
AWS
re:Invent
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COP309-R

Accelerate AWS observability for your containers

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What brings you to COP309?

- Challenges with self-hosted monitoring solutions

Delivery

Scaling and security

$$$

- Challenges with container monitoring

Ephemerality

Shared resources

Event correlation and analysis

Agenda

AWS observability tools

Goals of the workshop

Hands-on workshop

Call to action

AWS services for observability

	AWS native	Open source
Infrastructure VMs, containers, OS	Amazon CloudWatch	Amazon Managed Service for Prometheus Amazon Managed Grafana

AWS services for observability

	AWS native	Open source
AWS services Vended monitoring	Amazon CloudWatch AWS X-Ray	AWS Distro for Open Telemetry

AWS services for observability

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 **Application performance** Tracing and profiling	Amazon CloudWatch, AWS X-Ray, Amazon CodeGuru	AWS Distro for Open Telemetry

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 **End-user** Synthetic monitoring	 Amazon CloudWatch	✕

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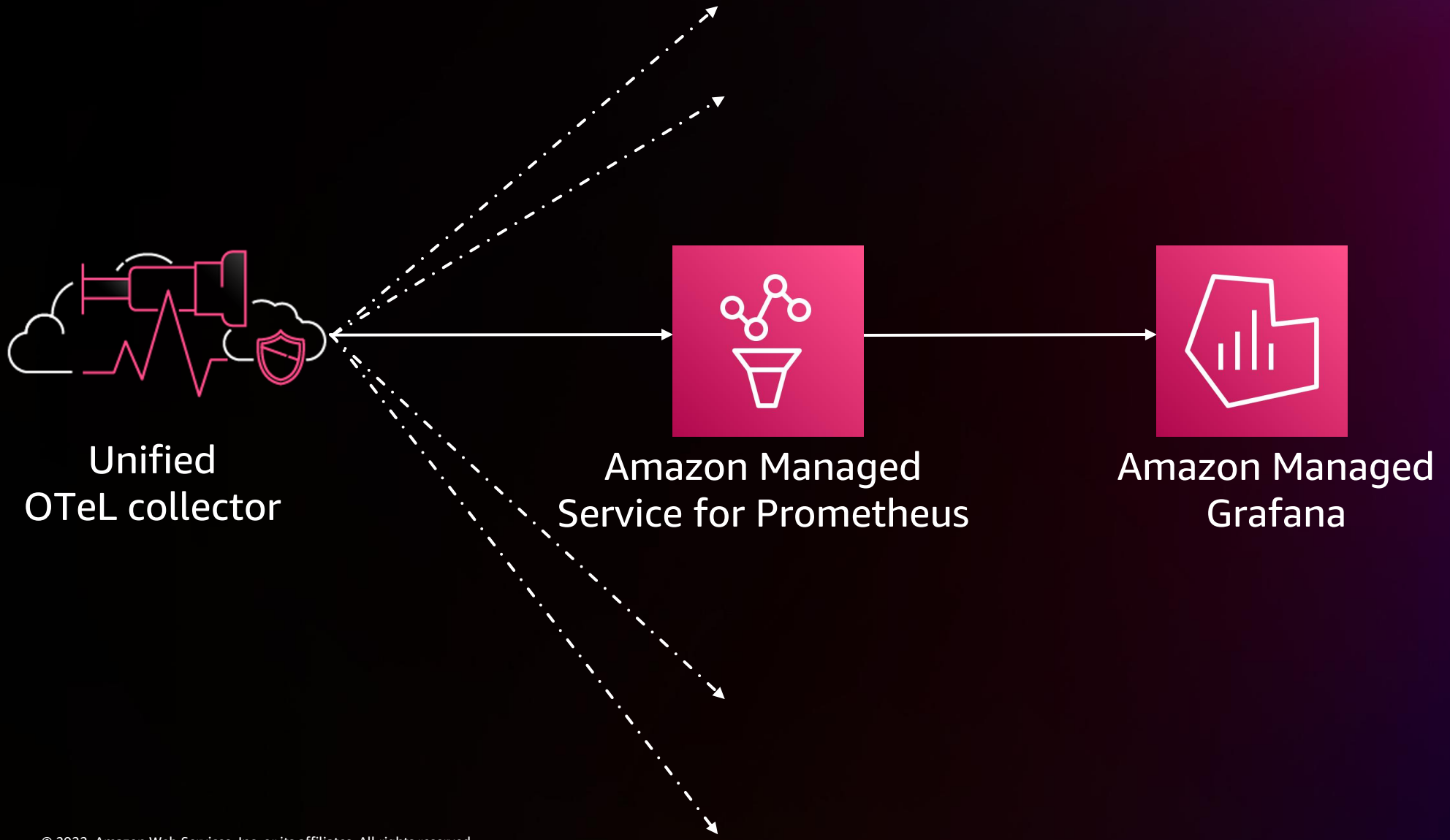
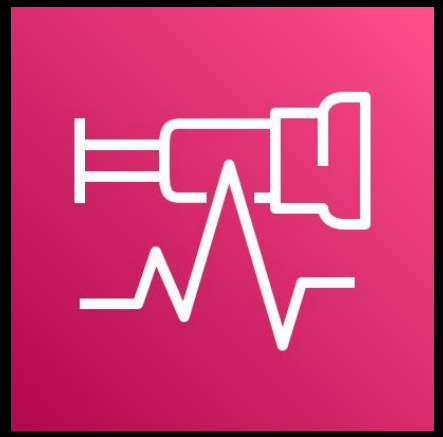
Observability – Open-source way!



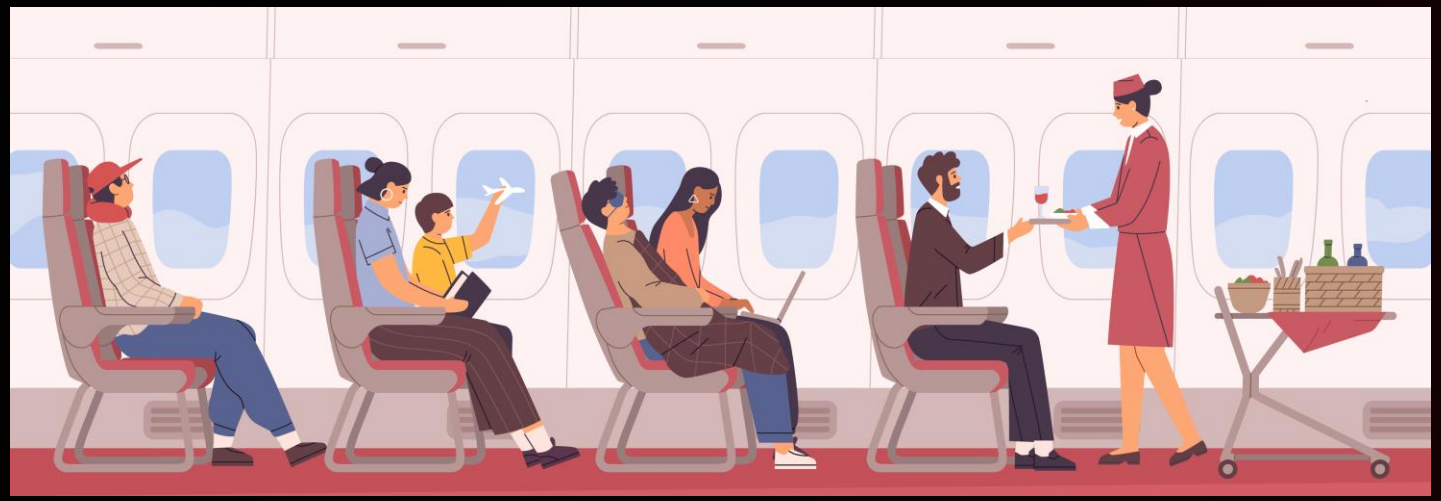
AWS Distro for OpenTelemetry (ADOT)



- A secure, production-ready, open-source distribution supported by AWS
- Code contributions are upstream in OpenTelemetry
- Certified by AWS for security and predictability

A pilot

OR



A passenger?

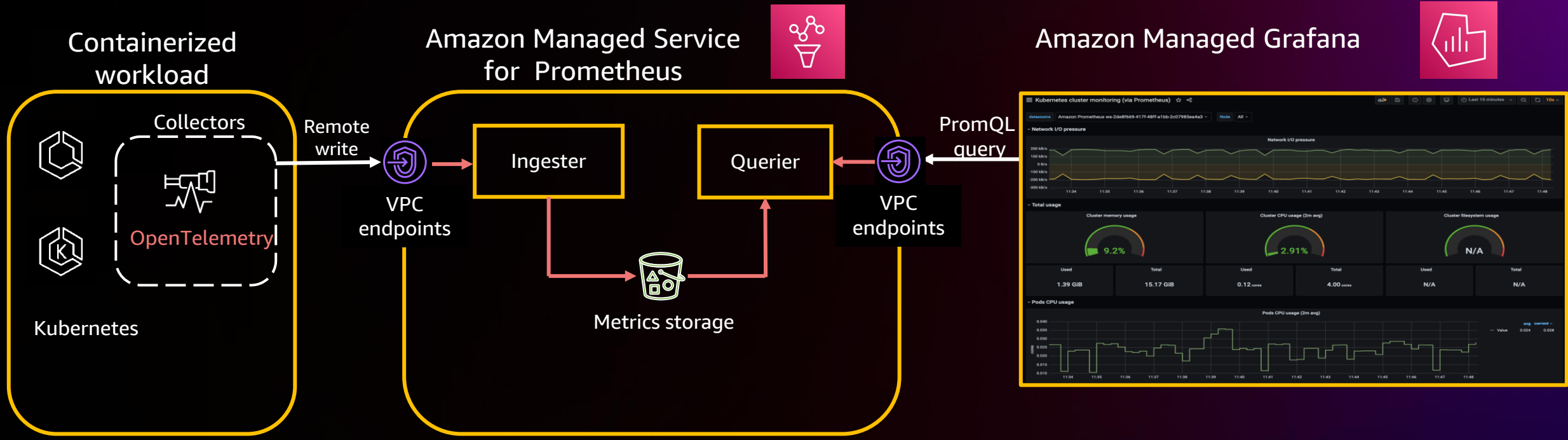
Amazon Managed Service for Prometheus

- A serverless Prometheus-compatible monitoring service
- Fully managed, secure, and highly available using multi-AZ deployments
- Improved scalability, availability, and security without having to manage the underlying infrastructure

Amazon Managed Grafana

- Scalable, secure, and highly available fully-managed Grafana service
- Analyze, monitor, and alarm across multiple data sources
- Native integration with multiple AWS services
- Access to Grafana Enterprise data source

Workshop use case



Goals of the workshop

Open-source monitoring for your container environment

- Set up Amazon Managed Service for Prometheus and Amazon Managed Grafana
- Enable end-to-end monitoring for Amazon ECS
- Enable end-to-end monitoring for Amazon EKS

Advanced topics in Amazon Managed Grafana

- Alerting
- Multi-tenancy
- Connect to data sources inside an Amazon VPC

Goals of the workshop

Native AWS monitoring for your container environment

- Use Amazon CloudWatch Container Insights on Amazon ECS
- Use Amazon CloudWatch Container Insights on Amazon EKS

Hands-on time

Into the workshop

- Access your AWS Account

https://catalog.us-east-1.prod.workshops.aws/join

Enter the access code 53fb-011244-a4

Call to action . . .

One Observability Workshop

AWS Observability Accelerator

Observability Best Practices

Skill Builder – AWS Observability

Why AWS Cloud Ops?

Return on Investment (ROI)

241% ROI
over 3 years*

Staff productivity

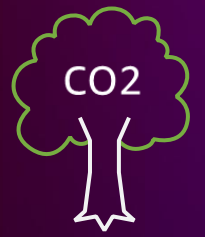
62% more efficient IT infrastructure staff

Operational resilience

57% decrease in downtime

Business agility

37% decrease in time to market



Carbon savings

88% reduction in carbon footprint of IT operations

Based on independent research of 1,500 AWS enterprise customers
*Source: "The Total Economic Impact of AWS Cloud Operations: Cost Savings And Business Benefits Enabled By Operation on AWS. May 2022. A commissioned study conducted by Forrester Consulting on behalf of Amazon Web Services."

aws

Your journey to operating at cloud scale

Get started with AWS Cloud Operations

1) Setup

Establish a secure foundation for governance and compliance

2) Build and migrate

Migrate applications to the cloud, or build new applications

3) Operate

Monitor application performance; detect and remediate noncompliance or operational risks quickly

Want to see more AWS Cloud Operations?

Please complete the session survey in the mobile app

Ask us anything at our kiosks in the AWS Village Expo

Find related sessions in our re:Invent blog

Thank you!

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