Amazon DevOps Guru

ML-powered cloud operations service to improve application availability

IT Operations Today

Centralized IT

Global IT

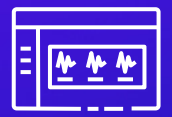
Team/App-based IT

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

Introducing Amazon DevOps Guru

ML-powered cloud operations service to improve application availability

DevOps Guru is an ML-powered service that makes it easy for developers and operators to automatically detect issues to improve application availability and reduce expensive downtime—no machine learning experience required.

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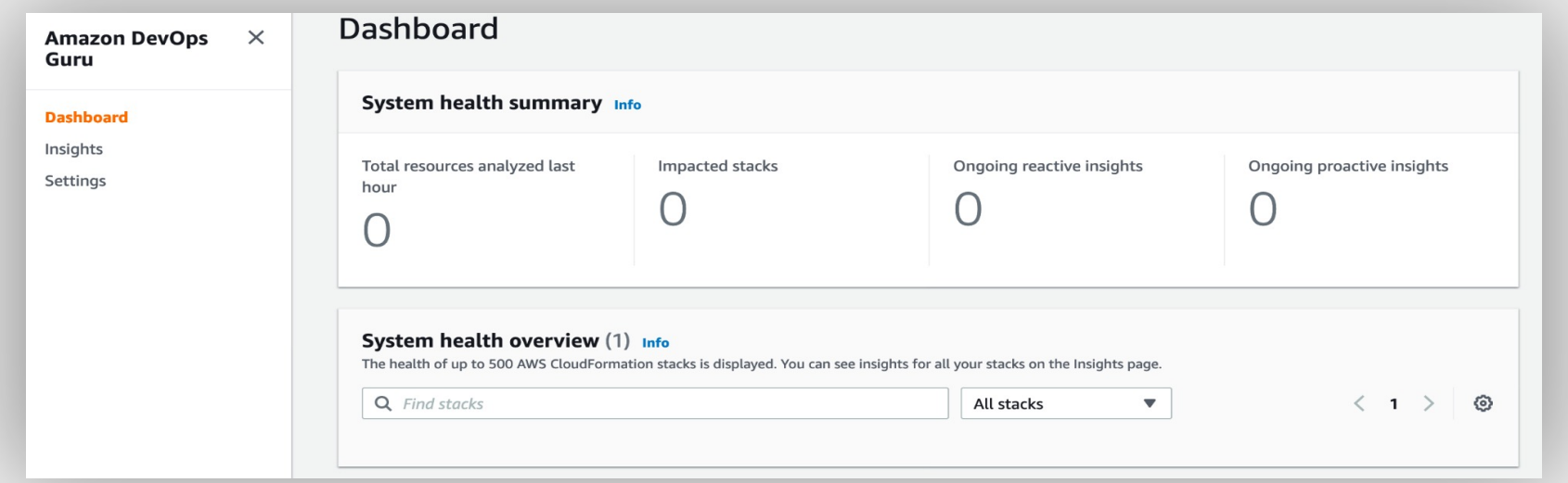
Enabling operations team—DevOps Guru

Goal: enable operators to reach cause quickly



- Offloads operators from setting alarms, thresholds
- Prevent generation of tons of alarms
- Prescribed guidance via insights

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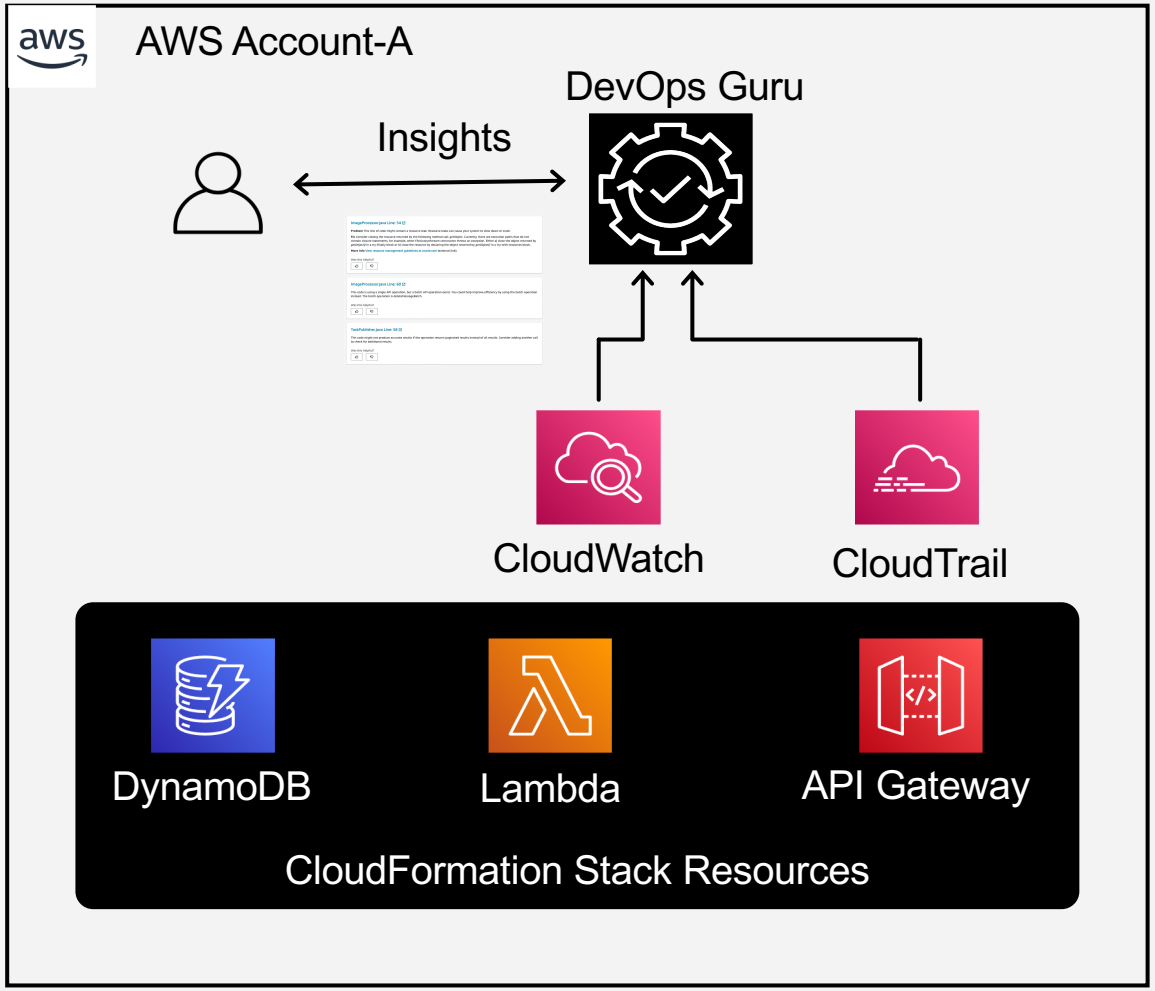
How does it work—DevOps Guru



Monitor vended CW metrics

Use ML to detect anomalies

Corelate with events

Construct recommendations

Generate insights

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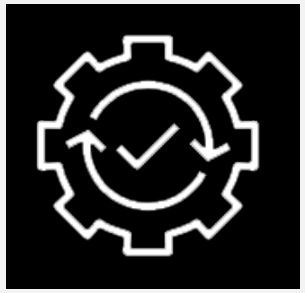
Why Amazon DevOps Guru?



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

Amazon DevOps Guru

Leverage Amazon DevOps Guru's machine learning capabilities

- Detect high-severity incidents anomalies and eliminates noise
- Correlates relevant metric anomalies, traces, changes, and log events triggered by incidents
- Surfaces incidents with contextual data
- Identifies probable root causes
- Helps resolve issues faster

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Integration with incident management tools

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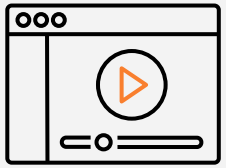
DEMO

Next Steps

HOW CAN I TRY?



https://console.aws.amazon.com/codeguru/devops-guru

FREE TIER: If signed before 12/21:

First 3 Months

- Analysis of 7200 AWS resource hours
- 10,000 DevOps Guru API calls per month

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Thank you!

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TECHINCAL ACCOUNT MANAGER, AWS