

Configuring Cisco Nexus 9000 in NX-OS Mode (C9KNX) v1.2

What you'll learn in this course

The **Configuring Cisco Nexus 9000 in NX-OS Mode (C9KNX) v1.2** course shows you how to implement Cisco Nexus® 9000 Series Switches for data centers running in traditional or NX-OS mode. Through expert instruction and hands-on labs, you'll learn about the hardware and software architecture of the Cisco® Nexus 9000 Series data center switches including the Cisco Nexus 9300 fixed-configuration and Cisco Nexus 9500 modular platforms, programmability and automation features built into these devices, and how to perform management, maintenance, and monitoring activities on Cisco Nexus 9000 Series switch platforms, and more.

Course duration

- Instructor-led training: 3 days in the classroom with hands-on lab practice
- Virtual instructor-led training: 4 days of web-based classes with hands-on lab practice

How you'll benefit

This course will help you:

- Learn how to deploy, maintain, and troubleshoot the Cisco Nexus 9000 Series Switches to support performance, resiliency, scalability, and enhanced operations for data centers
- Gain hands-on experience using powerful features of the Cisco Nexus 9000 Series Switches

Who should enroll

- Data center engineers
- Systems engineers
- Technical architects
- Product specialists in data center technical roles

How to enroll

- For instructor-led training, visit the [Cisco Learning Locator](#)
- For private group training, visit [Cisco Private Group Training](#)

Technology areas

- Data Center

Objectives

After taking this course, you should be able to:

- Explain the design, operation, and features of the Cisco NX-OS operating system
- Describe the operation of the Cisco Nexus 9000 Series of switches
- Configure, troubleshoot, and deploy the Cisco Nexus 9000 Series of switches
- Describe and configure the various automation features of the Cisco Nexus 9000 Series of switches
- Explain and perform maintenance, monitoring, and operations tasks on the Cisco Nexus 9000 series of switches

Prerequisites

To fully benefit from this course, you should have the following knowledge and skills:

- Familiarity with Cisco Ethernet switching products
- Understand Cisco Data Center architecture

Outline

- Cisco NX-OS Architecture, Design, and Operation
 - Cisco NX-OS Software Architecture
 - Cisco NX-OS Platform-Specific Features
 - Cisco NX-OS and Cisco Internetwork Operating System (Cisco IOS®) Software Comparison
- Cisco Nexus 9000 Series Switches for the Data Center
 - Cisco Nexus 9000 Series Hardware Architecture
 - Cisco Nexus 9000 Series Packet Forwarding
 - Troubleshooting Cisco Nexus 9000 Series Switches
 - Cisco Nexus 9000 Series Deployment Considerations
 - Cisco Nexus 9000 Series NX-OS Features
 - Configuring Virtual Extensible LAN (VXLAN)/Ethernet VPN (EVPN) on the Cisco Nexus 9000 Series Switches
- Cisco Nexus 9000 Series Programmability, Automation, and Monitoring
 - Cisco Nexus Programmability Basics
 - Cisco Nexus 9000 Series Automation and Orchestration
- Cisco Nexus 9000 Series Visibility and Monitoring

Lab outline

- Managing Cisco Nexus Hardware and Software
- Configuring Cisco NX-OS Layer 2 Features
- Configuring Cisco NX-OS Layer 3 Features
- Configuring Cisco NX-OS High Availability
- Cisco Nexus 9000 Series Device Management
- Cisco Nexus 9000 Series Troubleshooting
- Configuring VXLAN/EVPN
- Cisco Nexus Programmability
- Discovering Cisco Data Center Network Manager (DCNM)




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