Implementing Cisco NX-OS Switches and Fabrics in the Data Center (DCNX)

Description

Understanding Cisco NX-OS Switches for Efficient Data Centers

The Implementing Cisco NX-OS Switches and Fabrics in the Data Center (DCNX) training provides a comprehensive approach to mastering the Cisco Nexus network architecture. Designed for system engineers and network architects, this training guides you through the installation, configuration, and management of Cisco NX-OS switches. With a combination of theoretical lessons and hands-on labs, you'll learn to optimize security, programmability, and storage functions in a data center environment. By completing this course, you'll develop the necessary skills to implement Virtual Extensible LAN (VXLAN), secure your infrastructure, and configure storage services, essential to the performance of modern data centers.

A Complete Training for an Evolving Network Environment

The DCNX course is designed to equip you with the technical knowledge required to operate Cisco Nexus solutions. You will learn how to configure redundancy protocols, manage users, and secure devices using technologies such as Fibre Channel over Ethernet (FCoE). This course is ideal for those looking to enhance their skills and ensure the continuity and security of data center network infrastructures. Improve your expertise and prepare to manage complex networks with Cisco NX-OS, while staying at the forefront of technological advancements.

Niveau
Intermédiaire
Course Content

- **Module 1 :** Description of Cisco Nexus Series Switches
- **Module 2 :** Description of Cisco Nexus Platform Implementation
- **Module 3 :** Description of Cisco Nexus Platform Management
- **Module 4 :** Description of Port Channels and Virtual Port Channels
- **Module 5 :** Configuration of First Hop Redundancy Protocols
- **Module 6 :** Configuration of Cisco Nexus Security Features
- **Module 7 :** Description of Cisco NX-OS Routing and Forwarding Features
- **Module 8 :** Description of Virtual Extensible Local Area Network (VXLAN)

- **Module 9 :** Description of Quality of Service (QoS) on Cisco Nexus Devices
- **Module 10 :** Configuration of System Management and Monitoring
- **Module 11 :** Description of Cisco NX-OS Programmability
- **Module 12 :** Description of Cisco Nexus Storage Services
- **Module 13 :** Configuration of Fibre Channel over Ethernet (FCoE)
- **Module 14 :** Description of Device Aliases and Zoning
- **Module 15 :** Configuration of NPIV and NPV Modes

Lab / Exercises

- Test Cisco Nexus Platforms
- Configure User Management
- Configure vPC
- Configure First Hop Redundancy Protocols (FHRP)
- Configure Cisco Nexus Security Features
- Configure OSPF (Open Shortest Path First)
- Configure VXLAN
- Configure QoS
- Configure System Management
- Configure Cisco NX-OS On-Box Programmability
- Configure Containers on Cisco NX-OS
- Configure Cisco NX-OS using Ansible
- Configure Basic Fibre Channel Features
- Configure FCoE
- Configure Device Aliases and Zoning for Fibre Channel
- Configure NPV

Documentation

- Digital course materials included

Participant profiles

- System engineers
- Network architects
- Field engineers
- Data center administrators
- Cisco partners

Prerequisites

- Basic understanding of networking and routing
- Familiarity with Cisco data center technologies
- Basic network security knowledge
- Understanding of switching and routing protocols
- Experience with network infrastructure management

Objectives

- Describe Cisco Nexus switches and platforms
- Configure First Hop Redundancy Protocols (FHRP)
- Secure Cisco Nexus devices
- Configure VXLAN and QoS

- Manage storage services
- Program and manage Cisco NX-OS

Description
Implementing Cisco NX-OS Switches and Fabrics in the Data Center (DCNX) training
Classroom Registration Price (CHF)
3560
Virtual Classroom Registration Price (CHF)
3560
Duration (in Days)
4
Reference
DCNX