

DevSecOps Professional with CDP Certification

DevOps is all about providing value to the customers at a rapid pace. By improving communication, breaking down silos between developers and operations, businesses achieve speed, reliability, and flexibility without compromising security or quality.

In partnership with



Training Overview

The training focuses on the practical aspects of DevOps and DevSecOps. It explains the key points of the DevOps's mission: build the culture needed for DevOps, increase the efficiency of the process with automation, share continuous feedback with all stakeholders by measuring and sharing critical DevOps metrics. This training will also cover the different techniques to interact with business stakeholders, development teams and operation teams. The training is concluded with Certified DevSecOps Professional (CDP) exam, provided by Practical DevSecOps, the leading certification on DevSecOps.

Training Objectives

This training is based on an interactive approach in which trainees will learn to implement the DevOps processes like CI/CD pipelines, Infrastructure as Code, Security, and Monitoring. At the end of this training, participants will be able to:

- Create a culture of sharing and collaboration among the stakeholders.
- Scale security team's effort to reduce the attack surface.
- Embed security as part of DevOps and CI/CD
- Start or mature your application security program using modern SecureSDLC practices.
- Harden infrastructure using Infrastructure as Code and maintain compliance using Compliance as Code tools and techniques.
- Consolidate and co-relate vulnerabilities to scale false-positive analysis using automated tools.

Target Audience

This training is primarily intended for the DevOps Engineers, SRE Engineers, IT Managers, Security Professionals, Penetration Testers, Developers, and Operation teams.

Prerequisites

There are no prerequisites required to attend the training; however, attendees will benefit from having basic knowledge about Linux commands like ls, cd, mkdir, etc., and application Security practices like OWASP Top 10.

Training Content

1. Introduction to DevOps and DevSecOps

- DevOps Building Blocks- People, Process and Technology.
- DevOps Principles - Culture, Automation, Measurement and Sharing(CAMS)
- Benefits of DevOps - Speed, Reliability, Availability, Scalability, Automation, Cost and Visibility.
- Continuous Integration to Continuous Deployment to Continuous Delivery.
 - General workflow of CI/CD pipeline
 - Blue/Green deployment strategy
 - Achieving full automation
- Case studies on DevOps of cutting edge technology at Facebook, Amazon

2. Introduction to the tools of the trade

- Github/Gitlab/BitBucket
- Docker/Docker Registry
- Ansible
- Jenkins/Travis/Gitlab CI/Bitbucket
- Artifact management
- Inspec

WHY ACADEMY!

3. SDLC and CI/CD pipeline

- What is Software Development Life Cycle
- SDLC Activities and Security Gates
- Using tools of the trade to implement SDLC activities in CI/CD
- Embedding Security as part of CI/CD pipeline
- Hands-on: Create a CI/CD pipeline suitable for modern applications.
- Hands-on: Manage the findings in a fully automated pipeline.

4. Security as Code (SAST/DAST/SCA)

- Software Component Analysis
- Static Application Security Testing
- Dynamic Application Security Testing

5. Infrastructure as Code and its security

- What is Infrastructure as Code and its benefits?
- Platform + Infrastructure Definition + Configuration Management.
- Introduction to Ansible
 - Benefits of Ansible.
 - Push and Pull based configuration management systems
 - Modules, tasks, roles, and Playbooks
- Tools and Services which helps to achieve IaC
- Hands-On Labs: Docker, and Ansible
- Hands-On Labs: Using Ansible to create Golden images and harden Infrastructure.

6. Compliance as code

- Different approaches to handle compliance requirements at the DevOps scale.
- Using configuration management to achieve compliance.
- Manage compliance using Inspec/OpenScap at Scale.
- Hands-On Labs: Create an Inspec profile to create compliance checks for your organization.
- Hands-On Labs: Use Inspec profile to scale compliance.

Training Information

Training will be conducted by an experienced trainer and Agile Coach from why innovation!.

Each training will have a maximum of 12 participants.

Duration: 3 days (24 hours)

Location: Singapore/ Hong Kong/ Shanghai

Price: SGD 2,400/ HKD 13,500/ CNY 9,000

Certification Fee: SGD 100/ HKD 550/ CNY 500

Select more than 1 training to be eligible for a discount.

Related Trainings

1. DevSecOps Expert with CDE Certification
2. Kanban & Lean Foundations
3. DevOps

WHY INNOVATION!

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