Observability
CLINIC

Observability
The vision, the Reality and the future

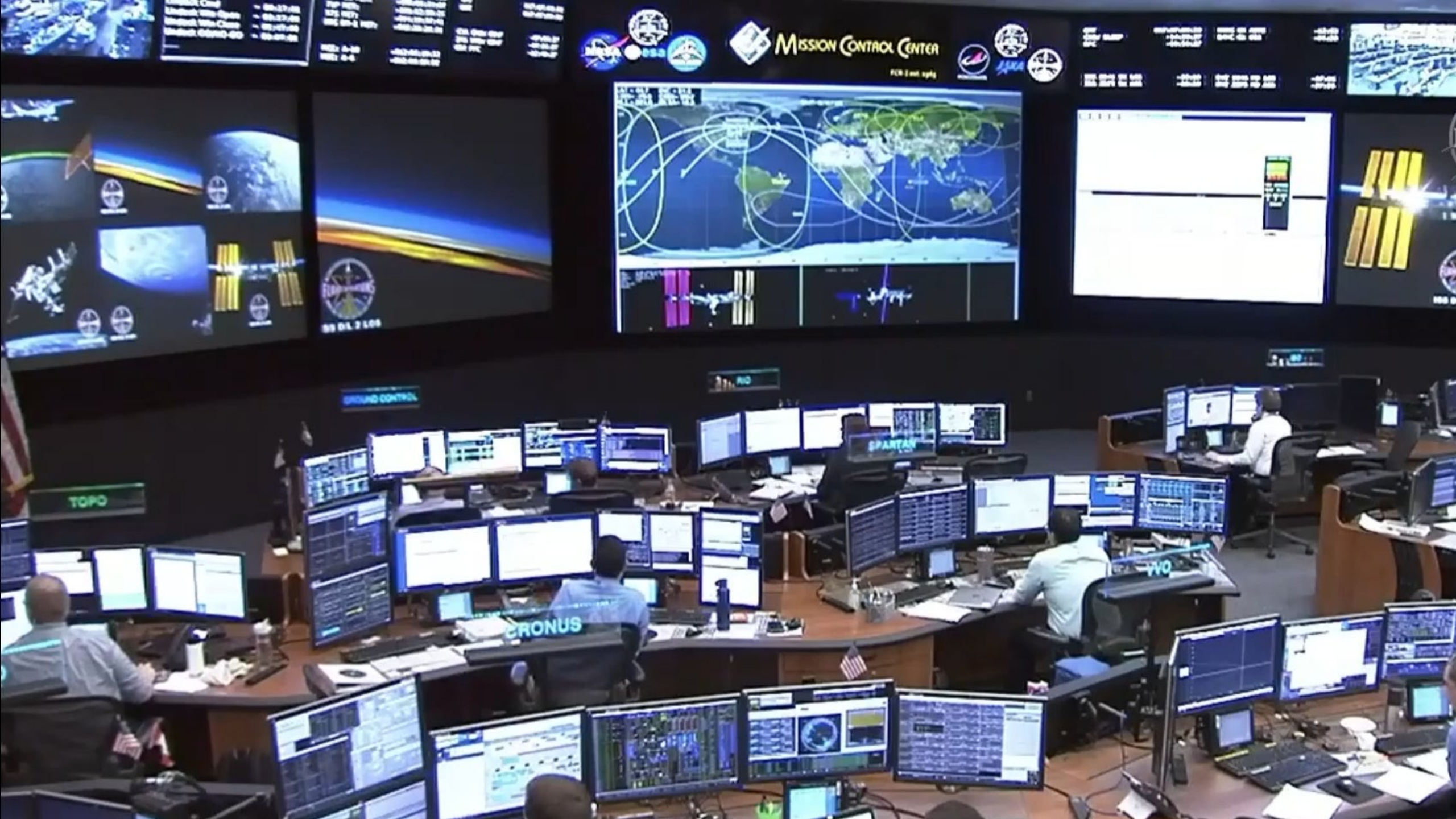
February the 13th, 2023

Henrik Rexed

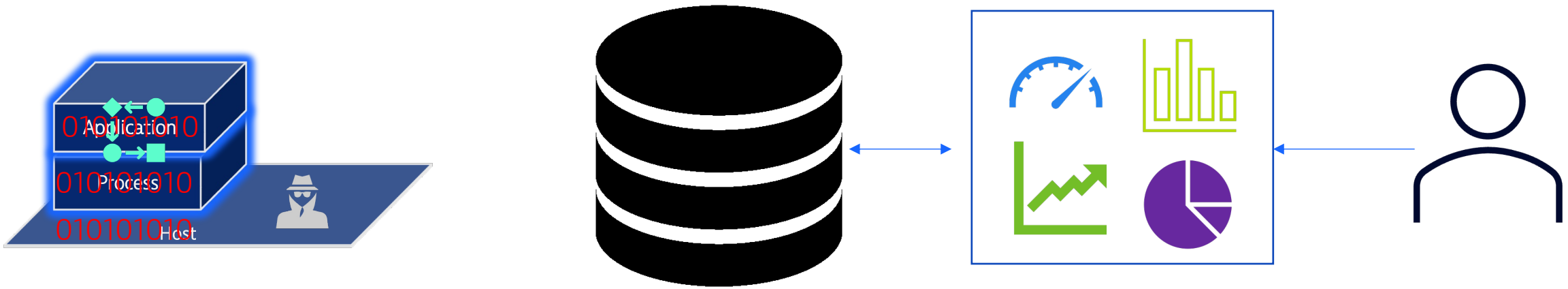
Cloud Native Advocate

- 15+ years of Performance engineering
- Owner of
- Producer of

In a Galaxy, Not so far….


MISSION CONTROL CENTER
GROUND CONTROL
TOPO
CRONUS
SPARTAN
IVO

APM was helping teams to understand their system



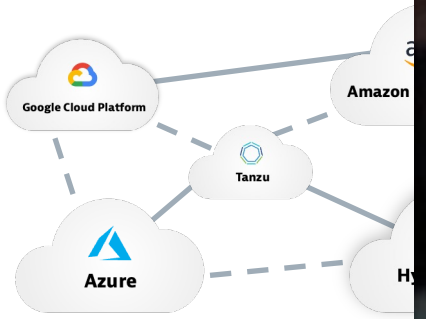
The profiling experience

C

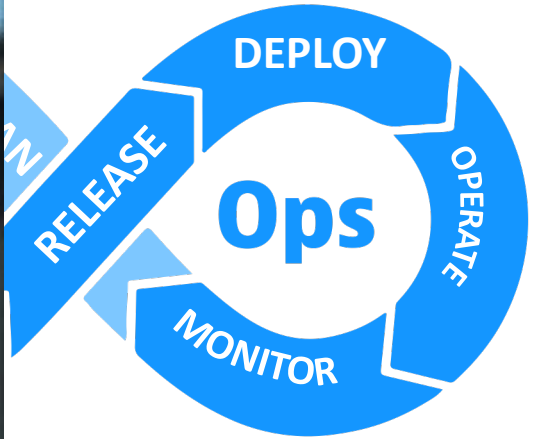
M

But....Rebellion made it more difficult

Move to the cloud and multiclouds



Shift left DevOps practice

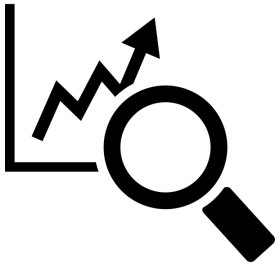


Observability?

Observability pilars

Logs

Events



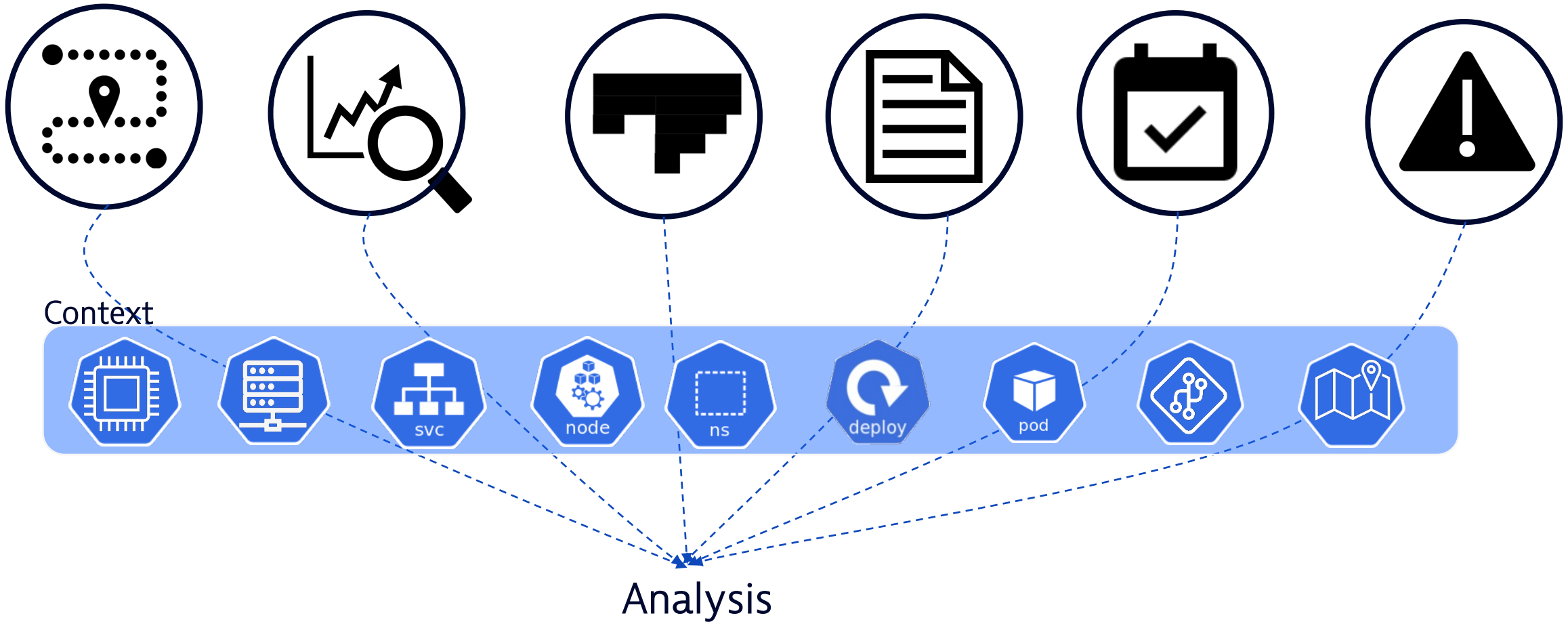
Metric

Traces

Profiling

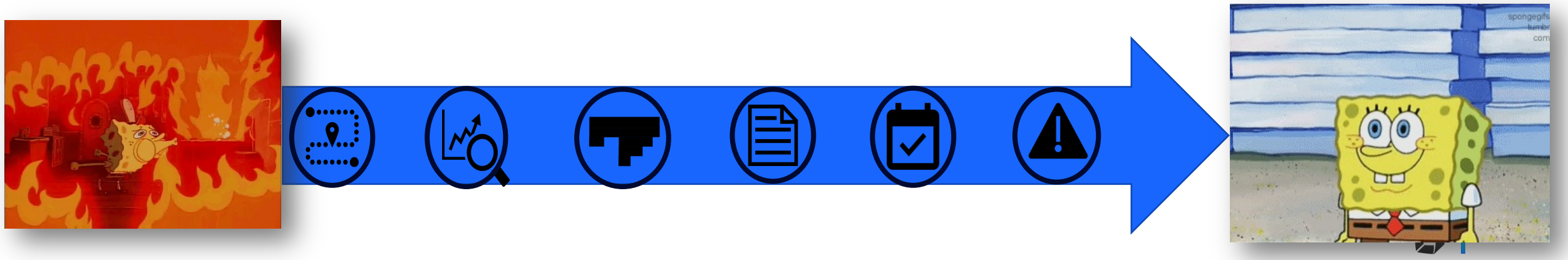
Exception

Why do we need several signals?



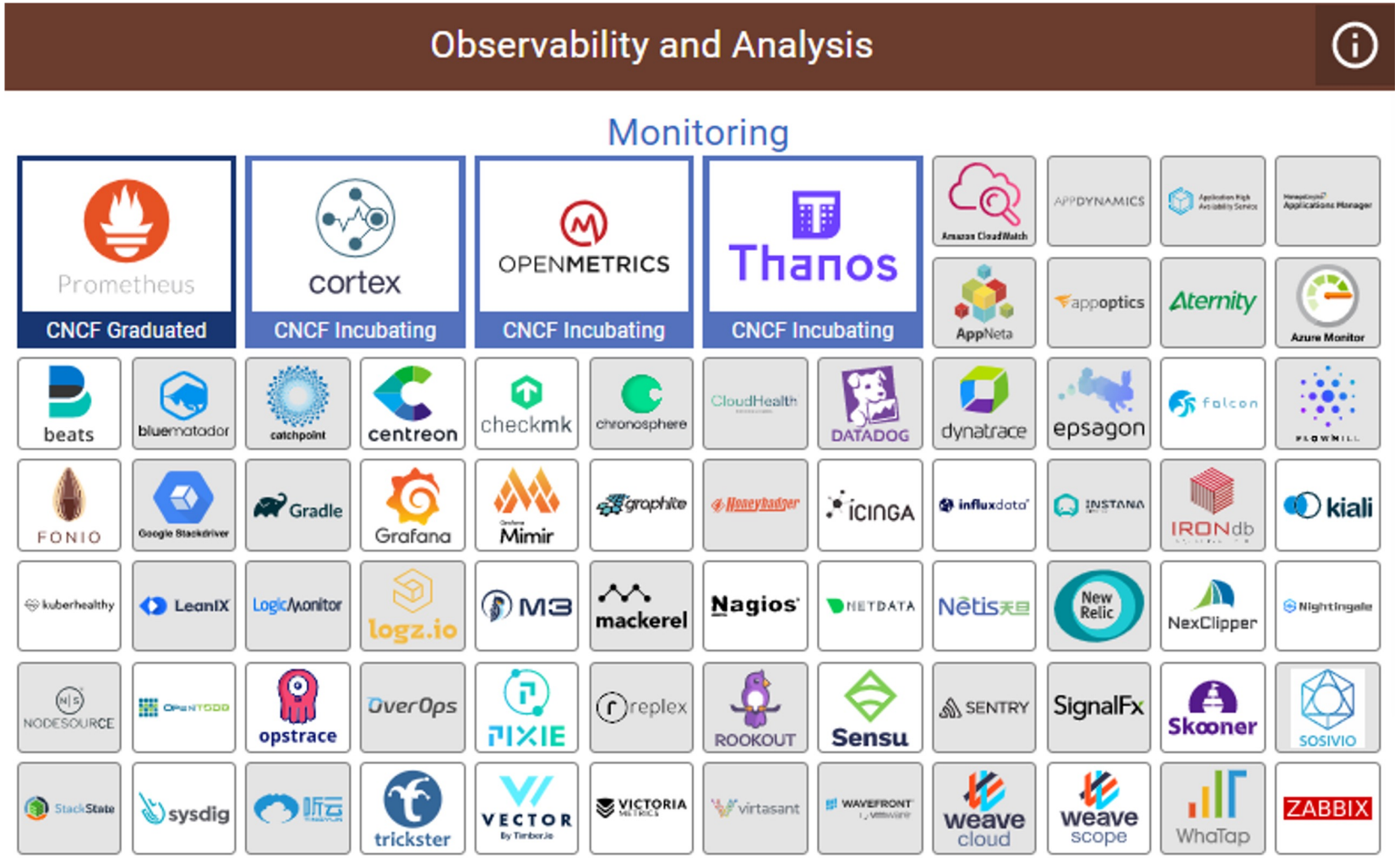
Why do we need several signals?

- To resolve quickly an incident, we are walking through our signals:
  - Traces and metrics to locate the area of our issue
  - Profiling and Exceptions to locate the part of the code
  - Logs to get specific information
  - Events to correlate with information related to our internal processes



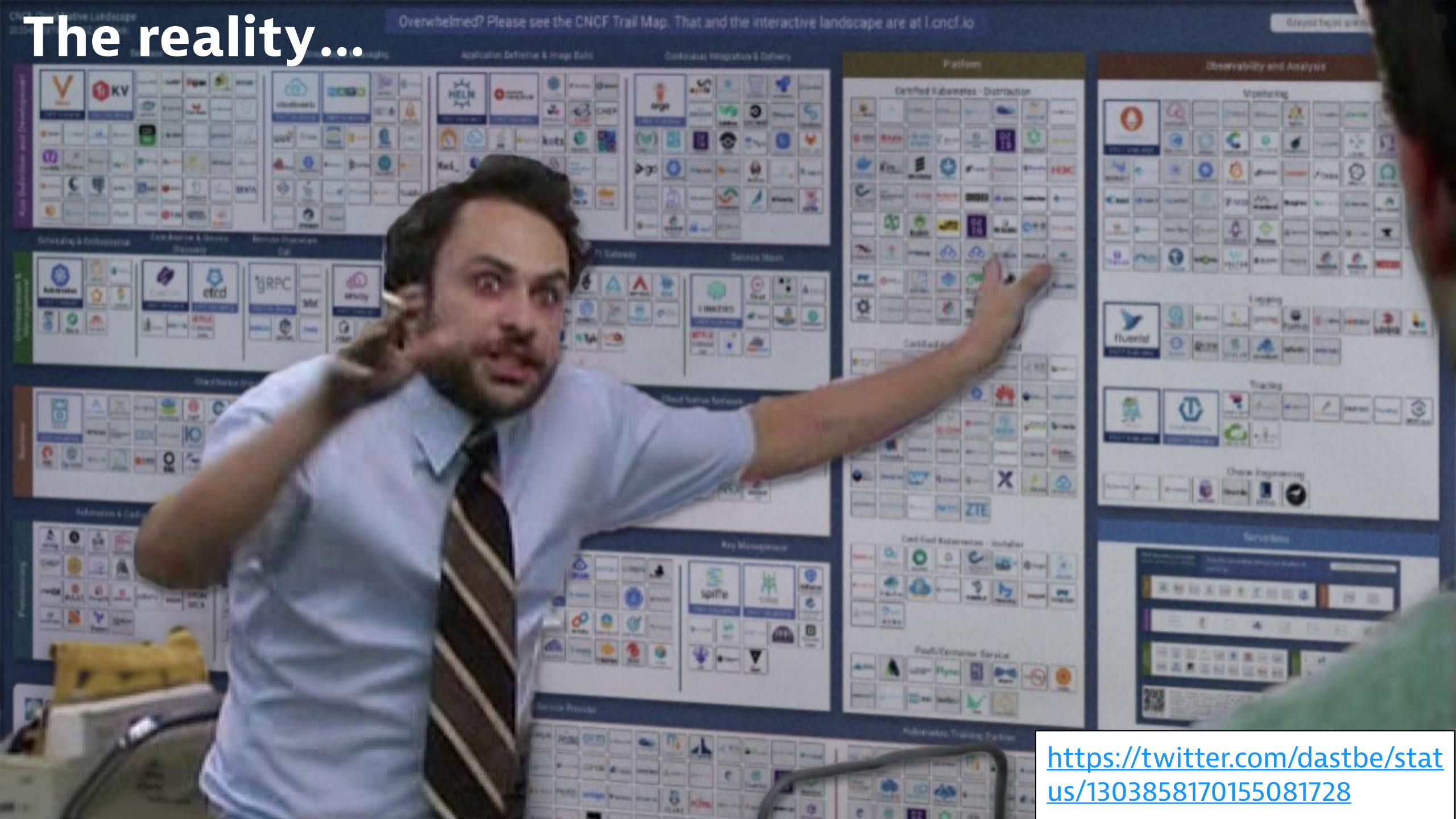
The reality of Observability

The CNCF Landscape



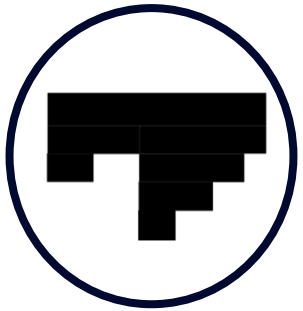
https://landscape.cncf.io/

The reality…



https://twitter.com/dastbe/status/1303858170155081728

Observability



We isolate our signals

- Most of the Organizations tends to seperate the usage and storage of :
  - Logs
  - Traces
  - Profiling
  - Metrics

Isolation comes with a price

- Maintenance
- Configuration
- Storage

Tools

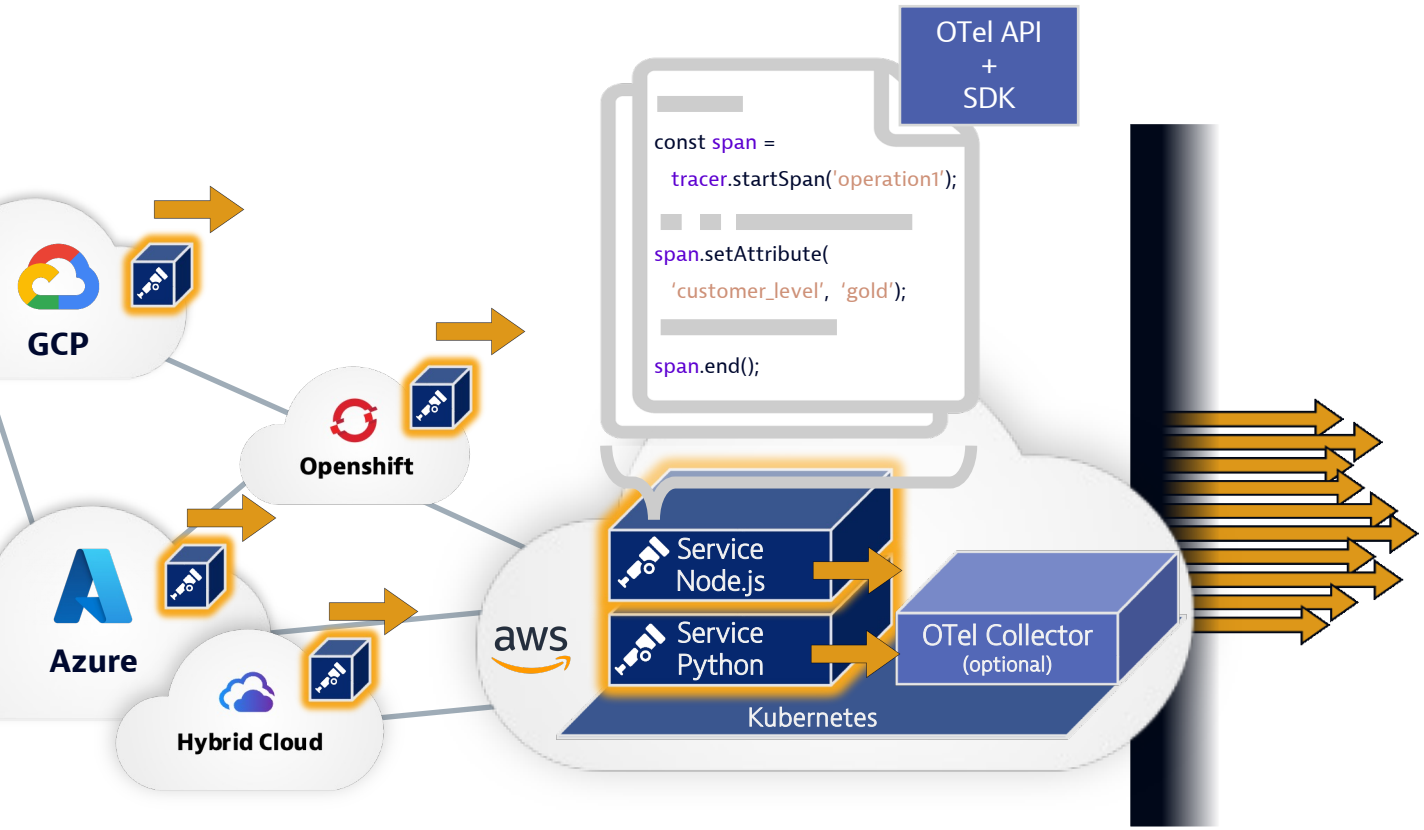
- Time to Analyze
- Correlate informations

Proces
s

The Future

With OpenTelemetry

What is OpenTelemetry (OTel)?



OpenTelemetry

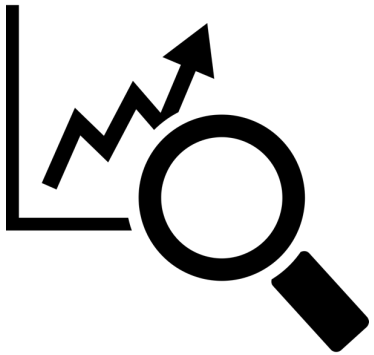
OpenTelemetry

OTel provides a set of APIs, libraries, and tools to capture distributed traces, metrics, and logs from your applications.

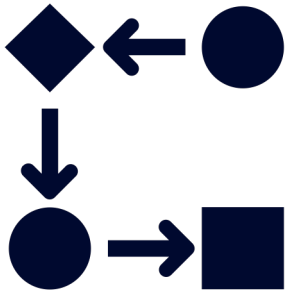
CLOUD NATIVE
COMPUTING FOUNDATION

OpenTelemetry the Standard for Observability

Logs



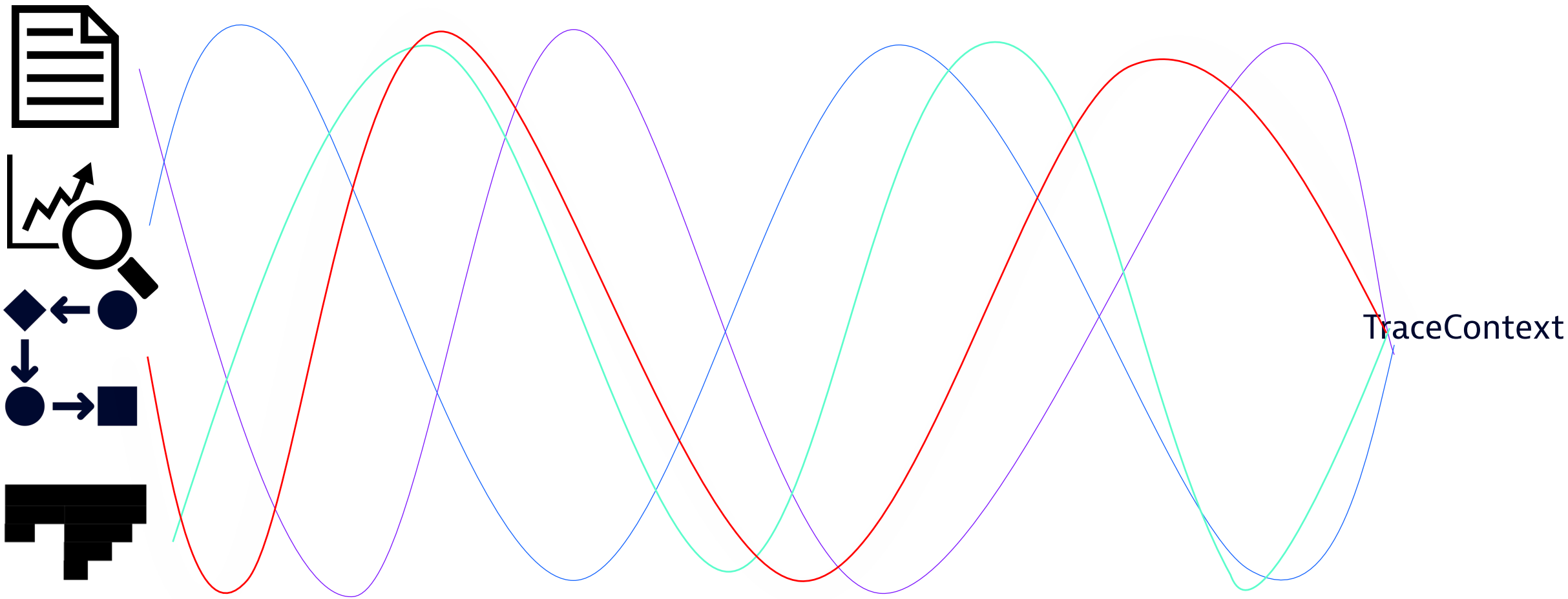
Metrics



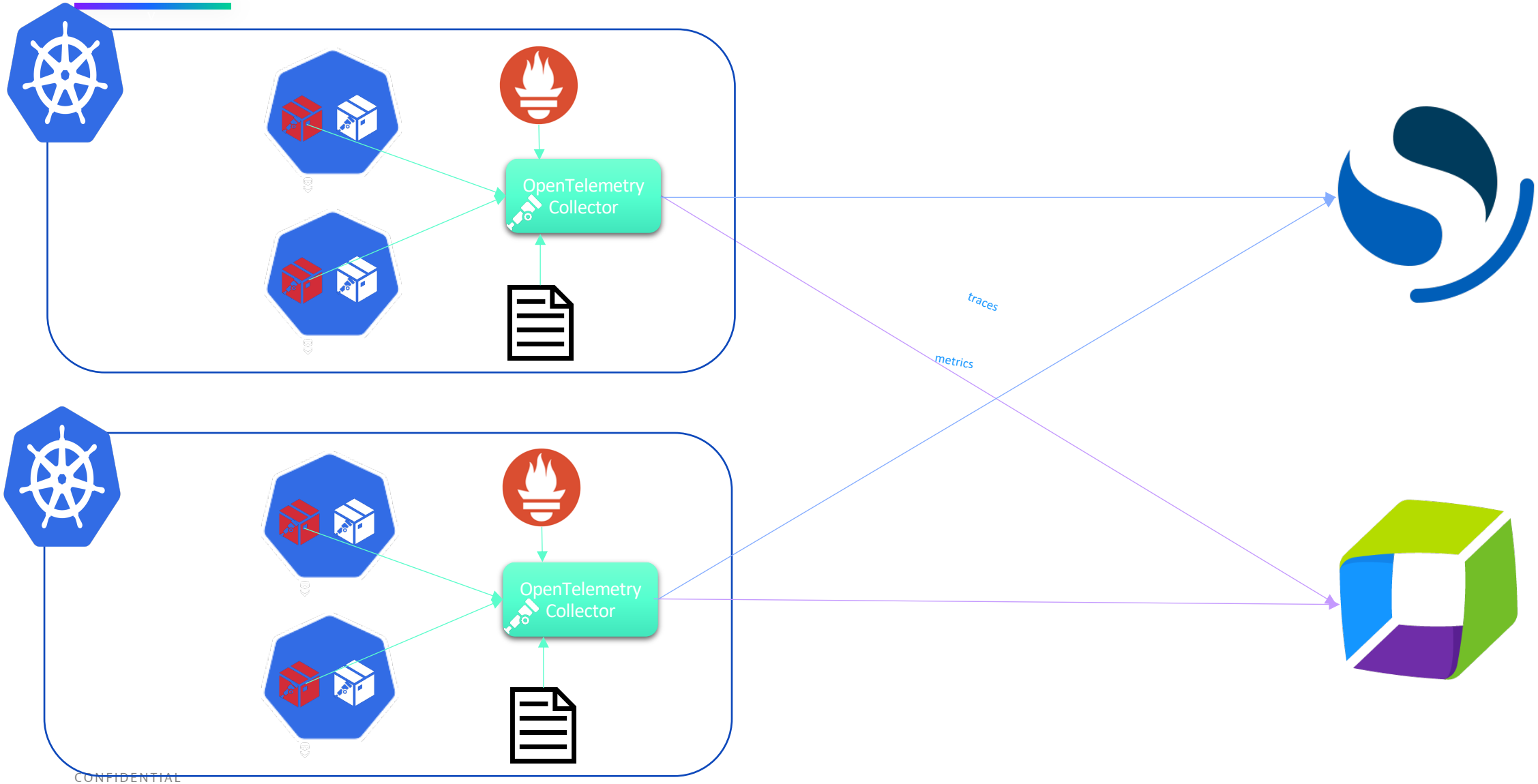
Traces

Continuous Profiling

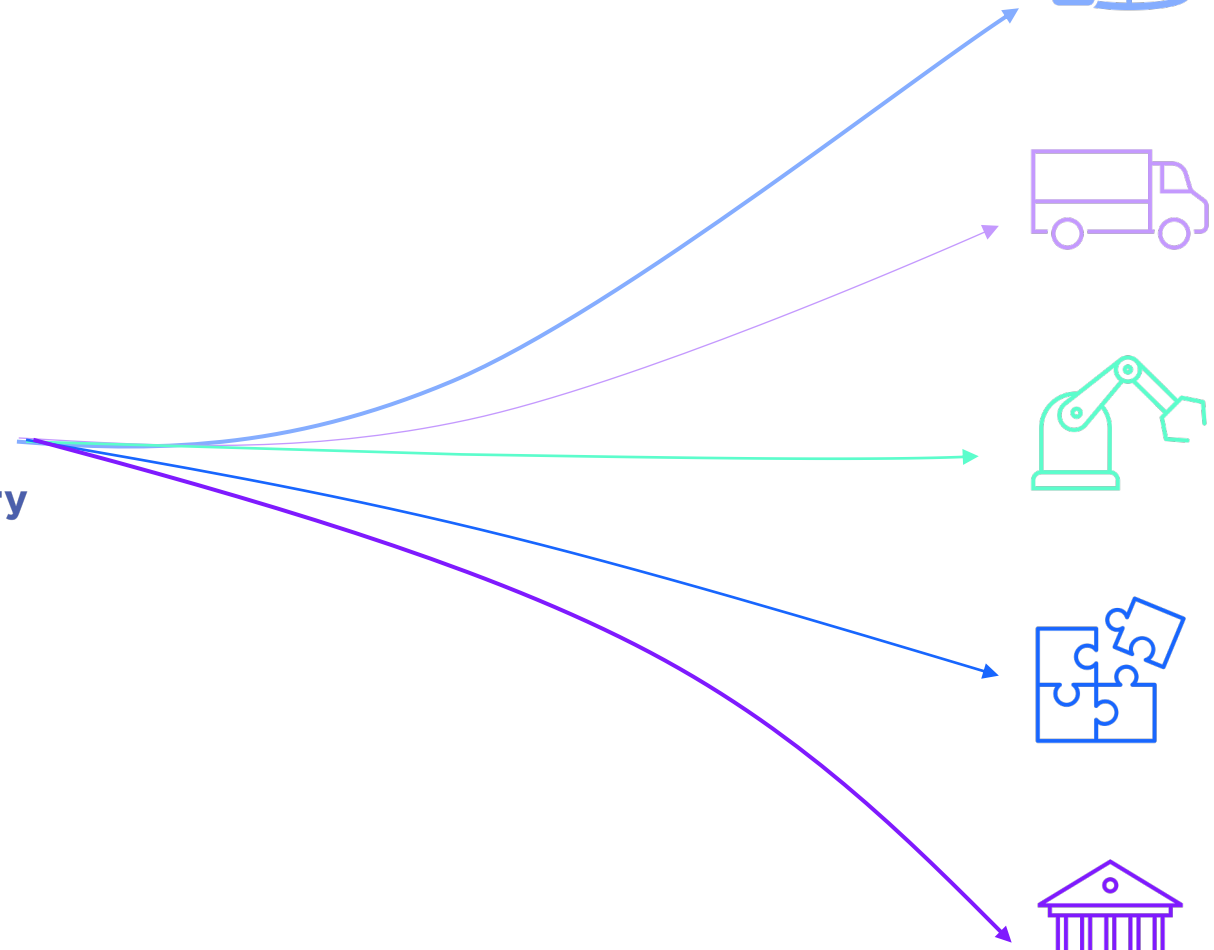
Connect the dots



The AgentLess mouvement with OpenTelemtry



The Standard that will enable our Automation



Testing

Improve testing scope with Observability data

Delivery

Standardize your Delivery process by defining
- Remediation criteria
- Release validation

CI process

A standard validation criteria on your releases
Report DORA metrics in a standard way

Development

Accelerate innovation with Observability driven developpement

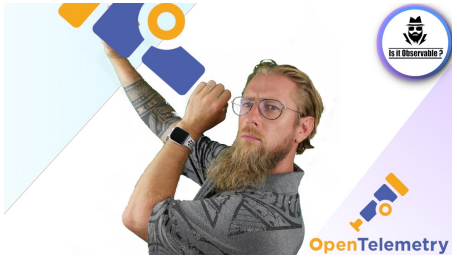
Business

Define Custom Business KPI
Measure the busines value of IT improvement

Is it observable

- Looking for educational content on Observability , Checkout the Youtube Channel :

Is It Observable



CLOUD DONE RIGHT