



INNOVATE

DATA AND AI/ML EDITION

22 February 2023

Improving performance and availability of serverless applications with AI/ML operations

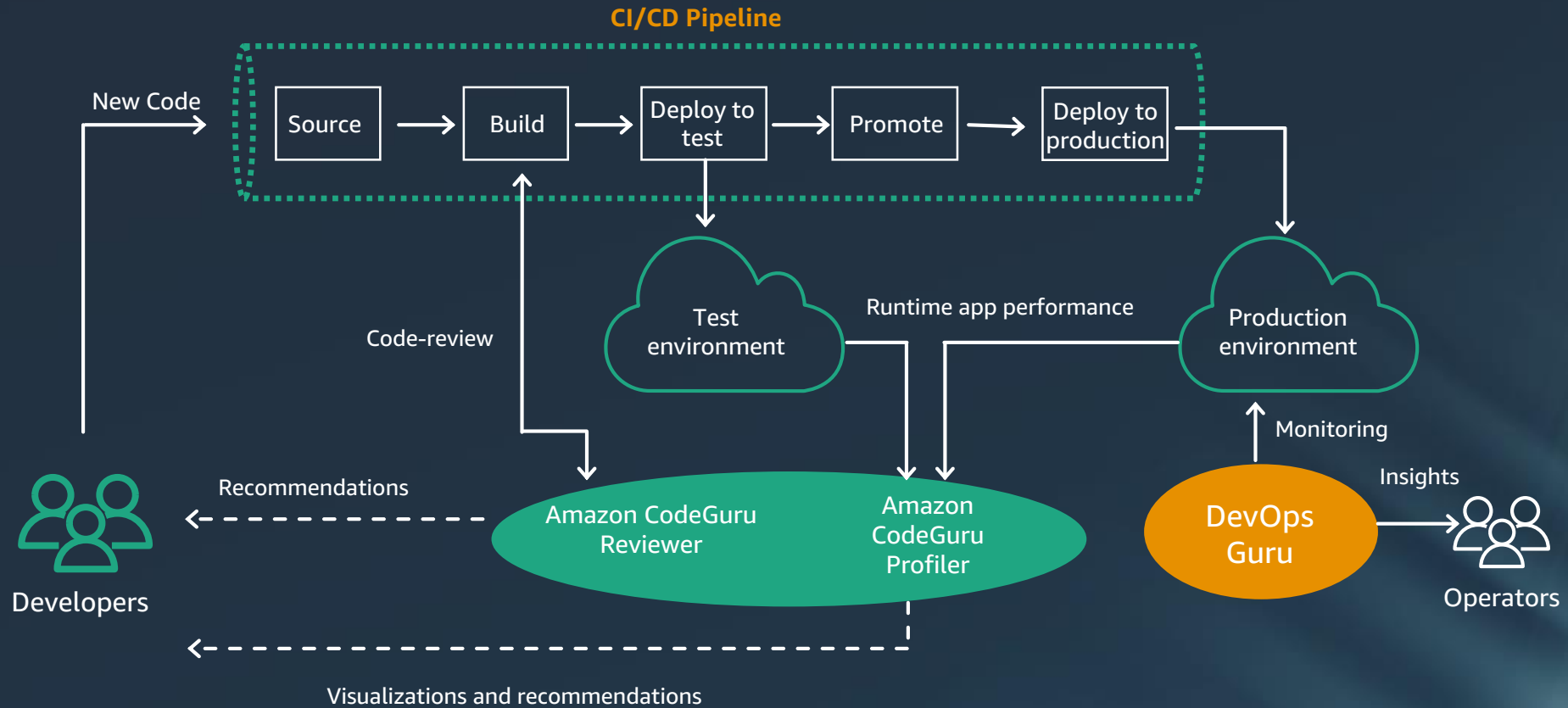
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Enterprise Solutions Architect
Amazon Web Services

Agenda

- AI/ML operations overview
- How Amazon DevOps Guru and Amazon CodeGuru fit into developer operations
- Amazon Devops Guru
- Amazon CodeGuru
- Amazon DevOps Guru demo
- Resources

Extending benefits of ML to developer operations



Introducing Amazon DevOps Guru

ML-powered cloud operations service to improve application availability



Amazon 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.

Demo



Challenges in the application life cycle



It is time consuming for developers to identify problematic code



Code analysis tools lack industry standard best practices for code quality and efficiency



It is difficult to visualize the most expensive lines of code and how to fix them

Amazon CodeGuru in your software workflow

Amazon CodeGuru
Reviewer



Write + Review

Built-in **code reviews** with actionable recommendations

Amazon CodeGuru Profiler



Build + Test

Detect and **optimize** the expensive lines of code



Deploy

Easily identify **performance and cost improvements** in production environment

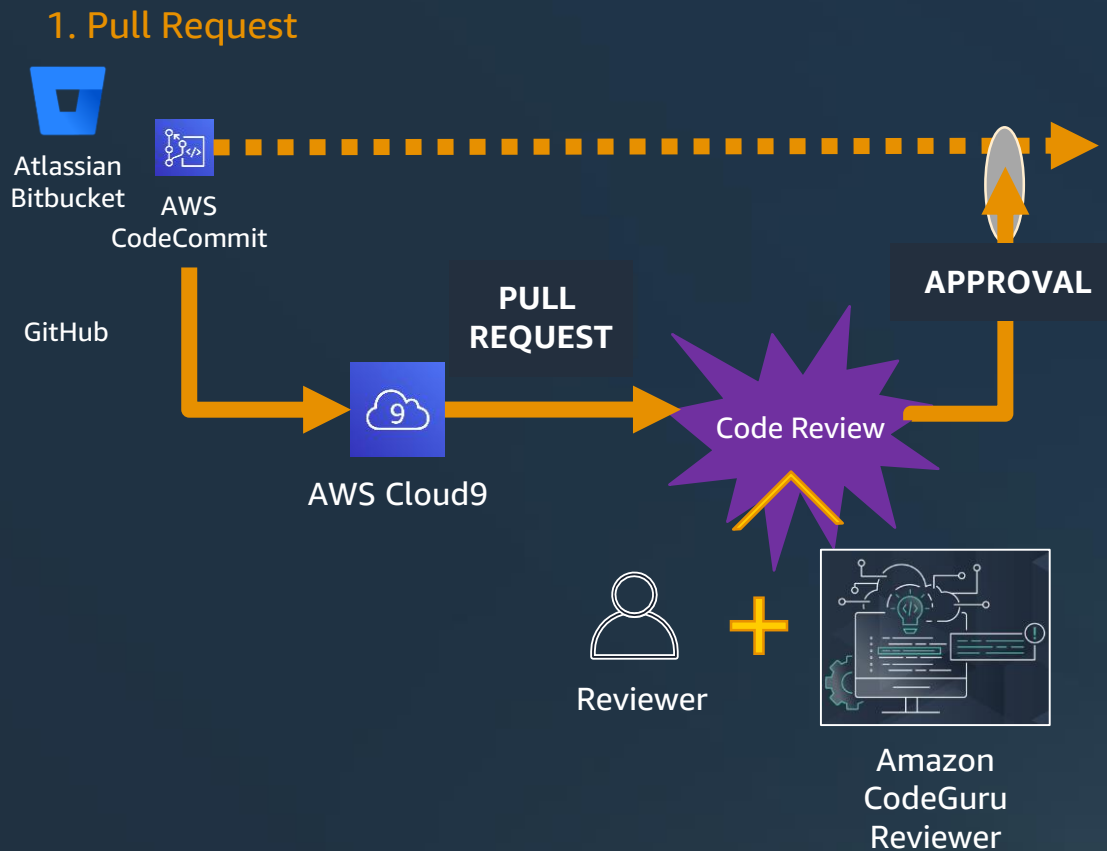


Measure



Improve

Code review with Amazon CodeGuru Reviewer



It's like adding spell check to your code before an application is deployed

Demo



Getting started

Amazon DevOps Guru Workshop

<https://github.com/aws-samples/amazon-codeguru-reviewer-sample-app>

Amazon DevOps Guru sample application

<https://github.com/aws-samples/amazon-devopsguru-samples>

Amazon CodeGuru demo application

<https://github.com/aws-samples/amazon-codeguru-reviewer-sample-app>



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Dive deeper into these resources, get inspired and learn how you can use AI and machine learning to accelerate your business outcomes.

- 6 steps to machine learning success e-book
- 7 leading machine learning use cases e-book
- Machine learning at scale e-book
- Achieving transformative business results with machine learning e-book
- Tackling our world's hardest problems with machine learning e-book
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Thank you!

