DEVSECOPS FOUNDATION CERTIFICATION TRAINING

Course Agenda

Course Overview:

Program Overview

Sprintzeal's comprehensive training program is designed to provide participants with a deep understanding of DevSecOps principles and practices. The course covers essential topics such as secure coding, continuous security testing, and integrating security into the DevOps pipeline.

Prerequisites

Participants are expected to have a basic understanding of DevOps practices and principles. Familiarity with software development and IT operations concepts will be beneficial for a more comprehensive learning experience.

Target Audience

- DevOps Engineers
- IT Security Professionals
- Software Developers
- System Administrators
- IT Managers
- Quality Assurance Teams
- Project Managers
- Anyone aspiring to enhance their knowledge in DevSecOps practices.

Key Learning Outcomes:

- Understanding the fundamentals of DevSecOps.
- Implementing security throughout the software development lifecycle.
- Integrating security into continuous integration/continuous deployment (CI/CD) pipelines.
- Managing and mitigating security risks in DevOps environments.
- Implementing secure coding practices.
- Conducting security testing in automated pipelines.
- Applying security controls and compliance as code.
- Collaborating effectively between development, operations, and security teams.

Skills You Will Acquire:

- Secure coding practices.
- Threat modeling and risk management.
- Security automation and orchestration.
- Continuous security testing.
- Integration of security in CI/CD pipelines.
- Application of security controls as code.
- Incident response and recovery in DevOps.
- Collaboration and communication skills in a DevSecOps environment.

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Course Introduction

- Course Goals
- Course Agenda

Module 1: Realizing DevSecOps Outcomes

- Origins of DevOps
- Evolution of DevSecOps
- CALMS
- The Three Ways

Module 2: Defining the Cyberthreat Landscape

- What is the Cyber Threat Landscape?
- What is the threat?
- What do we protect from?
- What do we protect, and why?
- How do I talk to security?

Module 3: Building a Responsive DevSecOps Model

- Demonstrate Model
- Technical, business and human outcomes
- What's being measured?
- Gating and thresholding

Module 4: Integrating DevSecOps Stakeholders

- The DevSecOps State of Mind
- The DevSecOps Stakeholders
- What's at stake for who?
- Participating in the DevSecOps model

Module 5: Establishing DevSecOps Best Practices

- Start where you are
- Integrating people, process and technology and governance
- DevSecOps operating model
- Communication practices and boundaries
- Focusing on outcomes

Module 6: Best Practices to get Started

- The Three Ways
- Identifying target states
- Value stream-centric thinking

Module 7: DevOps Pipelines and Continuous Compliance

- The goal of a DevOps pipeline
- Why continuous compliance is important
- Archetypes and reference architectures
- Coordinating DevOps Pipeline construction
- DevSecOps tool categories, types and examples

Module 8: Learning Using Outcomes

- Security Training Options
- Training as Policy
- Experiential Learning
- Cross-Skilling
- The DevSecOps Collective Body of Knowledge

Exam Preparation Materials

- Exam Requirements
- Sample Exam Review

About Sprintzeal's DevSecOps Foundation Certification Training Program

Sprintzeal's DevSecOps Foundation Certification Training Program is a comprehensive and hands-on learning experience. With a focus on practical application, participants will gain the knowledge and skills required to implement security in a DevOps environment effectively. The course is led by experienced instructors, ensuring a valuable and engaging learning journey for every participant.