### Observability

An introduction on AWS

### \$: whoami

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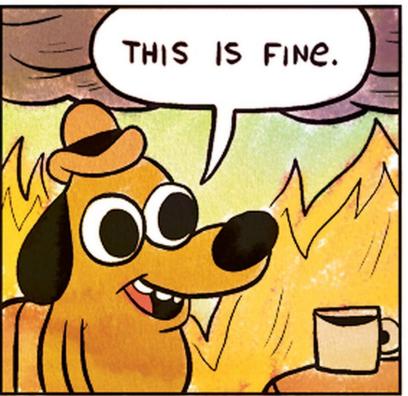


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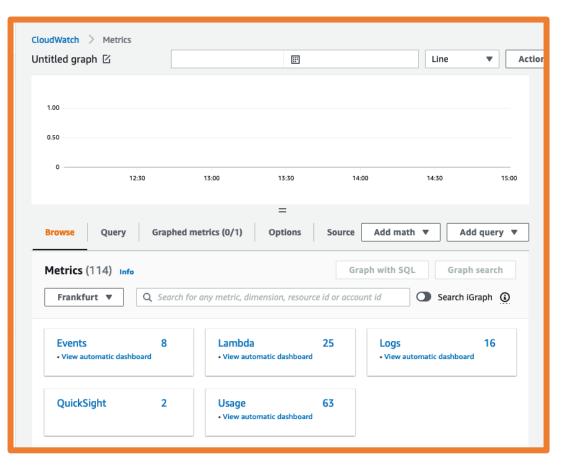
**Observability** is a capability of a system that allows you to collect, access, and organize critical insights about its status and properties at any given point in time.





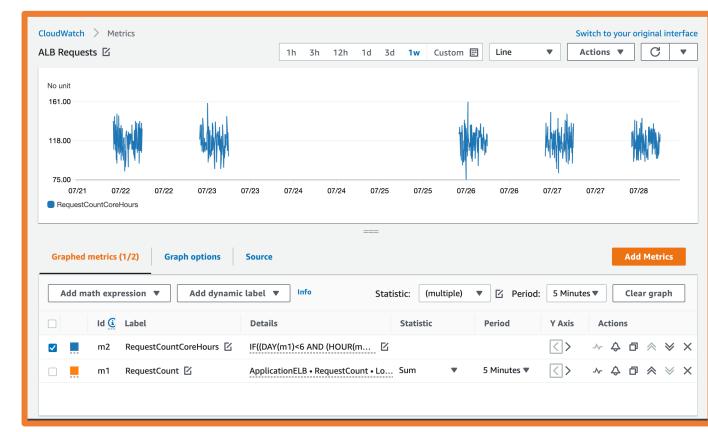


**Metrics** are like the vital signs of your system, providing real-time, quantifiable measurements that allow you to assess its overall health and performance.



## 1. Browse All Metrics in your Region

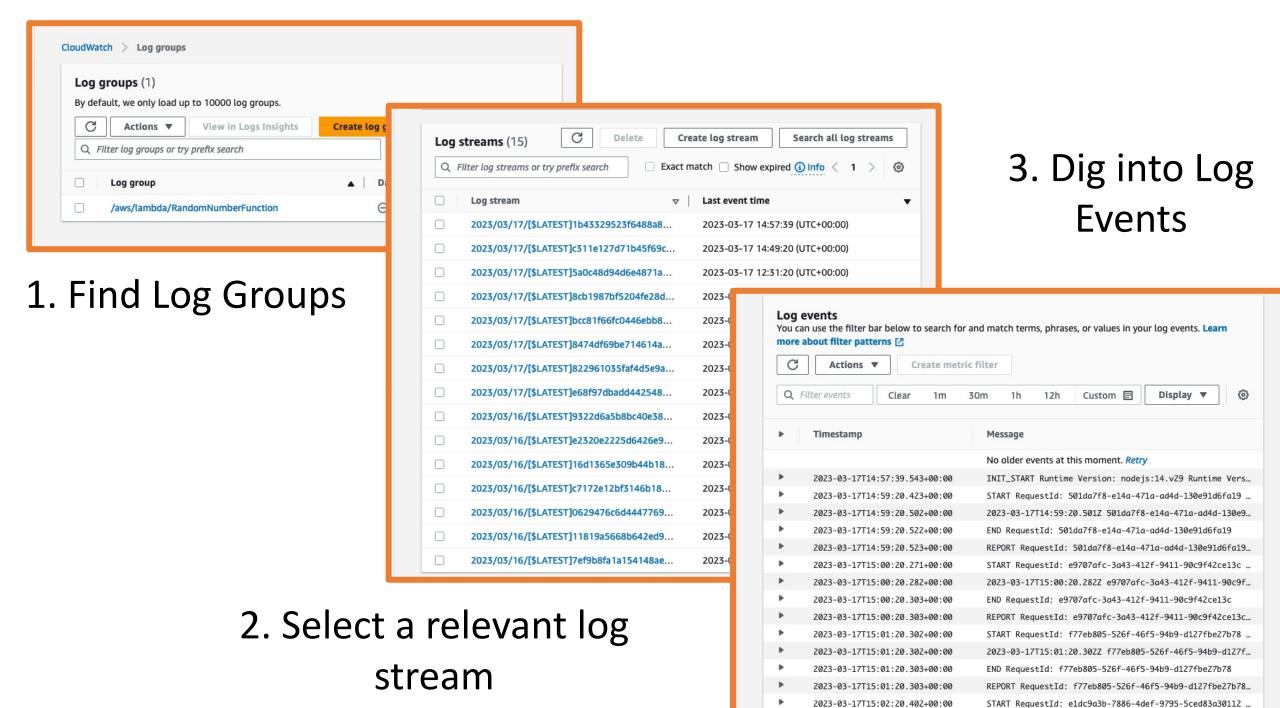
2. Visualize them in ad-hoc dashboards for different time-windows and aggregation functions







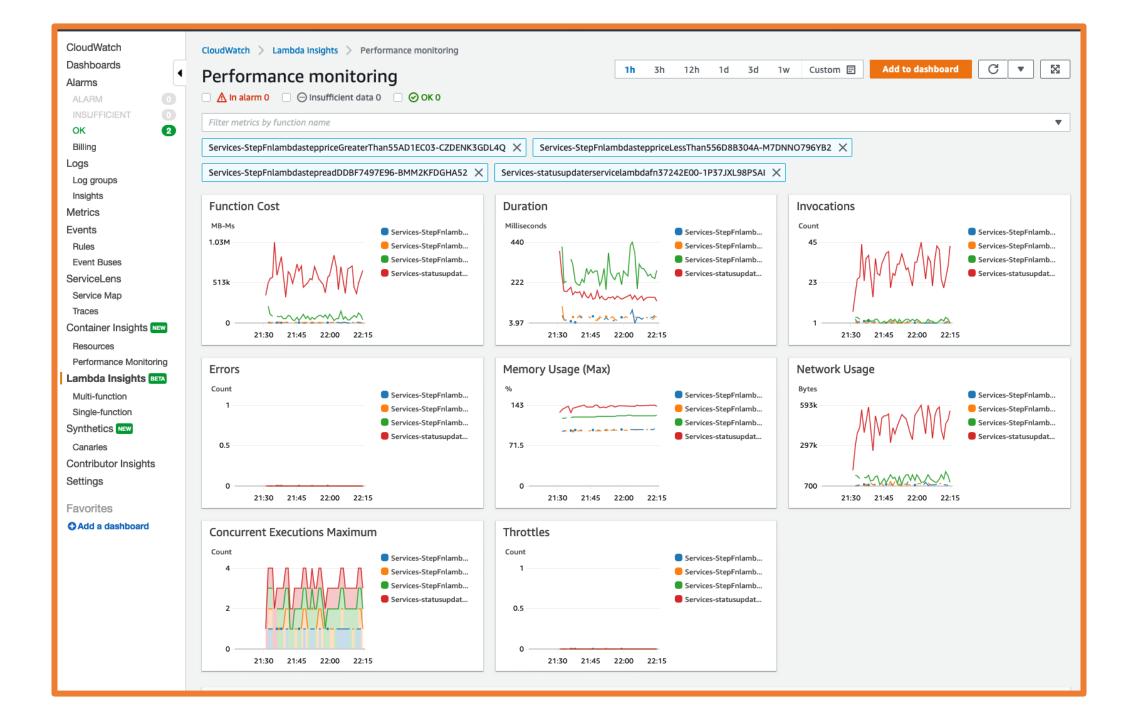
**Logs** are the detailed journals of your system, recording a wealth of information about events, errors, and activities that occur over time, similar to a car's trip computer or a ship's logbook.

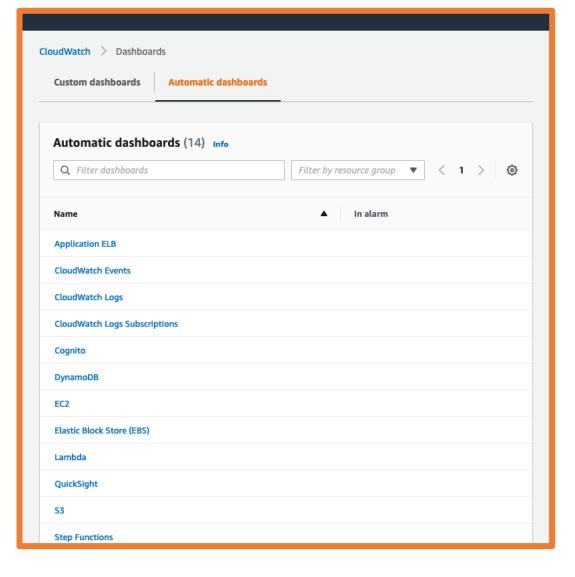


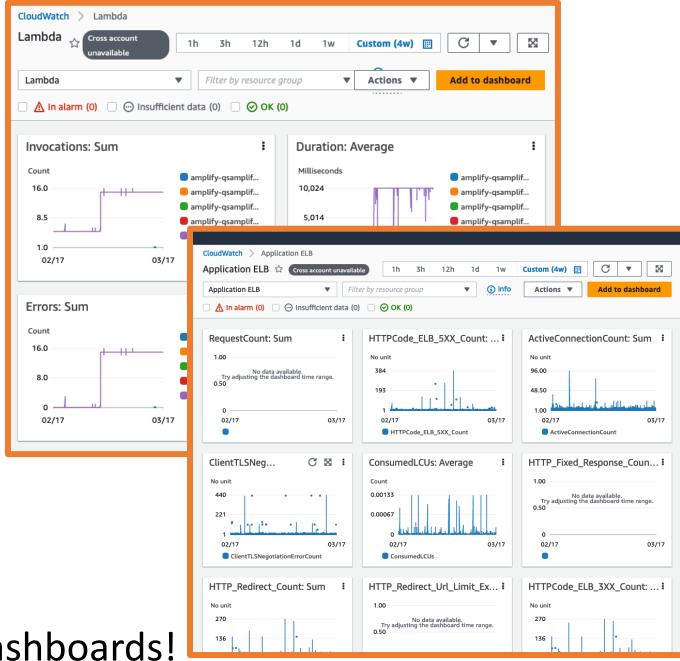




**Dashboards** visualize and aggregate your data in a single, easily accessible interface, helping you quickly identify trends, spot issues, and make data-driven decisions.







Comprehensive & Automated Dashboards!





Alarms are the automated notifications that inform you when your system deviates from predefined thresholds, ensuring you can respond promptly to potential issues and maintain system stability.





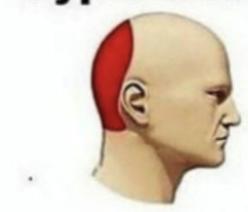
**ChatOps** is the integration of observability, monitoring, and automation tools into collaboration and communication tools, streamlining workflows and enabling faster incident response.

# Types of Headaches

**Migraine** 



**Hypertension** 



**Stress** 

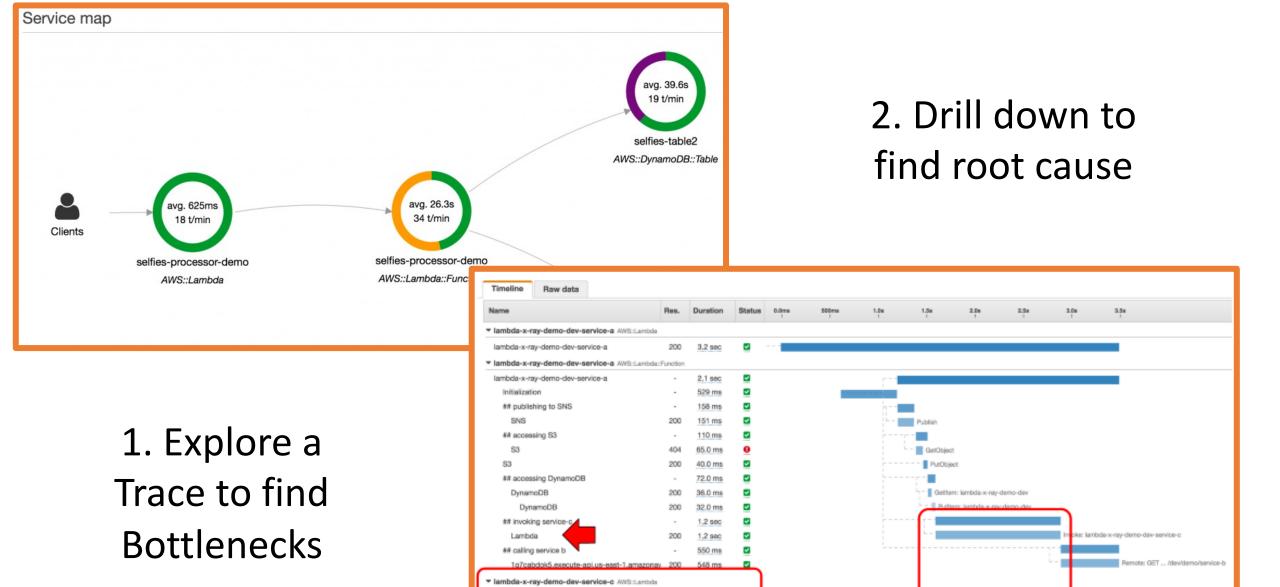


slack notifications





**Traces** are the detailed records of requests flowing through your distributed system, allowing you to understand the interactions between components and pinpoint bottlenecks or issues.



1.1 sec

230 ms

443 ms

193 ms

185 ms

200

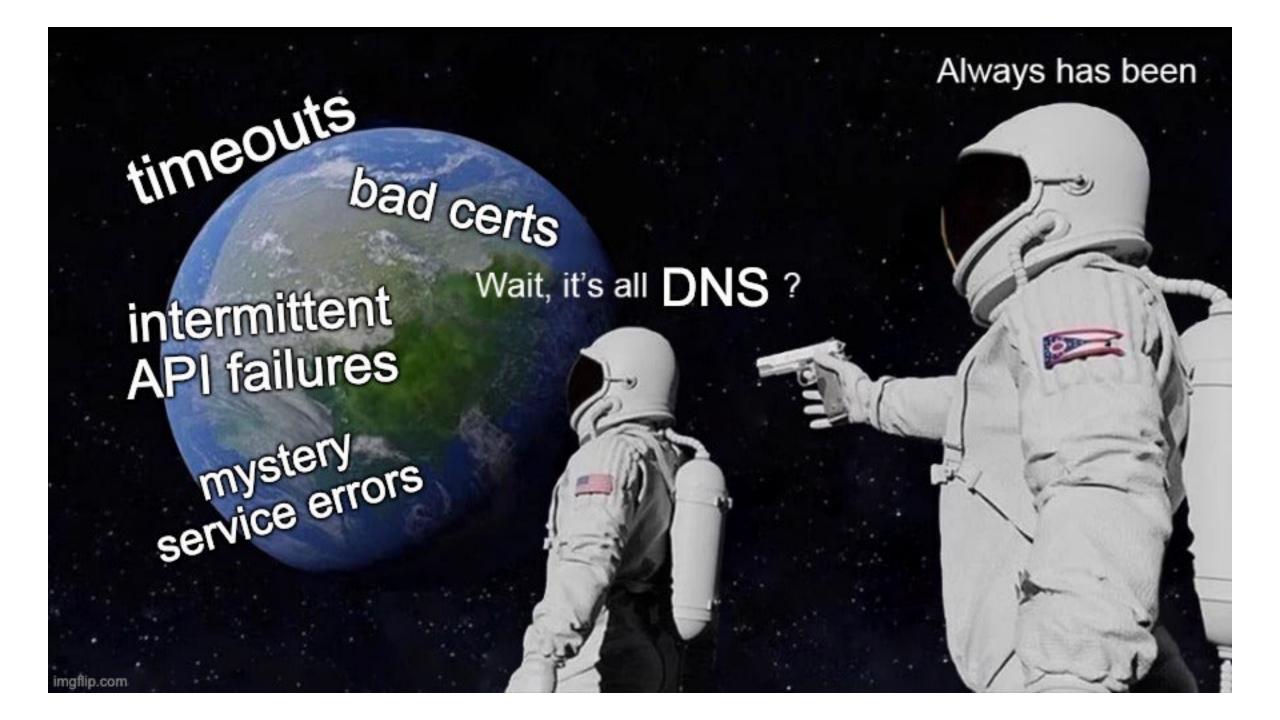
lambda-x-ray-demo-dev-service-c

lambda-x-ray-demo-dev-service-c

Initialization

## publishing to SNS

▼ lambde-x-ray-demo-dev-service-c AWS:Lambda:Function





A well-rounded observability framework enables engineers to effectively troubleshoot and optimize systems, combining metrics, logs, dashboards, alerts, chatops, and traces for comprehensive insights and swift issue resolution.

#### Observability Lifecycle

