



# Boost your IT operational expertise with AIOps

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# Today's Agenda

- DevOps in 2022
- AIOps: Insights into apps and infrastructure
- Amazon DevOps Guru
- Next Steps

# Pace of business is accelerating

Business markets are changing at an accelerated rate

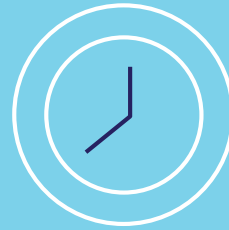
Agility



Elasticity



Faster  
innovation



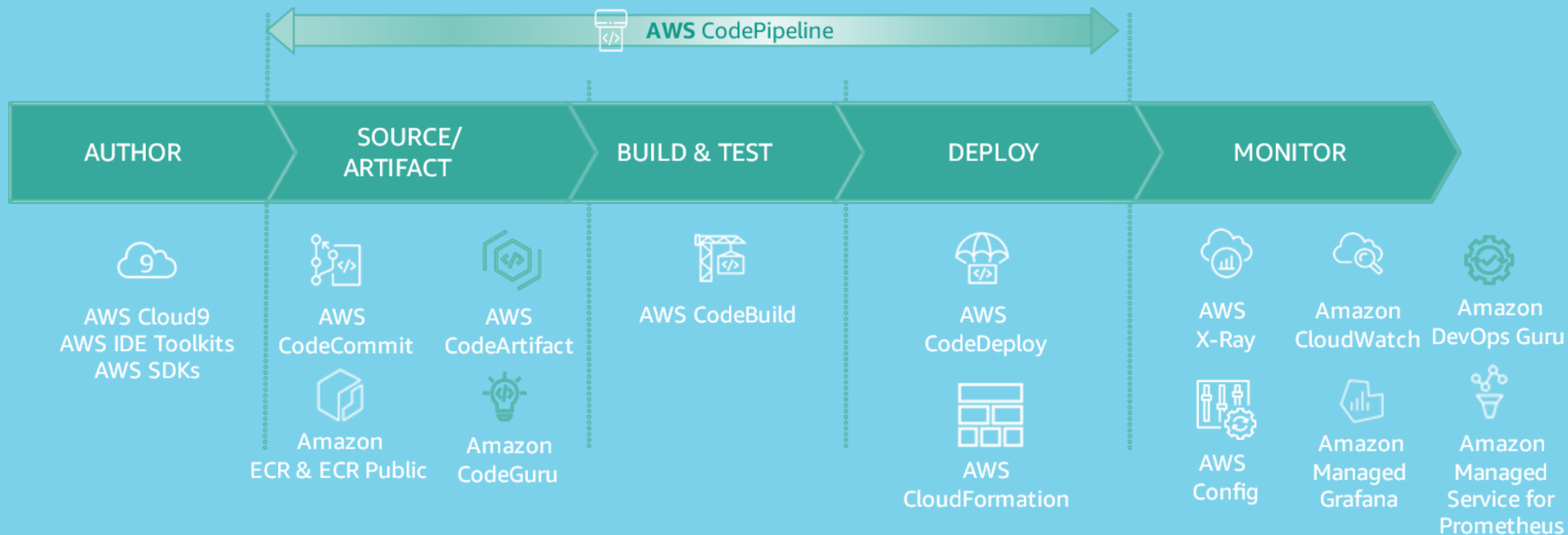
Cost  
savings



All require operations to keep up

# DevOps trends in 2022

- Shift Towards serverless computing
- DevSecOps – ShiftLeft
- AI-driven DevOps



A world map with a light blue background and dark blue landmasses. The map is centered on the Atlantic Ocean, showing North and South America on the left, Europe and Africa in the center, and Asia and Australia on the right. A semi-transparent white rectangular box is overlaid in the center of the map, containing the main text.

**To make DevOps data actionable by 2023, 40% of enterprises will embrace AI/ML to improve efficiency, remote collaboration, and execution**

# Key challenges

## Operational challenges at scale



Data volumes are large and disparate



When an issue occurs, users spend a lot of time and effort manually correlating across data sources and tools



As new services are adopted, deep DevOps/CloudOps expertise is required to configure new alarms and monitoring procedures



Alarms and notifications from multiple tools cause alarm fatigue and an inability to identify the most critical issue

# AIOps: Insights into apps and infrastructure

## Monitoring and Observability

### CloudWatch Service Lens

*Container Insights*

*Lambda Insights*

*Synthetics*

*Contributor insights*



CloudWatch metrics



CloudWatch logs



AWS X-Ray



Amazon Managed Service for Prometheus



Amazon OpenSearch Service

Custom-built dashboards; data correlation, collection, configurations, etc.



Amazon Managed Grafana

Insights and ML



CloudWatch agent



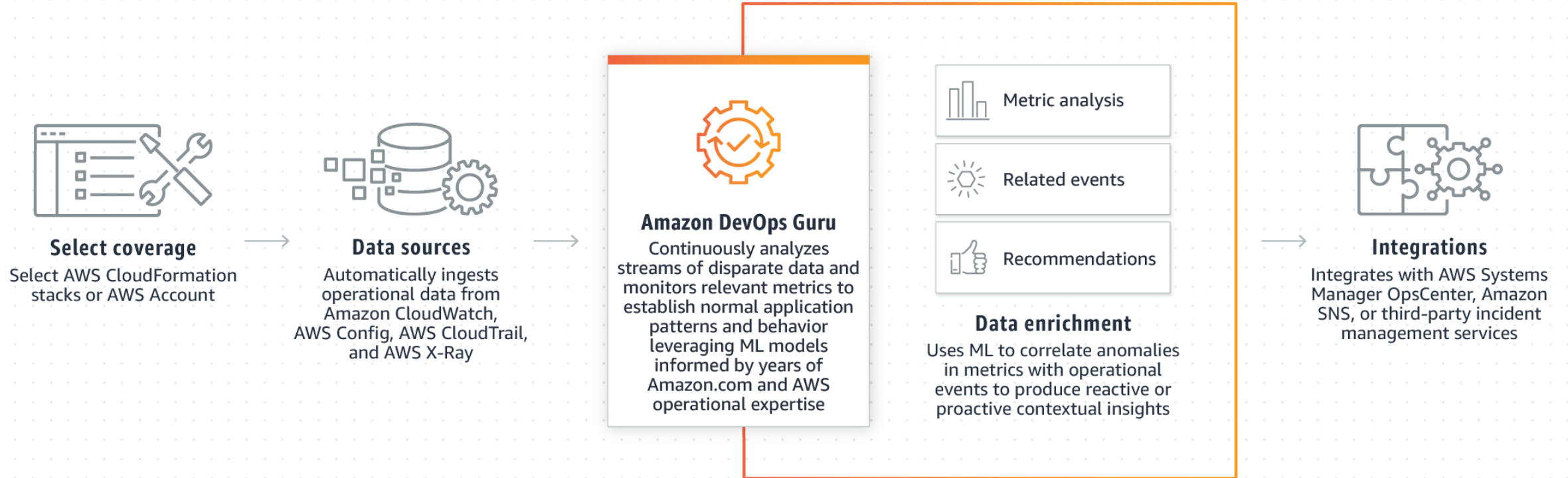
X-ray agent

## Instrumentation



AWS Distro for Open Telemetry

# AIOps: Amazon DevOps Guru





# Amazon DevOps Guru



## Easy to set-up and easy-to-use



- No configuration required. No ML knowledge needed

## Auto detect operational issues



- Continuously analyzes streams of disparate data and metrics to determine application behavior using ML

## Quick resolution



- Gathers relevant data together; metrics, event logs, and recommendations

## Reduce noise



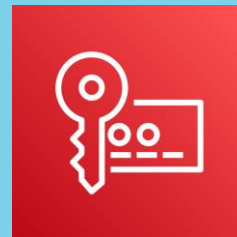
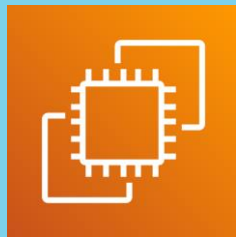
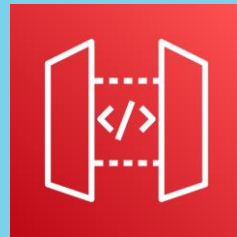
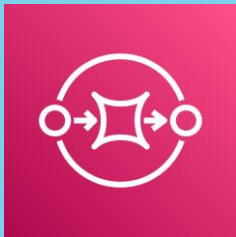
- Helps alarm fatigue by automatically calibrating notifications and grouping related anomalies

## Automatically scales



- Easily scales and maintains availability as new AWS workloads are added

# Supported AWS Services

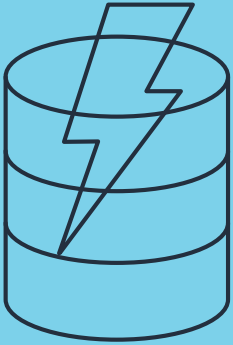


# New: Amazon DevOps Guru for RDS



- Detect and diagnose RDS database performance bottlenecks and operational issues
- Reduce time to resolution from days to minutes
- Natively integrate with AWS services to automatically receive notifications

# Amazon DevOps Guru for RDS: How it works



Aurora +  
Performance Insights



Metrics  
Ingestion



Anomaly Metric  
Analysis



Amazon DevOps  
Guru

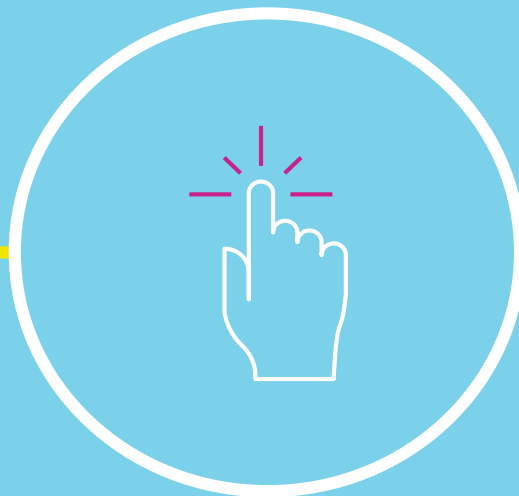


# Demo

# How to get started and what's next?



Find us in  
the AWS  
Console



Free  
Trial



# Thank you!