

LEARN  
**40+**  
TOOLS

# Practical DevSecOps

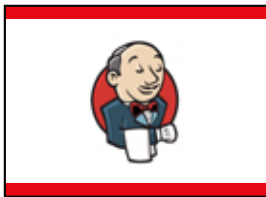
Online Training



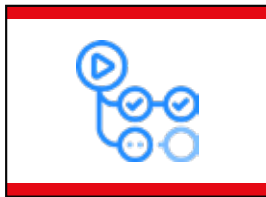
## Program Highlights

InfosecTrain's Practical DevSecOps course provides a comprehensive, hands-on learning experience in implementing DevSecOps practices within Docker and Kubernetes environments, specifically emphasizing Spring Boot applications. This course blends theoretical knowledge with immersive labs and a compelling Spring Boot application demonstration to ensure a profound understanding of DevSecOps principles and best practices.

## Tools Covered



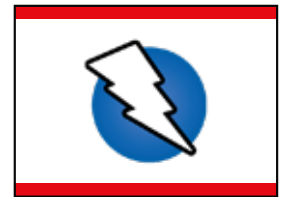
Jenkins



GitHub  
Actions



SonarQube



OWASP ZAP



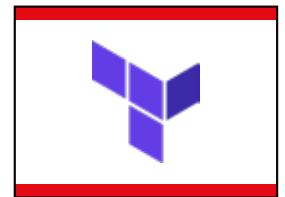
Docker



Ansible



kubernetes



Terraform



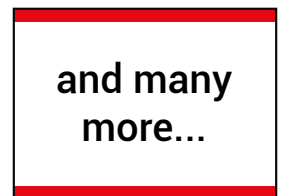
OpenScap



Defect Dojo



SonarCloud



## Course Highlights



**40 Hours LIVE**  
Instructor-led Training



Career Guidance and  
**Mentorship**



Access to  
**Recorded Sessions**



**40+**  
Open-Source Tools



**Comprehensive Hands-On**  
Projects for Each Tool



Practical Approach with  
**Scenario-Based Learning**



Cover **6+ Intermediate**  
Learning Projects



**Integrated Learning Project**  
(ILP) after Every Topic



1 Capstone Project Simulating Real-World  
**DevSecOps Implementation**

## Target Audience

DevOps Engineers

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Security Engineers

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Software Engineers

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System Administrators

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Architects and Product Managers

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Developers

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Testers

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Cloud Architects

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Cloud Infrastructure Specialists



## Pre-Requisites

- ✓ Basic knowledge of Linux command-line usage, containerization concepts, and general DevOps practices.
- ✓ Understanding of Spring Boot application development and Jenkins is required.
- ✓ Technical background or B.E/B.Tech degree.

## Course Objectives

- ✓ Understand DevSecOps principles, benefits, and challenges
- ✓ Familiarize with Docker and Kubernetes for container management
- ✓ Implement CI/CD pipelines using Kubernetes
- ✓ Perform vulnerability scanning and testing in DevSecOps
- ✓ Utilize tools for identifying code and resource vulnerabilities
- ✓ Secure Kubernetes networking and communication with TLS
- ✓ Authenticate and authorize Kubernetes API Server, etc
- ✓ Monitor Kubernetes for security
- ✓ Manage secrets and sensitive data in the DevSecOps pipeline
- ✓ Learn about popular secrets management tools like HashiCorp Vault
- ✓ Integrate Vault with Kubernetes for secure secret injection
- ✓ Explore bonus topics covering security orchestration tools

**Tools Covered : 40+**

**Intermediate Learning  
Projects: 6**

**Capstone Project: 1**

## Course Content

### Introduction To The Basics

- ✓ What is DevOps?
- ✓ What is Continuous Integration and Continuous Deployment?
- ✓ DevOps vs. DevSecOps vs. Rugged DevOps
- ✓ Introduction to DevSecOps and Its Benefits

### Introduction To The Tools

- ✓ Git/Github
- ✓ GitHub Actions/Jenkins
- ✓ OWASP ZAP
- ✓ Ansible
- ✓ Docker
- ✓ K8S
- ✓ Inspec

### Software Component Analysis (SCA) in CI/CD Pipeline

- ✓ SCA Introduction
- ✓ Tools Used for SCA
- ✓ Demo/Hands-On (OWASP Dependency Checker/RetireJS/Safety)
- ✓ **Intermediate Project- 1**

## SAST (Static Analysis) in CI/CD Pipeline

- ✓ SAST Introduction
- ✓ Tools Used for SAST
- ✓ Demo/Hands-On(SpotBugs,SonarQube,SonarCloud)
- ✓ **Intermediate Project- 2**

## DAST (Dynamic Analysis) in CI/CD Pipeline

- ✓ DAST Introduction
- ✓ Tools Used for DAST
- ✓ Demo/Hands-On(OWASP ZAP)
- ✓ **Intermediate Project- 3**

## Infrastructure As Code And Its Security

- ✓ IaaS Introduction
- ✓ Tools Used for IaaS
- ✓ Demo/Hands-On(Docker,Ansible,Terraform)
- ✓ **Intermediate Project- 4**

## Compliance/Audit/Policy As Code

- ✓ Policy as a Code Introduction
- ✓ Tools Used for Compliance/Audit as Code
- ✓ Demo/Hands-On(Inspec/OpenScap)
- ✓ **Intermediate Project- 5**

## Vulnerability Management

- ✓ Vulnerability Management Introduction
- ✓ Tools Used for Vulnerability Management
- ✓ Demo/Hands-On(Defect Dojo)
- ✓ **Intermediate Project- 6**

## Final Capstone Project:

Integrating All the Tools in a Single CI/CD Pipeline





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