

# Create Secure Applications By Building Complete CI/CD Pipelines: A Comprehensive Guide



**Continuous Delivery with Docker and Jenkins: Create secure applications by building complete CI/CD pipelines, 2nd Edition** by Ric Messier

★★★★☆ 4.4 out of 5

Language : English  
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Screen Reader : Supported  
Enhanced typesetting : Enabled  
Print length : 540 pages



In today's threat-filled digital landscape, software security has become paramount. As organizations increasingly adopt agile development methodologies and embrace DevOps principles, the need for robust Continuous Integration (CI) and Continuous Delivery (CD) pipelines that prioritize security is more pressing than ever.

This comprehensive guide, "Create Secure Applications By Building Complete CI/CD Pipelines," 2nd Edition, empowers you with the knowledge and practical strategies to establish secure software development processes. This invaluable resource will equip you to:

- Integrate security measures into every stage of your CI/CD pipelines

- Automate security testing and monitoring to identify and address vulnerabilities
- Implement best practices for secure code management and configuration
- Collaborate effectively with security teams to ensure a holistic approach to software security

## **Chapter Overview**

This meticulously crafted guide is meticulously structured into chapters that delve into specific aspects of secure CI/CD pipeline implementation.

### **Chapter 1: Foundations of Secure CI/CD Pipelines**

This chapter lays the groundwork for understanding the importance of security in CI/CD pipelines. You will explore key concepts, industry best practices, and the benefits of adopting a security-first approach.

### **Chapter 2: Integrating Security into CI Pipelines**

In this chapter, you will learn how to incorporate security testing, code analysis, and vulnerability scanning into your CI pipelines. You will discover techniques to automate these processes and ensure that code is secure before it enters the CD phase.

### **Chapter 3: Securing CD Pipelines**

This chapter focuses on securing the CD pipelines, including best practices for automated deployment, configuration management, and infrastructure security. You will learn how to prevent unauthorized access, maintain data integrity, and minimize the risk of security breaches.

## **Chapter 4: Collaborating with Security Teams**

Collaboration with security teams is crucial for effective software security. This chapter emphasizes the importance of establishing clear communication channels, defining roles and responsibilities, and leveraging security expertise throughout the CI/CD lifecycle.

## **Chapter 5: Advanced Security Strategies**

In this chapter, you will explore advanced security strategies, including threat modeling, penetration testing, and security audits. You will learn how to proactively identify and mitigate security risks and ensure the long-term security of your applications.

### **Benefits of Building Secure CI/CD Pipelines**

Implementing secure CI/CD pipelines offers numerous benefits that can significantly enhance your software security posture, including:

- Reduced risk of security breaches and vulnerabilities
- Improved code quality and reliability
- Increased confidence in software security
- Enhanced compliance with security regulations and standards
- Faster and more efficient software delivery

"Create Secure Applications By Building Complete CI/CD Pipelines," 2nd Edition, is an indispensable resource for software developers, DevOps engineers, and security professionals who are committed to building secure and reliable applications. This comprehensive guide provides a roadmap

for implementing secure CI/CD pipelines, empowering you to safeguard your software and protect your organization from cyber threats.

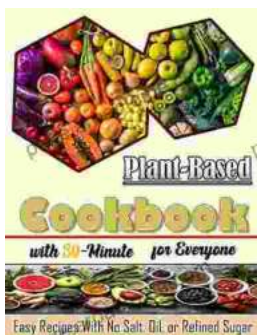
Invest in this invaluable resource today and elevate your software security practices to new heights.



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