DevSecOps Expert with CDE 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 Practical DevSecOps

Training Overview

The training focuses on the advanced 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 the Certified DevSecOps Expert (CDE) 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

Attendees should have achieved CDP certification to attend this training.

Training Content

1. Overview of DevOps and CI/CD

- DevOps Building Blocks and DevOps Principles
- Benefits of DevOps - Speed, Reliability, Availability, Scalability, Automation, Cost and Visibility.
- Continuous Integration to Continuous Deployment to Continuous Delivery.
- Blue/Green deployment strategy. e.Achieving full automation.
- Overview of Secure SDLC and CI/CD

2. Advanced Security as Code (SAST/DAST/SCA)

- Introduction to container Security
- Advanced Static Application Security Testing
- Advanced Dynamic Application Security Testing

WHY ACADEMY!

3. Secrets management on mutable and immutable infrastructure

- Managing secrets in traditional infrastructure
- Managing secrets in containers at Scale
- Secret Management in Cloud
  - Version Control Systems and Secrets
  - Environment Variables and Configuration files
  - Docker, Immutable systems and its security challenges
  - Secrets management with Hashicorp Vault and consul
- Hands-on: Securely store Encryption keys and other secrets using Vault/Consul

4. Advanced Infrastructure as Code

- Configuration management (Ansible) security
  - Users/Privileges/Keys - Ansible Vault vs Tower
  - Challenges with Ansible Vault in CI/CD pipeline.
- Introduction to Packer
  - Benefits of Packer
  - Templates, builders, provisioners, and post processors.
  - Packer for continuous security in DevOps Pipelines
- Tools and Services for practicing IaaC (Packer + Ansible + Docker)
- Hands-On Labs: Using Ansible to harden on-prem/cloud machines for PCI-DSS.
- Hands-On Labs: Create hardened Golden images using Packer + Ansible

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 2,610/ HKD 14,200/ CNY 13,000
Certification Fee: SGD 100/ HKD 550/ CNY 500
Select more than 1 training to be eligible for a discount.

Related Trainings

1. DevSecOps Professional with CDP Certification
2. Kanban & Lean Foundations
3. Professional Scrum Developer with PSD I Certification

WHY INNOVATION!
A WAVESTONE COMPANY

We offer trainings in IT Trends, Innovation Management, Agile and Software Engineering as well as Information Security.

Trainings are available for both individual public enrollment and as corporate sessions. For the latter, we can customise the training to your company's specific context and needs.

We take pride in our passion for knowledge and we promise a fun learning experience leveraging a variety of teaching techniques.

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