

Implementing DevOps Solutions and Practices Using Cisco Platforms (DEVOPS)

Price: 1500

Duration 365 Days

Delivery Methods eLearning

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Overview

The duration of this course is 40 hours, and it is eligible for 30 CE credits towards recertification.

The Implementing DevOps Solutions and Practices Using Cisco Platforms (DEVOPS) training teaches you how to automate application deployment, enable automated configuration, enhance management, and improve scalability of cloud microservices and infrastructure processes on Cisco® platforms. You will also learn how to integrate Docker and Kubernetes to create advanced capabilities and flexibility in application deployment.

This training prepares you for the 300-910 DEVOPS v1.0 exam. If passed, you earn the Cisco Certified DevNet Specialist – DevOps certification and satisfy the concentration exam requirement for the Cisco Certified DevNet Professional certification.

How You'll Benefit

This training will help you:

- Use network programmability to scale and streamline Service Provider network infrastructure
- Gain hands-on experience in using modern data models to manage Service Provider network infrastructure

Who Should Enroll

- Account managers

- Consulting systems engineers
- Network administrators
- Network engineers
- Network managers
- Sales engineers
- Systems engineers
- Technical solutions architects
- Wireless design engineers
- Wireless engineers

Learning Path Objectives

- Describe the DevOps philosophy and practices, and how they apply to real-life challenges
- Explain container-based architectures and available tooling provided by Docker
- Describe application packaging into containers and start building secure container images
- Utilize container networking and deploy a three-tier network application
- Explain the concepts of Configuration Item (CI) pipelines and what tooling is available
- Implement a basic pipeline with Gitlab CI that builds and deploys applications
- Implement automated build testing and validation
- Describe DevOps principles applied to infrastructure
- Implement on-demand test environments and explain how to integrate them with an existing pipeline
- Implement tooling for metric and log collection, analysis, and alerting
- Describe the benefits of application health monitoring, telemetry, and chaos engineering in the context of improving the stability and reliability of the ecosystem
- Describe how to implement secure DevOps workflows by safely handling sensitive data and validating applications
- Explain design and operational concepts related to using a mix of public and private cloud deployments
- Describe modern application design and microservices architectures
- Describe the building blocks of Kubernetes and how to use its APIs to deploy an application
- Explain advanced Kubernetes deployment patterns and implement an automated pipeline
- Explain how monitoring, logging, and visibility concepts apply to Kubernetes

Learning Path Prerequisites

There are no prerequisites for this training. However, the knowledge and skills you are recommended to have before attending this training are:

- Basic programming language concepts and familiarity with Python
- Basic understanding of compute virtualization
- Ability to use Linux, text-driven interfaces, and CLI tools, such as Secure Shell (SSH), bash, grep, ip, vim/nano, curl, ping, traceroute, and telnet
- Foundational understanding of Linux-based OS architecture and system utilities
- CCNA® level core networking knowledge
- Foundational understanding of DevOps concepts
- Awareness and familiarity with continuous integration, continuous deployment, and continuous delivery CI/CD) concepts
- Hands-on experience with Git

These skills can be found in the following Cisco Learning Offering:

- Developing Applications and Automating Workflows using Cisco Platforms (DEVASC)
- Developing Applications Using Cisco Core Platforms and APIs (DEVCOR)

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FAQ

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What is your late policy?

If a student is 15 minutes late, they risk losing their seat to a standby student. If a student is 30 minutes late or more, they will need to reschedule. A no-show fee will apply. Retakes are enrolled on a stand-by basis. The student must supply previously issued courseware. Additional fees may apply.

What happens when I finish my class?

You will receive a 'Certificate of Completion' once you complete the class. If you purchased an exam voucher for the class, a team member from TOPTALENT LEARNING will reach out to discuss your readiness for the voucher and make arrangements to send it.