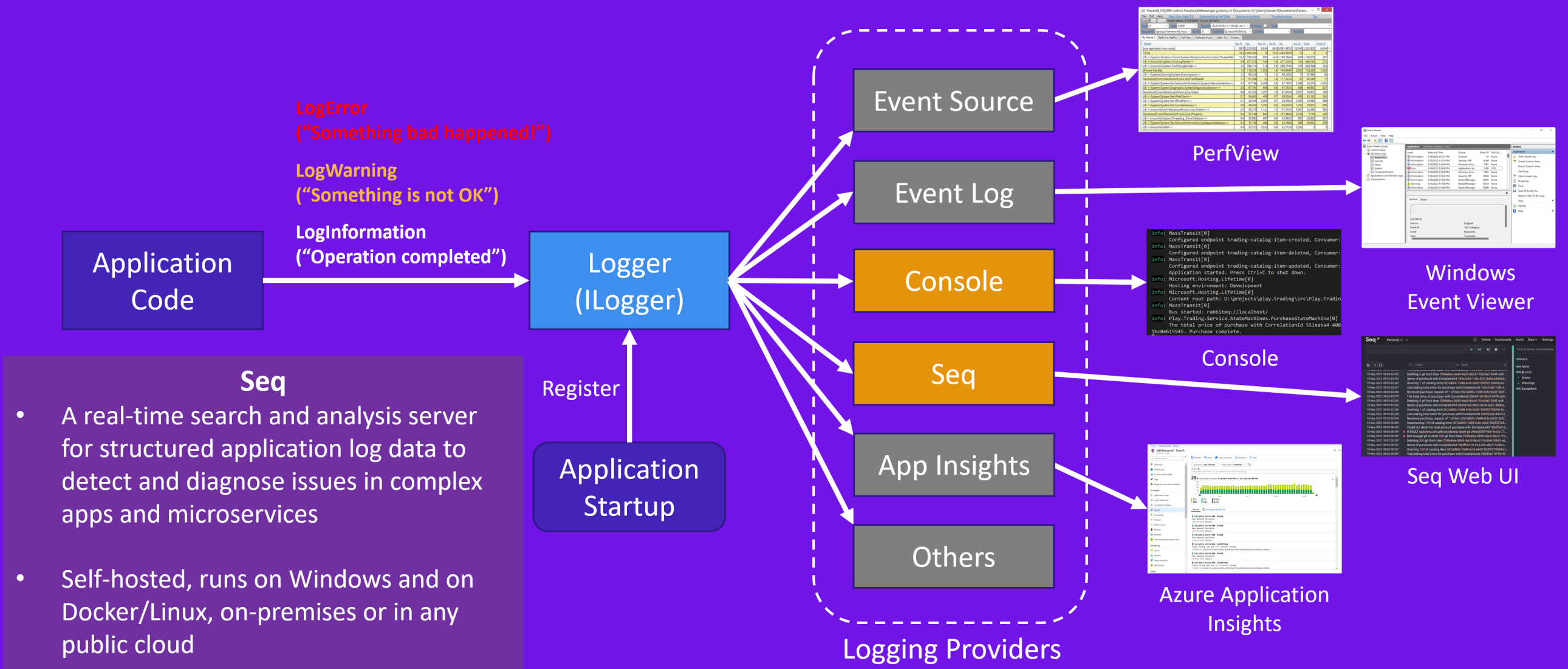
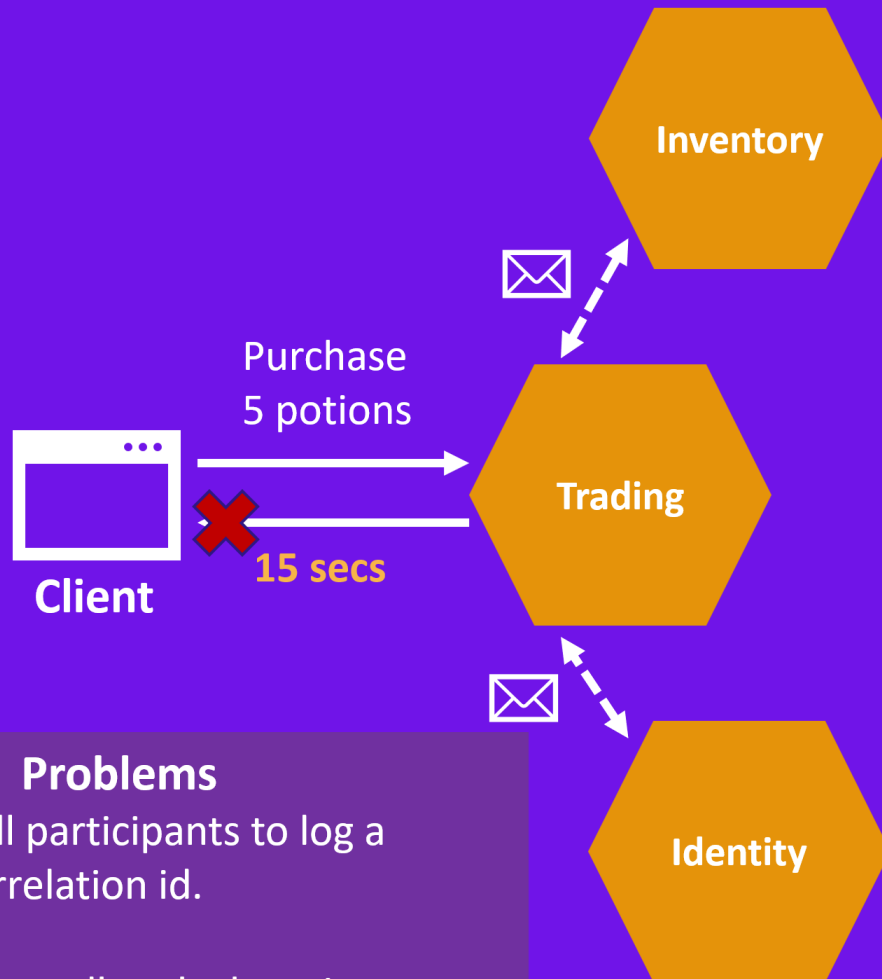


How Logging Works in ASP.NET Core



Why Distributed Tracing?



Problems

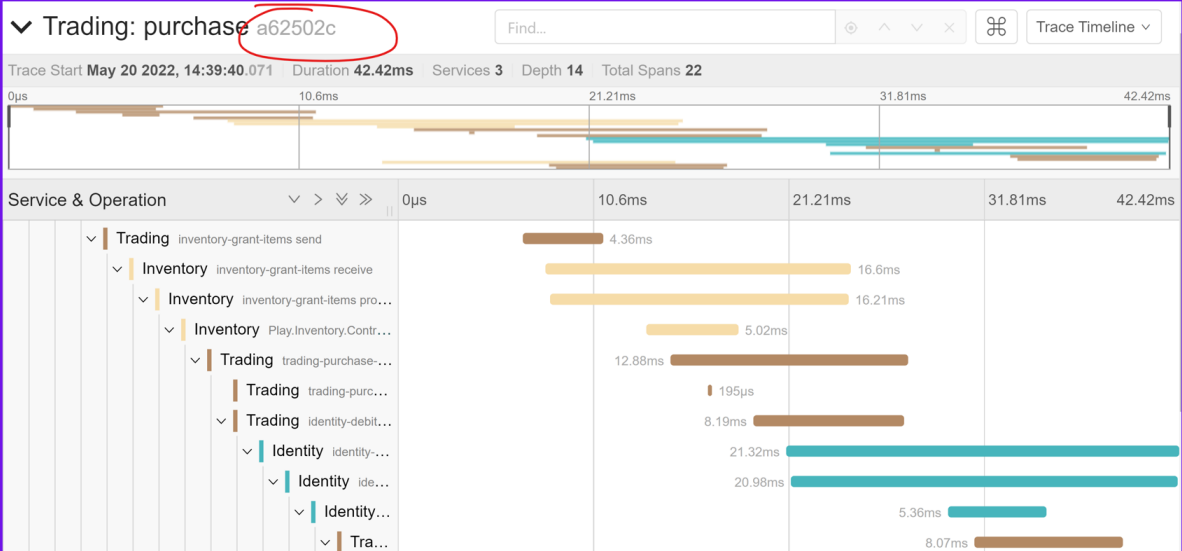
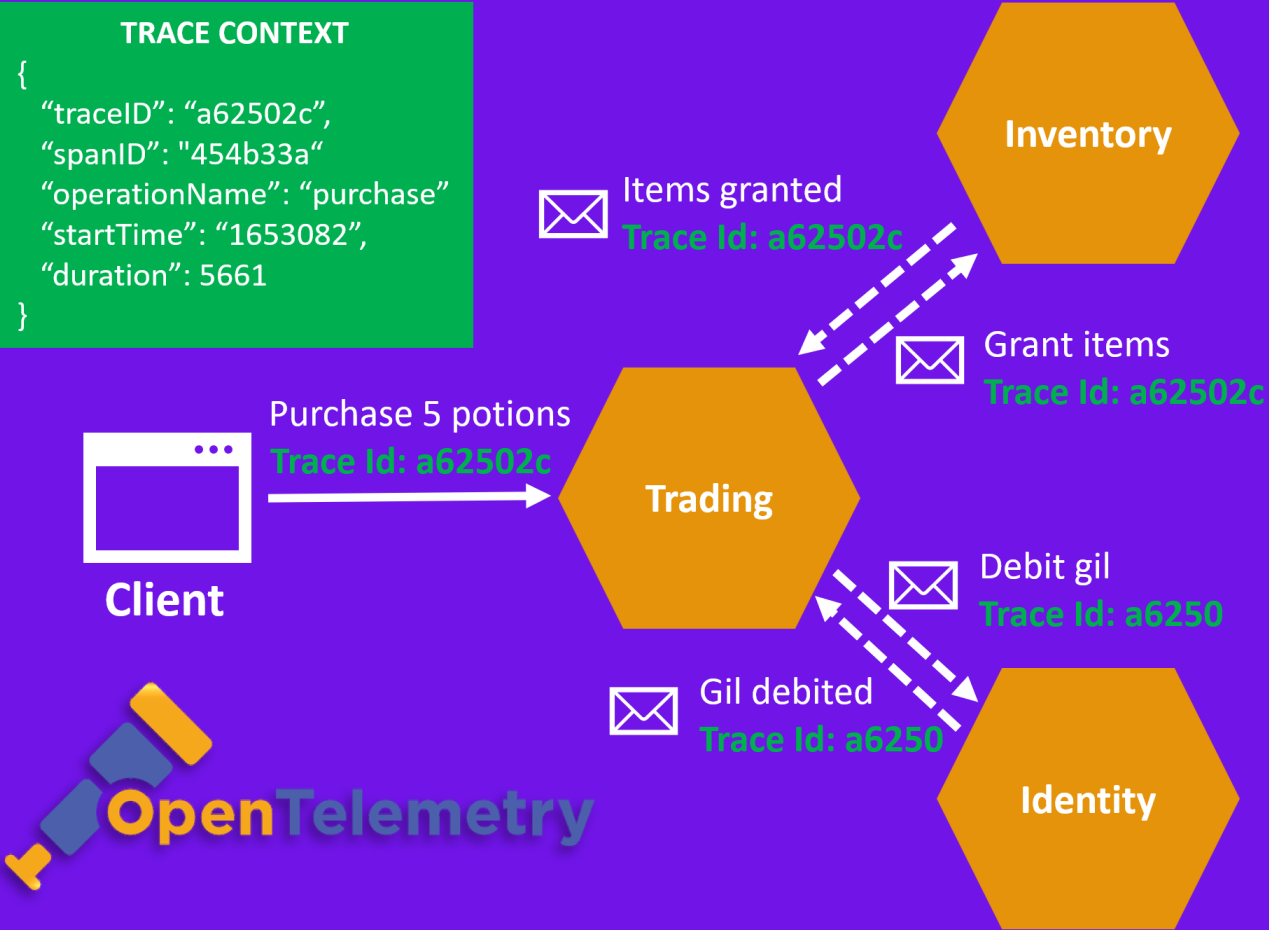
- Requires all participants to log a custom correlation id.
- Need to manually calculate timestamp deltas or spot issues in logs.

Date	Time	Message	Correlation Id
5/20	14:39:40	Purchase complete	c608e2d3-2a8c
5/20	14:39:20	Gil debited	c608e2d3-2a8c
5/20	14:38:10	Gil debited	a339df10-bc9c
5/20	14:37:33	Items granted	c608e2d3-2a8c
5/20	14:37:01	Purchase complete	47a98d5f-8426
5/20	14:35:11	Gil debited	47a98d5f-8426
5/20	14:25:59	Total calculated	c608e2d3-2a8c
5/20	14:33:00	Purchase started	47a98d5f-8426
5/20	14:32:44	Items granted	a339df10-bc9c
5/20	14:24:10	Purchase started	c608e2d3-2a8c
5/20	14:23:45	Total calculated	cedc8f68-6a2e

Logs

What is Distributed Tracing?

```
TRACE CONTEXT
{
  "traceID": "a62502c",
  "spanID": "454b33a"
  "operationName": "purchase"
  "startTime": "1653082",
  "duration": 5661
}
```



Jaeger UI

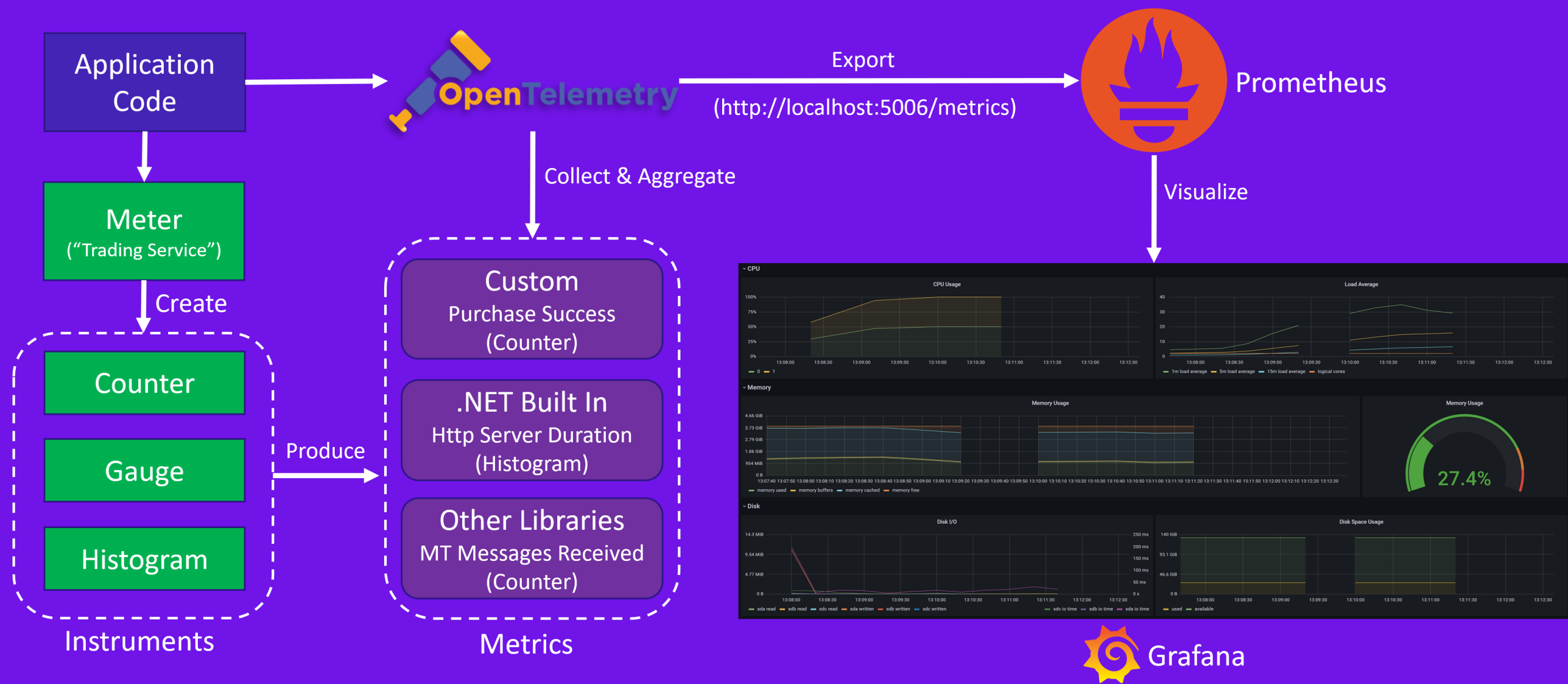


Date	Time	Message	Correlation Id	Trace Id
5/20	14:39:40	Purchase complete	c608e2d3-2a8c	a6250

Distributed Tracing

A diagnostic technique that helps engineers localize failures and performance issues within applications, especially those distributed across multiple microservices.

How Monitoring Works in .NET



Building Microservices with .NET