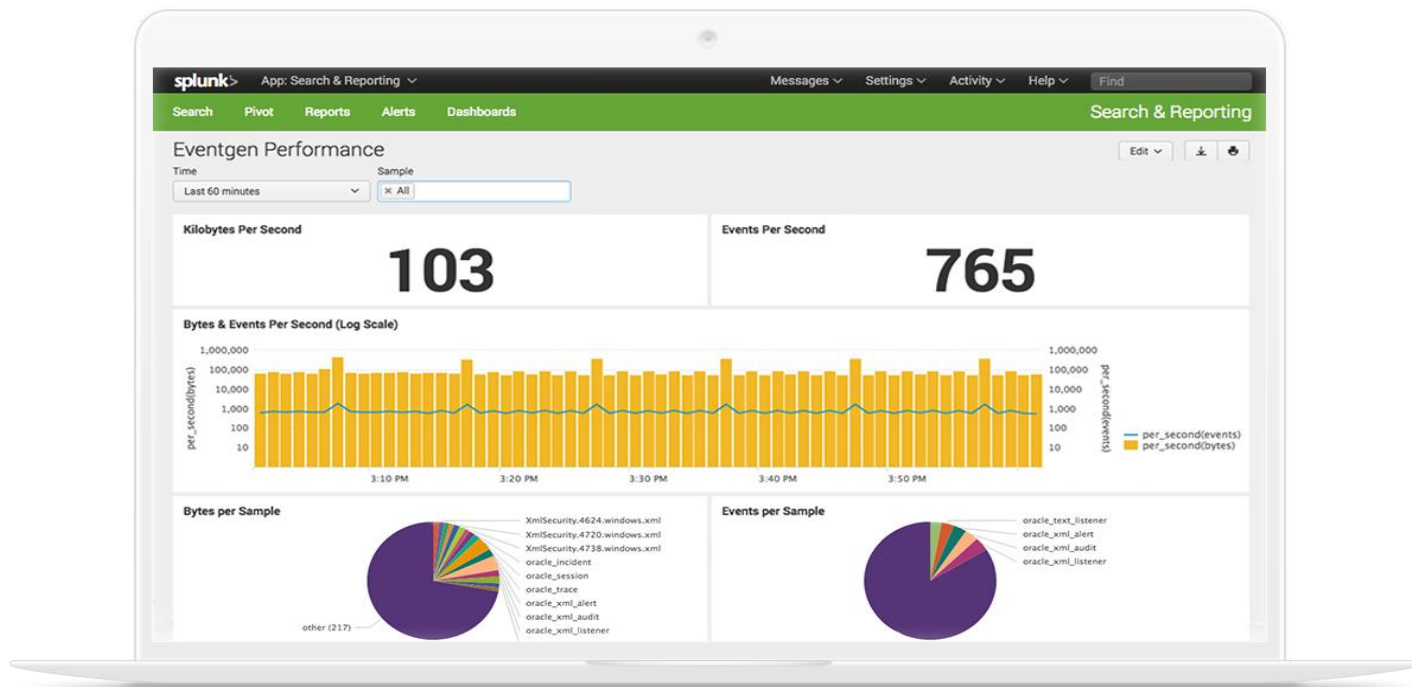
- É preciso ter algum tipo de mecanismo para conseguir entender o que está acontecendo no App.
- Tem que ter uma maneira de visualizar os problemas.



JAEGER



# Splunk





# Log Estruturados / SLF4J

- Logback
- JSON
- MDC

```
[{
  "Env" : "Dev",
  "ServerName" : "LAPTOP1",
  "AppName" : "ConsoleApplication1.vshost.exe",
  "AppLoc" : "C:\\BitBucket\\stackify-api-dotnet\\Src\\ConsoleApp
lication1\\bin\\Debug\\ConsoleApplication1.exe",
  "Logger" : "StackifyLib.net",
  "Platform" : ".net",
  "Msgs" : [{
    "Msg" : "Incoming metrics data",
    "data" : "{\"clientid\":54732}",
    "Thread" : "10",
    "EpochMs" : 148555302470,
    "Level" : "DEBUG",
    "id" : "0c28701b-e4de-11e6-8936-8975598968a4"
  ]
}]
```

# New Relic

