Current Technologies

Computer Learning Centers

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WHERE GREAT TRAINING HAPPENS EVERYDAY!

IMPLEMENTING DEVOPS SOLUTIONS AND PRACTICES USING CISCO PLATFORMS (DEVOPS) V1.0

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The Implementing DevOps Solutions and Practices Using Cisco Platforms (DEVOPS) v1.0 course 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 course prepares you for the 300-910 Implementing DevOps Solutions and Practices Using Cisco Platforms (DEVOPS) certification exam.

How you'll benefit

This class will help you:

- Gain the high-demand knowledge and skills to implement automation, streamline container orchestration, and enhance scalability
- Learn the skills to maximize the lightweight design of containers to scale more quickly and allow more responsiveness to website traffic load
- Earn 40 CE credits toward recertification
- Prepare for the 300-910 DEVOPS exam

Why Attend with Current Technologies CLC

- Our Instructors are in the top 10% rated by Cisco
- Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs run up to Date Code for all our courses

Who Should Attend

The primary audience for this course is as follows:

- Systems Engineer
- Wireless Engineer
- Consulting Systems Engineer
- Technical Solutions Architect
- Network Administrator
- Wireless Design Engineer
- Network Manager
- Sales Engineer
- Account Manager

Course Duration 5 days Course Price \$4,495.00 or 45 CLCs Methods of Delivery • Instructor Led • Virtual ILT • On-Site

OUTLINE

- Module 1: Introducing the DevOps Model
- **Module 2: Introducing Containers**
- Module 3: Packaging an Application Using Docker
- Module 4: Deploying a Multitier Application
- Module 5: Introducing CI/CD
- Module 6: Building the DevOps Flow
- Module 7: Validating the Application Build Process
- Module 8: Building an Improved Deployment Flow
- Module 9: Extending DevOps Practices to the Entire Infrastructure
- Module 10: Implementing On-Demand Test Environments at the Infrastructure Level
- Module 11: Monitoring in NetDevOps
- Module 12: Engineering for Visibility and Stability
- Module 13: Securing DevOps Workflows
- Module 14: Exploring Multicloud Strategies
- Module 15: Examining Application and Deployment Architectures
- Module 16: Describing Kubernetes
- Module 17: Integrating Multiple Data Center Deployments with Kubernetes
- Module 18: Monitoring and Logging in Kubernetes

LAB OUTLINE

- lab 1: Interact with GitLab Continuous Integration (CI)
- lab 2: Explore Docker Command-Line Tools
- lab 3: Package and Run a WebApp Container
- lab 4: Build and Deploy Multiple Containers to Create a Three-Tier Application
- lab 5: Explore Docker Networking

- lab 6: Build and Deploy an Application Using Docker Compose
- lab 7: Implement a Pipeline in Gitlab Cl
- lab 8: Automate the Deployment of an Application
- lab 9: Validate the Application Build Process
- lab 10: Validate the Deployment and Fix the Infrastructure
- lab 11: Build a Yaml Ain't Markup Language (YAML) Infrastructure as Code (IaC) Specification for the

Test Environment

- lab 12: Manage On-Demand Test Environments with Terraform
- lab 13: Build Ansible Playbooks to Manage Infrastructure
- lab 14: Integrate the Testing Environment in the CI/CD Pipeline
- lab 15: Implement Pre-deployment Health Checks
- lab 16: Set Up Logging for the Application Servers and Visualize with Kibana
- lab 17: Create System Dashboard Focused on Metrics
- lab 18: Use Alerts Through Kibana
- lab 19: Instrument Application Monitoring
- lab 20: Use Alerts and Thresholds to Notify Webhook Listener and Cisco Webex® Teams™ Rooms
- lab 21: Secure Infrastructure in the CI/CD Pipeline
- lab 22: Explore Kubernetes Setup and Deploy an Application
- lab 23: Explore and Modify a Kubernetes CI/CD Pipeline
- lab 24: Kubernetes Monitoring and Metrics—Elasticsearch, Logstash, and Kibana (ELK)