
AWS
re:Invent
NOV. 28 – DEC. 2, 2022 | LAS VEGAS, NV

COP224-L

Transform with AWS Cloud Operations: From vision to reality

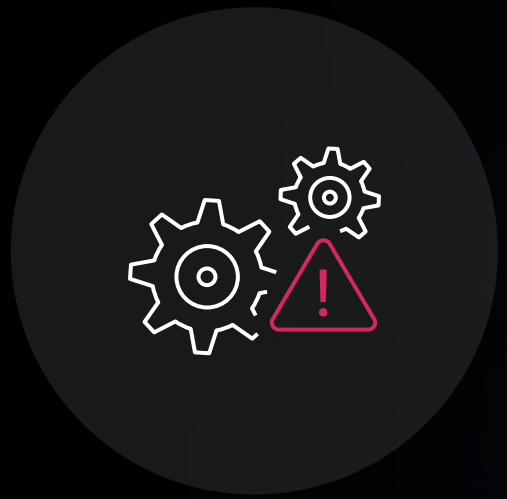
Nandini Ramani
VP, Observability
AWS

Kurt Kufeld
VP, Platform
AWS

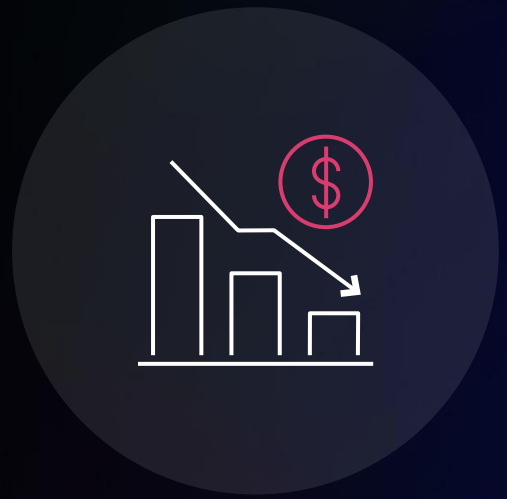
Kevin Plunkett
VP, Cloud Services
DISH Wireless

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Hard days look like



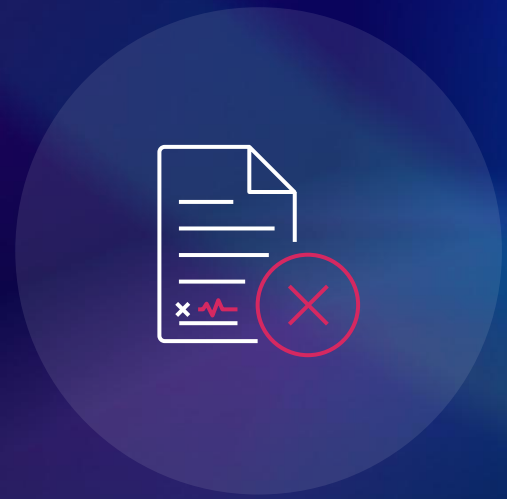
System emergencies



Failing transactions



No alarm context

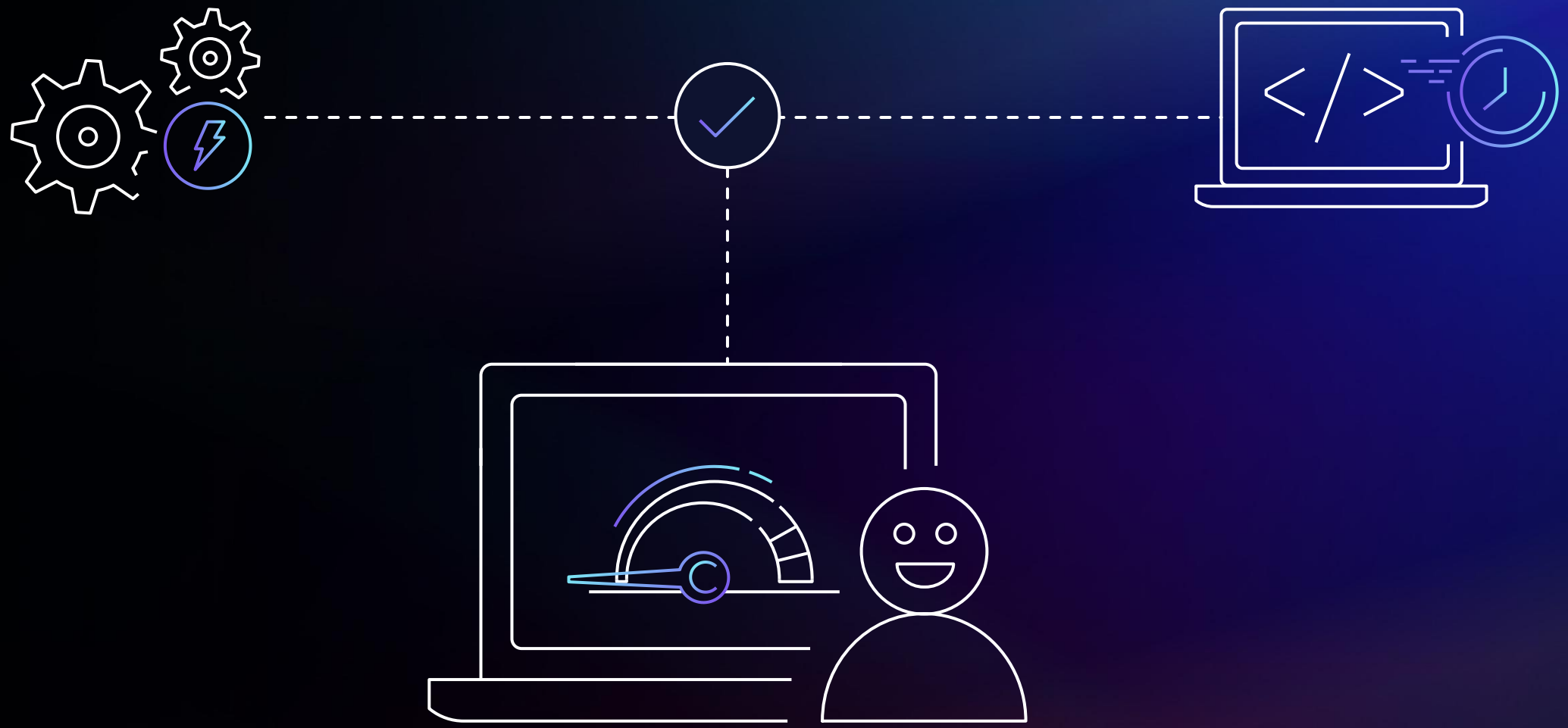


Broken SLAs

aws

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Wouldn’t you rather have a day like this?



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Millions

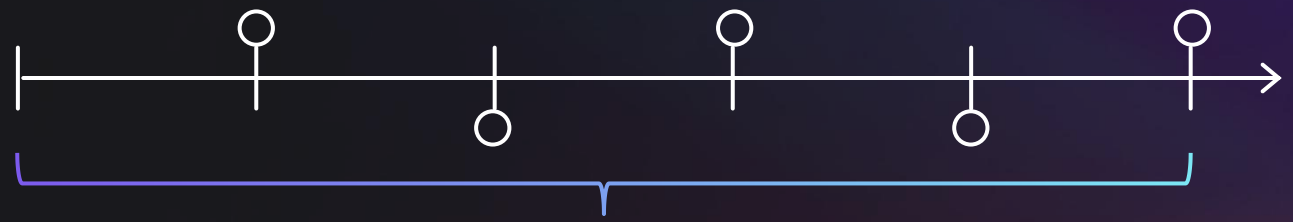
of active AWS customers every month globally

>1 billion

end users served by our customers

100,000+

AWS Partners from more than 150 countries



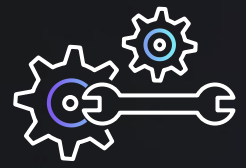
25+ years

of Amazon's operations management experience

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Make it a good day with AWS Cloud Ops

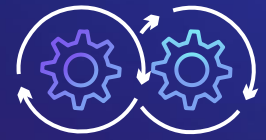
Set up



Build and migrate



Operate



Throughout each phase, AWS enables you to optimize costs

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1

Create the right environment

2

Simplify operations

3

Deliver the experience

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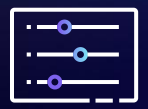
Deliver the experience

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Set your business up for success with the right environment



Establish governance



Set up your environment quickly



Build and maintain controls



Integrate third-party software

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Set your business up for success with the right environment



AWS Control Tower

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You want to allow-list services and meet control objectives quickly



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NOW IN PREVIEW



AWS Control Tower

Comprehensive controls management in AWS Control Tower

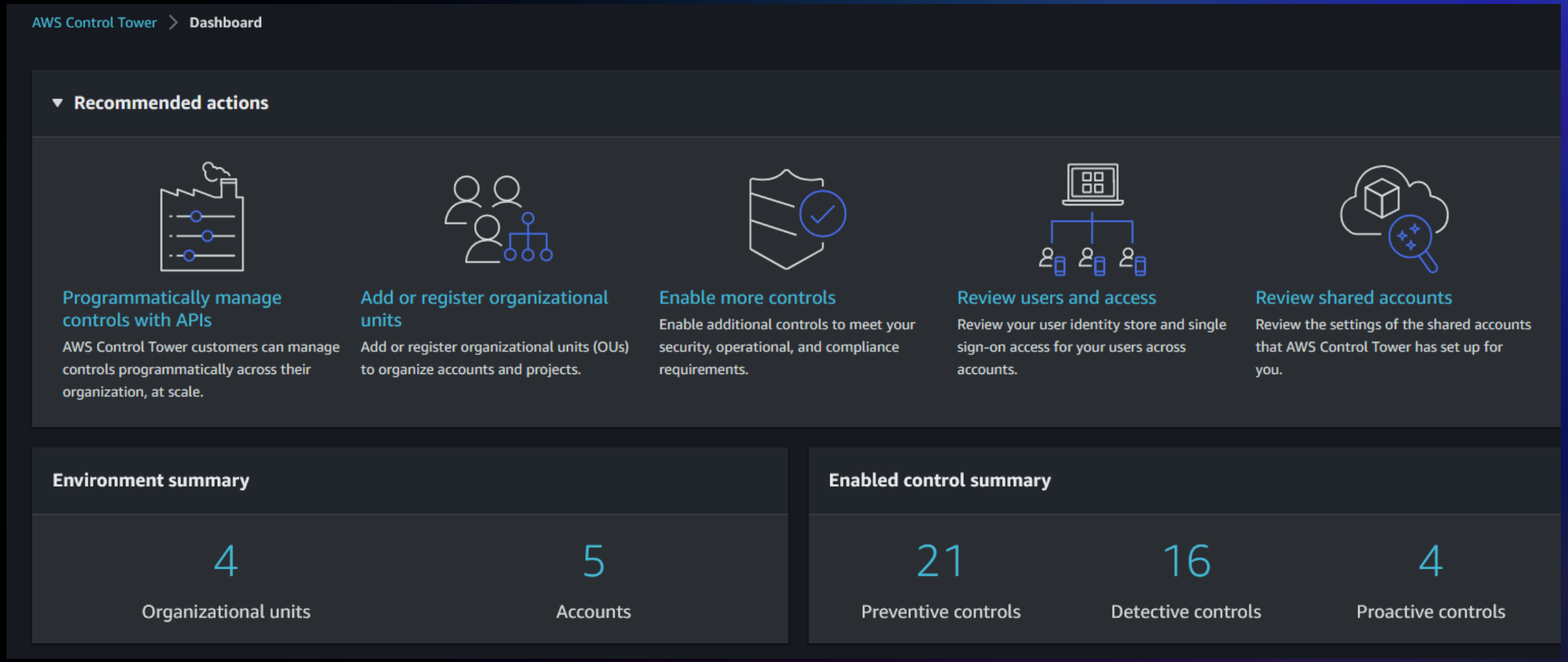
Reduce risk and set up governance quickly and easily in multi-account AWS environments

- See your controls in one place
- Start using services quickly
- Organize controls by service, control objective, and compliance framework
- Quickly define and manage controls

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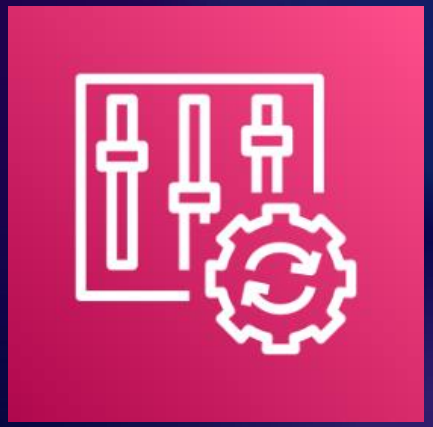
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Comprehensive controls management in AWS Control Tower



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Assess, audit, and evaluate configurations of your resources



AWS Config

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9 billion

compliance checks in AWS Config each month

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You asked us for proactive compliance

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NEW LAUNCH



AWS Config

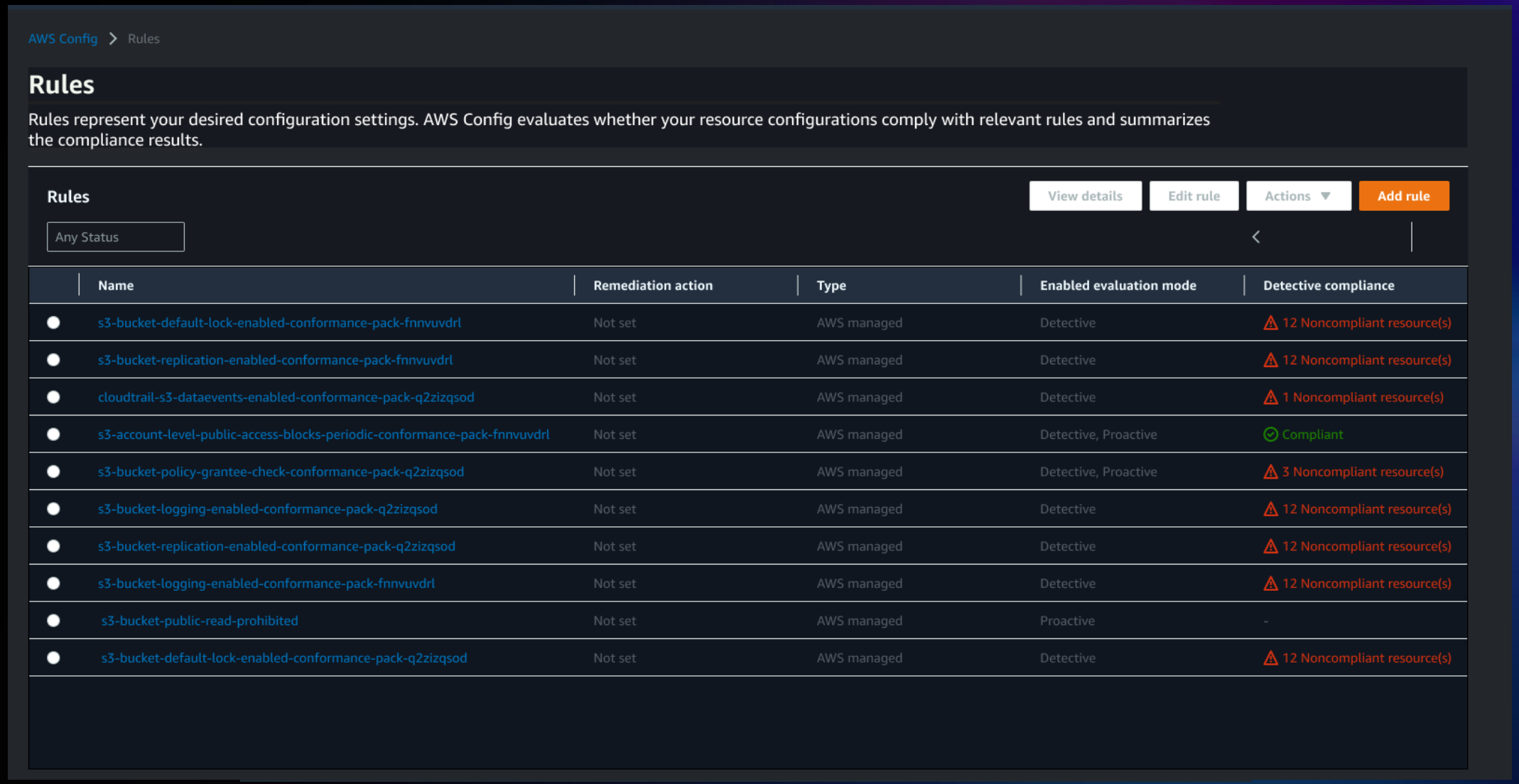
AWS Config now supports proactive compliance

Proactively check resource compliance before provisioning

- Cost and time optimization
- Flexibility
- Customization to choose provisioning system

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AWS Config now supports proactive compliance



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NEW LAUNCH



AWS CloudTrail

Simplify security and compliance investigations with AWS CloudTrail Lake

CloudTrail Lake now integrates with AWS Config

- Immutable store with built-in query engine and out-of-the-box sample queries
- Correlate activity logs with resource configuration and compliance history
- Search and analyze audit evidence through integration with AWS Audit Manager

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Create the right environment

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Simplify operations

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Deliver the experience

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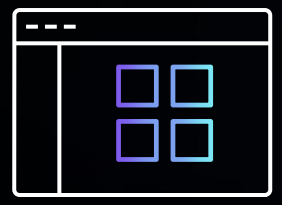
Simplify operations

3

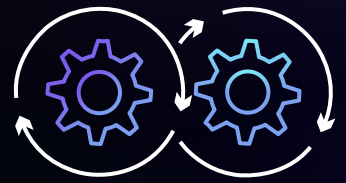
Deliver the experience

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Simplify operations by focusing on applications



Multiple applications



Managed in an integrated way



Multiple environments: hybrid, on-premises, and cloud



Searchable and discoverable anywhere

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20 million
concurrent instances managed in AWS Systems Manager



AWS Systems Manager

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NOW AVAILABLE

Integrated application experience



Define and manage applications easily

- Set up application monitoring quickly
- Improve application resilience
- Access secrets and variables with lower latency
- Get details of resource change requests

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NOW AVAILABLE

Search for and discover resources across AWS



Find and act on the right resources with AWS Resource Explorer

- Discover all your resources with a single step
- Go to resource details in a single step
- Accessible in console or SDK/CLI
- Support resources at scale

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DISH Wireless builds a telco network with AWS Cloud Operations

Kevin Plunkett
VP, Cloud Services
DISH Wireless

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America's **first cloud-native 5G network** from core to edge that empowers customers to rapidly instantiate and adapt network services to their specific needs

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Our challenge building telco networks

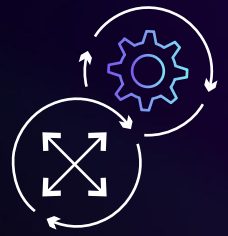


Public, private, hybrid clouds





Networks we support



Operations to support these dimensions

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DISH business outcomes



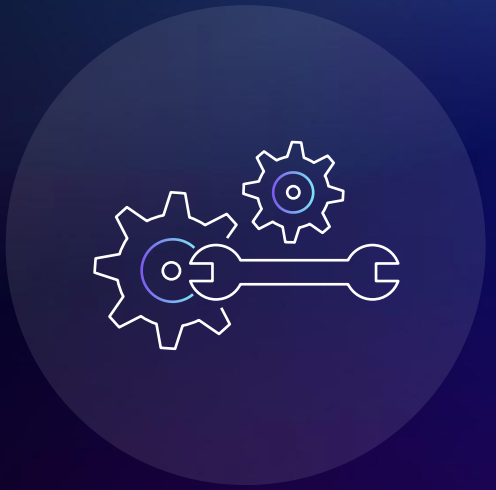
Cost savings (TCO)

>50% reduction in TCO



Staff productivity

Reduction in Opex (FTEs)



Operational resilience

Increased service availability/redundancy



Business agility

4-6X faster time to market

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Our cloud operations on AWS



Modern cloud tools and CI/CD



Use AWS cloud-native services



Reduced upfront investment



Mobile Edge Compute enablement



Security for in-transit and in-store data



Seamless hybrid deployment support



High-availability on global infrastructure

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5G on AWS – Key differentiators



Faster time to market



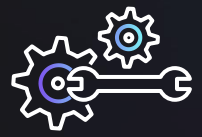
Rich native services



Robust partner network



Resiliency



Scalability and flexibility



Fully managed Kubernetes



Reusable automation constructs

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dish wireless

We’re reimagining connectivity through new platforms, new business models, and new ways of thinking to **meet the convergence of wireless, data analytics, AI, and the cloud** to reinvent the customer experience

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1

Create the right environment

2

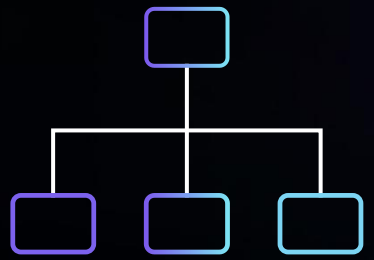
Simplify operations

3

Deliver the experience

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Visibility into your system is important









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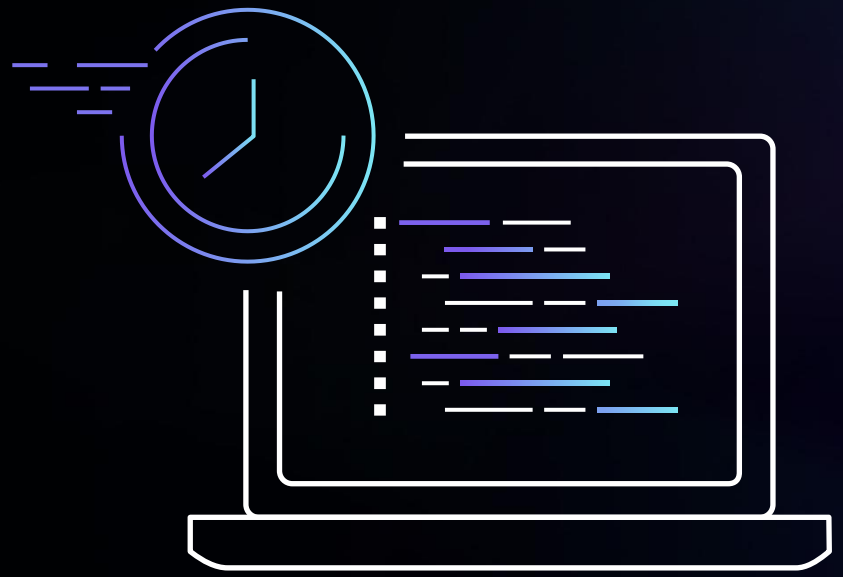
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Observe and monitor AWS resources and applications in the cloud and on premises



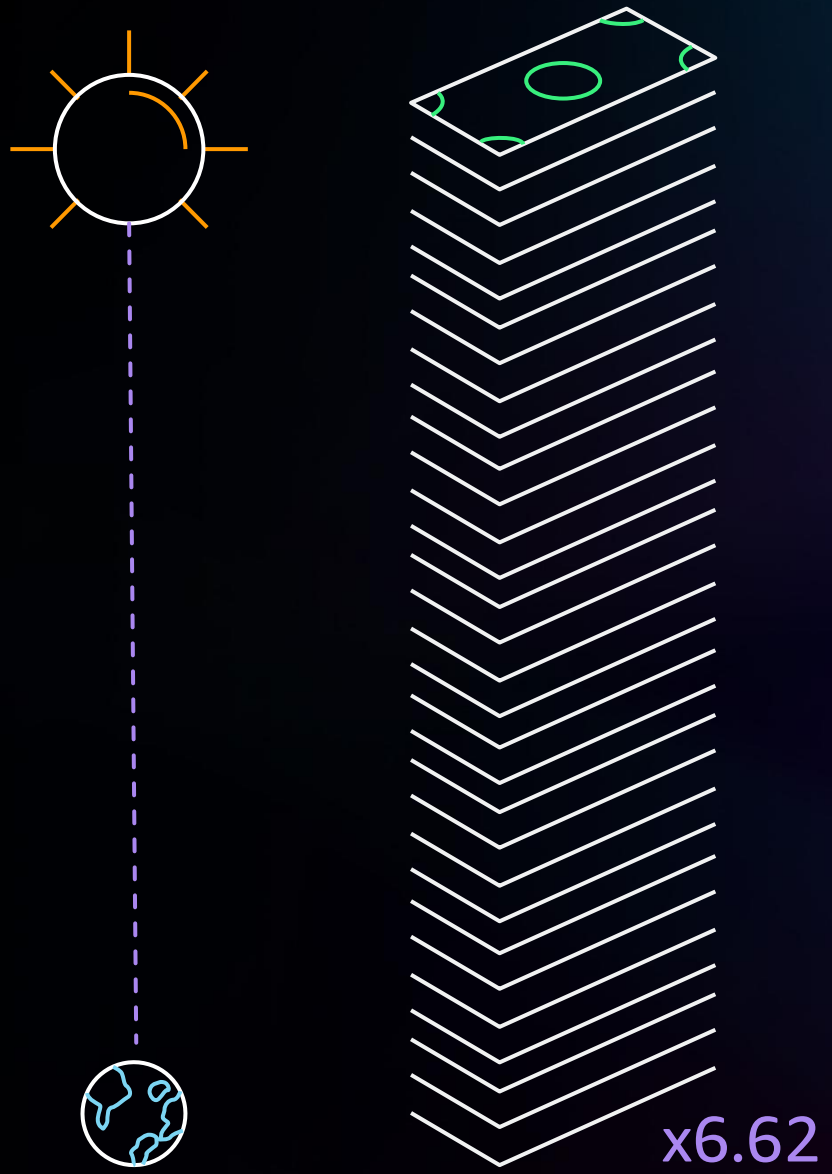
Amazon CloudWatch

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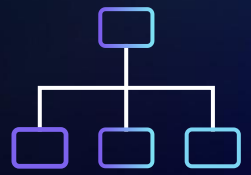
5 exabytes
of logs per month

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Amazon CloudWatch is used to monitor **9 quadrillion** metric observations per month

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NOW IN PREVIEW

Amazon CloudWatch Internet Monitor



Amazon CloudWatch

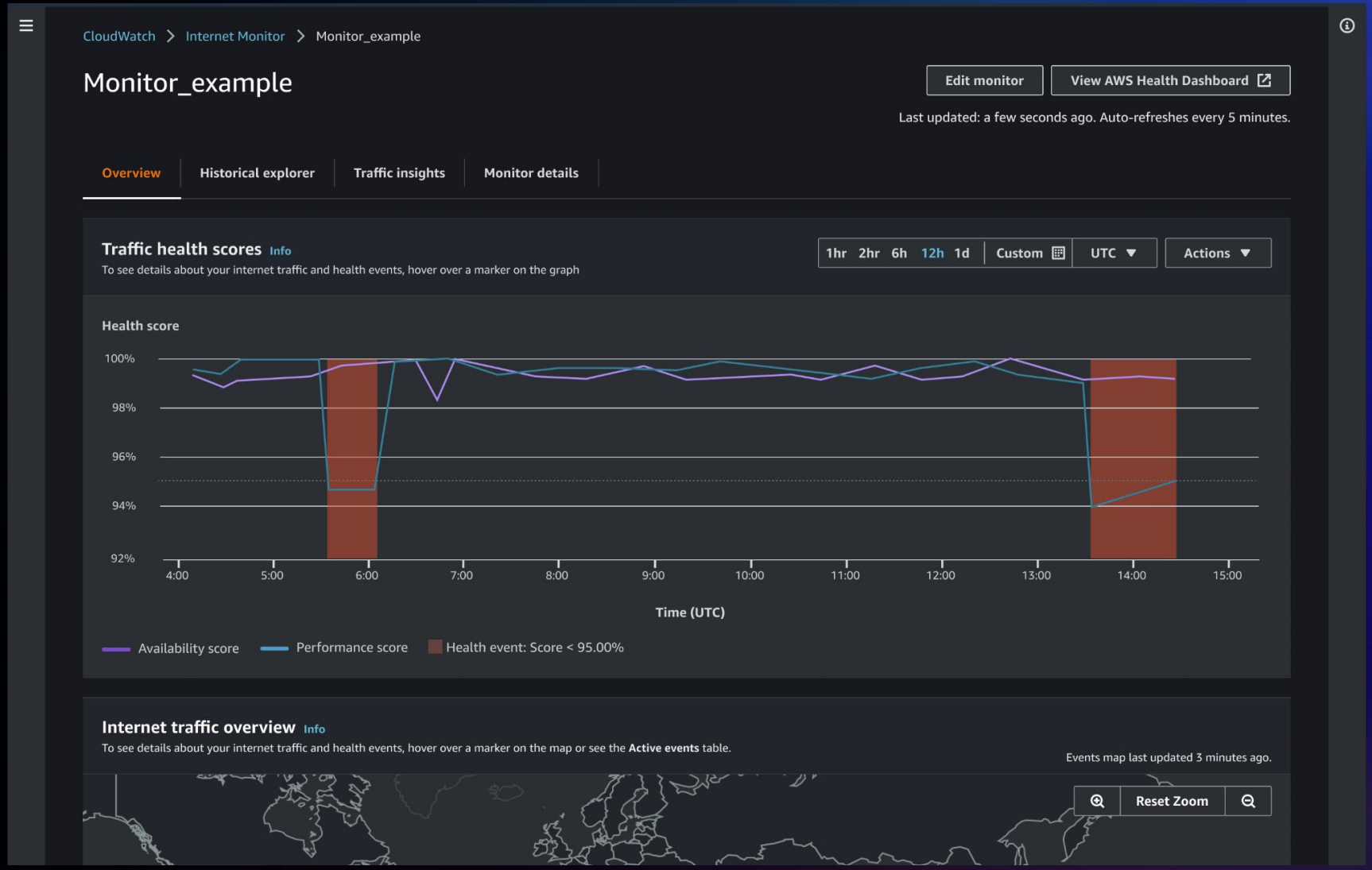
Diagnose and understand network issues

- Diagnose within minutes
- Identify cause of the internet performance issue
- Understand user impact

aws

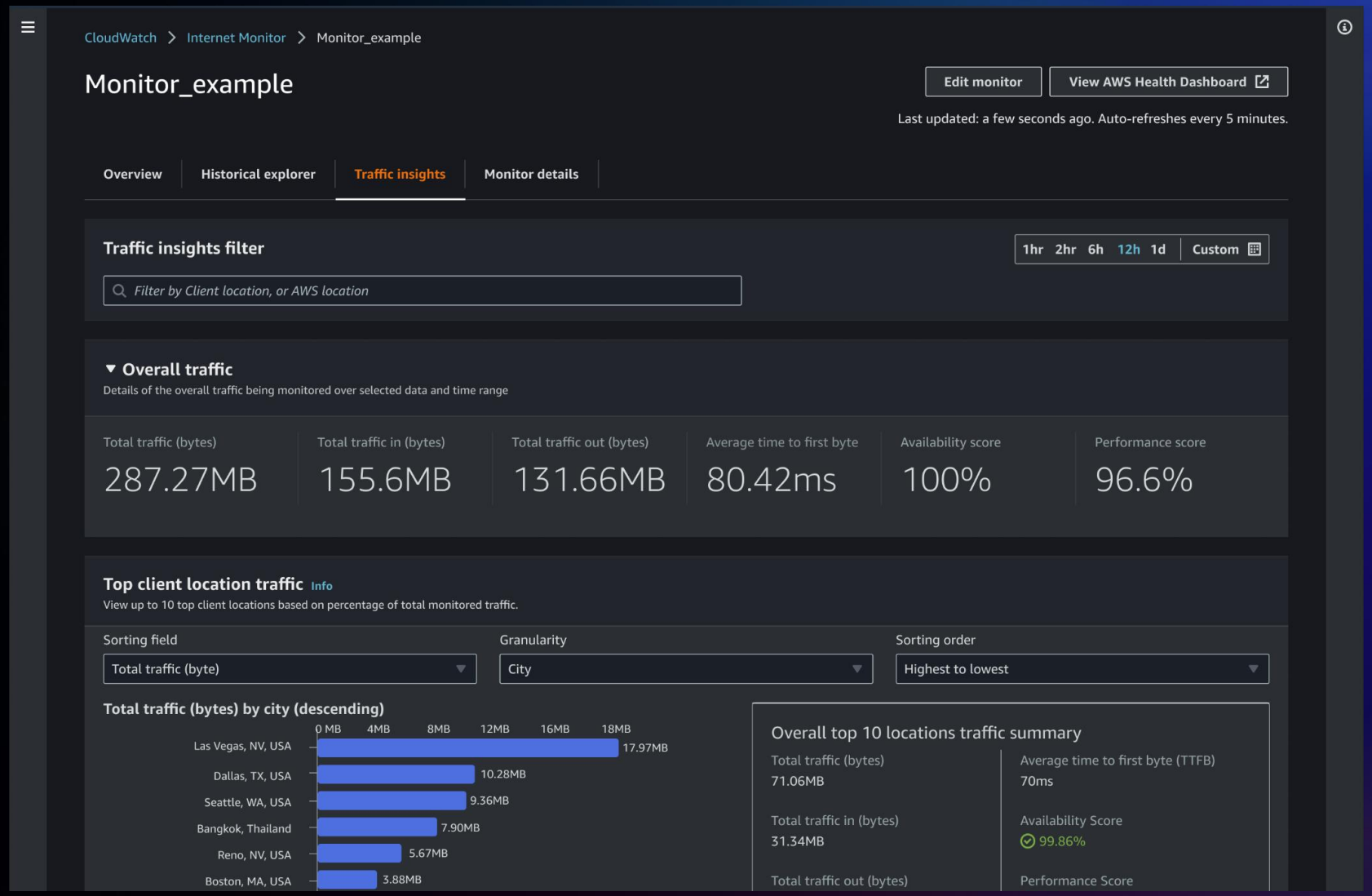
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Amazon CloudWatch Internet Monitor



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Amazon CloudWatch Internet Monitor



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You asked us for cross-account visibility

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NEW LAUNCH

Cross-account observability in Amazon CloudWatch



Amazon CloudWatch

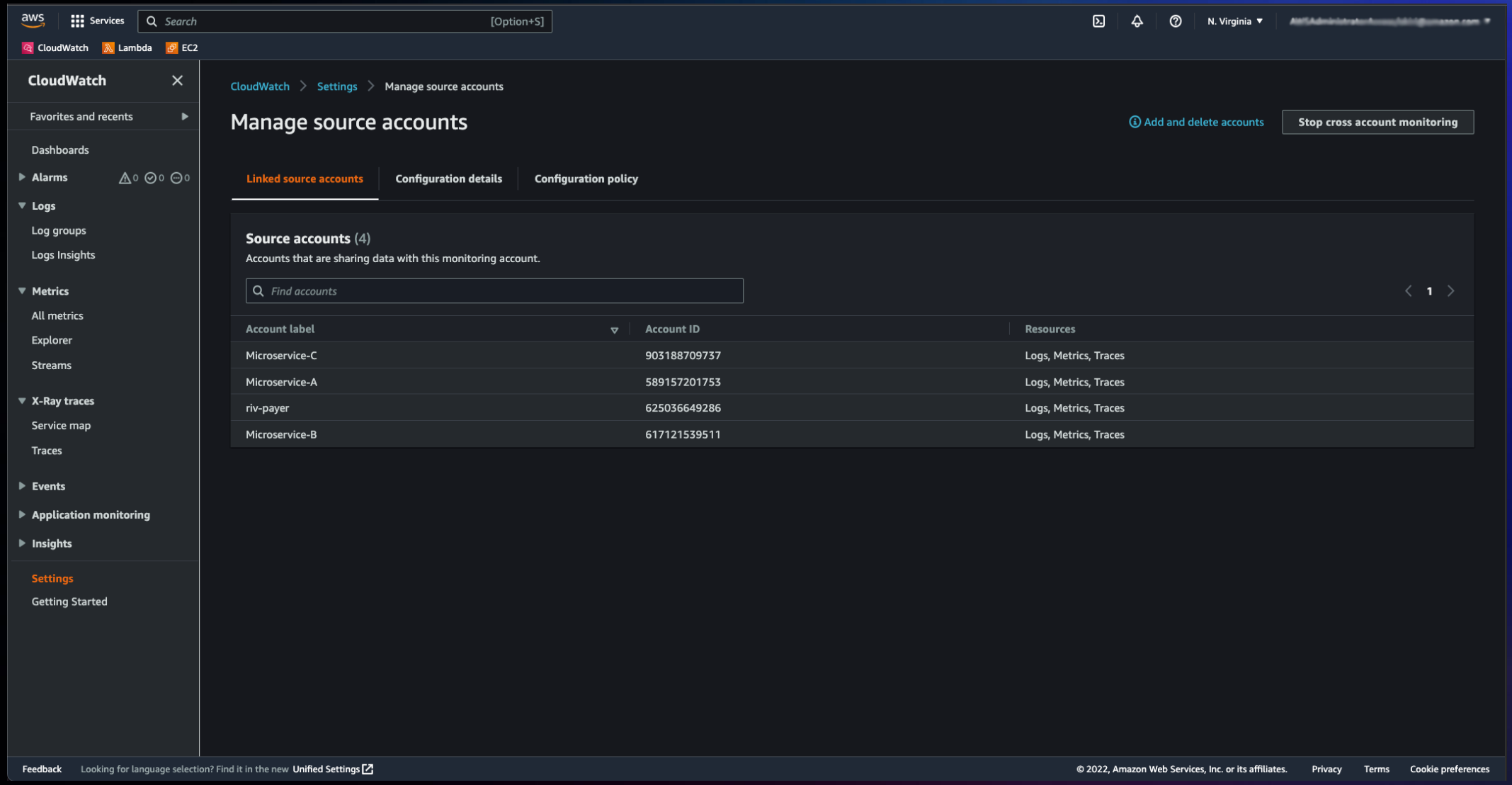
Monitor and troubleshoot apps across multiple accounts

- Cross-account telemetry
- Troubleshoot across multiple accounts
- Centralized view

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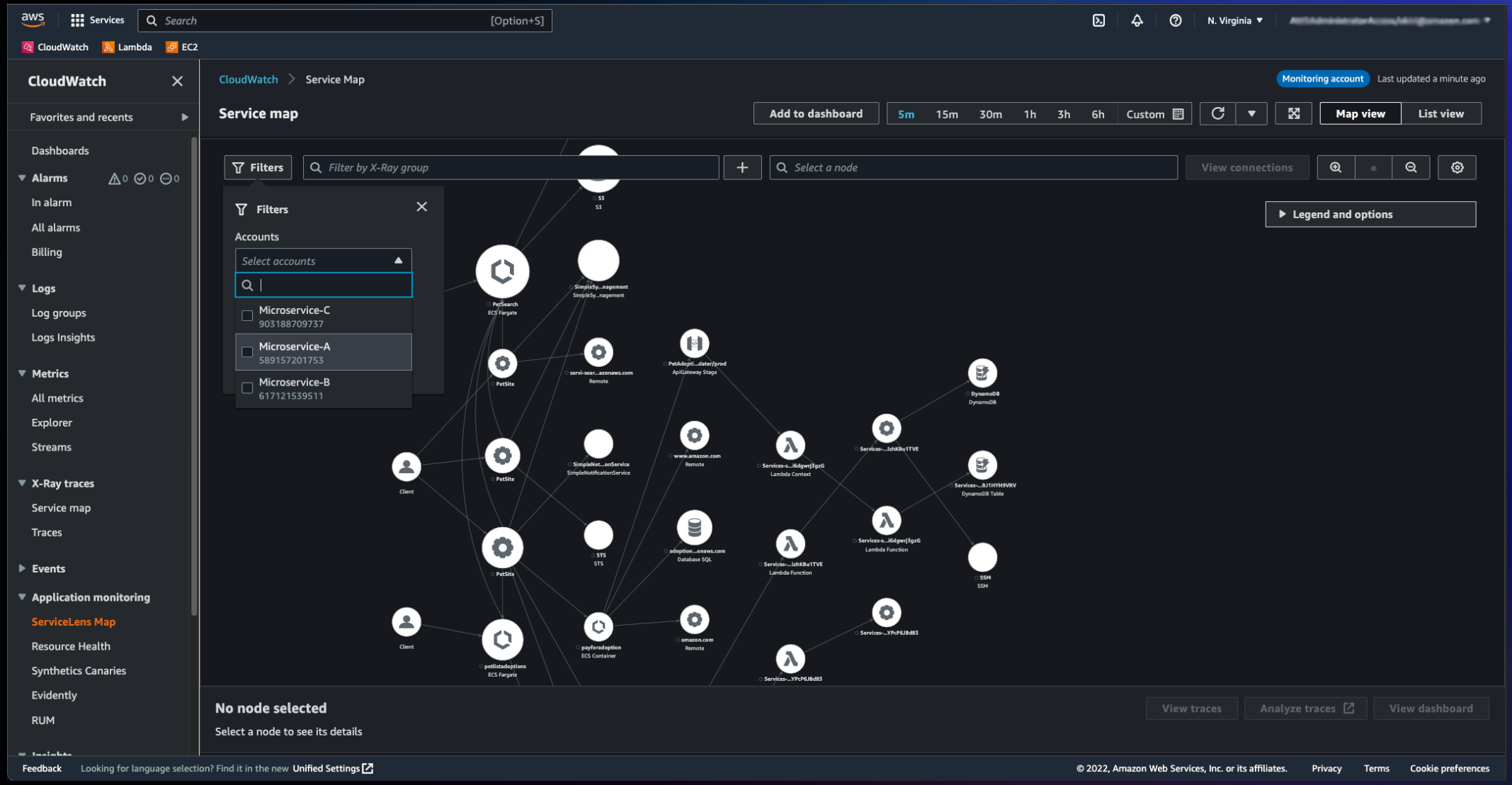
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Cross-account observability in Amazon CloudWatch



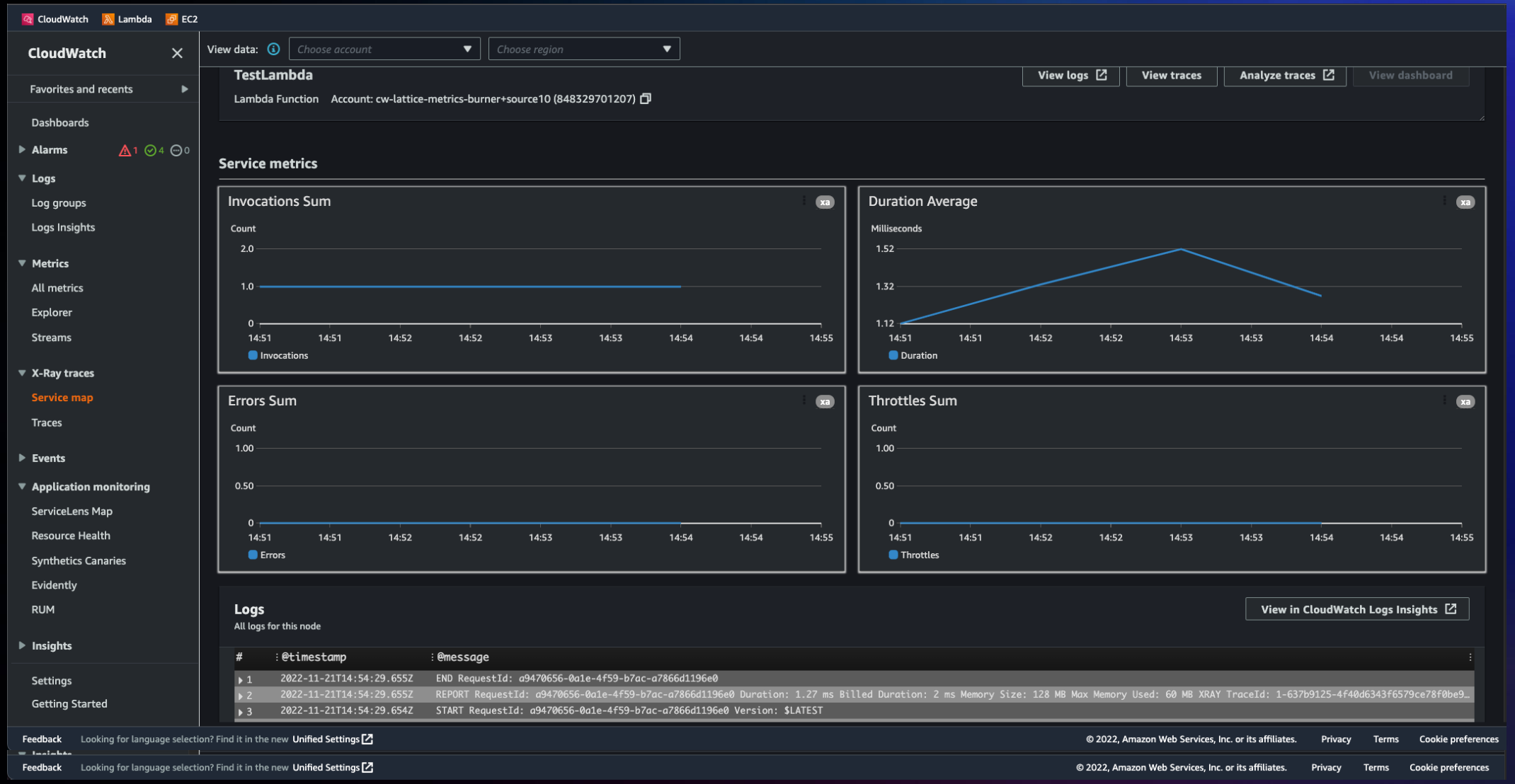
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Cross-account observability in Amazon CloudWatch



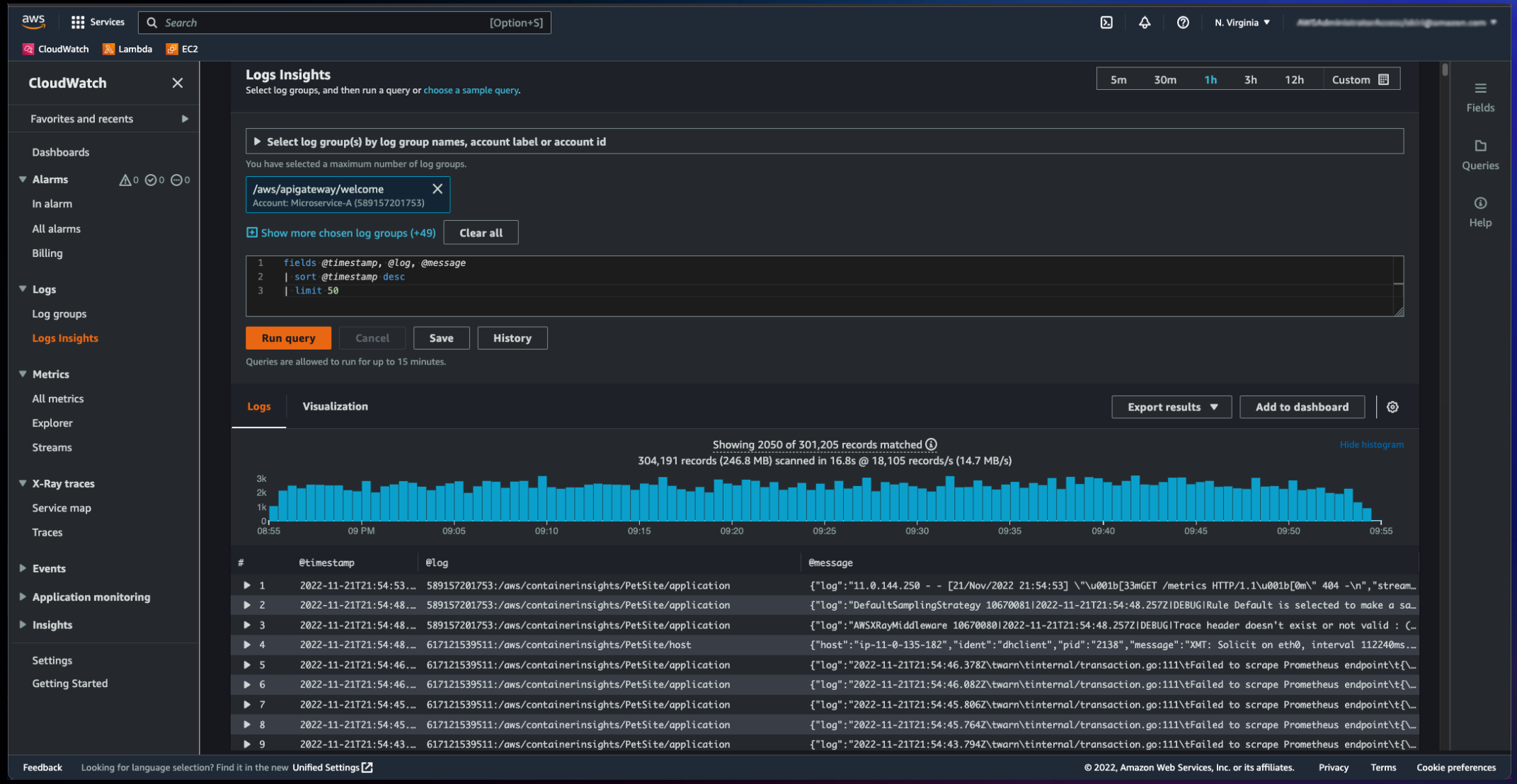
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Cross-account observability in Amazon CloudWatch



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Cross-account observability in Amazon CloudWatch



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You asked us to protect and encrypt data in logs

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NEW LAUNCH

Data protection of logs in Amazon CloudWatch



Amazon CloudWatch

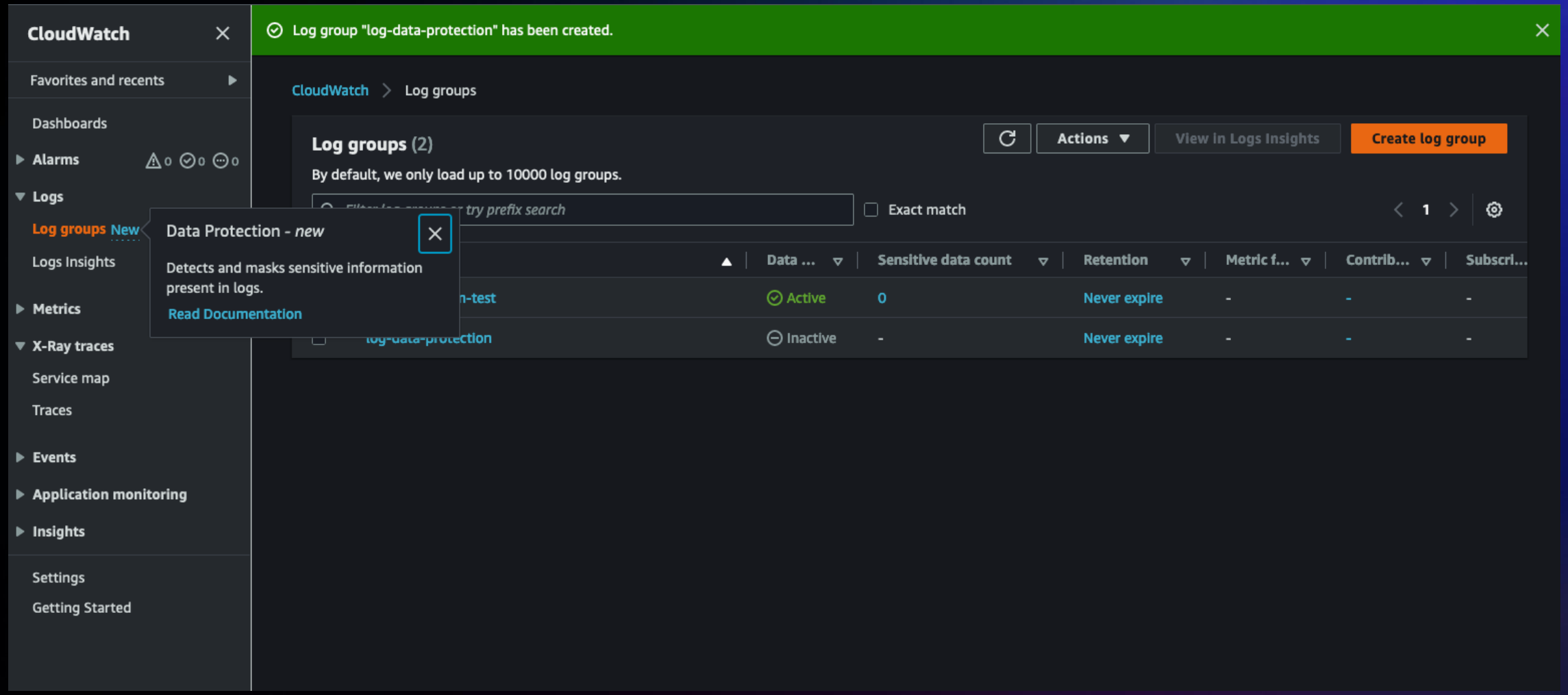
Automatically and accurately identify and mask sensitive information in logs

- Pattern matching and machine learning
- No custom solutions needed
- Reduce risks

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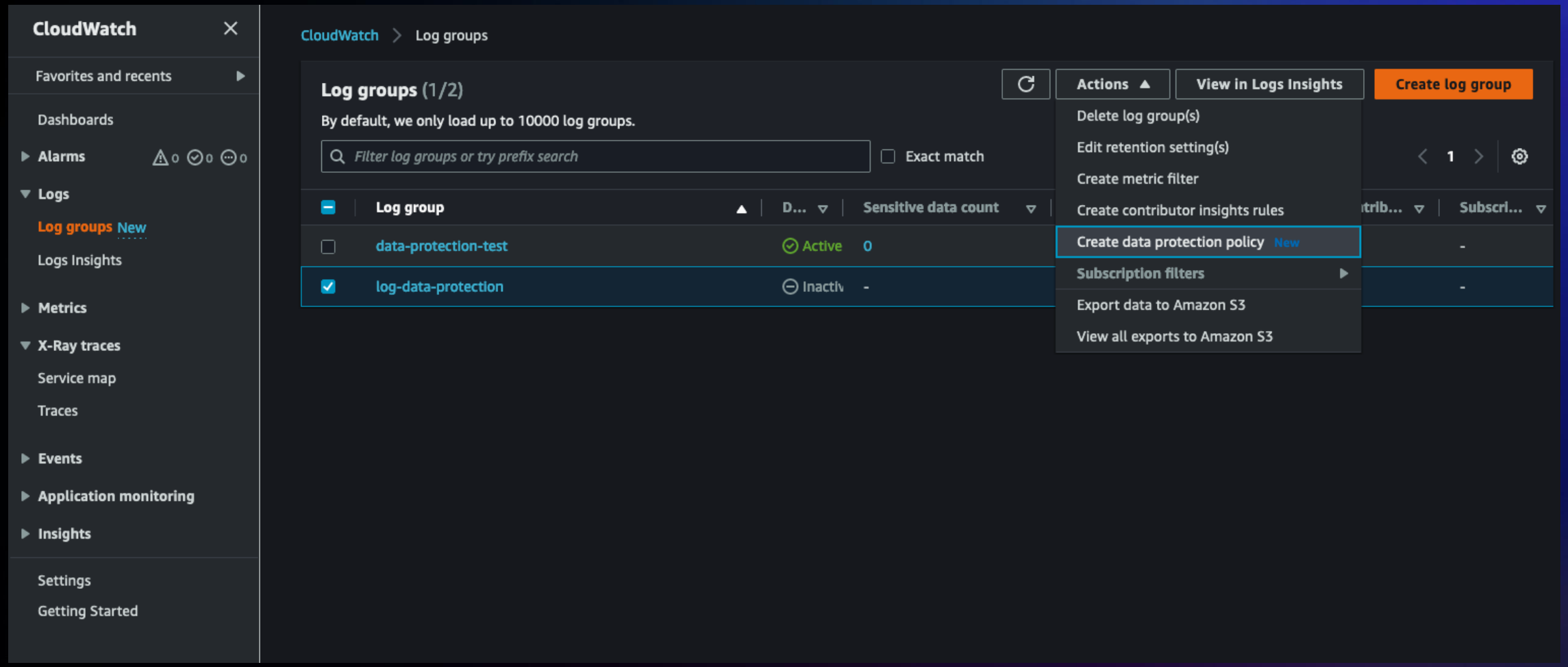
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Data protection of logs in Amazon CloudWatch



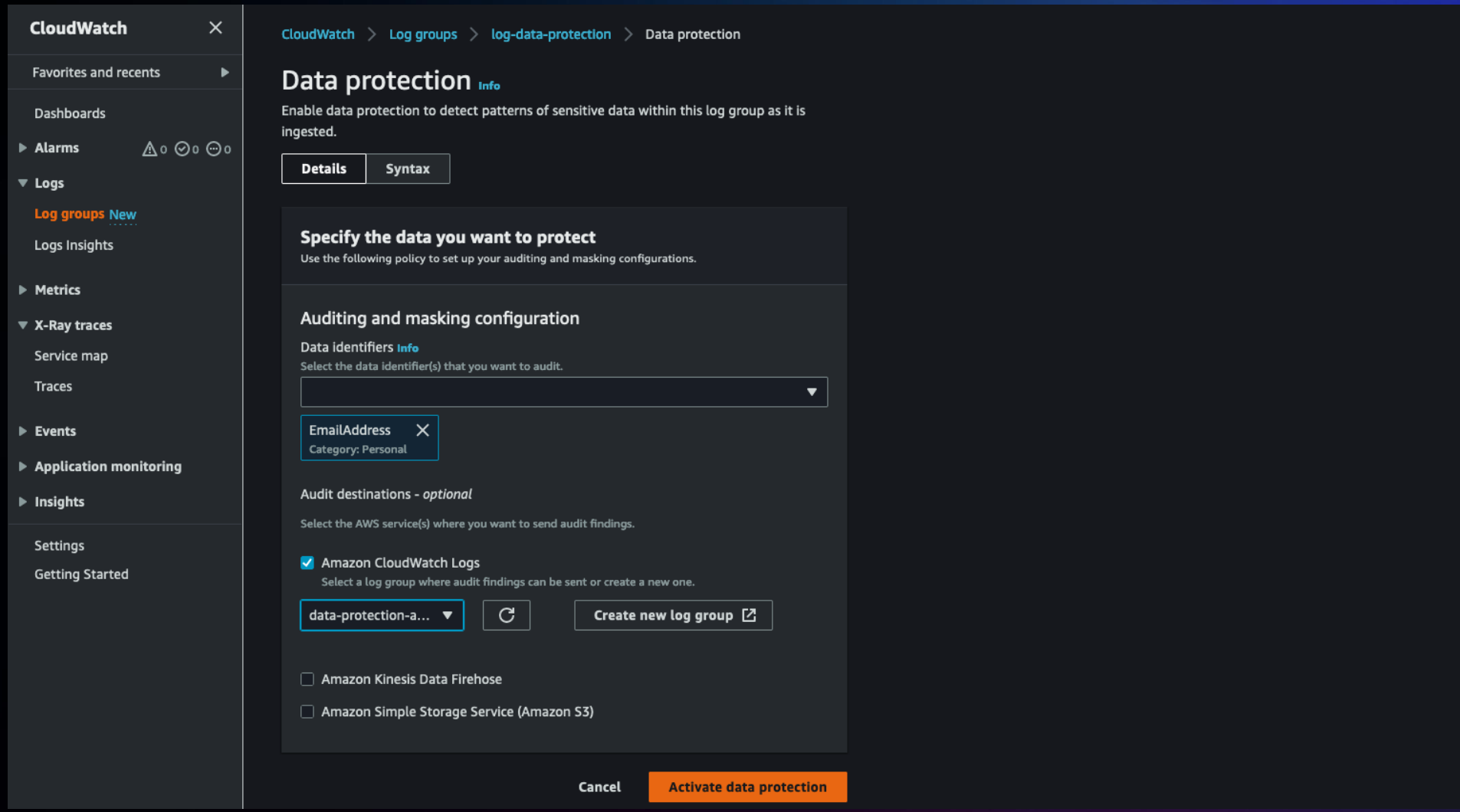
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Data protection of logs in Amazon CloudWatch



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Data protection of logs in Amazon CloudWatch



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VPC support and Prometheus alerting in Amazon Managed Grafana



Connect and view all of your data sources and Prometheus alerts in one place

- Securely connect Grafana to all of your public and private data sources in VPCs
- A single-pane-of-glass view
- Visualize Prometheus alerts in one place

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200 million
active metrics in a single workspace



Amazon Managed Service for Prometheus

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Operate securely and safely at cloud scale

1

Create the right environment

2

Simplify operations

3

Deliver the experience

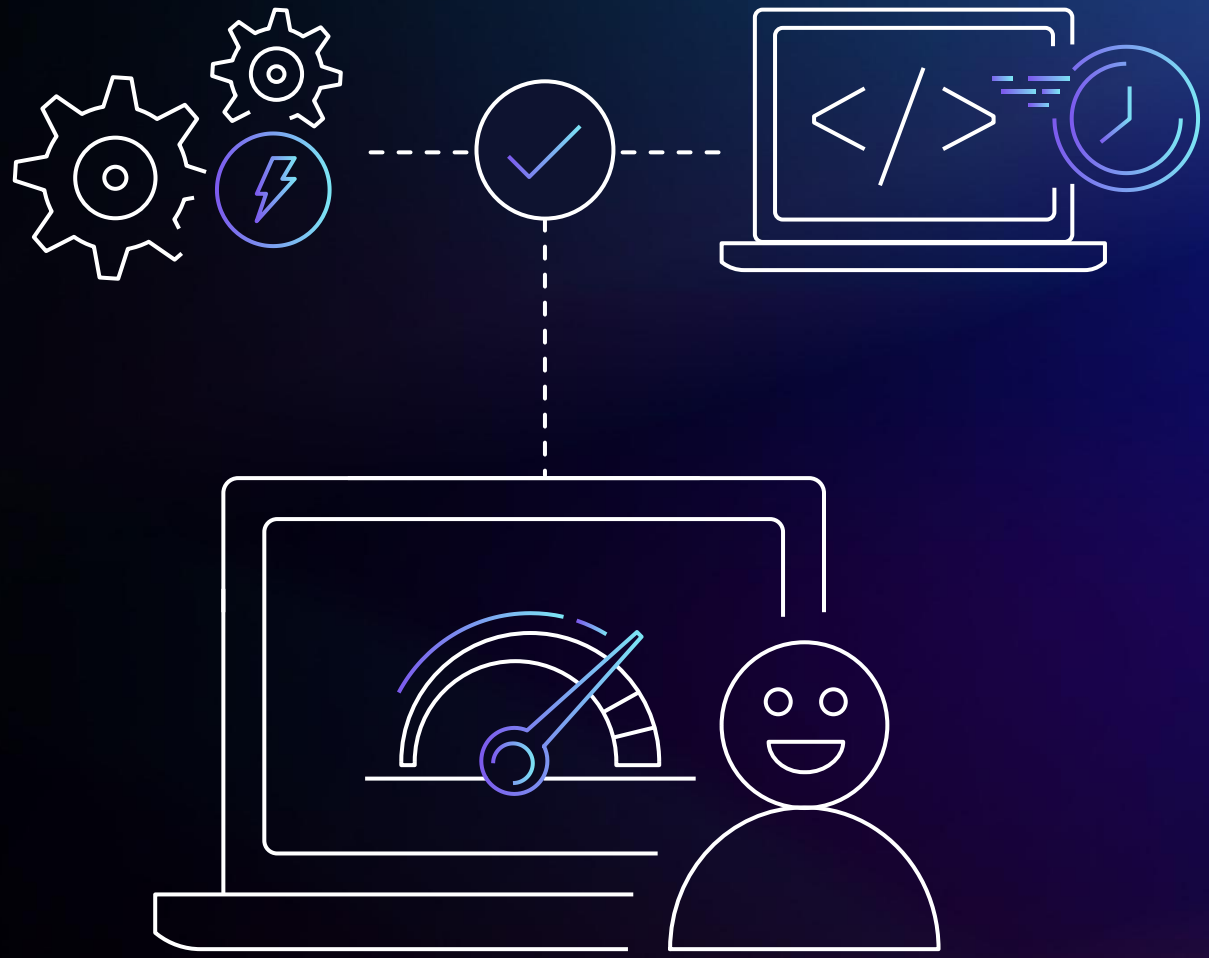
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Get started with AWS Cloud Operations



1. Check out our sessions
2. Visit our AWS Cloud Operations and AWS Observability booths

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