

Accelerating DevSecOps on AWS: Revolutionizing Software Development

Are you a software developer looking to revolutionize your development process and enhance the security of your applications? Look no further than Accelerating DevSecOps on AWS! This groundbreaking approach to software development combines the power of AWS's cloud infrastructure with the concepts of DevOps and information security, unleashing the full potential of your development team.

What is DevSecOps?

DevSecOps, short for Development, Security, and Operations, is a software development approach that aims to integrate security seamlessly into the traditional DevOps model. With DevSecOps, security becomes an integral part of the development process, ensuring that applications are secure from the very beginning.

Why DevSecOps on AWS?

Accelerating DevSecOps on AWS brings the power of Amazon Web Services to empower your development team. AWS provides a vast array of services and tools that streamline the software development lifecycle while also enforcing robust security measures. By leveraging AWS, you can supercharge your DevSecOps practices and accomplish more in less time.

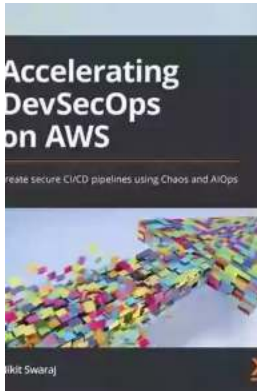
Accelerating DevSecOps on AWS: Create secure CI/CD pipelines using Chaos and AIOps

by Nikit Swaraj(1st Edition, Kindle Edition)

★★★★★ 5 out of 5

Language : English

File size : 56514 KB



Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 520 pages



The Benefits of DevSecOps on AWS

By adopting Accelerating DevSecOps on AWS, your development team can enjoy a range of benefits:

- **Enhanced Security:** AWS offers industry-leading security features, including firewalls, encryption, identity and access management, and more. By integrating security throughout the development process, you decrease the likelihood of vulnerabilities and data breaches.
- **Rapid Development:** AWS provides a wide range of tools and services that accelerate development, such as Amazon EC2 for scalable computing power, AWS Lambda for serverless functions, and AWS CodePipeline for automating development workflows. With AWS, you can develop and deploy applications faster than ever before.
- **Improved Collaboration:** DevSecOps on AWS encourages collaboration between development, security, and operations teams. By removing silos and fostering communication, your team can work together more efficiently, leading to better software releases.

- **Cost Savings:** AWS offers flexible pricing models, allowing you to pay only for the resources you use. By leveraging AWS's cloud infrastructure, you can reduce hardware and maintenance costs, optimizing your development budget.

Best Practices for Accelerating DevSecOps on AWS

To make the most out of Accelerating DevSecOps on AWS, consider implementing these best practices:

1. **Infrastructure as Code:** Use AWS CloudFormation to define and deploy your infrastructure as code. This practice allows you to version control your infrastructure, making it easier to track changes and ensure consistency.
2. **Automated Testing:** Implement automated testing using AWS CodeBuild and AWS CodePipeline. By thoroughly testing your code, you can identify vulnerabilities early on and prevent security incidents.
3. **Continuous Monitoring:** Utilize AWS CloudWatch to monitor your applications and infrastructure in real-time. By actively monitoring your system, you can detect and mitigate security threats proactively.
4. **Security Automation:** Leverage AWS Identity and Access Management (IAM) to automate security controls and enforce least privilege. This ensures that only authorized individuals can access sensitive resources.

Accelerating DevSecOps on AWS is revolutionizing the software development landscape. By combining the power of AWS's cloud infrastructure with the principles of DevSecOps, you can enhance the security of your applications, improve collaboration within your development teams, and achieve faster development cycles. Embrace this transformative approach to software development and unlock the full potential of your development team.



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Build high-performance CI/CD pipelines that are powered by AWS and the most cutting-edge tools and techniques

Key Features

- Master the full AWS developer toolchain for building high-performance, resilient, and powerful CI/CD pipelines
- Get to grips with Chaos engineering, DevSecOps, and AIOps as applied to CI/CD
- Employ the latest tools and techniques to build a CI/CD pipeline for application and infrastructure

Book Description

Continuous integration and continuous delivery (CI/CD) has never been simple, but these days the landscape is more bewildering than ever; its terrain riddled with blind alleys and pitfalls that seem almost designed to trap the less-experienced developer. If you're determined enough to keep your balance on the cutting edge, this book will help you navigate the landscape with ease.

This book will guide you through the most modern ways of building CI/CD pipelines with AWS, taking you step-by-step from the basics right through to the most advanced topics in this domain.

The book starts by covering the basics of CI/CD with AWS. Once you're well-versed with tools such as AWS CodeStar, Proton, CodeGuru, App Mesh, SecurityHub, and CloudFormation, you'll focus on chaos engineering, the latest trend in testing the fault tolerance of your system. Next, you'll explore the advanced concepts of AIOps and DevSecOps, two highly sought-after skill sets for securing and optimizing your CI/CD systems. All along, you'll cover the full range of AWS CI/CD features, gaining real-world expertise.

By the end of this AWS book, you'll have the confidence you need to create resilient, secure, and performant CI/CD pipelines using the best techniques and technologies that AWS has to offer.

What you will learn

- Use AWS CodeStar to design and implement a full branching strategy
- Enforce Policy as Code using CloudFormation Guard and HashiCorp Sentinel
- Master app and infrastructure deployment at scale using AWS Proton and review app code using CodeGuru
- Deploy and manage production-grade clusters using AWS EKS, App Mesh, and X-Ray
- Harness AWS Fault Injection Simulator to test the resiliency of your app
- Wield the full arsenal of AWS Security Hub and Systems Manager for infrastructure security automation

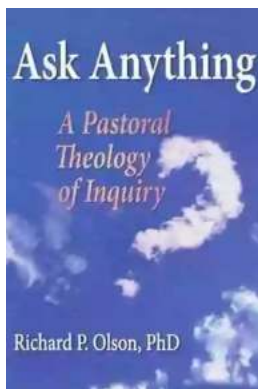
- Enhance CI/CD pipelines with the AI-powered DevOps Guru service

Who this book is for

This book is for DevOps engineers, engineering managers, cloud developers, and cloud architects. Basic experience with the software development life cycle, DevOps, and AWS is all you need to get started.

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