training code: DCNX / e-learning / EN

Active Digital Learning - Implementing Cisco NX-OS Switches and Fabrics in the Data Center v1.1

Cisco - On Demand E-Learning

The **Implementing Cisco NX-OS Switches and Fabrics in the Data Center** training gives you a detailed understanding of the Cisco® Nexus switch platform and teaches you how to install, configure, and manage Cisco Nexus® switch platforms in a scalable, highly available environment. Through a combination of lectures and hands-on labs, you will learn how to describe various aspects of the Cisco Nexus product families and platforms, including implementation, management, security, programmability and storage. Additionally, you will learn how to configure device aliases and zoning, Fibre Channel over Ethernet (FCoE), and N-Port Identifier Virtualization (NPIV), and N-Port Virtualization (NPV) mode.

Access Duration: 180 days

Continuing Education Credits: 40

Training recipients

Who Should Enroll

- Data Center Systems Engineers
- Field Engineers
- Architects
- Cisco partners using Cisco Nexus Series switch platforms

Benefits

This training will help you:

- Describe, implement, configure, and manage Cisco Nexus product families and platforms, including redundancy protocols and security features, in a scalable environment
- Gain valuable hands-on experience with Cisco Nexus products in a lab setting
- Develop expertise with the Cisco Nexus product families and platforms
- Earn 40 CE credits towards recertification

Training program

Course Objectives

- Describe the platforms that make the Cisco Nexus 9000, 7000, 3000, and 2000 product families
- Describe Cisco Nexus platform implementations
- Explain Cisco Nexus platform management
- Describe Port Channels and Virtual Port Channels
- Configure First Hop Redundancy protocols
- Configure security features of Cisco Nexus devices
- Describe the Cisco Nexus devices routing and forwarding
- Describe Virtual Extensible LAN (VXLAN)
- Describe Quality of Service (QoS) on Cisco Nexus Devices
- Explain system management and monitoring processes
- Describe Cisco NX-OS programmability
- Describe Cisco Nexus storage services
- Configure device aliases and zoning
- Configure FCoE
- Configure NPIV and NPV modes

Course Outline

1. Describing Cisco Nexus Series Switches
2. Describing Cisco Nexus Platforms Implementation
3. Describing Cisco Nexus Platforms Management
4. Describing Port Channels and Virtual Port Channels
5. Configuring First Hop Redundancy Protocols
6. Configuring Cisco Nexus Security Features
7. Describing Cisco NX-OS Routing and Forwarding

8. Describing Virtual Extensible LAN
9. Describing QoS on Cisco Nexus Devices
10. Configuring System Management and Monitoring
11. Describing Cisco NX-OS Programmability
12. Describing Cisco Nexus Storage Services
13. Configuring Fibre Channel Over Ethernet
14. Describing Device Aliases and Zoning
15. Configuring NPIV and NPV Modes

Lab Outline

1. Test Cisco Nexus Platforms
2. Configure User Management
3. Configure vPC
4. Configure First Hop Redundancy Protocol (FHRP) Protocols
5. Configure Cisco Nexus Security Features
6. Configure Open Shortest Path First (OSPF)
7. Configure VXLAN
8. Configure QoS
9. Configure System Management
10. Configure Cisco NX-OS On-Box Programmability
11. Configure Containers on Cisco NX-OS
12. Configure Cisco NX-OS Using Ansible
13. Configure Basic Fibre Channel Features
14. Configure FCoE
15. Configure Fiber Channel Device Aliases and Zoning
16. Configure NPV

Expected preparation of the participant

The knowledge and skills you are expected to have before attending this training are:

- Be familiar with Cisco data center technologies
- Understand networking protocols, routing, and switching

The following recommended Cisco offerings may help you meet these prerequisites:

- Implementing and Administering Cisco Solutions (CCNA)
- Understanding Cisco Data Center Foundations (DCFNDU)
- Implementing and Operating Cisco Data Center Core Technologies (DCCOR)

Training Includes

- Labs
- Self-Paced Training
- Video Training

Duration

1 days / 1 hours

Language

Language: English
Materials: English