

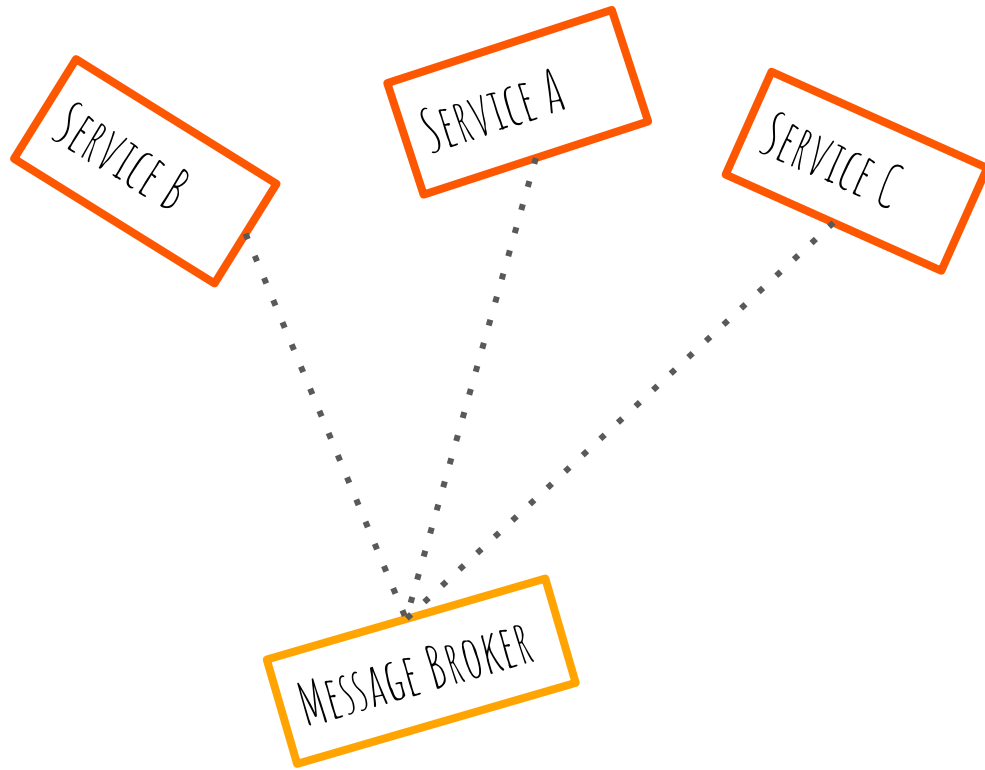
HANDLING INCIDENTS COLLABORATIVELY IS LIKE
SOLVING A RUBIK'S CUBE

SERVICE B

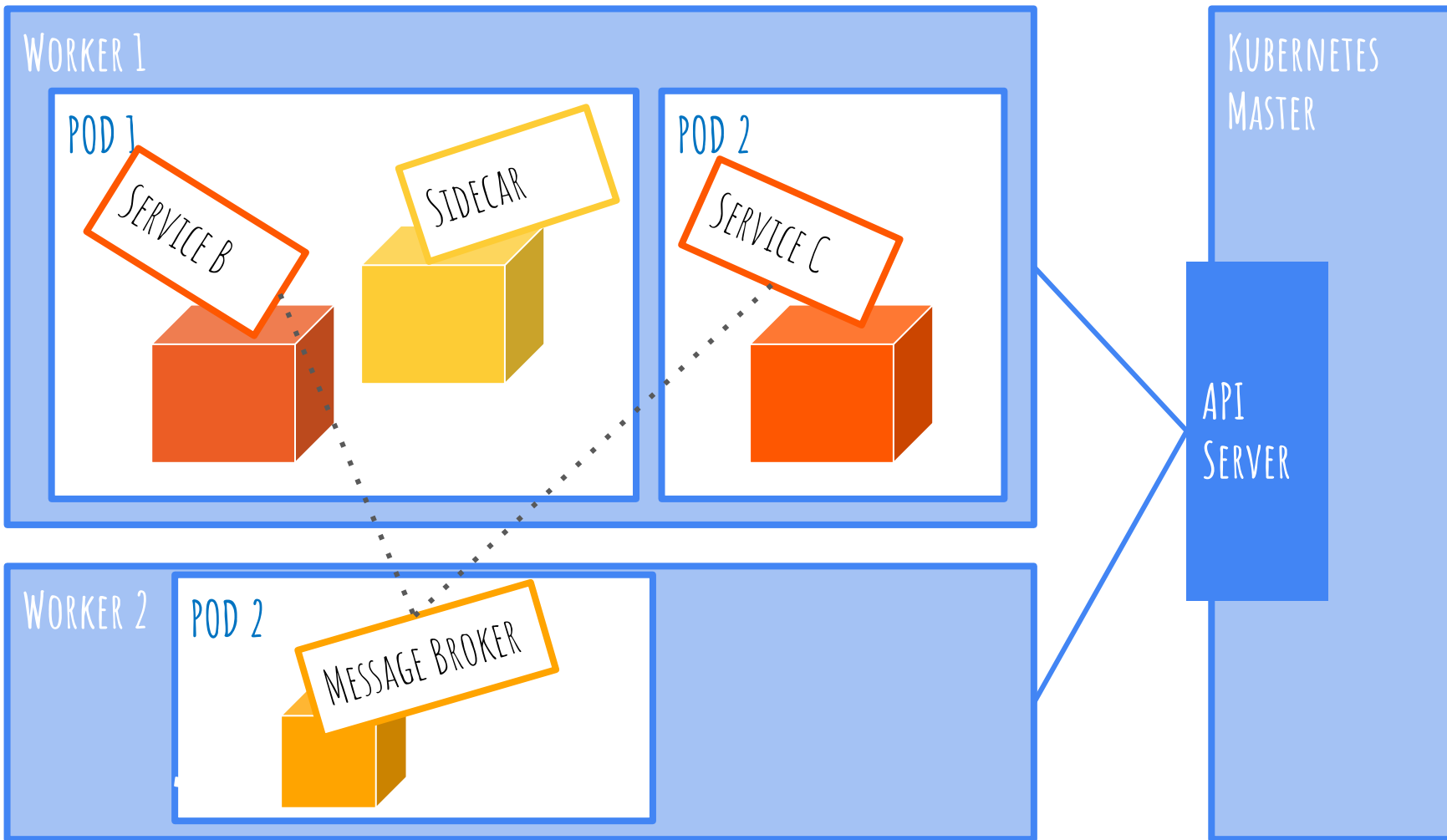
SERVICE A

SERVICE C

LESS COMPLEX



MORE COMPLEX COMMUNICATION





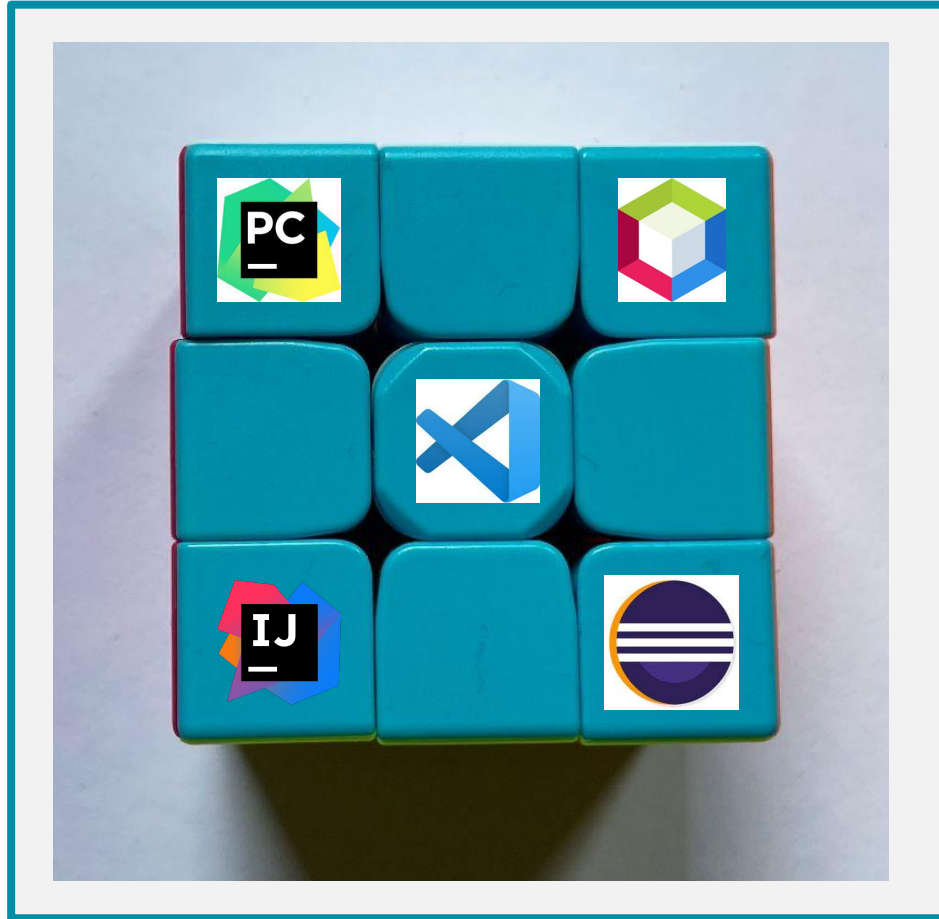
@NLEA



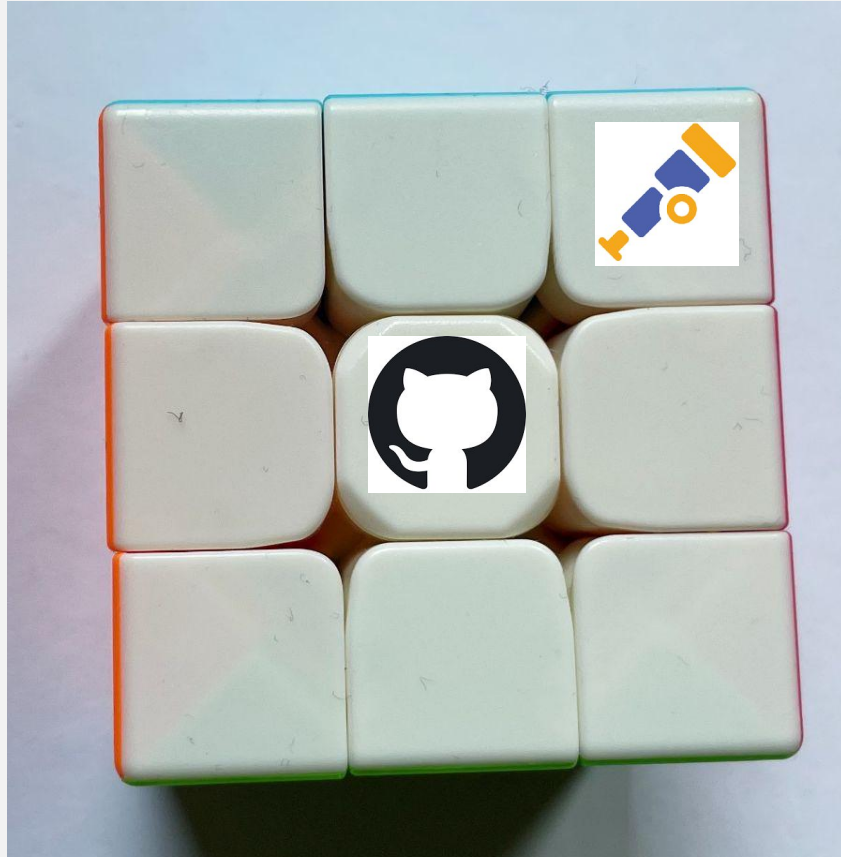
@NLEA@SOCIAL.ANOXION.DE

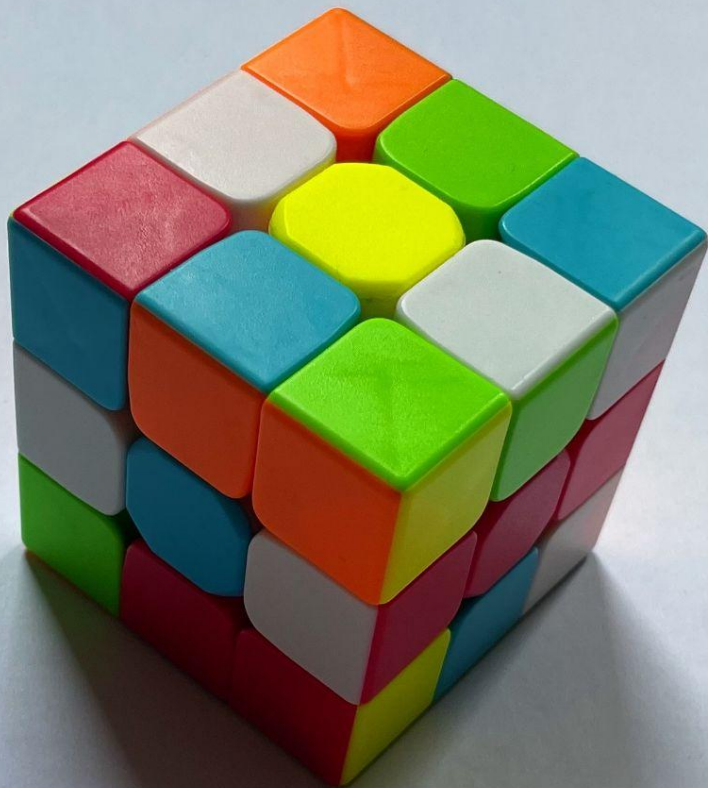


@NELE_LEA









RESOLVE



UNDERSTANDING CAUSALITY

observability-demo: http get /randomfact

Duration 1.284s | Services 1 | Total Spans 4 | Trace ID abc50bbfcbc8aafa087c8735464243a5

0ms



0ms

obse

obse

obse

obse

obse

istio-ingressga
(istio-syste



details



1. UNDERSTANDING



Nele Uhlmann's shell session
Started at: April 19, 2023 at 10:43

Plain Text

```
(base) ~leah@leahs-MacBook-Pro ~ % ls
Applications  Desktop  Downloads  Library  Music  Pictures  Public  data  netlify.yml  prometheus.yml
$
(base) ~leah@leahs-MacBook-Pro ~ % ps
PID TTY      TIME CMD
757 tty000  0:00.00 /usr/bin/zsh -l
3402 tty001  0:00.04 -ssh
3517 tty001  0:00.00 fd shell
3519 tty002  0:00.00 /usr/bin/zsh
```

[Open discussion](#)

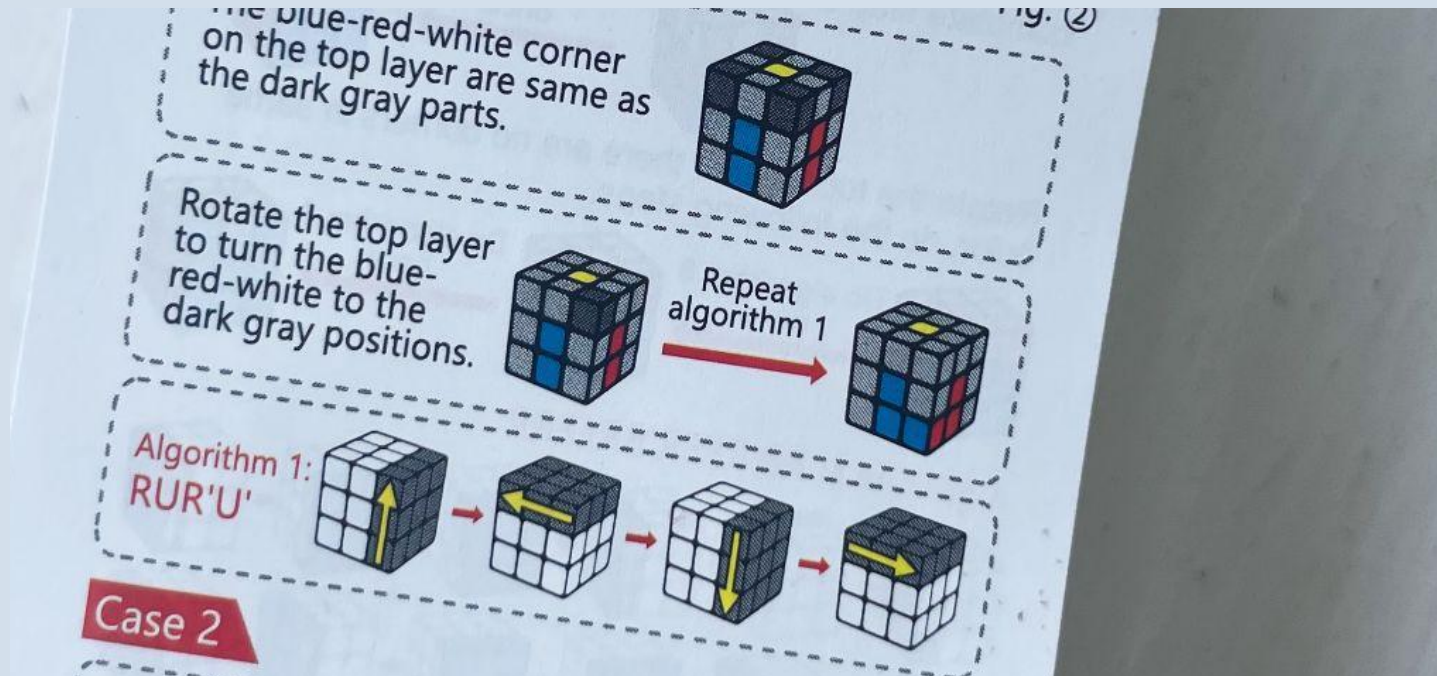
Describe the discussion topic...

[Start discussion](#)

2. FIXING

- *Retry*
- *Restart*
- *Bringing back on old version*

DEFINING A WORKFLOW



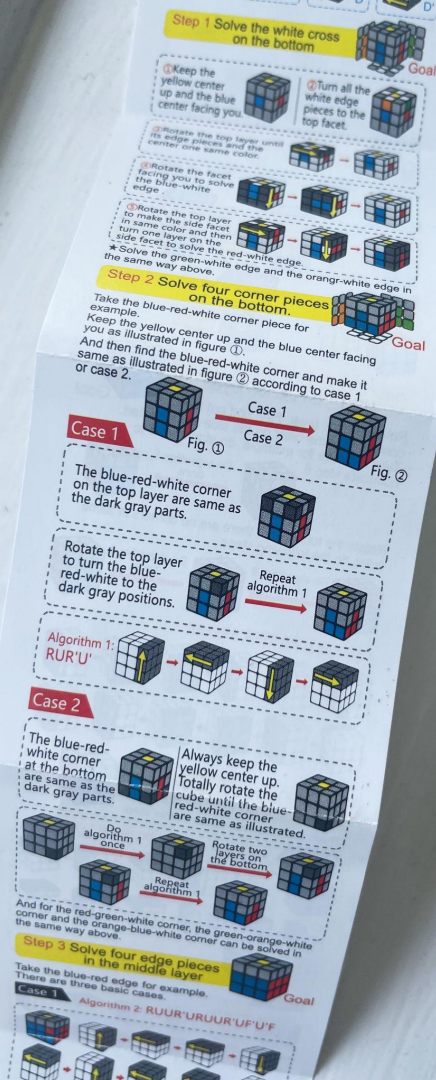
PREVENT



```
2 import logging
3 import requests
4 from requests.adapters import HTTPAdapter, Retry
5
6 logging.basicConfig(level=logging.DEBUG)
7
8 session = requests.Session()
9 retries = Retry(total=5, backoff_factor=1, status_forcelist=[502, 503, 504])
10 session.mount('http://', HTTPAdapter(max_retries=retries))
11
12 session.get('http://httpstat.us/503')
```

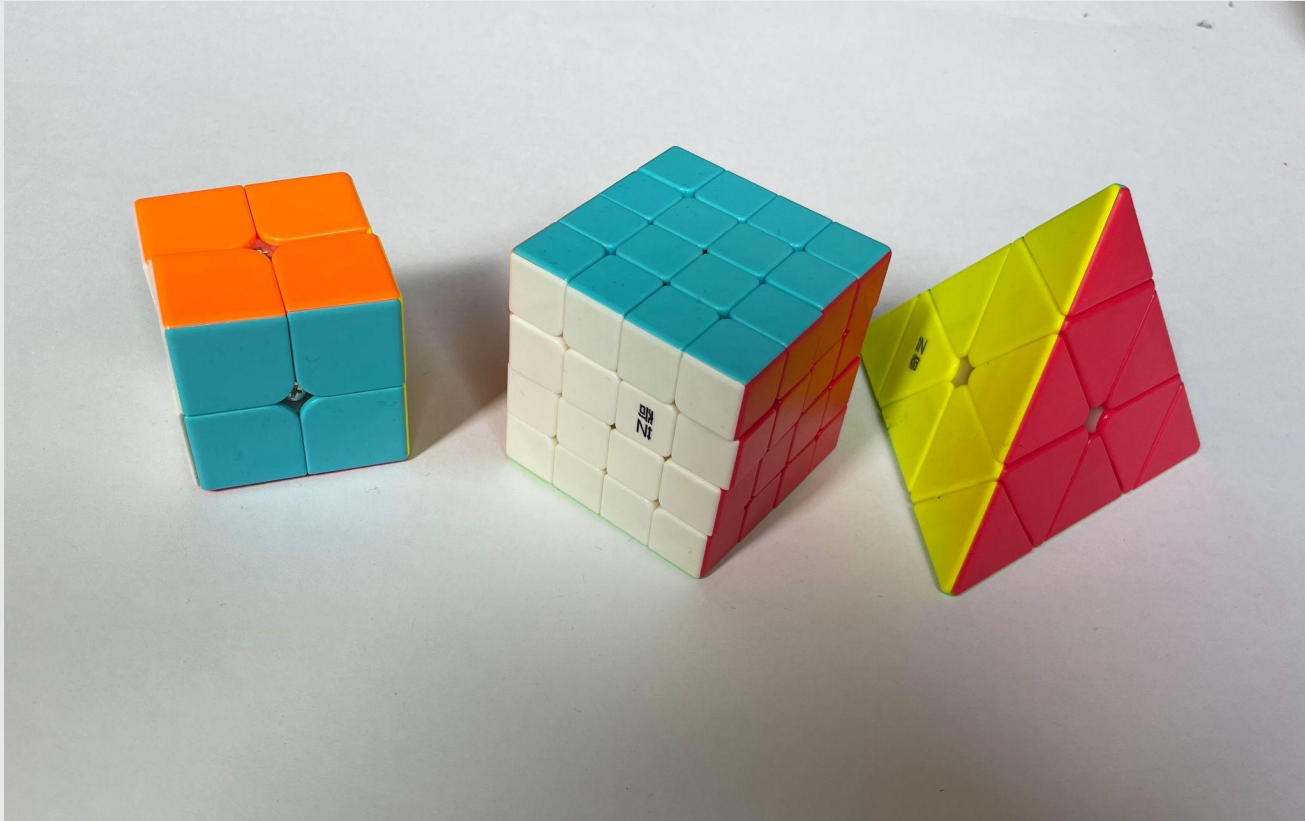
```
2 apiVersion: networking.istio.io/v1alpha3
3 kind: VirtualService
4 metadata:
5 name: shippingservice-retry
6 spec:
7 hosts:
8 - shippingservice
9 http:
10 - route:
11 - destination:
12     host: shippingservice
13 retries:
14     attempts: 3
15     perTryTimeout: 3s
```

DOCUMENTATION

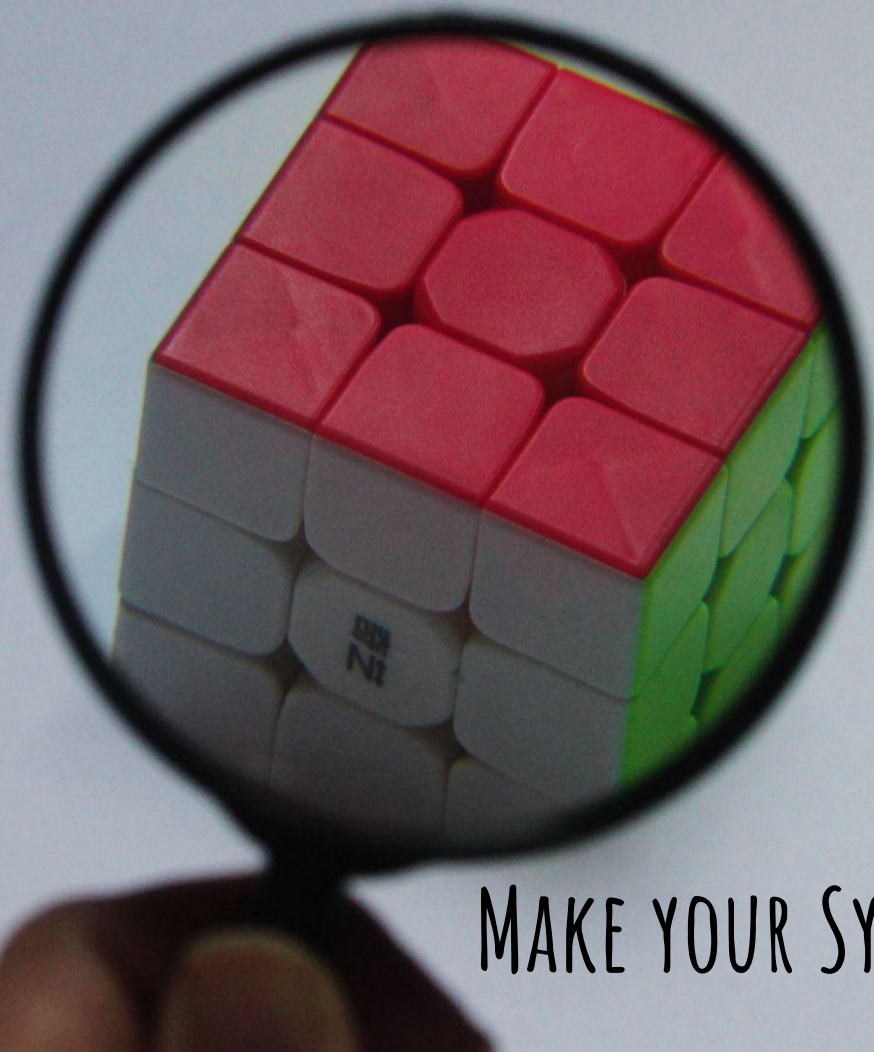


BEST PRACTISE

DEBUGGING COMPANION IN ONE PLACE



DISCOVER

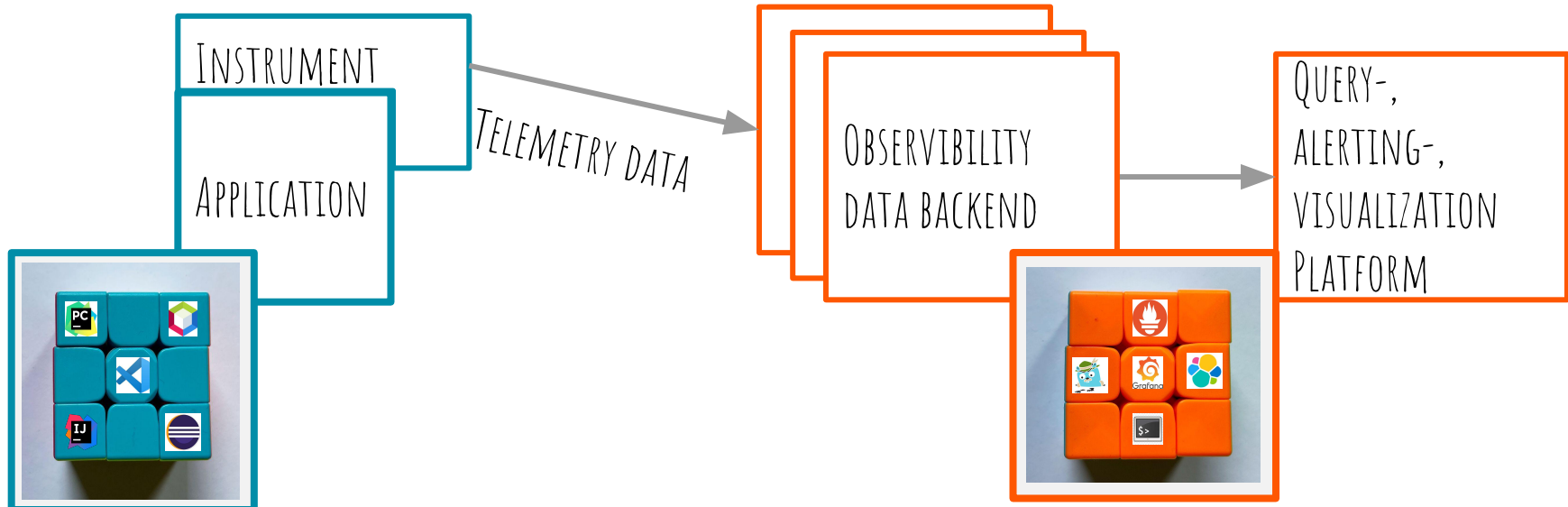


MAKE YOUR SYSTEM OBSERVABLE

TELEMETRY DATA

- LOGS
- METRICS
- TRACES

OBSERVABILITY



OPENTELEMETRY



- CNCF PROJECT
- VENDOR NEUTRAL
- MERGED OPENTRACING AND OPENCENCUS
- SPECIFICATIONS, PROTOCOLS, API'S AND SDKS
- NO TELEMETRY DATA BACKEND!

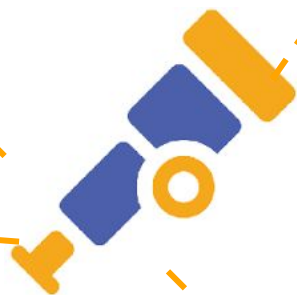
BUT WHAT TO INSTRUMENT?

HOW TO WRITE QUERIES, IF I LIKE TO
UNDERSTAND THE METRICS THAT I AM
COLLECTING?

AUTO INSTRUMENTATION?

QUESTIONS RAISING FROM THE APPLICATION
DEVELOPERS

THE MEANING OF SLOs?



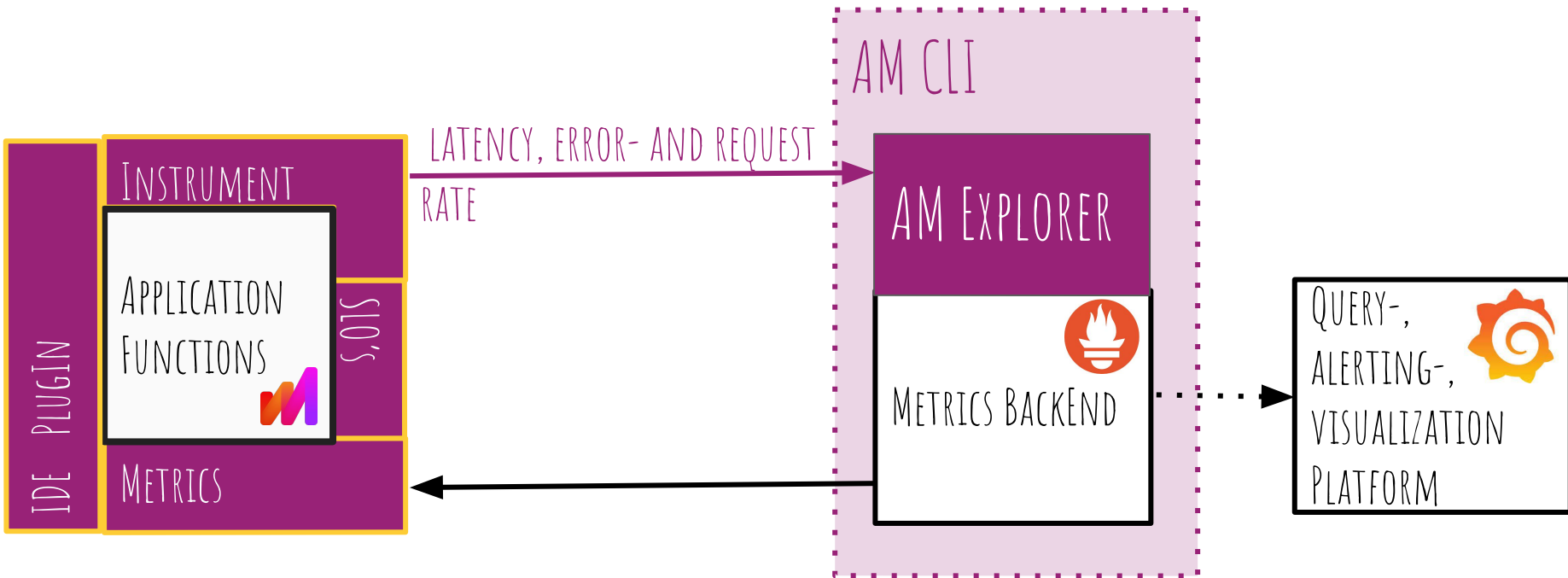
FUNCTION LEVEL METRICS

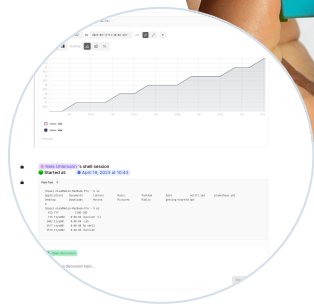


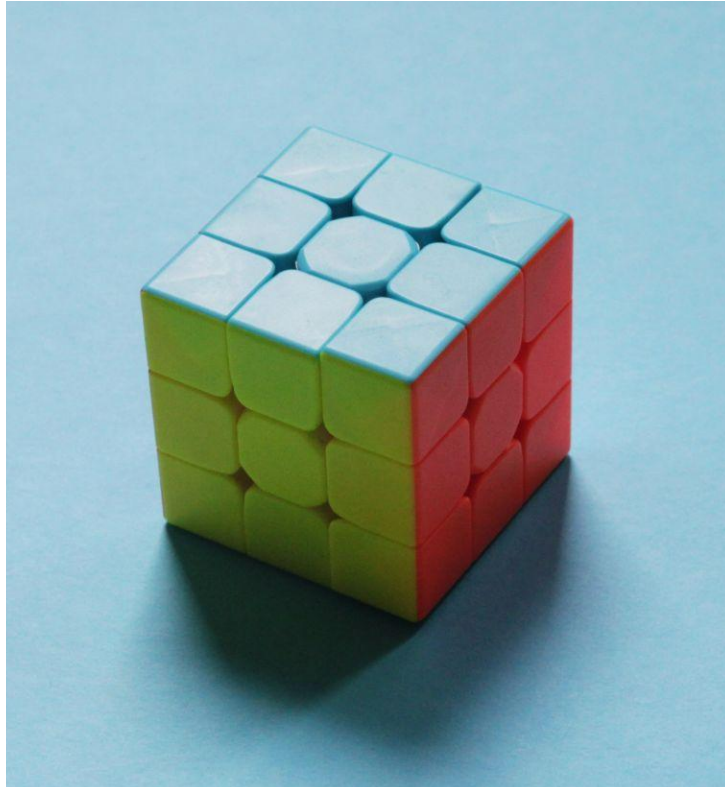
<https://github.com/autometrics-dev>



AUTOMETRICS







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