

Introducing Cisco Nexus 9000 Switches in NX-OS Mode (DCINX9K)

ID DCINX9K Preis 2.490,- € (exkl. MwSt.) Dauer 3 Tage

Kursüberblick

The Introducing Cisco Nexus 9000 Switches in NX-OS Mode (DCINX9K) v2.1 course shows you how to implement, manage, and troubleshoot Cisco Nexus 9000 Series Switches in Cisco NX-OS mode. Through expert instruction and extensive hands-on learning, you will learn how to deploy capabilities including Virtual Extensible LAN (VXLAN), Multiprotocol Label Switching (MPLS), high availability features, Intelligent Traffic Director, troubleshooting tools and techniques, NX-OS programmability features, and open interface technologies. The course also provides an introduction to Cisco Data Center Network Manager (DCNM) for management.

Zielgruppe

- Data Center Engineers
- Data Center Architects
- Network Designers
- Network Administrators
- Network Engineers
- Systems Engineers
- Consulting Systems Engineers
- Technical Solutions Architects
- Field Engineers
- Cisco Integrators and Partners

Voraussetzungen

It is recommended, but not required, to have the following skills and knowledge before attending this course:

- Good understanding of networking protocols, routing, and switching
- Understanding of Cisco data center architecture

- Experience configuring advanced routing and switching technologies such as Border Gateway Protocol (BGP) and Open Shortest Path First (OSPF)

This Cisco course can help you meet these prerequisites:

- [Implementing and Administering Cisco Solutions \(CCNA\)](#)

Kursziele

Upon completion of this course, you will be able to:

- Describe Cisco Nexus 9000 Series Switch software and hardware components
- Describe key Cisco Nexus 9000 Series Switch NX-OS software features
- Manage Cisco Nexus 9000 Series Switch configurations using Ansible
- Implement VXLAN BGP eVPN on Cisco Nexus 9000 Series Switches
- Describe MPLS Layer 3 VPN implementation on Cisco Nexus 9000 Series Switches
- Manage Cisco Nexus 9000 Series Switches using NX-API and Python
- Implement Intelligent Traffic Director
- Troubleshoot and manage Cisco Nexus 9000 Series Switches using Bash shell and Guest shell
- Manage Cisco Nexus 9000 Series Switches using Cisco DCNM

This course will help you to:

- Learn how to deploy and troubleshoot the Cisco Nexus 9000 Series Switches in NX-OS mode to support performance, resiliency, scalability, and enhanced operations for data centers
- Use programmability features to configure

and manage the Cisco Nexus 9000 Series Switches, helping your IT organization meet high-priority business needs, save time, and reduce errors due to manual processes

- Gain knowledge and skills through Cisco's unique combination of lessons and hands-on practice using enterprise-grade Cisco learning technologies, data center equipment, and software
- Succeed in today's demanding data center operations roles

Kursinhalt

- Section 1: Describing Cisco Nexus 9000 NX-OS Solution
- Section 2: Implementing VXLAN in Data Center
- Section 3: Implementing MPLS in Data Center
- Section 4: Configuration Management, Automation, and Programmability
- Section 5: Cisco Nexus 9000 Topology Options
- Section 6: Troubleshooting Cisco Nexus 9000 Switches
- Section 7: Managing Cisco Nexus 9000 Switches with Cisco DCNM

Lab Outline

- Discovery 1: Provision Baseline Connectivity with Ansible
- Discovery 2: Implement VXLAN with BGP eVPN Signaling
- Discovery 3: Manage Switch Over Cisco NX-API
- Discovery 4: Program Switch with Python
- Discovery 5: Configure Intelligent Traffic Director
- Discovery 6: Troubleshoot and Manage Switches Using Bash and Guest Shell
- Discovery 7: Provision VXLAN and Manage Switch with Cisco DCNM

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