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DevSecOps Practitioner℠

VERSION 1

Global Best Practice

For organizations and professionals implementing DevSecOps practices to deliver secure, reliable, and scalable outcomes!

Course Description

PeopleCert

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DevSecOps Practitioner℠ Course Description

Overview

The DevSecOps Practitioner℠ course is a logical next step for learners after they understand DevOps Foundations. The course highlights practices and metrics to improve people, process, and technological aspects for successful DevSecOps outcomes. Beginning with a deep-dive into security concepts, the course explains how DevOps metrics are useful for security and explains security-specific metrics that are important to assure secure releases and to support continuous security compliance. The middle section explains how to transform infrastructures, platforms, CI/CD pipelines, and value-streams for DevSecOps. Finally, the course explains how to continuously improve DevSecOps solutions, using experimentation practices and considers where DevSecOps may lead in the future.

The DevSecOps Practitioner℠ course explains how to customize and improve DevSecOps that suits the specific needs of your organization. Each module covers practices including people, process and technology aspects to guide your DevSecOps to higher levels of capability maturity and more secure outcomes.

The course aims to equip participants with the practices, methods, and tools to engage people across the organization involved in security assurance through real-life scenarios and case stories. Upon completion of the course, participants will understand security frameworks, understand security platforms and tools, and how to implement DevSecOps practices to build more secure pipelines and metrics.

The course was created with a broad range of DevSecOps sources, including contributions from DevSecOps thought-leaders and consultants working with organizations to extract real-world best DevSecOps practices.

This course positions learners to successfully complete the DevSecOps Practitioner℠ certification exam.

Course objectives

At the end of the course, the following **learning objectives** are expected to be **achieved:**

- Comprehend the underlying principles of DevSecOps.
- Distinguish between the technical elements used across DevSecOps practices.
- Understand DevSecOps capability maturity levels and how to evolve to higher DevSecOps performance.
- Implement metric-based DevSecOps assessments tied to your organization.
- Recognize modern architectural concepts including microservice to monolith transitions.
- Recognize the various languages and tools used to communicate concepts that are important for security.
- Contrast the options used to build a DevSecOps infrastructure through platform engineering, server-less construction, and event-driven mediums.
- Prepare hiring practices to recognize and understand the individual knowledge, skills, and abilities required for mature Dev.
- Identify the various technical requirements tied to the DevSecOps pipelines and how those impact people and process choices.
- Review various approaches to securing data repositories and pipelines.
- Analyse how monitoring and observability practices contribute to security outcomes.
- Comprehend how to implement monitoring for actionable DevSecOps analysis.
- Evaluate how different experimental structures contribute to the Third Way for DevSecOps
- Identify future trends affecting DevSecOps.

Audience

The target audience for the DevSecOps Practitioner℠ course are professionals including:

- anyone focused on implementing or improving DevSecOps practices in their organization
- anyone interested in modern IT leadership and organizational change approaches
- business managers and stakeholders
- security leaders and practitioners
- change agents
- consultants
- DevOps practitioners
- IT executives, directors and managers
- Product Owners
- Scrum masters
- software engineers
- Site Reliability Engineers (SREs)
- system integrators
- tool providers.

Official Training Materials (OTM) | Learner

- Learner Workbook (excellent post-class reference).
- Sample documents, templates, tools, and techniques.
- Access to additional sources of information and communities.

Prerequisites

It is highly recommended that learners attend the DevSecOps Foundation℠ course with an accredited DEVOPS INSTITUTE® Education Partner and complete the DevSecOps Foundation℠ certification prior to attending the DevSecOps Practitioner℠ course and exam. An understanding and knowledge of common DevSecOps terminology, concepts, principles, and related work experience are recommended.

Certification exam

Successfully passing (65%) the 90-minute examination, consisting of 40 multiple-choice questions, leads to the DevSecOps Practitioner certificate. The certification is governed and maintained by PeopleCert and DEVOPS INSTITUTE®.

Course outline

- **Course introduction**
- **Module 1: DevSecOps basics**
  - DevSecOps principles
  - Security frameworks
  - DevSecOps pillars and technology framework
  - Challenges to realizing DevSecOps solutions
- **Module 2: DevSecOps metrics**
  - DevSecOps metrics
  - Metrics maturity
  - DevSecOps dashboards
  - Integrating DevSecOps metrics with CI/CD
- **Module 3: Architecting and planning for DevSecOps**
  - Architecture basics
  - Architects and teams
  - Security and architecture
  - Technology: accelerating decisions
- **Module 4: Creating a DevSecOps infrastructure**
  - What is infrastructure?
  - People: equipping the team
  - Process: design challenges
  - Technology: monitoring infrastructure
- **Module 5: Establishing a DevSecOps pipeline**
  - DevSecOps ecosystem, workflows and pipelines
  - DevSecOps platforms and integrations
  - DevSecOps tools
  - DevSecOps technology governance
- **Module 6: Observing DevSecOps outcomes**
  - Observability versus monitoring
  - People: who gets which report?
  - Process: setting observation points
  - Technology: implementing observability
- **Module 7: Practical Third-Way DevSecOps applications**
  - Revisiting the Third Way for DevSecOps
  - People: experimental culture
  - Process: building experiments
  - Technology: getting the most from the experiment
- **Module 8: The future of DevSecOps**
  - Looking towards the future
  - People: staying trained
  - Process: innovation
  - Technology: what, and from who?
- **Post-class assignments/exercises**
  - Extended advanced reading associated with case stories from the course

Notes

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ESG Commitment

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