

The logo for the AWS Summit. It features the word "aws" in a lowercase, sans-serif font, with a white curved arrow underneath it pointing from the 'a' to the 's'. To the right of this is the word "SUMMIT" in a larger, uppercase, sans-serif font. The entire logo is white and set against a dark blue background.

aws SUMMIT

SAN FRANCISCO | APRIL 20-21, 2022

AIM305

Implement an AIOps solution for your serverless applications

Jonathan Vogel
Developer Advocate
AWS

David Ernst
Sr. Specialist Solutions Architect, DevOps
AWS



Agenda

Challenges with operations

Modernizing IT operations

AIOps

Amazon DevOps Guru

Use cases

Demo

What's next?

Challenges in IT operations



Alarm fatigue

Lack of information

Information overload

Data correlation

DATA COLLECTION

Apps
produce ...



metrics, logs,
and traces ...

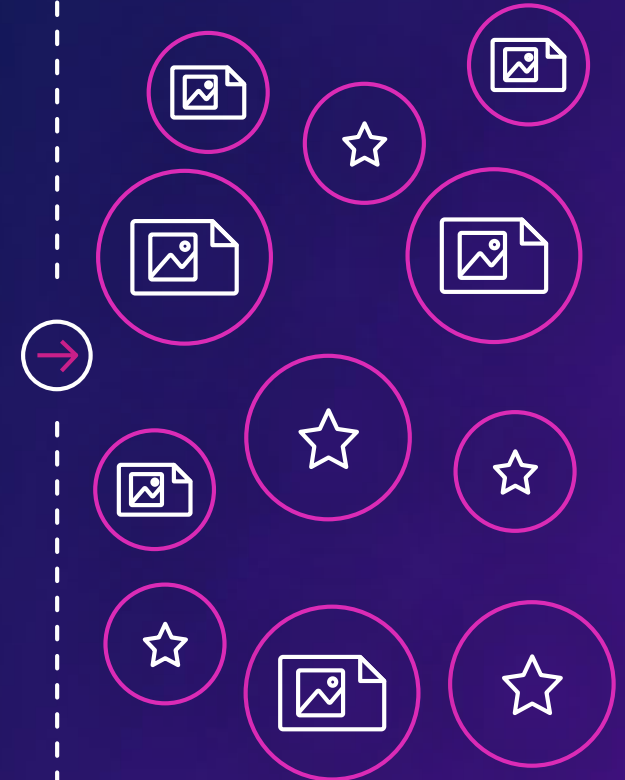


PROCESS INTEGRATION

requiring alarms and
dashboards ...



to create tickets
and notifications



Applying AI/ML to modernize ITOps



“To make DevOps data actionable by 2023, 70% of enterprises will embrace ML, AI...to improve efficiency, remote collaboration, and execution.”

Source: IDC FutureScape: Worldwide Developer and DevOps 2021 Predictions, Doc #US46417220, October 2020

With AI Ops

APPLICATIONS



DATA COLLECTION



Metrics

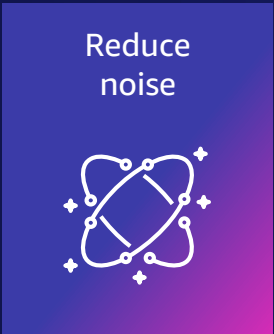


Logs



Traces

AIOPS



PROCESS INTEGRATION



Notifications



Tickets



Automation

- Amazon SNS
- AWS Systems Manager OpsCenter
- Amazon EventBridge

AI Ops with AWS

NOTIFICATION AND DASHBOARD



DATA STORE



Amazon
CloudWatch metrics

AWS
CloudTrail

AWS
X-Ray

AWS
Config

Amazon RDS
PI

INPUT SIGNALS

Instance contents

CloudWatch
agent



AI Ops with AWS

NOTIFICATION
AND DASHBOARD



AI AND ML
INSIGHTS



Amazon DevOps Guru

DATA
STORE



Amazon
CloudWatch metrics



AWS
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INPUT
SIGNALS



Instance contents



CloudWatch
agent



DevOps Guru



Easy to use

No configuration or ML experience required



Auto-detect operational issues

DevOps Guru continuously analyzes streams of disparate data and metrics to determine application behavior



Quick resolution

Helps to resolve issues quickly with ML-powered insights and recommendations



Scalable

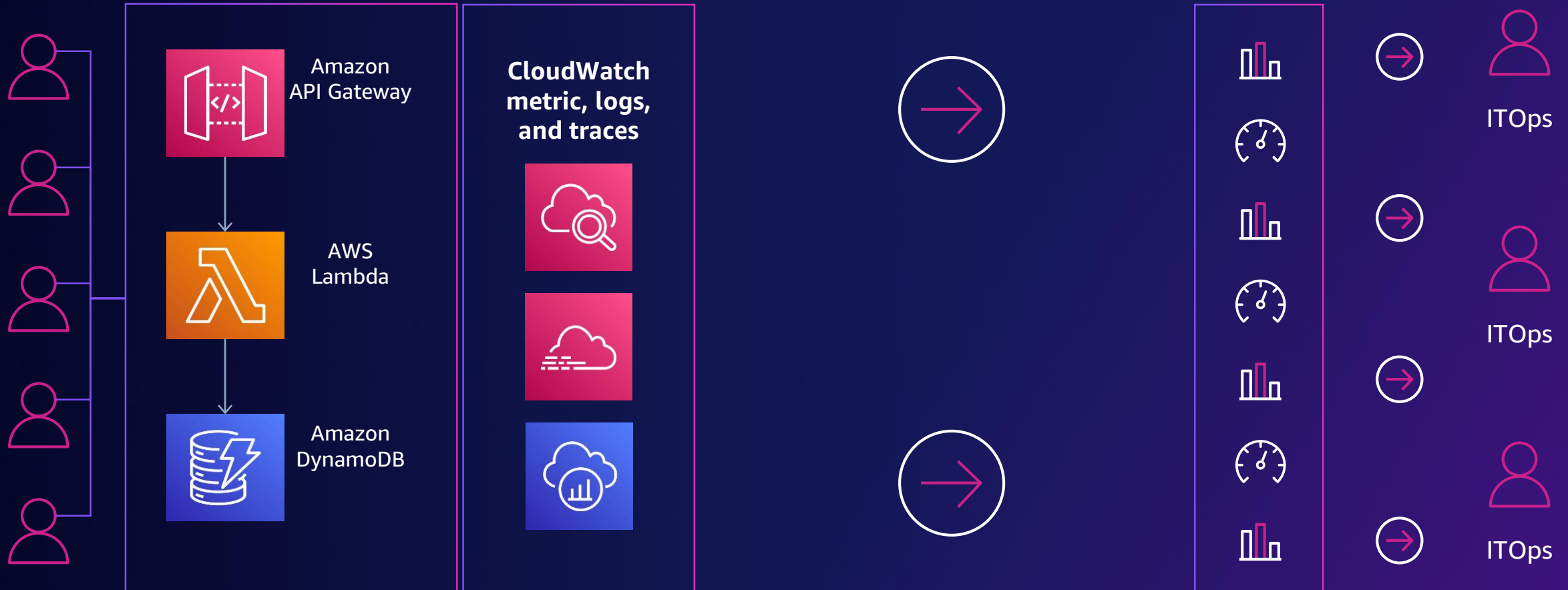
Easily scales and maintains availability as new AWS workloads are added



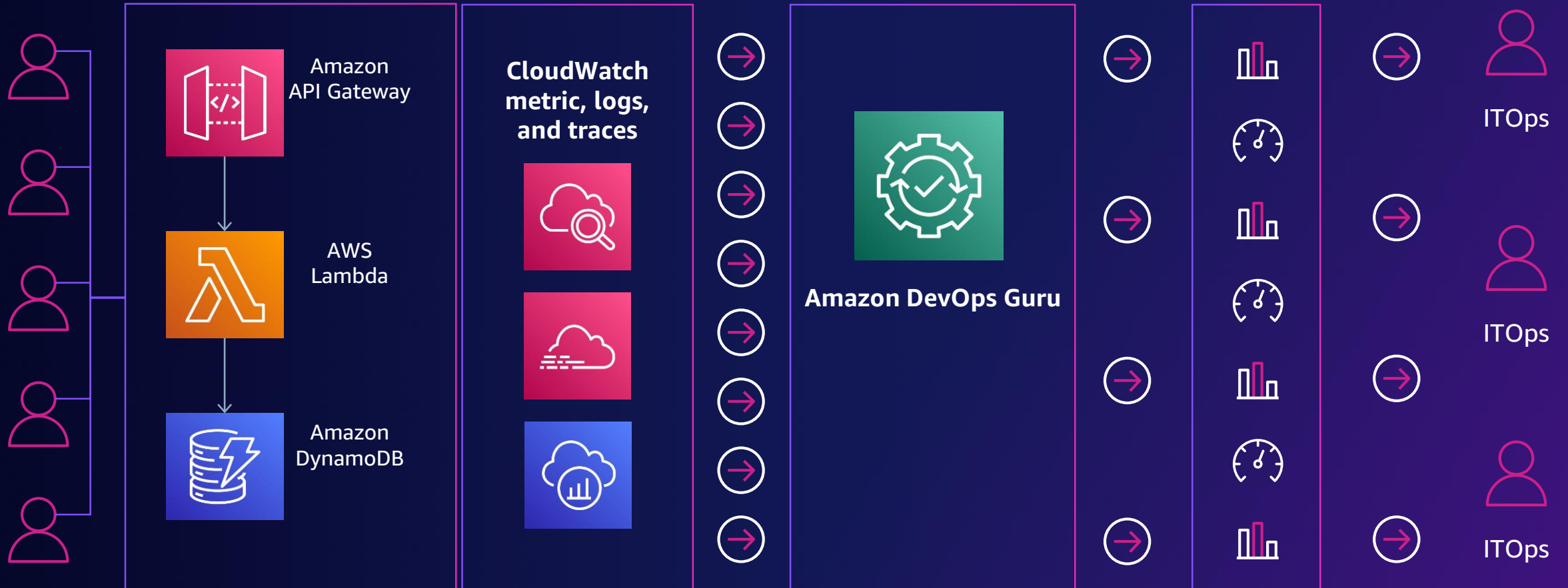
Reduce noise

Helps overcome alarm fatigue by automatically correlating and grouping related anomalies

Typical use cases: Serverless



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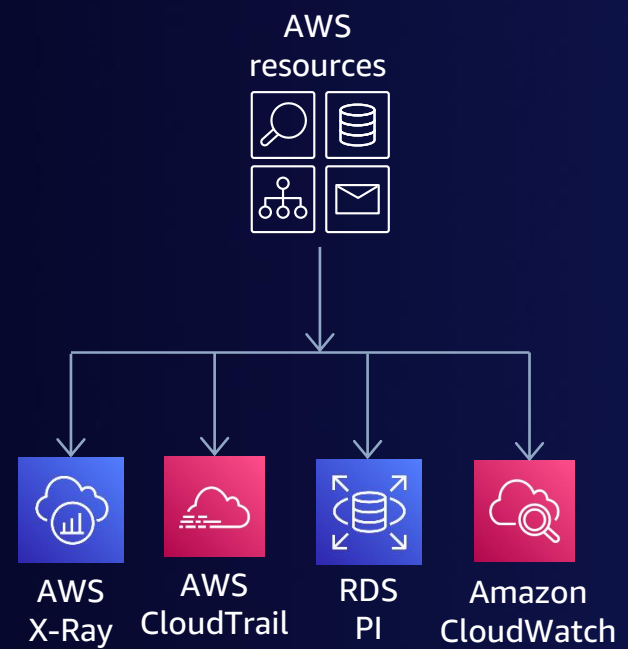


How does it work

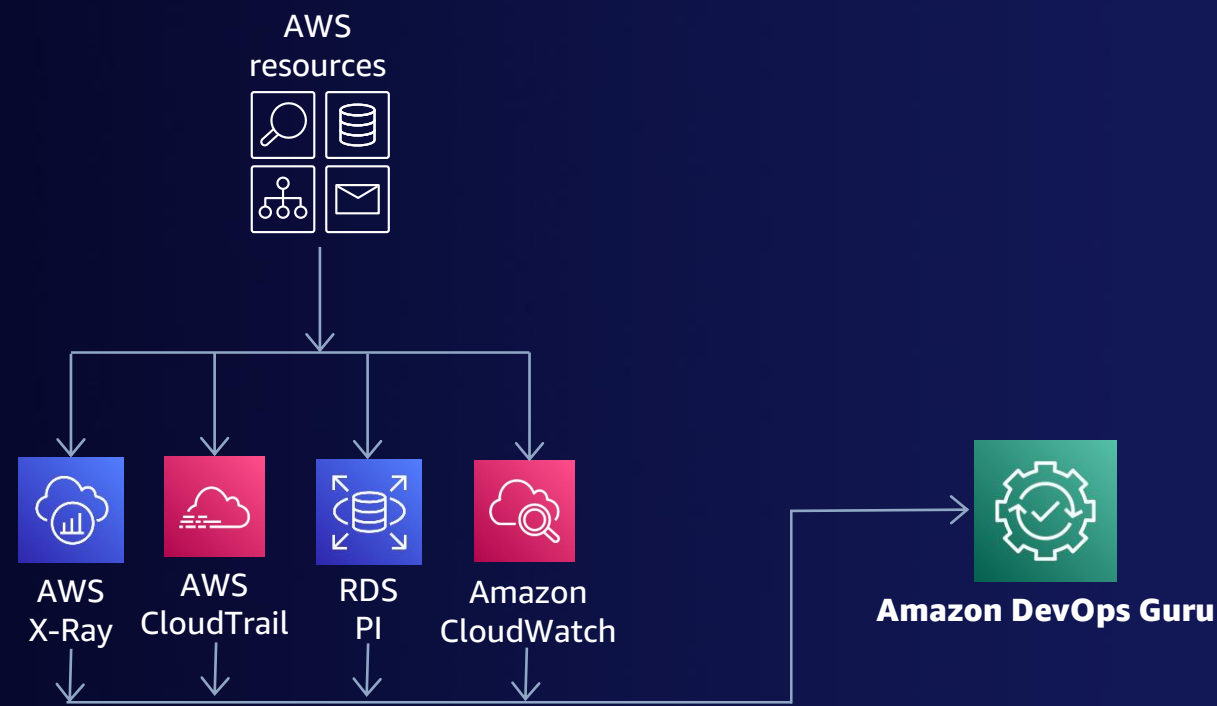
AWS
resources



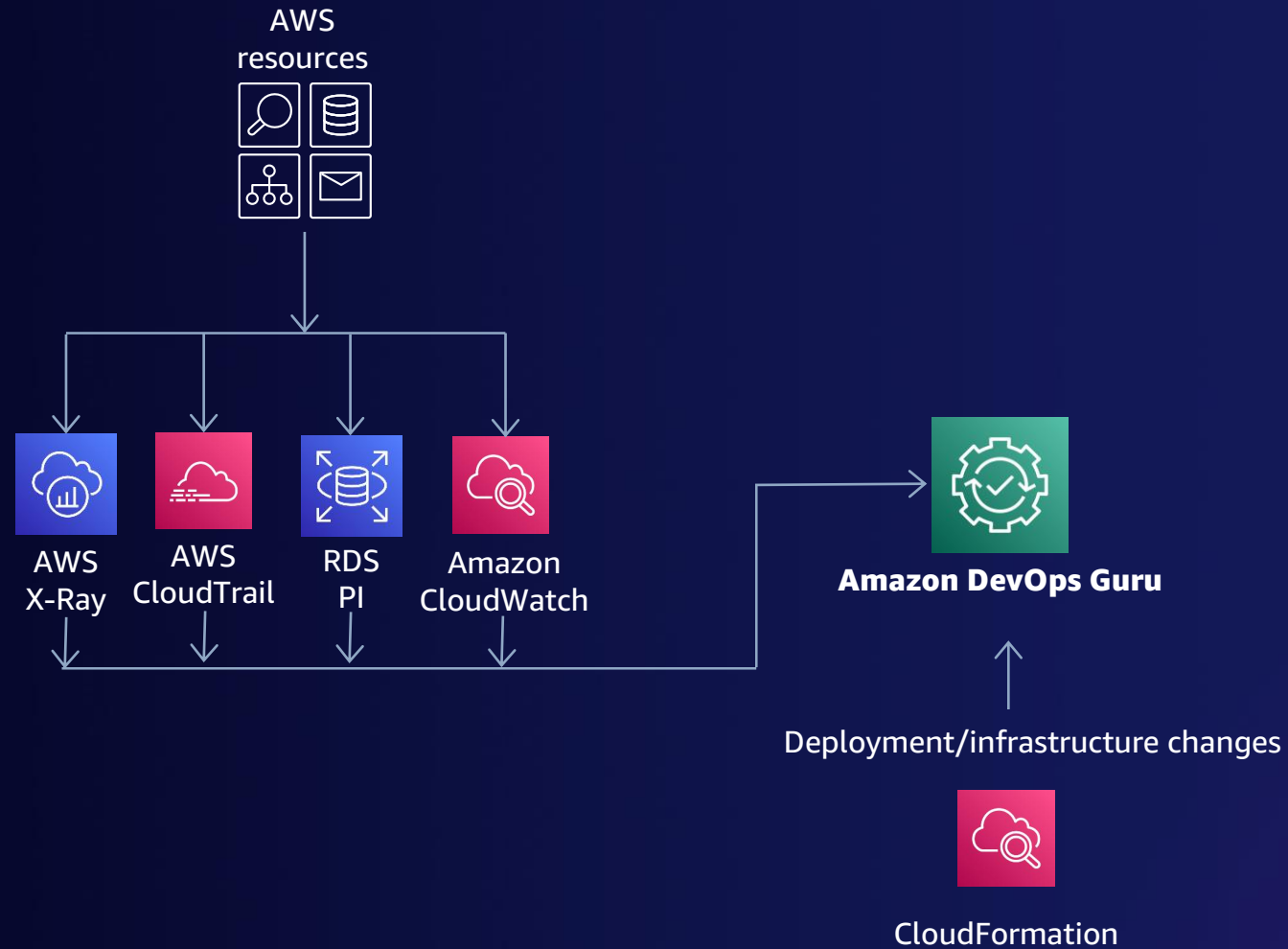
How does it work



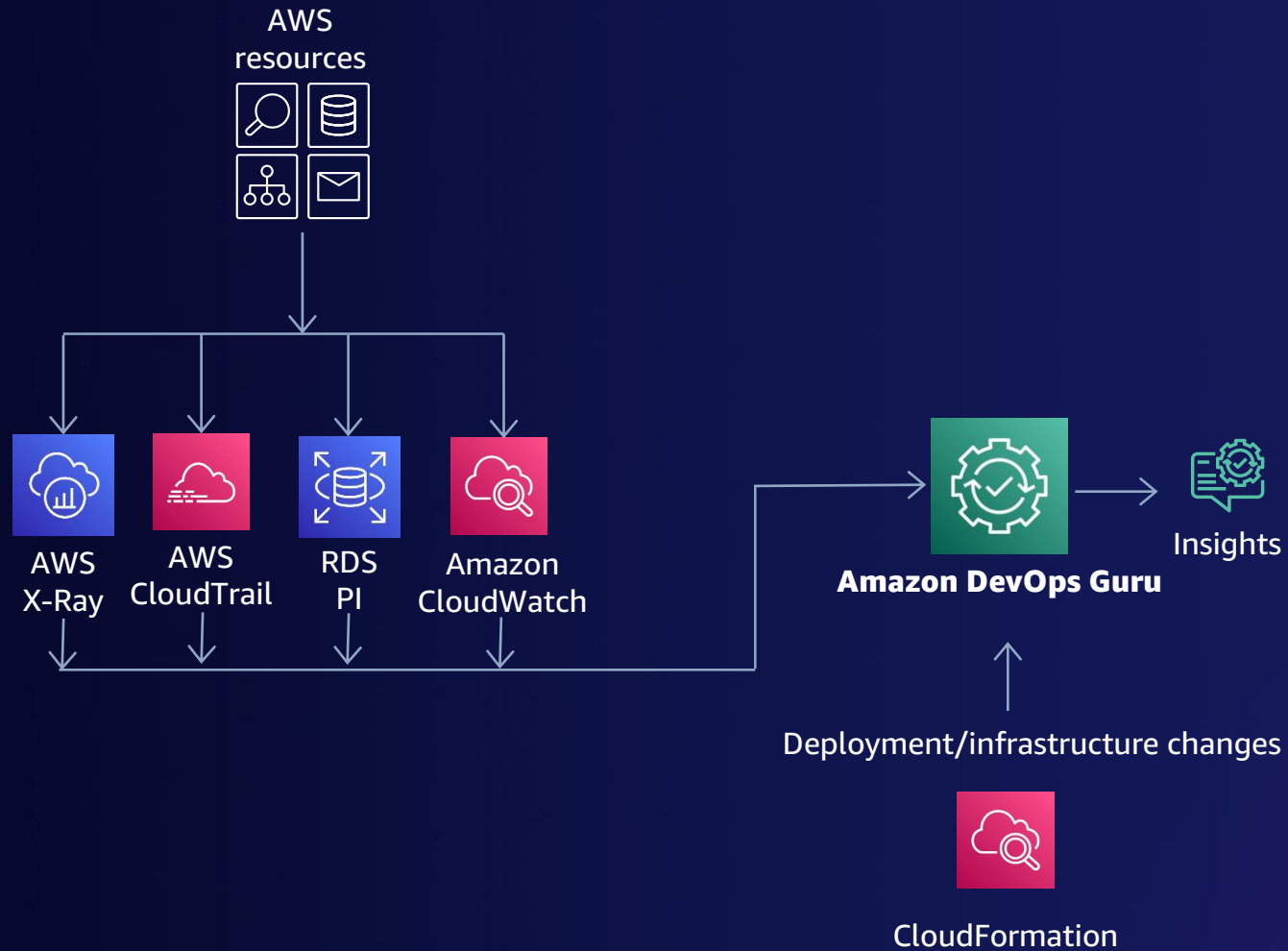
How does it work



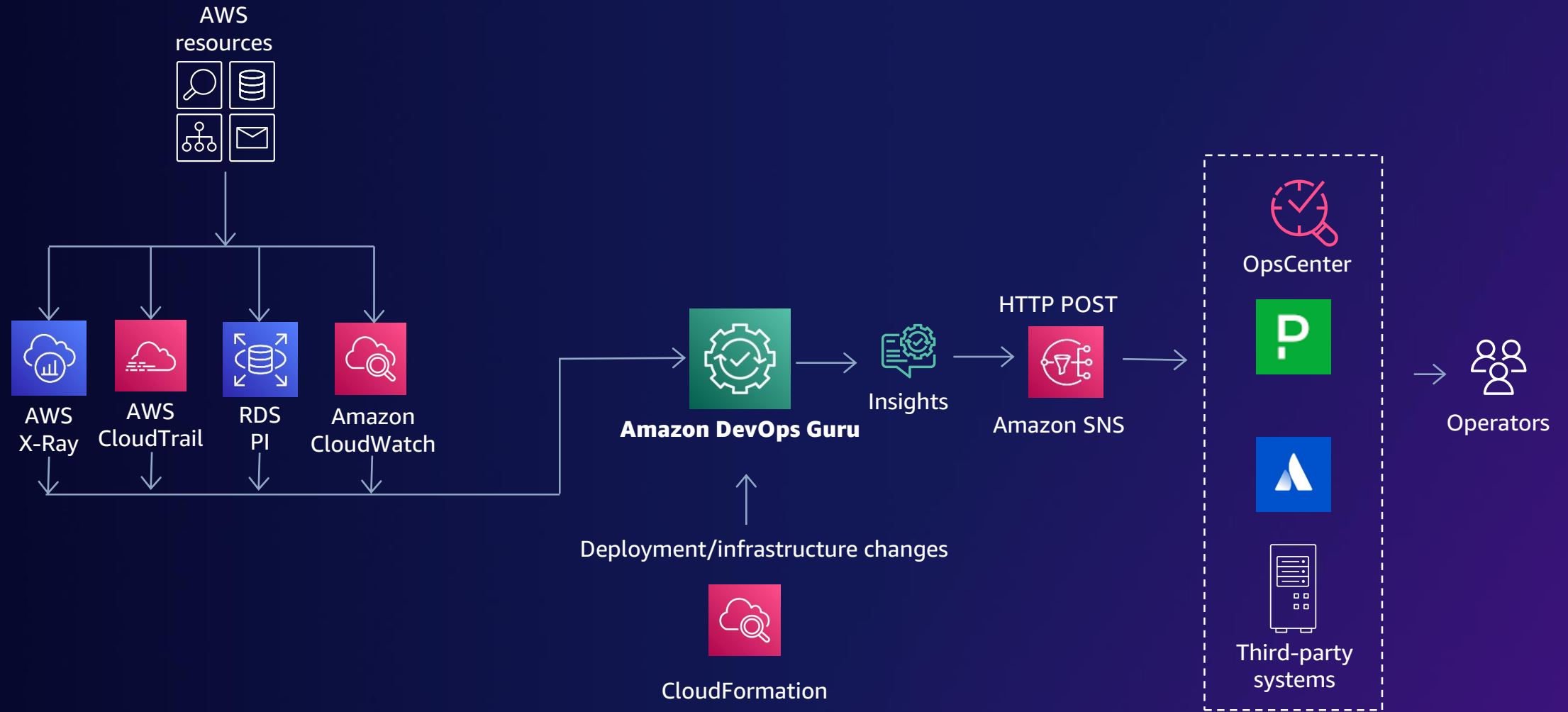
How does it work



How does it work



How does it work

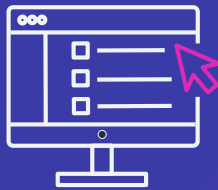


How do you enable Amazon DevOps Guru?

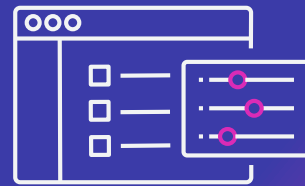
What's next?



Identify
a critical
workload



Enable
Amazon
DevOps Guru



Baselining



View
insights

Call to action

- Register for the Boost Your Serverless Application Availability with AIOps on AWS interactive workshop
- May 10, 9 AM PDT



Thank you!

Jonathan Vogel

Developer Advocate

linkedin.com/in/jonathan-vogel-sw/

vogejona@amazon.com

AWS

David Ernst

Sr. Specialist Solutions Architect, DevOps

linkedin.com/in/davidmernst/

dmernst@amazon.com

AWS

