
AWS
re:Invent

EMB048

Introducing Amazon Managed Service for Grafana

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Agenda

What is observability?

Grafana as the composable observability platform

Introducing Amazon Managed Service for Grafana

Demo

Key takeaways

Resources



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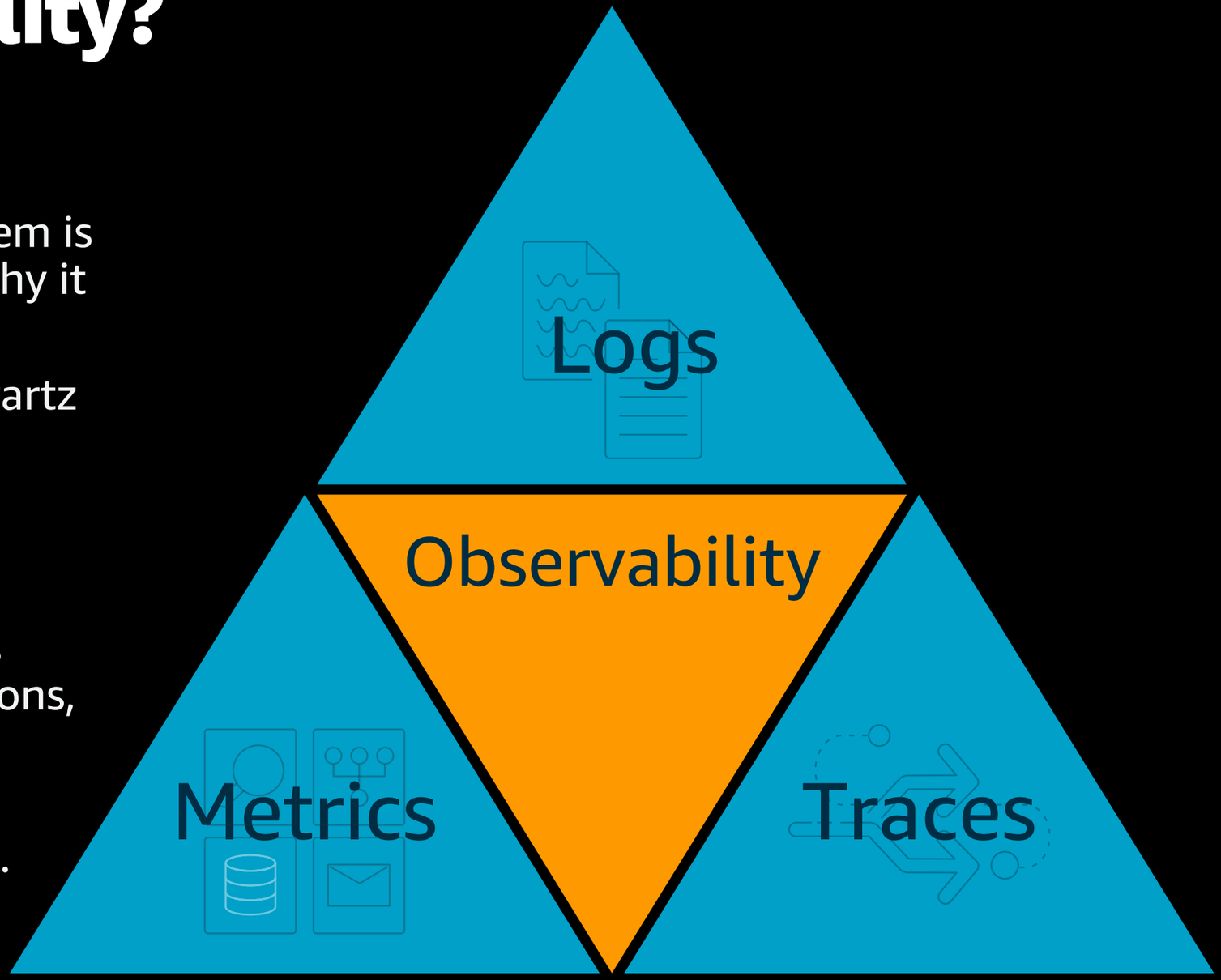
What is observability?

“Monitoring tells you whether a system is working, observability lets you ask why it isn't working.”

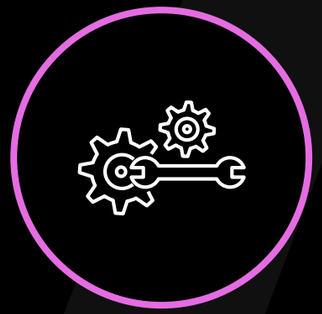
–Baron Schwartz

“Observability is the evolution of monitoring into a process that offers insight into digital business applications, speeds innovation, and enhances customer experience.”

–Gartner, Inc.



The observability challenge



Tooling flexibility leads to data silos



Multiple single panes of glass



Data correlation

A day in the life of Bob and Alice



Alice is a web developer



Paged!



Checks alarm and dashboard



Log dive



Page Bob



Bob uses a separate tool and dashboard

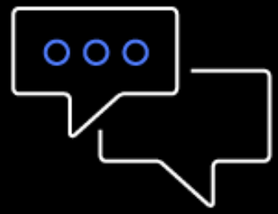
A day in the life of Bob and Alice



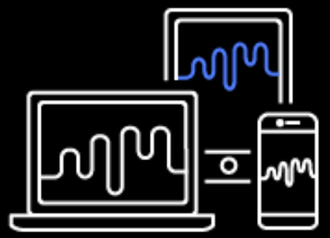
Bob’s DB doesn’t see any errors



Dashboard sharing between tools is blocked



Slack storm of graph screenshots



Alice: “Why not a single dashboard?!”



Bob: “Remember when we tried to import our data?”



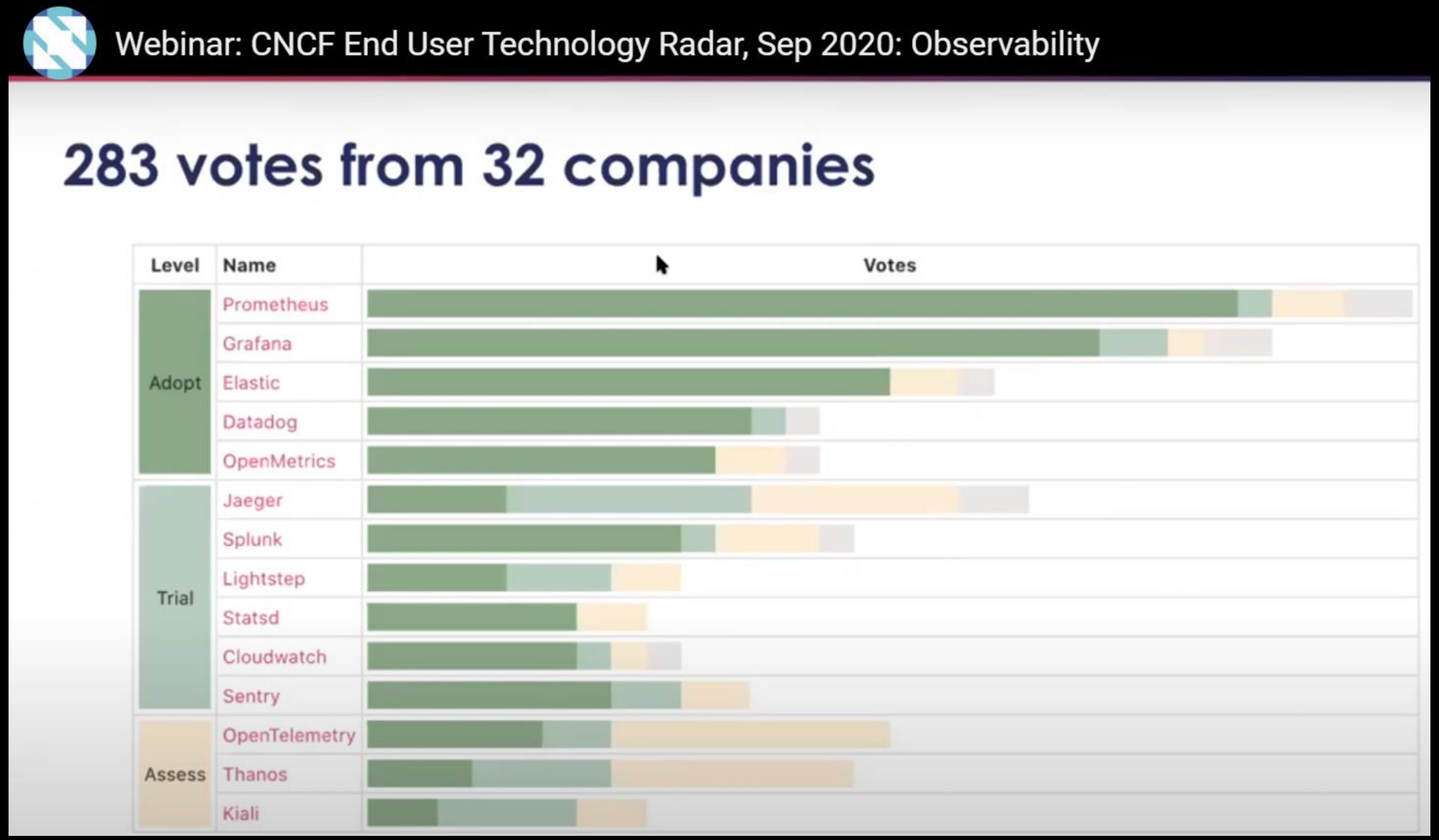
If only there was a tool to solve this …



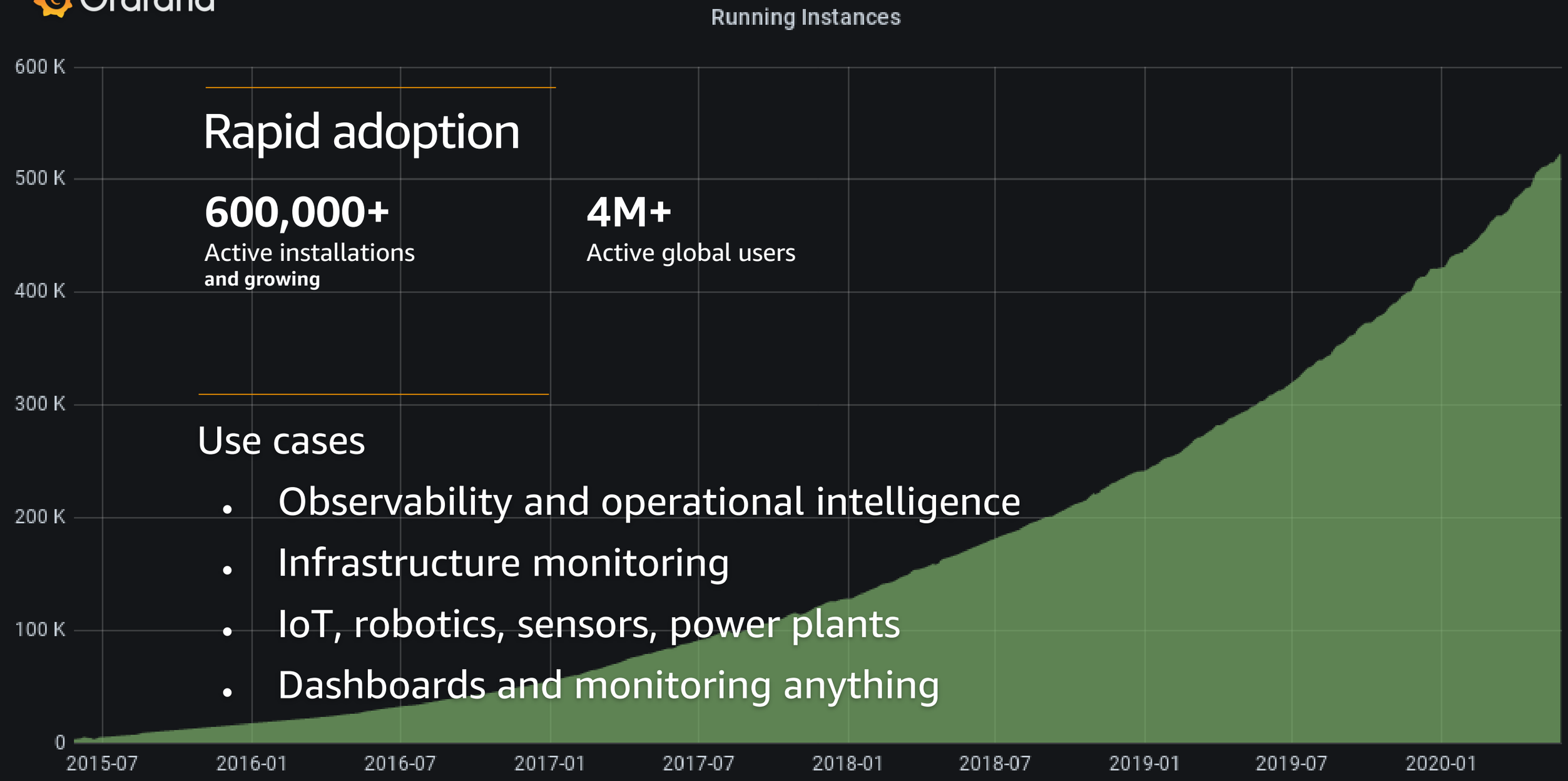
Unique ability to visualize and combine insights from over 80 sources without moving the data

Has become one of the most popular operational dashboard technologies in the world

How has Grafana become the most adopted front end for observability?



Grafana



Rapid adoption

600,000+
Active installations
and growing

4M+
Active global users

Use cases

- Observability and operational intelligence
- Infrastructure monitoring
- IoT, robotics, sensors, power plants
- Dashboards and monitoring anything

The composable observability platform



Metrics





InfluxDB

Timescale

Datadog

New Relic

Logs

Splunk

Elasticsearch



Humio

Traces







Business + Context

ServiceNow

GitHub

Snowflake

MongoDB

How users describe Grafana

> The best way to visualize and surface our organization's key metrics related to our platform. Best tool for visualizing all the things!!

> Very powerful, very beautiful, like swiss knife army dashboarding tool.

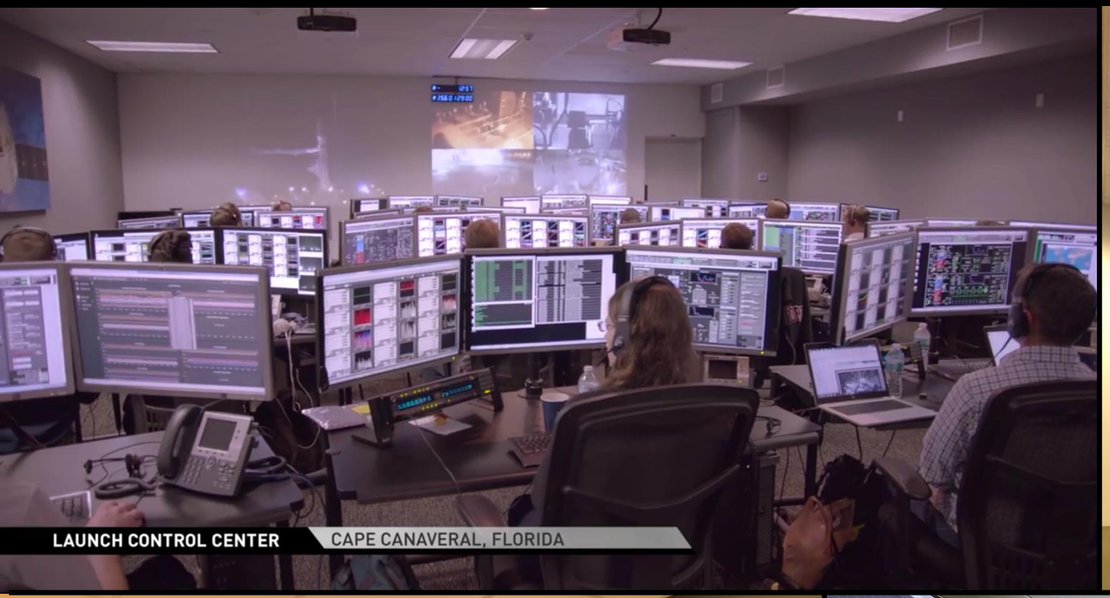
> Amazing, beautiful and super easy to use

> Work is just an excuse for using Grafana

> Blows my mind. The most intelligent and optimized dashboard and information viewer platform.

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Grafana dashboards here, there, and everywhere

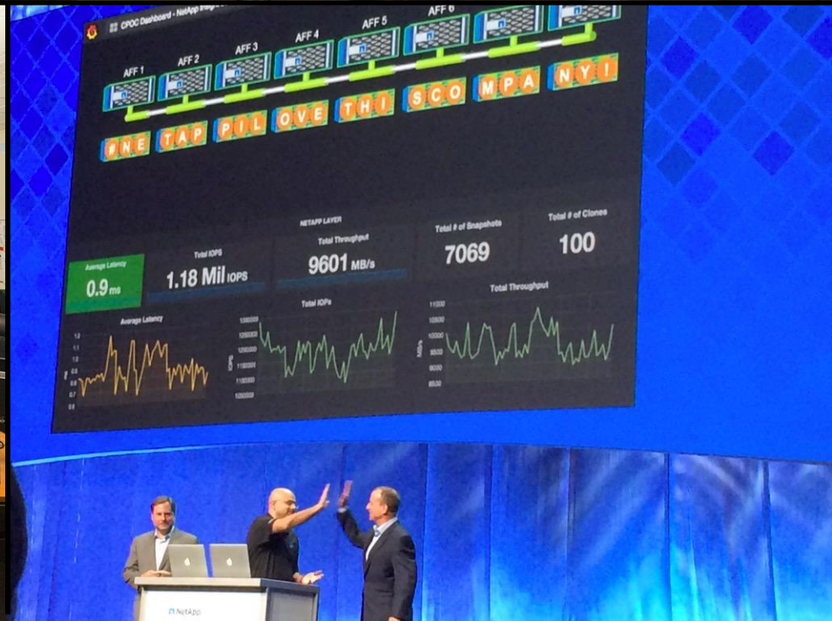
















Collaborating to make it easier to manage Grafana and connect it to AWS services

IN PREVIEW

Introducing Amazon Managed Service for Grafana

FULLY MANAGED, SECURE, HIGHLY AVAILABLE GRAFANA WORKSPACES



Enterprise-ready security





Secure user authentication via AWS SSO



Audit and compliance logs via AWS CloudTrail



Secure data access

IN PREVIEW

Introducing Amazon Managed Service for Grafana

FULLY MANAGED, SECURE, HIGHLY AVAILABLE GRAFANA WORKSPACES

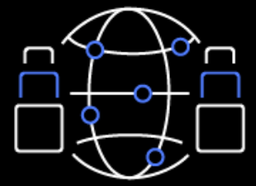


Offload operational management

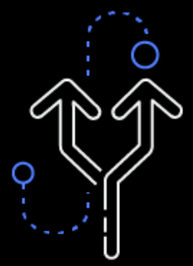




Autoscale from 10s to 1000s of users



High availability across multi-AZs



Automatic patching and version upgrades

IN PREVIEW

Introducing Amazon Managed Service for Grafana

FULLY MANAGED, SECURE, HIGHLY AVAILABLE GRAFANA WORKSPACES



Easy multi-Region, multi-account setup and configuration





Natively integrated with AWS services



Automatic account and resource discovery



Service managed data access permissions

AWS data sources and more



Amazon Managed Service for Prometheus



Amazon CloudWatch



AWS X-Ray



Amazon Elasticsearch Service



Amazon Timestream



AWS IoT SiteWise (new plugin)



Amazon SNS (alert destination)

Other plugins

- MySQL
- InfluxDB
- Graphite
- PostgreSQL
- OpenTSDB
- Other cloud services
- … and many more

Benefits of Grafana Enterprise, fully managed on AWS



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Even more data sources

Free and open plugins

- Amazon Managed Service for Prometheus
- Amazon CloudWatch
- AWS X-Ray
- Amazon Elasticsearch Service
- Amazon Timestream
- AWS IoT SiteWise
- MySQL
- InfluxDB
- Graphite
- PostgreSQL
- OpenTSDB
- Other cloud services
- … and many more



Enterprise plugins

- AppDynamics
- Datadog
- Dynatrace
- MongoDB
- New Relic
- Oracle
- ServiceNow
- Snowflake
- Splunk
- Wavefront

Grafana Enterprise key features and support

All enterprise data source plugins





24x7x365 expert support

Tailored training and on-demand content

Splunk / Splunk Docker Stats + ServiceNow

2020-07-17 15:24:07 to 2020-07-17 15:30:04

Running Containers

13

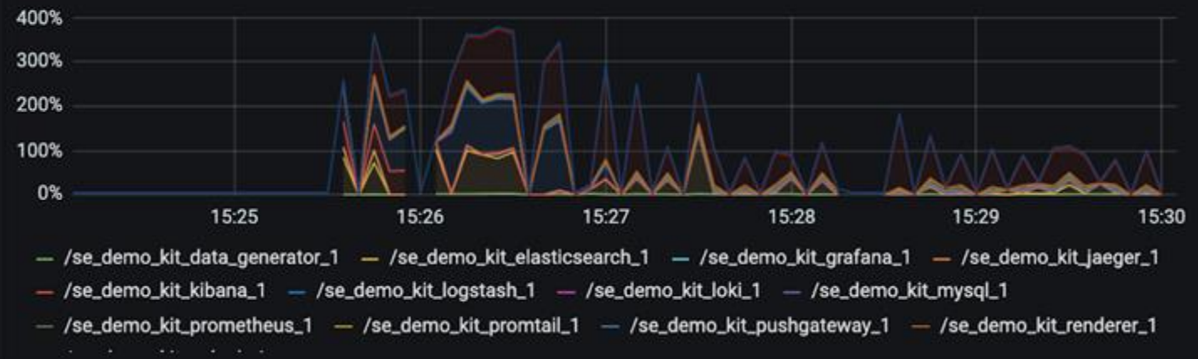
Logs by Container - File Input



New High Priority Incidents

number	opened_at	category	severity	short_description	impact
INC0010001	2020-01-02 07:38:27	inquiry	3.00	test	1
INC0009005	2018-08-31 21:35:21	software	3.00	Email server is down.	1
INC0007001	2018-10-16 22:47:10	hardware	3.00	ELDINS SERVER IS DOWN	1

CPU Usage - Max by container



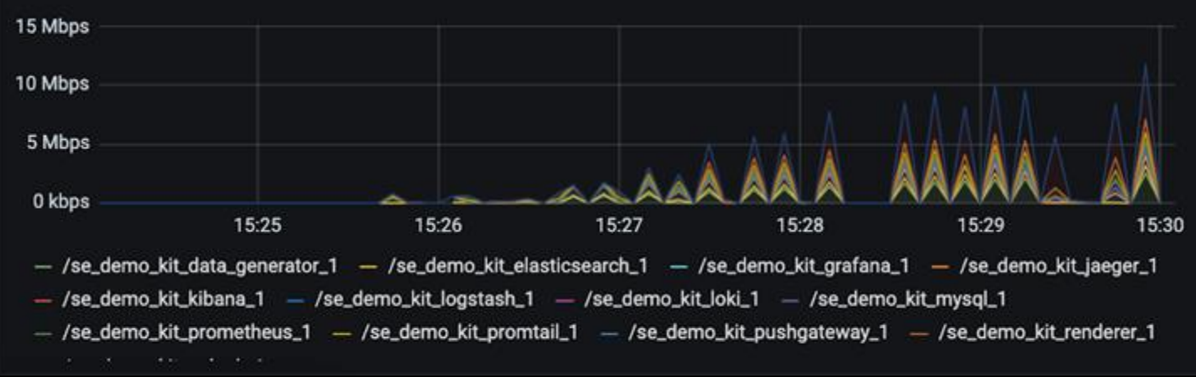
Active High Priority Changes

number	opened_at	category	severity	short_description	impact
CHG0040006	2016-08-10 09:35:23	Other	0.00	Add network switch to cabinet	1
CHG0000009	2019-12-20 21:07:53	Software	0.00	Apply patches 10.2.0.1 to 10.2.0.3	3
CHG0000008	2019-04-14 16:14:14	Hardware	0.00	Install new Cisco	3

Splunk Logs

{"log":"I, [2020-07-17T22:30:03.877870 #7] INFO -- : {:status_code=\u003e304, :error_level=\u003e\
{"log":"I, [2020-07-17T22:30:03.359215 #7] INFO -- : {:status_code=\u003e200, :error_level=\u003e\
2020-07-17T22:30:03Z lifecycle-server time="2020-07-17T22:30:03.936171500Z" level=error msg="Handl
2020-07-17T22:30:03Z lifecycle-server time="2020-07-17T22:30:03.889033500Z" level=debug msg="Calli
2020-07-17T22:30:03Z lifecycle-server time="2020-07-17T22:30:03.878898600Z" level=debug msg="[reso
2020-07-17T22:30:03Z lifecycle-server time="2020-07-17T22:30:03.878830600Z" level=debug msg="Name

Network Output (Kb)



Demo



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Recap

01

Centralize observability with Amazon Managed Service for Grafana

Visualize, analyze, monitor, and alarm on metrics, logs, and traces across multiple data sources

02

Serverless, secure, and seamlessly integrated with AWS services

Automatic security patching and upgrades, enterprise-ready security, and native AWS services integration for easy multi-account, multi-region setup

03

Easy in-place upgrade to Grafana Enterprise

Benefits of Grafana Enterprise, fully managed on AWS

Resources

- Get started
  https://aws.amazon.com/grafana/

- Check out EMB046 session on Prometheus
  “Introducing Amazon Managed Service for Prometheus”

- Join us for the What’s Next livestream on 12/17 @1:30 p.m.
  with Torkel Odegaard, Grafana Creator and Co-Founder

Thank you!



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