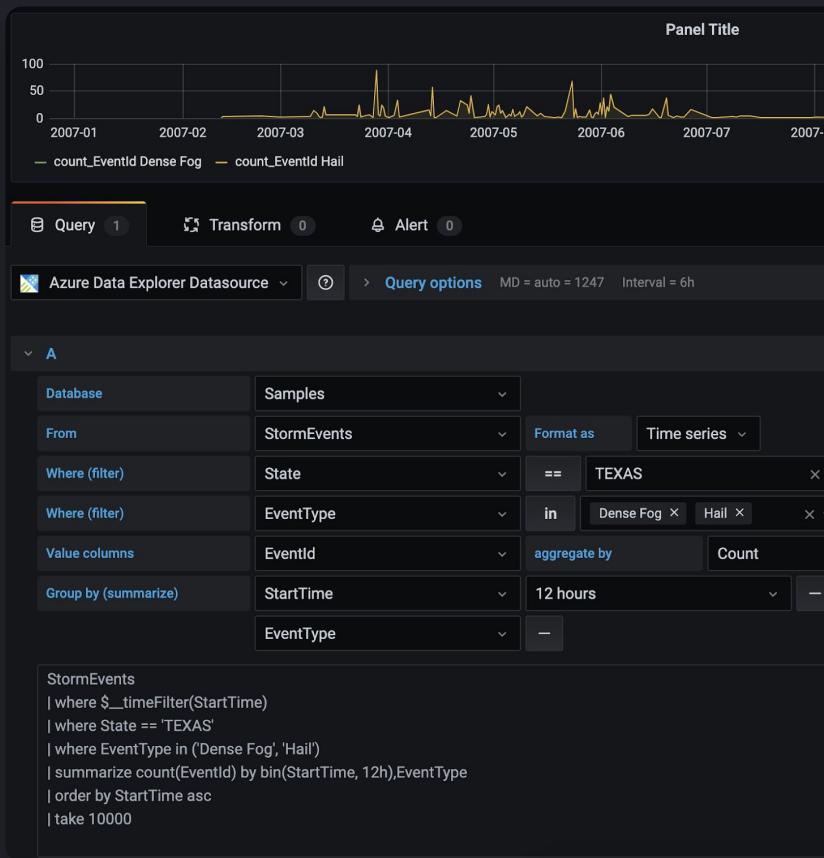




The “Looks Good To Me” Stack

DevOps + Security Meetup Vienna
Nov 21st, 2022



presenter:

name: stefan dunkler
company: grafana labs
role: solutions engineer
based_in: salzburg
activities:

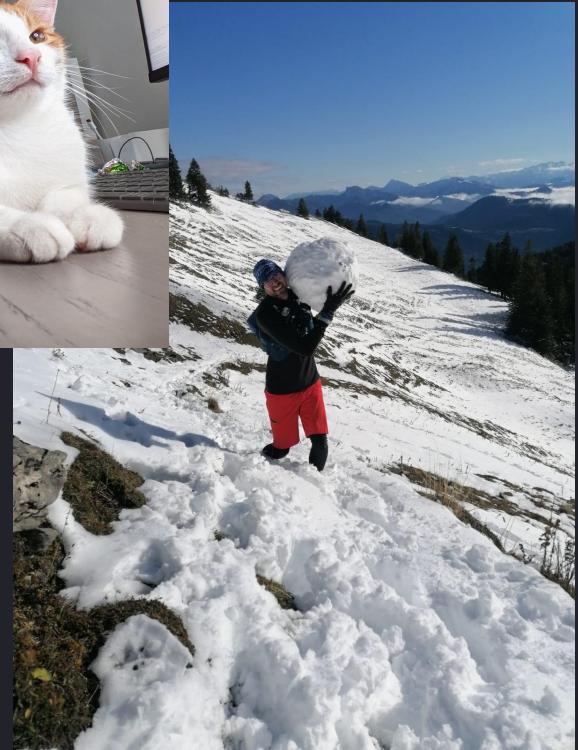
- running
- mountaineering

 : <https://twitter.com/StefanDunkler>

linkedin: >

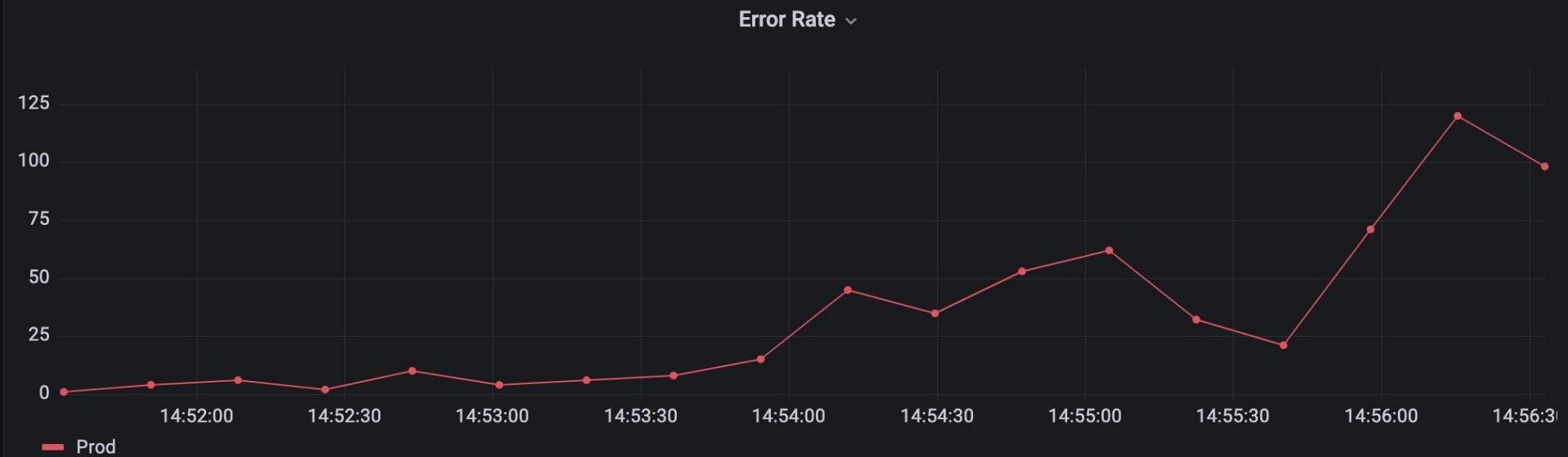
<https://www.linkedin.com/in/stefandunkler/>

github: <https://github.com/condla>





SH*T'S ABOUT TO GET REAL





TRANIS

WHAT IS GOING ON?!

-8226RZQX13 page_url="http://grafana.datahovel.com:3389/cart?name=Emilia" browser_name="Chrome" browser_version="107.0.5304.67" browser_mobile="false" browser_os="Mac OS 10.15.7" browser_mobile=false

> 2022-11-10 11:38:05 timestamp="2022-11-10 10:37:56.521 +0000 UTC" kind=exception type=Error value="ERROR CODE 9999: Mainframe on fire!" stacktrace="Error: ERROR CODE 9999: Mainframe on fire!\n at window.checkout_cart (http://grafana.datahovel.com:3389/static/main.js:2:254093)\n at onclick (http://grafana.datahovel.com:3389/cart?name=Dave:1:14)" sdk_name=@grafana/faro-core sdk_version=1.0.0-beta2 sdk_integrations=@grafana/faro-web-sdk:instrumentation-errors:1.0.0-beta2,@grafana/faro-web-sdk:instrumentation-web-vitals:1.0.0-beta2,@grafana/faro-web-sdk:instrumentation-session:1.0.32,@grafana/faro-web-sdk:instrumentation-console:1.0.0-beta2,@grafana/faro-web-tracing:1.0.0-beta2 app_name=web-shop-frontend app_version=1.4.0 session_id=udjkDfq8sX page_url="http://grafana.datahovel.com:3389/cart?name=Dave" browser_name=Firefox browser_version=104.0 browser_os="Linux x86_64" browser_mobile=false

> 2022-11-10 11:37:55 timestamp="2022-11-10 10:37:46.262 +0000 UTC" kind=exception type=Error value="ERROR CODE 2412: Feliz Navidad." stacktrace="Error: ERROR CODE 2412: Feliz Navidad.\n at ? (http://grafana.datahovel.com:3389/static/main.js:2:254418)\n at onclick (http://grafana.datahovel.com:3389/cart?name=nabeel:1:110:14)" sdk_name=@grafana/faro-core sdk_version=1.0.0-beta2 sdk_integrations=@grafana/faro-web-sdk:instrumentation-errors:1.0.0-beta2,@grafana/faro-web-sdk:instrumentation-web-vitals:1.0.0-beta2,@grafana/faro-web-sdk:instrumentation-session:1.0.32,@grafana/faro-web-sdk:instrumentation-console:1.0.0-beta2,@grafana/faro-web-tracing:1.0.0-beta2 app_name=web-shop-frontend app_version=1.4.0 session_id=bLCeLjAhoR page_url="http://grafana.datahovel.com:3389/cart?name=nabeel" browser_name=Chrome browser_version=107.0.5304.66 browser_os="iOS 16.0" browser_mobile=true

> 2022-11-10 11:37:51 timestamp="2022-11-10 10:37:41.792 +0000 UTC" kind=exception type=Error value="ERROR CODE 2023: Happy new year!" stacktrace="Error: ERROR CODE 2023: Happy new year!\n at window.checkout_cart (http://grafana.datahovel.com:3389/static/main.js:2:254253)\n at onclick (http://grafana.datahovel.com:3389/cart?name=Dave:1:14)" sdk_name=@grafana/faro-core sdk_version=1.0.0-beta2 sdk_integrations=@grafana/faro-web-sdk:instrumentation-errors:1.0.0-beta2,@grafana/faro-web-sdk:instrumentation-web-vitals:1.0.0-beta2,@grafana/faro-web-sdk:instrumentation-session:1.0.32,@grafana/faro-web-sdk:instrumentation-console:1.0.0-beta2,@grafana/faro-web-tracing:1.0.0-beta2 app_name=web-shop-frontend app_version=1.4.0 session_id=FeYwtBspRW page_url="http://grafana.datahovel.com:3389/cart?name=Dave" browser_name=Firefox browser_version=104.0 browser_os="Linux x86_64" browser_mobile=false

> 2022-11-10 11:37:19 timestamp="2022-11-10 10:37:09.837 +0000 UTC" kind=exception type=Error value="do_something_cool is not defined" stacktrace="Error: do_something_cool is not defined\n at HTMLAnchorElement.onclick (http://grafana.datahovel.com:3389/shop?name=admin#cats:39:97)" sdk_name=@grafana/faro-core sdk_version=1.0.0-beta2 sdk_integrations=@grafana/faro-web-sdk:instrumentation-errors:1.0.0-beta2,@grafana/faro-web-sdk:instrumentation-web-vitals:1.0.0-beta2,@grafana/faro-web-sdk:instrumentation-session:1.0.32,@grafana/faro-web-sdk:instrumentation-console:1.0.0-beta2,@grafana/faro-web-tracing:1.0.0-beta2 app_name=web-shop-frontend app_version=1.4.0 session_id=6PpC5dRtc4 page_url="http://grafana.datahovel.com:3389/shop?name=admin#cats" browser_name=Chrome browser_version=107.0.0.0 browser_os="Mac OS 10.15.7" browser_mobile=false

> 2022-11-10 11:37:18 timestamp="2022-11-10 10:37:08.922 +0000 UTC" kind=exception type=Error value="do_something_cool is not defined" stacktrace="Error: do_something_cool is not defined\n at HTMLAnchorElement.onclick (http://grafana.datahovel.com:3389/shop?name=Stefan#cats:39:98)" sdk_name=@grafana/faro-core sdk_version=1.0.0-beta2 sdk_integrations=@grafana/faro-web-sdk:instrumentation-errors:1.0.0-beta2,@grafana/faro-web-sdk:instrumentation-web-vitals:1.0.0-beta2,@grafana/faro-web-sdk:instrumentation-session:1.0.32,@grafana/faro-web-sdk:instrumentation-console:1.0.0-beta2,@grafana/faro-web-tracing:1.0.0-beta2 app_name=web-shop-frontend app_version=1.4.0 session_id=w1D87Nqs4G page_url="http://grafana.datahovel.com:3389/shop?name=Stefan#cats" browser_name=Chrome browser_version=107.0.0.0 browser_os="Mac OS 10.15.7" browser_mobile=false

> 2022-11-10 11:37:05 timestamp="2022-11-10 10:36:56.284 +0000 UTC" kind=exception type=Error value="Can't find variable: do_something_cool" stacktrace="Error: Can't find variable: do_something_cool\n at onclick (http://grafana.datahovel.com:3389/shop?name=bla:20:18)" sdk_name=@grafana/faro-core sdk_version=1.0.0-beta2

```
value="ERROR CODE 9999: Mainframe on fire!"  
    ^-- error at character 0 (0x0000)
```

```
value="ERROR CODE 9999: Mainframe on fire!"
```

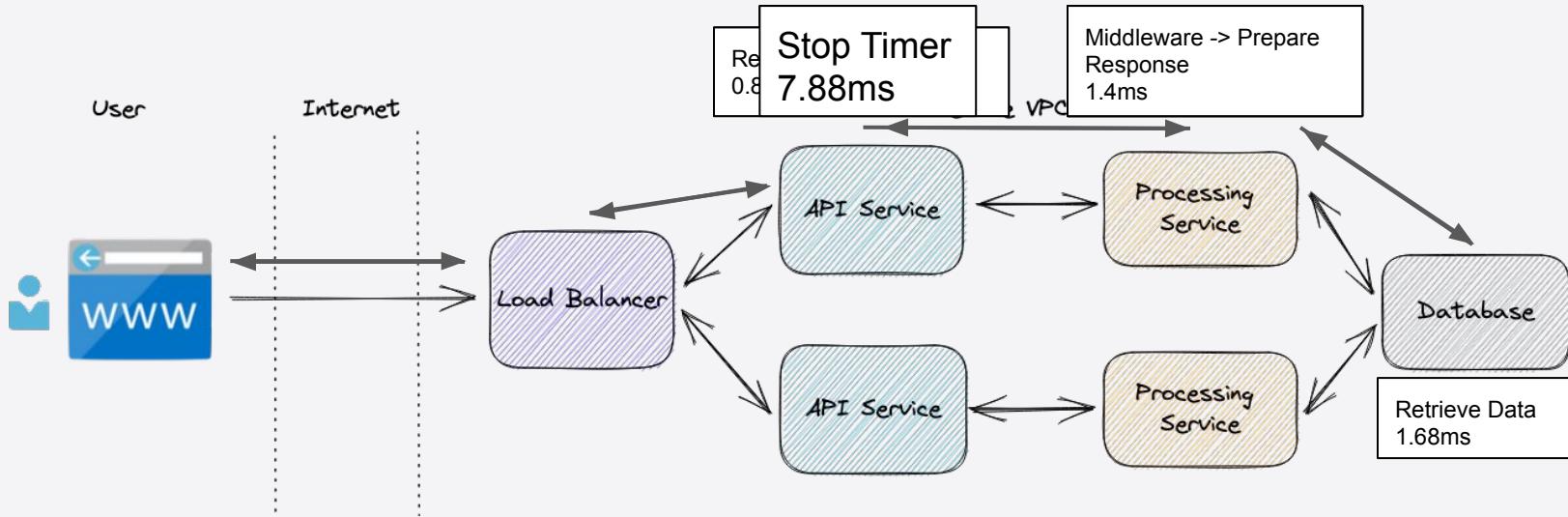
```
    1 2000 (mainframe) 0.05 (sec)
```

```
value="ERROR CODE 9999: Mainframe on fire!"
```



How is this happening?

A Typical Data Service





The 3 Pillars of Observability



SH*T'S ABOUT TO GET REAL



How is this happening?



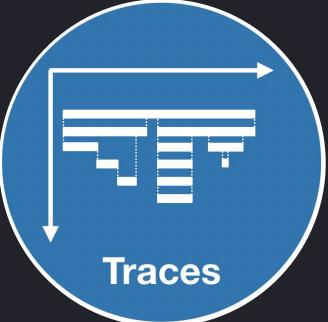
WHAT IS GOING ON?!

Collect the 3 pillars of observability

Something is happening



Where is it happening



What's happening



Our open and composable observability stack



Metrics powered by



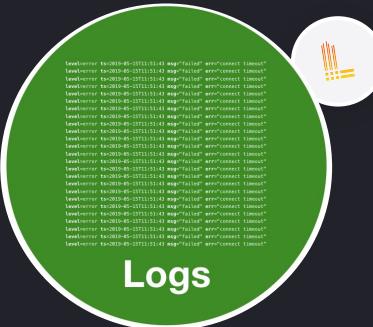
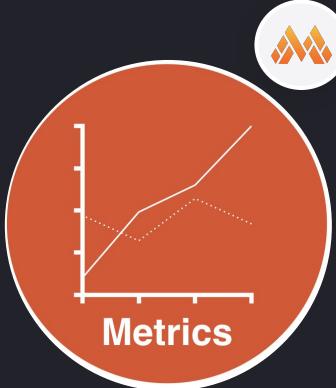
Logs powered by



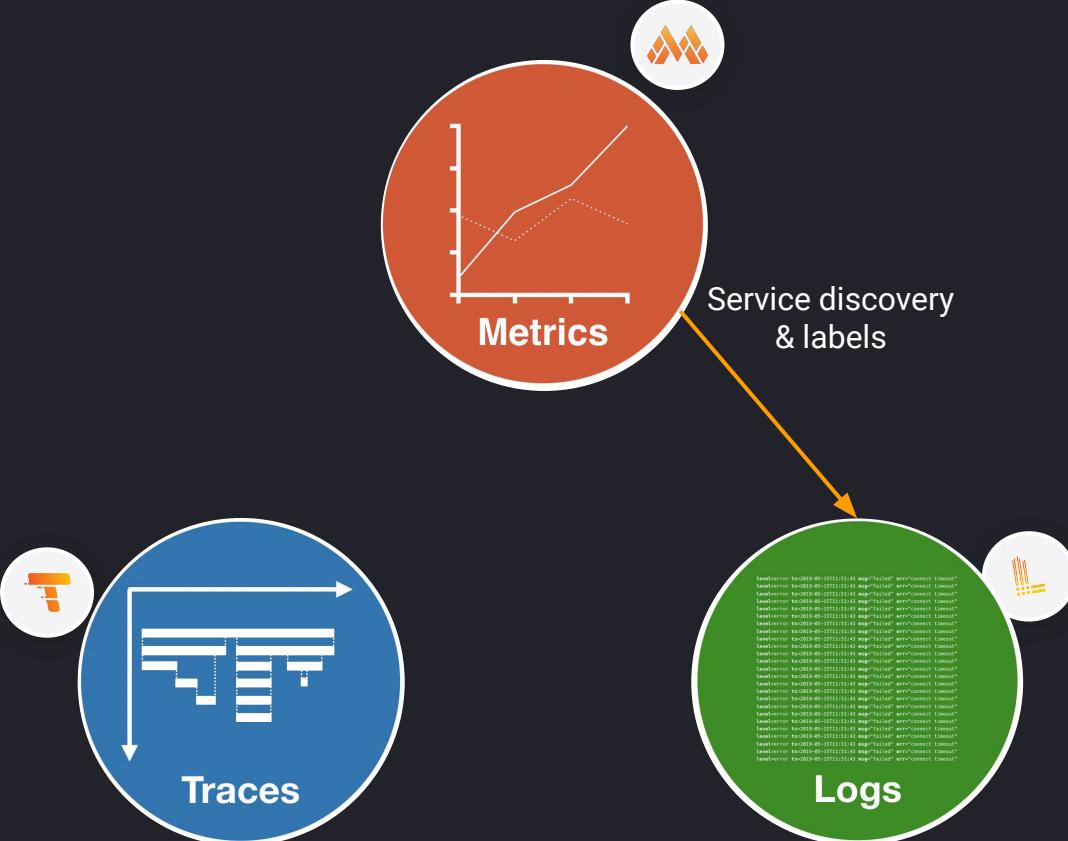
Traces powered by



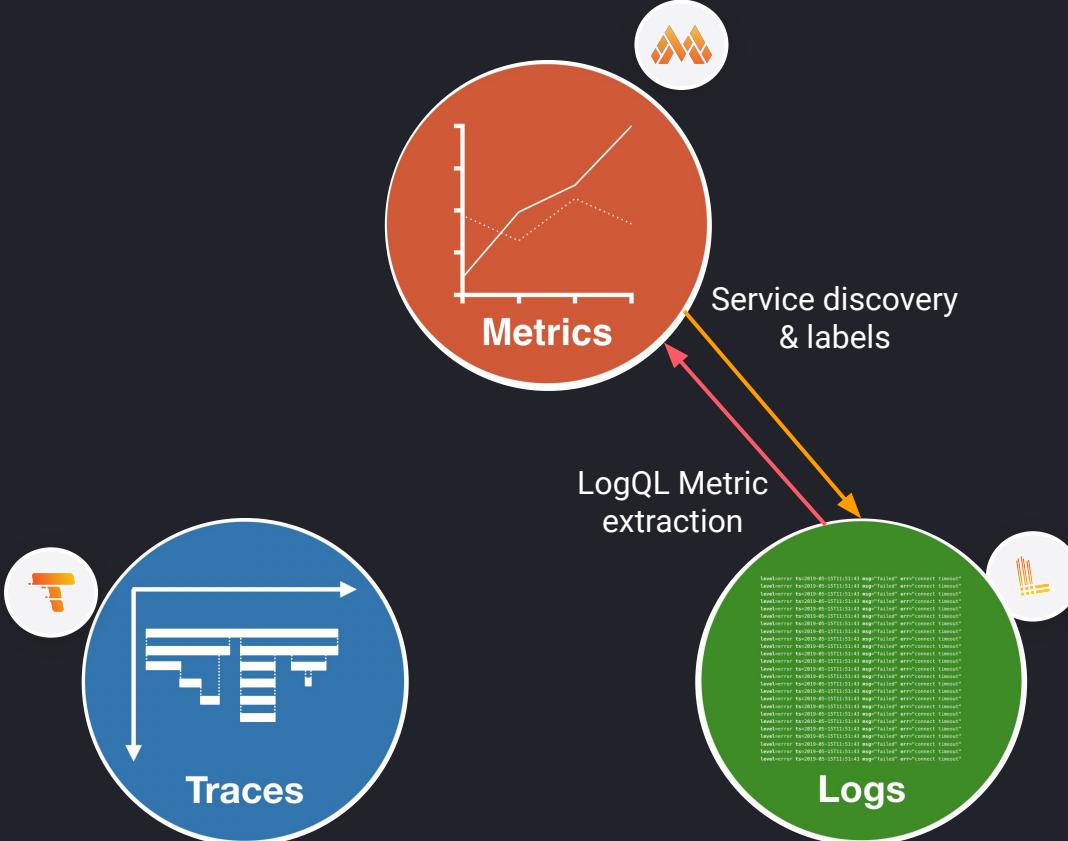
Implement the 3 pillars of observability



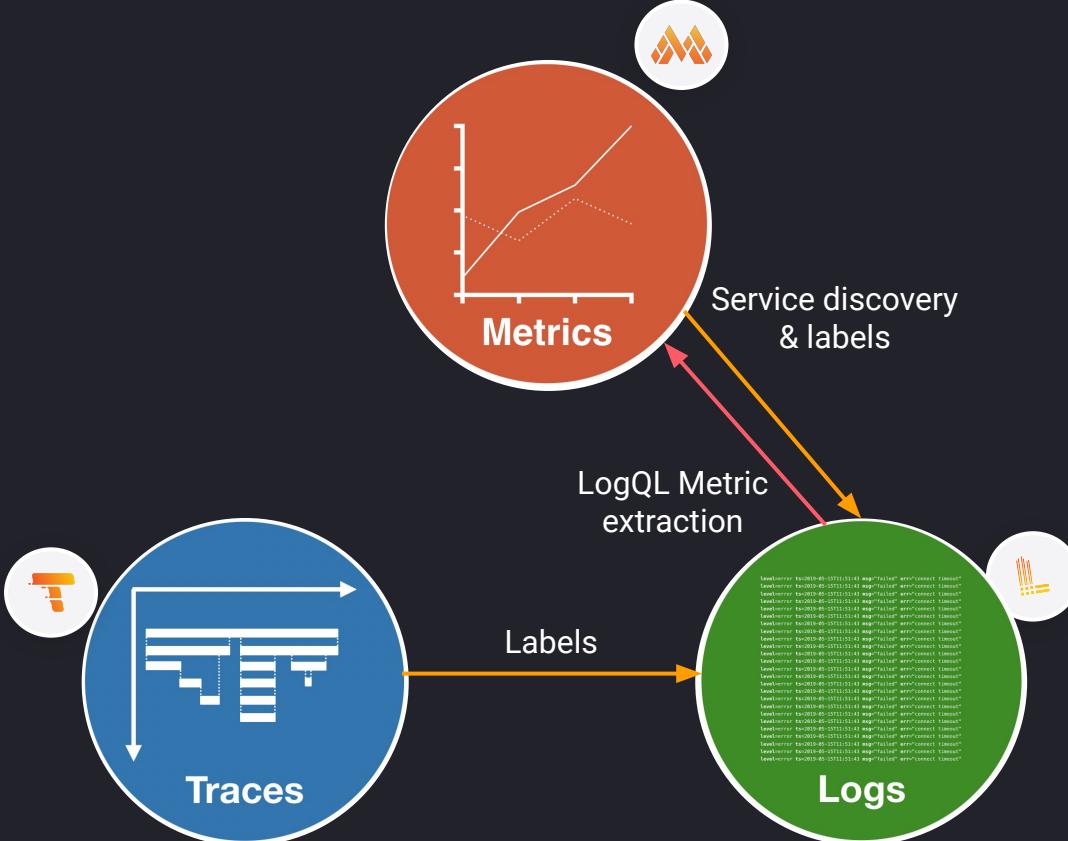
Implement the 3 pillars of observability



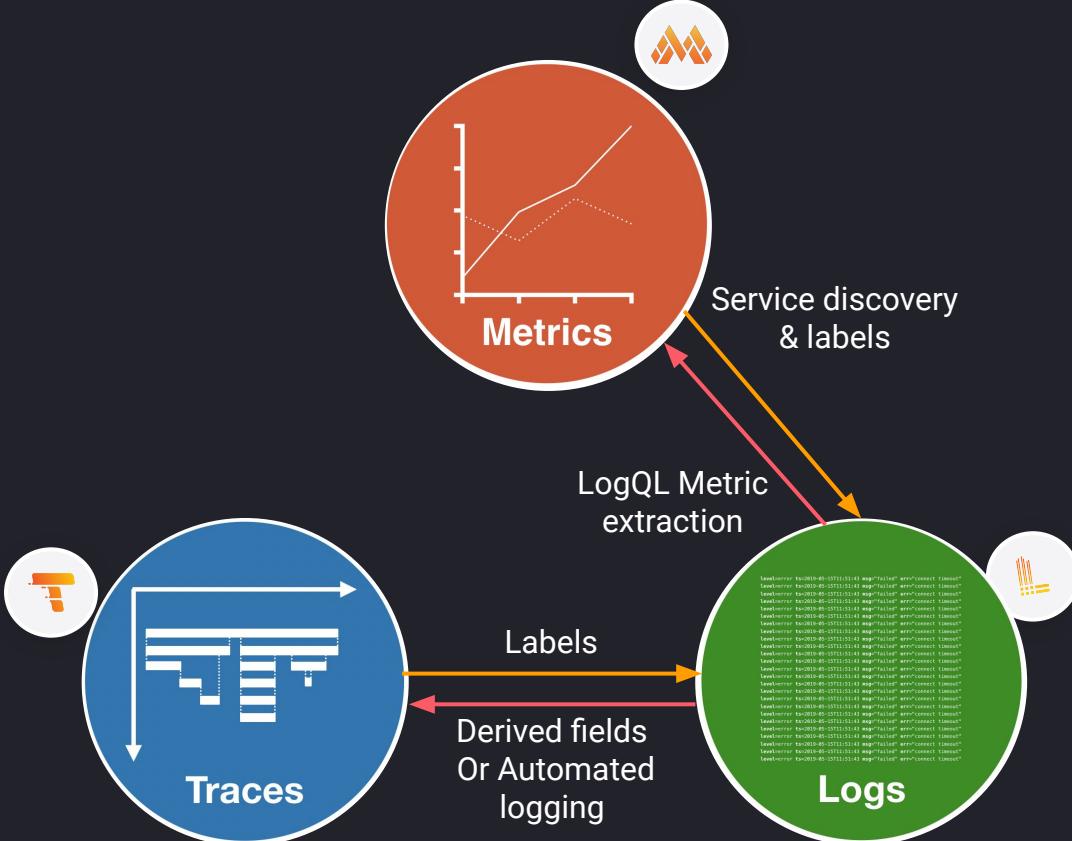
Implement the 3 pillars of observability



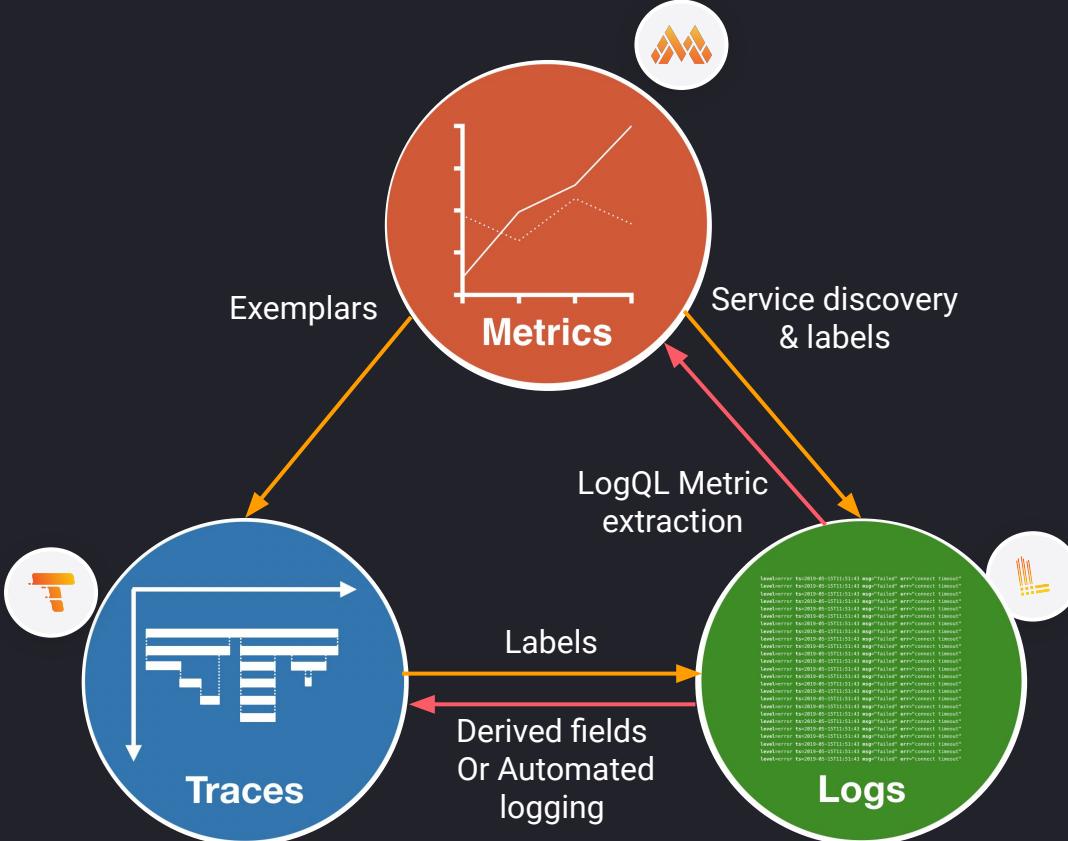
Implement the 3 pillars of observability



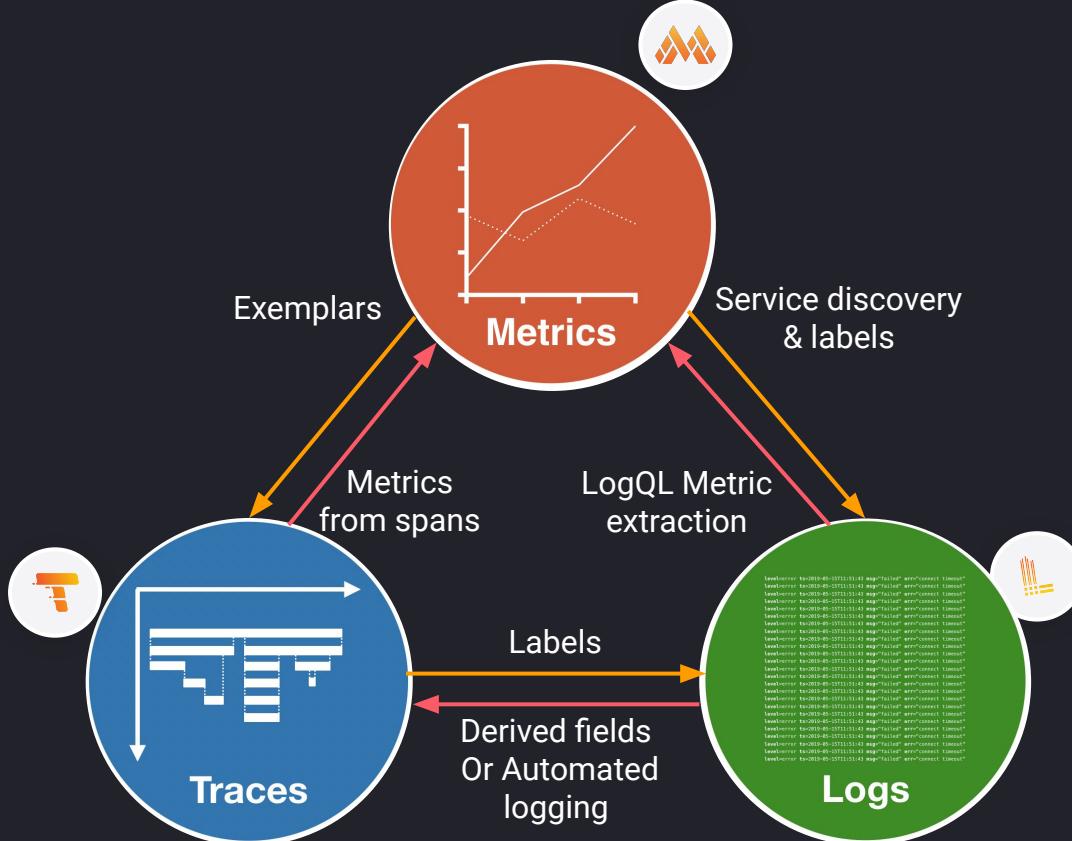
Implement the 3 pillars of observability



Implement the 3 pillars of observability

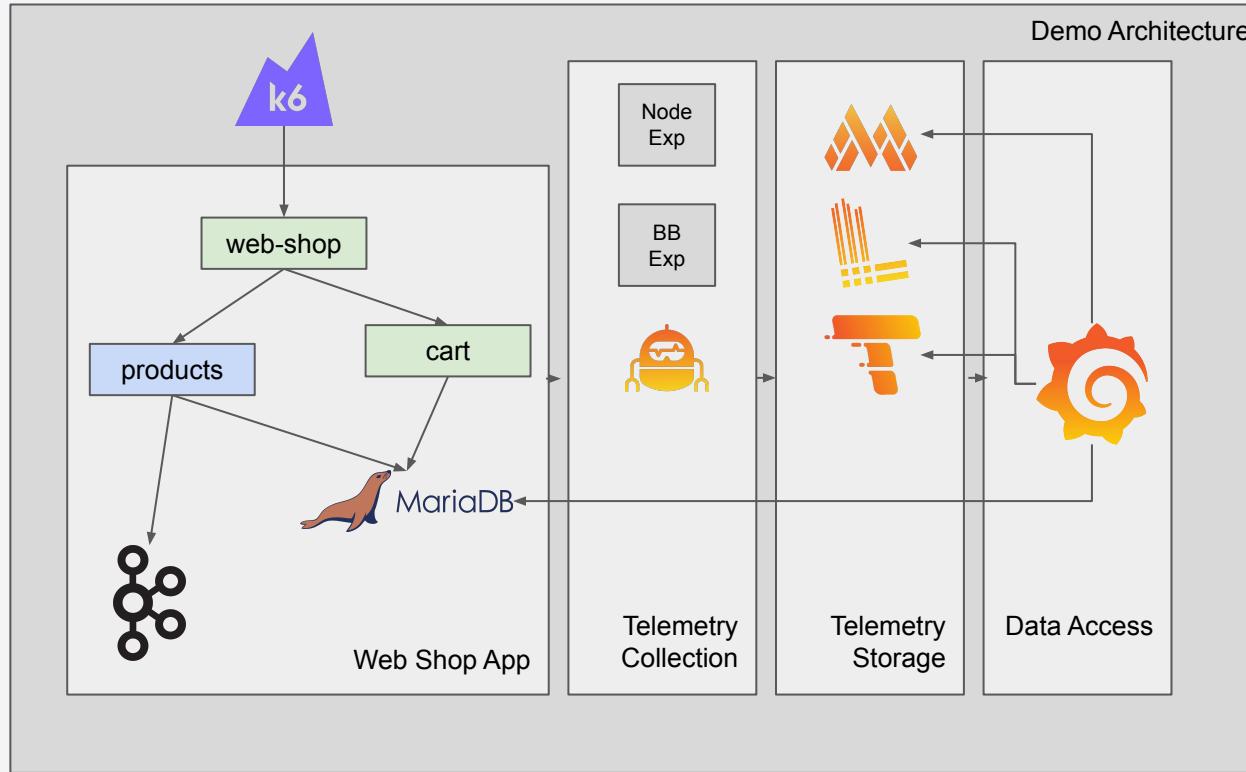


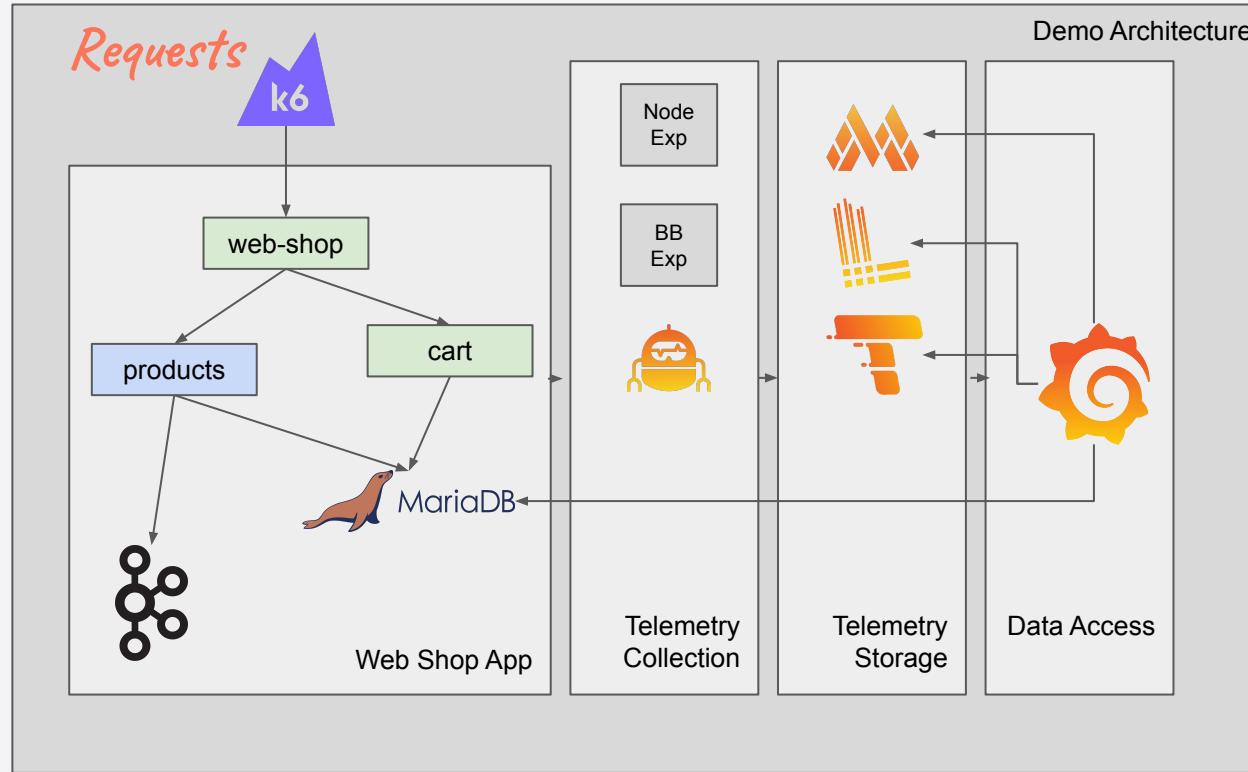
Implement the 3 pillars of observability

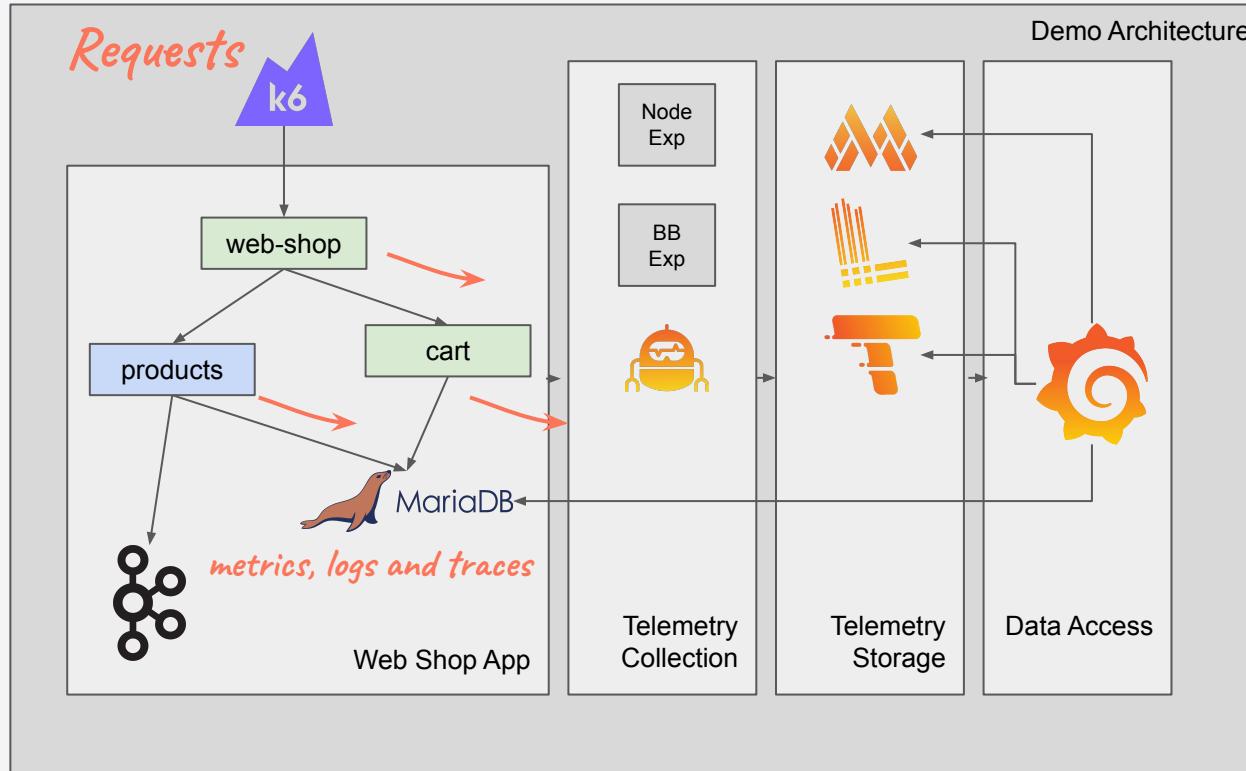


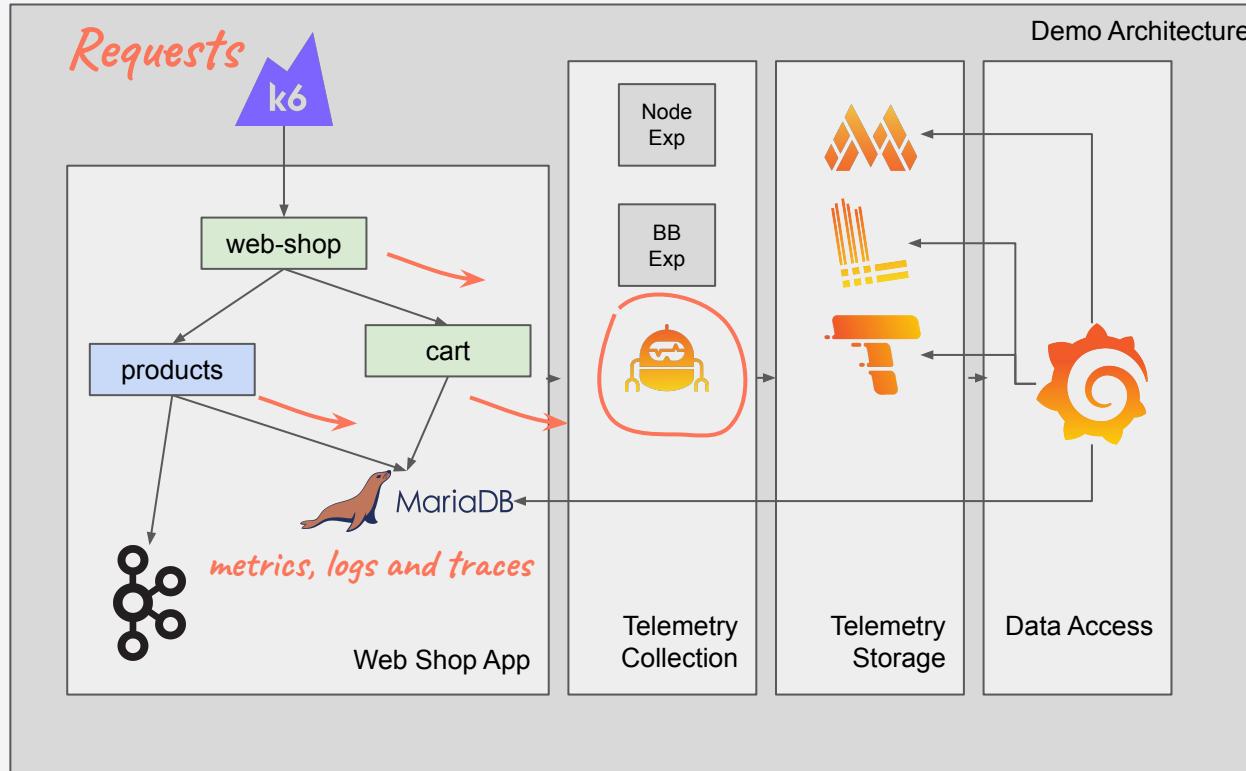


Demo



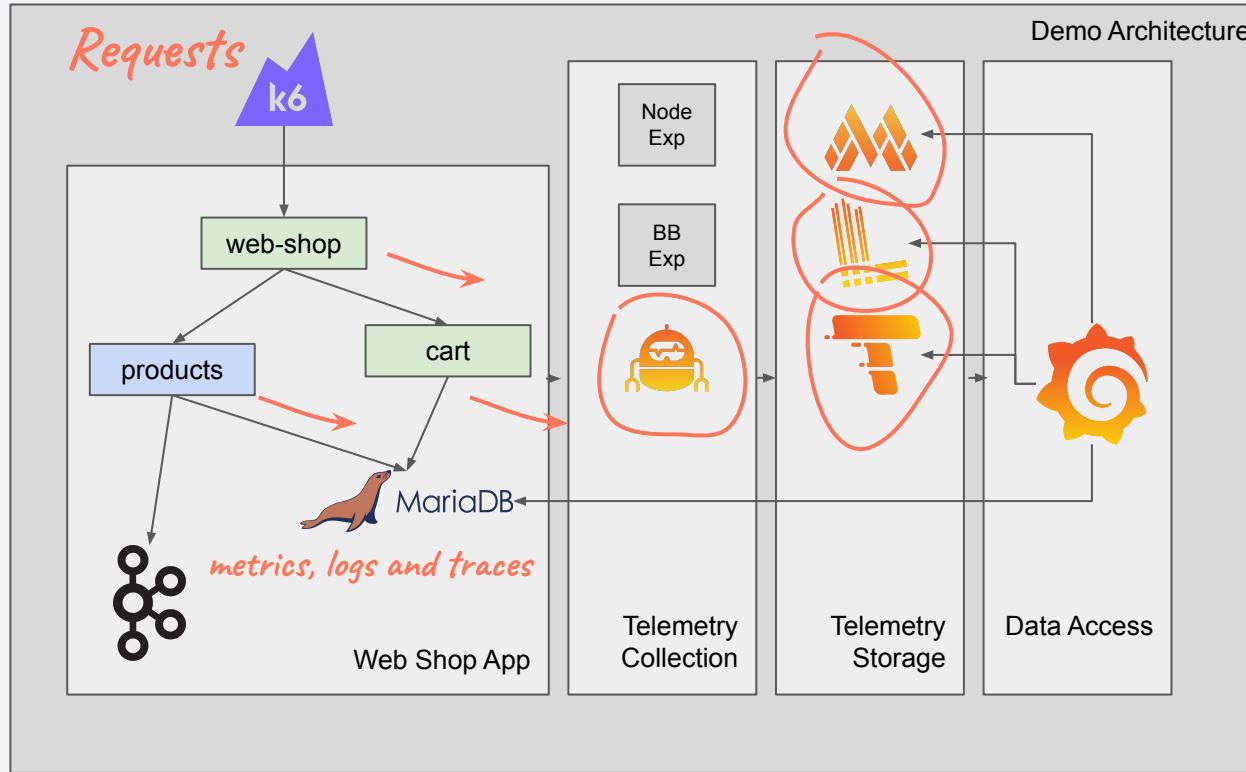


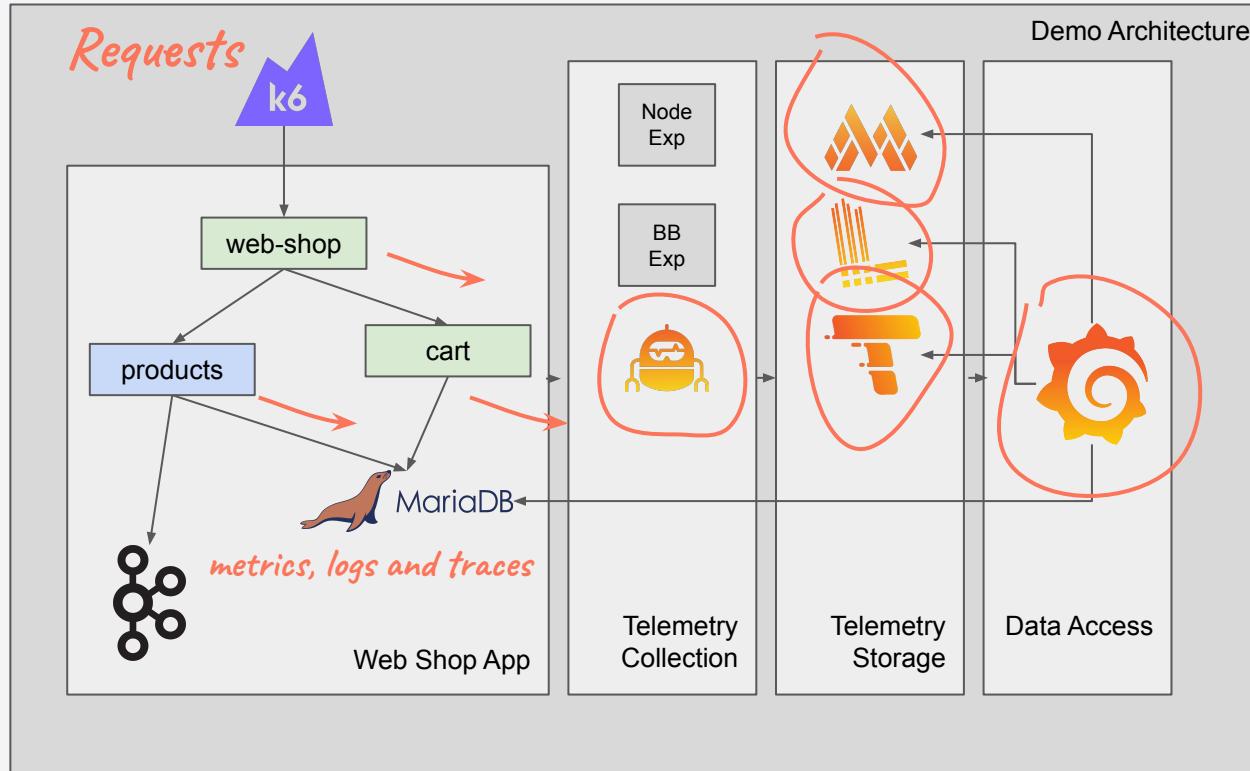




*Agents and exporters
to collect them*



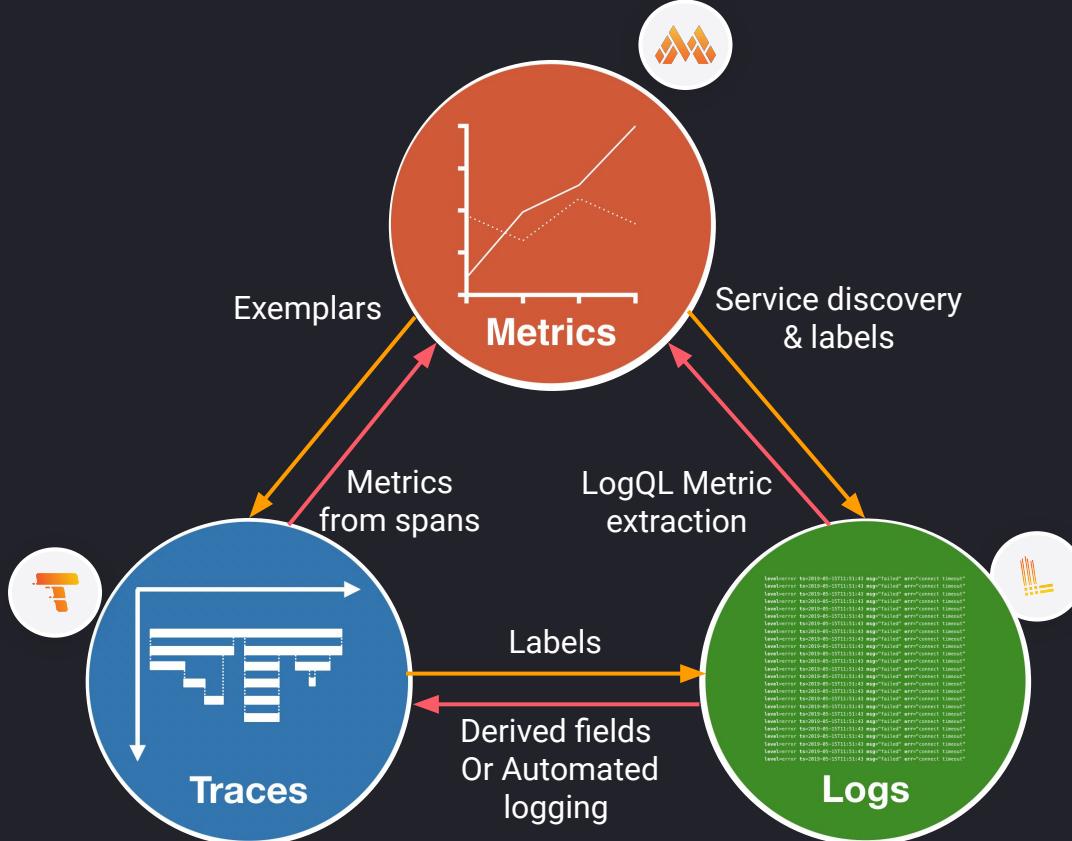




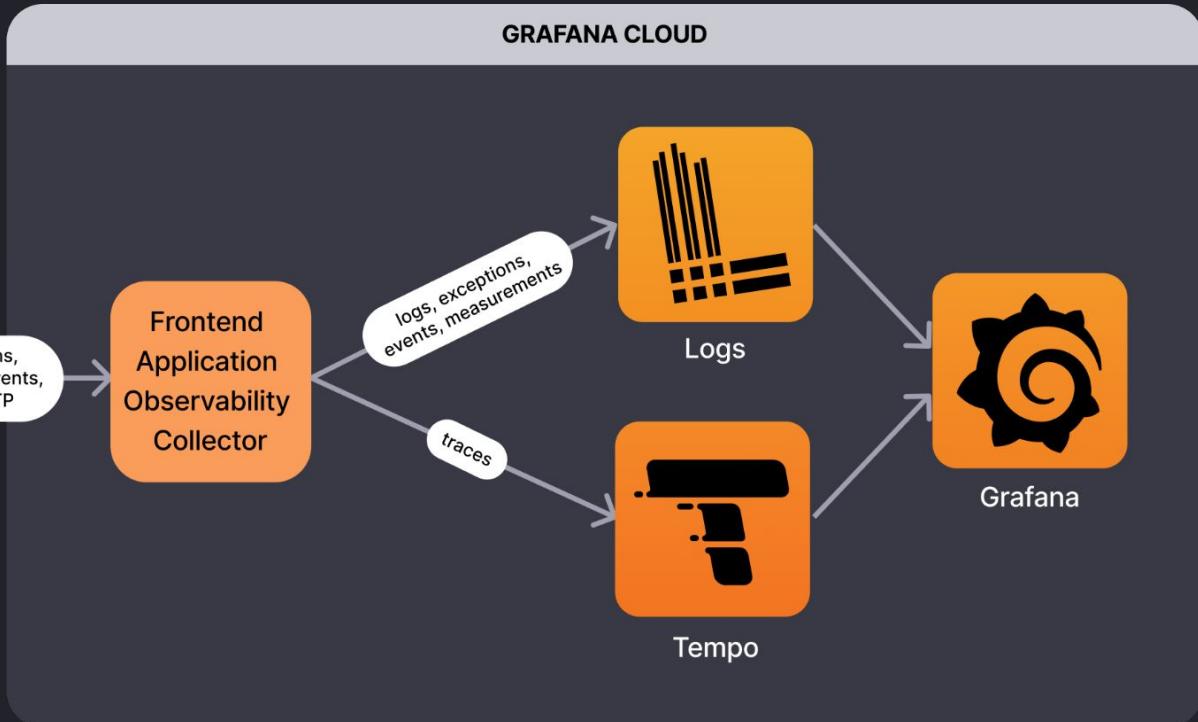
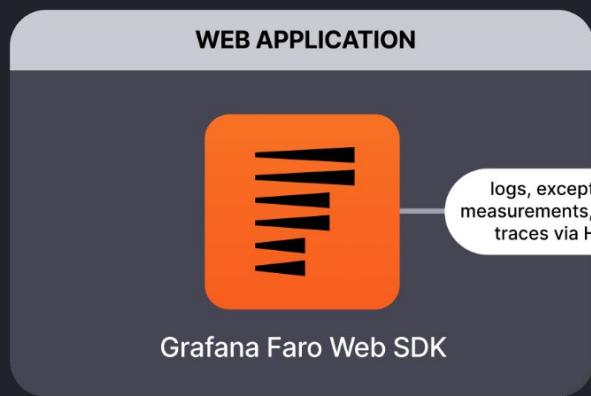
*Grafana to explore,
visualize and alert on
telemetry*



Implement the 3 pillars of observability



NEW



An open source web
SDK for frontend
application observability



Demo



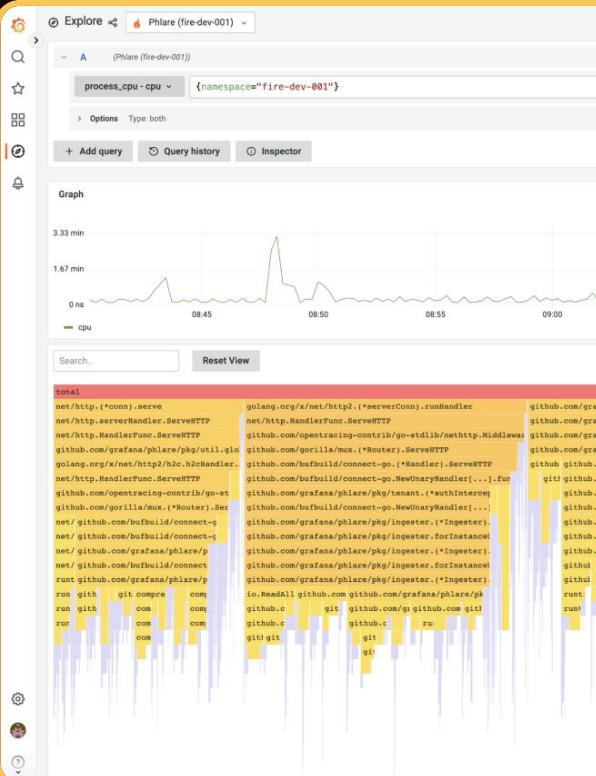
<http://grafana.datahovel.com:3389/login>

NEW



Grafana Phlare

An open source, horizontally scalable, highly available, multi-tenant continuous profiling system



LPGTM!



