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Welcome



The background is a solid yellow color. It features several white geometric lines: a vertical line on the left, a horizontal line near the bottom, and a horizontal line on the right. These lines are connected by rounded corners. There are three colored dots: a pink dot at the top left, a blue diamond at the bottom left, and a blue dot on the right horizontal line.

Thank you

To our users, community, and customers



Open Source

Cost Control

Ease of use

Open Source

Open source is at the heart of what we do



Grafana

1M+ instances
20M+ users



Prometheus

Employ 11/29 of the
Prometheus team
members



OpenTelemetry

Employ contributors,
including a Governance
Committee member

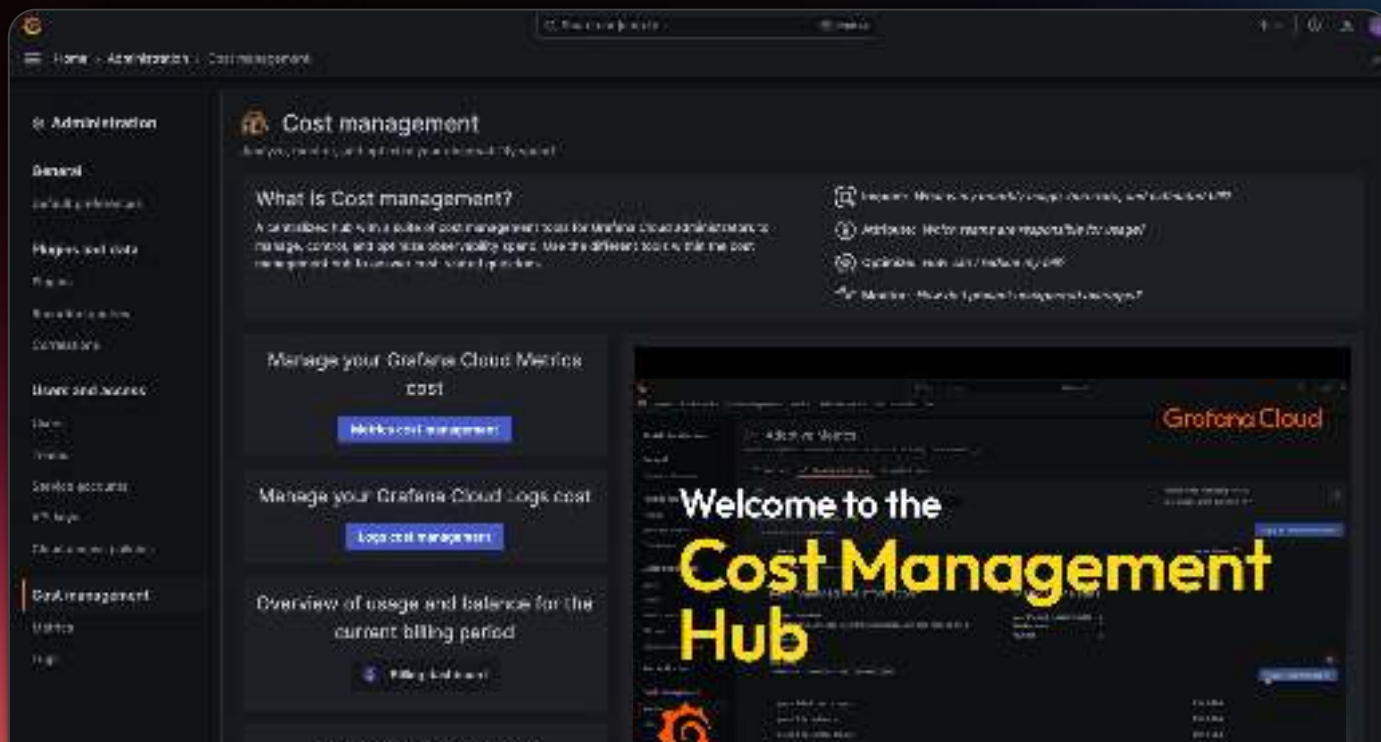
Open source is at the heart of what we do



Cost Control

NEW

Cost Management Hub



Adaptive Metrics



Adaptive Logs





Loki 3.0

OSS



Cloudnative

loki

oss

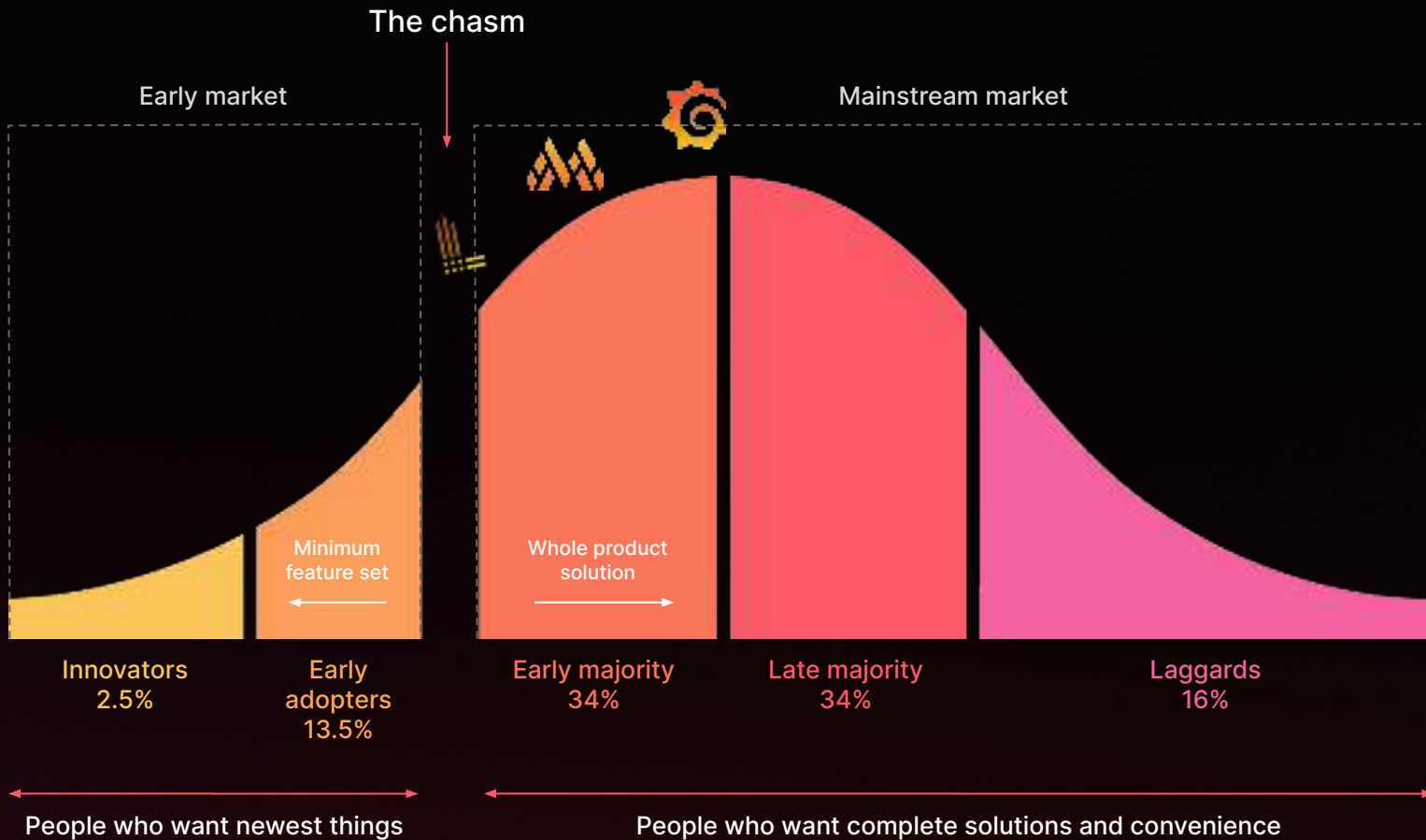
Loki Query Acceleration

1,000x

faster (up to)



Ease of Use



Explore metrics

Private preview



Explore logs



github.com/grafana/explore-logs



LOGQUEST

logger.Info

Explore traces

Research

Act III

Easier LGTM



Infrastructure
Observability

K8s Cost Monitoring



(Load) Testing

k6 + Tempo



Incident Response
Management

Grafana SLO

GA



Application
Observability

GA

NEW

Application Observability

Open, opinionated, and based on OpenTelemetry and Prometheus



Application Observability

GENERAL AVAILABILITY

Faro and OpenTelemetry instrumentation make it easier for customers to get high-quality telemetry.



Frontend



Backend

Application Observability

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Application Observability

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Frontend

Backend



Kernel



OSS

GENERAL AVAILABILITY



Grafana Beyla

Open source zero-code automatic instrumentation
with eBPF and OpenTelemetry



Manoj Acharya

VP of Engineering, Grafana Labs
(Founder, asserts.ai)

The background is a dark blue gradient with a subtle grid of thin, light blue lines. A large, bright orange circle is centered on the page. The word "Demo" is written in a bold, yellow, sans-serif font inside the circle. There are also a few small, faint blue dots scattered on the grid lines.

Demo




NEW

Asserts

Faster RCA with correlated alerts





ML + AI

ML + AI



**Minimize
toil**



**Accelerate
understanding**



**Reduce
noise**

GenAI: The Grafana way

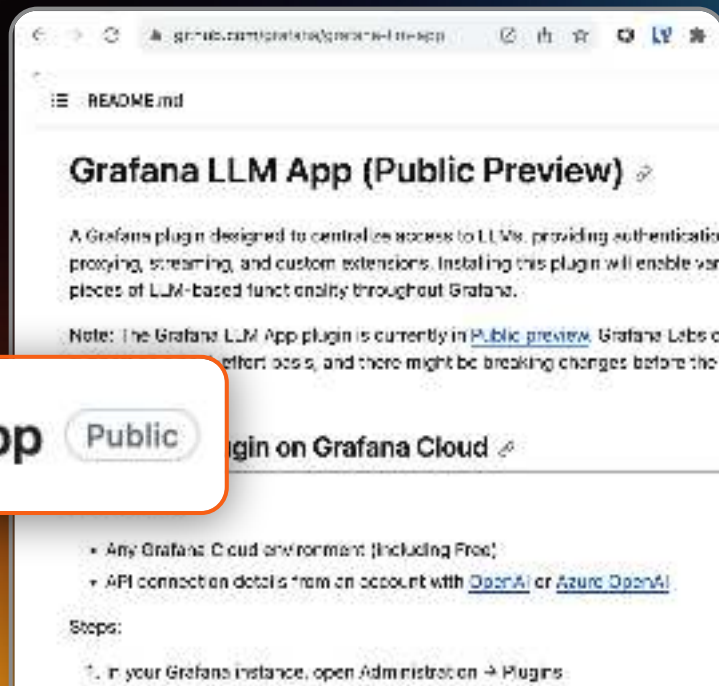
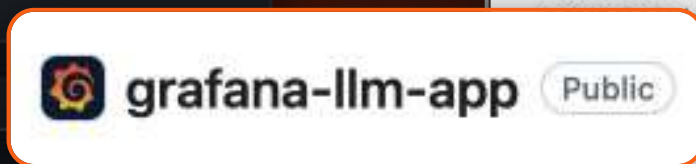
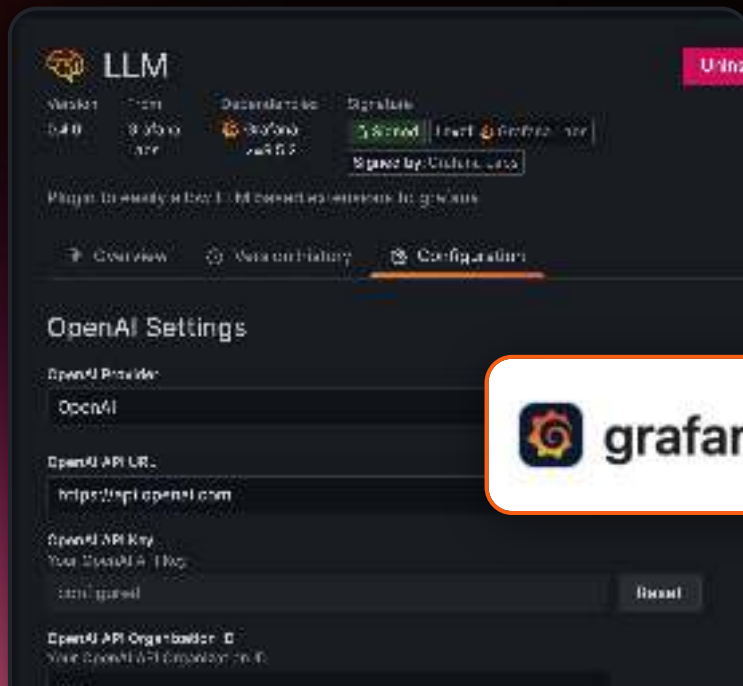
Open Source

Big Tent

Transparency

NEW

Grafana LLM App





Home > Alerts & IRM > Incidents > Payment SLO Breach in West Region

Payment SLO Breach in West Region

Active

Major

View/Edit PIR

Join Google Meet

Payment SLO Breach in West Region

#Incident-2023-11-09-payment-slo-breach-in-west-region

customers-affected

Add label

Declared on 11/9/2023 by Marc Chipouras

01H 36M

Declared & Started

Now

Text

Query

Alert

Panel

Action

Paragraph

Provide an update

Commander
Mat RyerInvestigator
Myde Krantz

Participants

+ Invite

✓ marochipouras

IRM Demo...

+3



Specify incident severity



Deliver the Keynote



Outline

grafanacloud-sedemo-p

Split

+ Add

Refresh

Search

Fullscreen

(grafanacloud-sedemo-prom)

Click start your query

Explain

Builder

Code

Metric

Label filters

process_cpu_seconds_total

Select label

Select value

X

+

+ Operations

Get query suggestions

hint: add rate

process_cpu_seconds_total

Options

Legend: Auto

Format: Time series

Step: auto

Type: Both

Exemplars: false

+ Add query

Query history

Query inspector

No data

Mythical Beast Latency SLO Critical

[Public preview](#)[+ Return to list](#)

Completed

2

Time range: 11/10/2023, 9:56:30 AM - 11/10/2023, 10:26:30 AM

30m

Originated from: Machine Learning



Interesting results:

ResourceContentions

SlowRequests

RecentDeployments

ErrorPatternLogs



Completed checks:

KubeCrashes

NoisyNeighbors

ResourceContentions

[Interesting result](#)

Found 4 containers with resource contentions

Cluster	Namespace	Workload	Container	Type	Actions
grafana-ops-demo	default	mythical-server-58d6b58f8b-9tbbn	mythical-server	High CPU Throttling	Explore
grafana-ops-demo	default	mythical-server-58d6b58f8b-stvms	mythical-server	High CPU Throttling	Explore
grafana-ops-demo	default	mythical-server-58d6b58f8b-xdw8m	mythical-server	High CPU Throttling	Explore
grafana-ops-demo	default	mythical-server-776456fd8c-tk9lc	mythical-server	High CPU Throttling	Explore

Interesting results:

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Completed checks:

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NoisyNeighbors

ErrorPatternLogs

Interesting result

15 patterns found in error logs, 4 relevant

Error pattern

timestamp> stdout F eStore server could not start, trying again in <number> seconds... (attempt <number>) error: password authentication failed for user "postgres"
increased by 3900% (25 occurrences) in comparison to the last 24h

Generate Explanation

Explore Logs

Explore Rate

```
2024-01-10T10:00:00Z stdout F eStore server could not start, trying again in 5 seconds... [attempt 1] error: password authentication failed for user "postgres"
2024-01-10T10:00:05Z stdout F eStore server could not start, trying again in 5 seconds... [attempt 2] error: password authentication failed for user "postgres"
2024-01-10T10:00:10Z stdout F eStore server could not start, trying again in 5 seconds... [attempt 3] error: password authentication failed for user "postgres"
2024-01-10T10:00:15Z stdout F eStore server could not start, trying again in 5 seconds... [attempt 4] error: password authentication failed for user "postgres"
2024-01-10T10:00:20Z stdout F eStore server could not start, trying again in 5 seconds... [attempt 5] error: password authentication failed for user "postgres"
```



kubernetes[cluster="gke-us-east1-demo", namespace="default"] -> stdout F eStore server could not start, trying again in 5 seconds... (attempt 1) error: password authentication failed for user "postgres"

Interesting results:

ResourceContentions

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Generate Explanation

Explore Logs

Explore Rate

Explanation:

These log lines indicate that the eStore server is unable to start due to a password authentication failure for the "postgres" user. The server is attempting to start again after a 5-second delay.

Helpful hints to fix these errors:

1. Verify that the correct password is being used for the "postgres" user.
2. Check the database configuration to ensure that the authentication method is correctly set for the "postgres" user.

```
2023-01-04 12:28:21.144528112 stdout F eStore server could not start, trying again in 5 seconds... [attempt 4] error: password authentication failed for user "postgres"
2023-01-04 12:28:26.198640012 stdout F eStore server could not start, trying again in 5 seconds... [attempt 4] error: password authentication failed for user "postgres"
2023-01-04 12:28:31.162566262 stdout F eStore server could not start, trying again in 5 seconds... [attempt 5] error: password authentication failed for user "postgres"
2023-01-04 12:28:36.146255042 stdout F eStore server could not start, trying again in 5 seconds... [attempt 6] error: password authentication failed for user "postgres"
2023-01-04 12:28:41.144110412 stdout F eStore server could not start, trying again in 5 seconds... [attempt 7] error: password authentication failed for user "postgres"
```



Grafana Labs



Asserts

Cloud Advanced



Application Observability

GA



Adaptive Metrics + Cost Management Hub

GA



Grafana SLO

GA



Grafana Beyla

GA



Loki 3.0

GA



Explore Metrics

GA



Explore Logs

Preview (OSS)



Explore Traces

Research



Adaptive Logs

Research



Grafana LLM App

Public preview



Dashboard Assistant

GA



Incident Summary

GA



Query Advisor

Private preview



Sift

GA

Thank you