

Introducing Cisco Nexus 9000 Switches in NX-OS Mode

Duration: 2 Days **Course Code: DCINX9K** **Version: 1.0**

Overview:

DCINX9K is a 2-day ILT training program that is designed for systems and field engineers who install and implement the Cisco Nexus 9000 Switches in NX-OS mode. This course covers the key components and procedures you need to know to install, configure, manage, and troubleshoot the Cisco Nexus 9000 Switch platform.

Target Audience:

This course is designed for: Any engineers or administrators involved in the installation and implementation of a Cisco Nexus 9000 Switch in NX-OS mode.

Objectives:

- Upon completing this course, the learner will be able to meet these overall objectives:
- Describe Cisco products that address market trends in the data center
- Describe Cisco Nexus 9000 Series switch hardware components
- Describe the hardware architecture of modular chassis, modular chassis line cards, and fixed configuration in the Cisco Nexus 9000 Series switches
- Describe features offered in NX-OS available on the Cisco Nexus 9000 Series switches
- Configure VXLAN features on Cisco Nexus 9000 Series Switches
- Describe the programmability, automation, and management features available on Cisco Nexus 9000 Series Switches
- Describe common topology options for configuring Cisco Nexus 9000 Series Switches
- Describe the benefits of adopting Cisco ACI fabric mode on Cisco Nexus 9000 Series Switches

Prerequisites:

The knowledge and skills that a learner must have before attending this course are as follows:

- Good understanding of networking protocols, routing, and switching

To gain the prerequisite skills and knowledge, Cisco strongly recommends the knowledge of the following courses:

- CCNA Certification ICND1 and ICND2 or CCNABC
- Cisco IP Routing Class (ROUTE)
- Cisco Switching Class (SWITCH)

Content:

Cisco Nexus 9000 Series NX-OS Mode Solution

- Data Center Trends
- Cisco Nexus 9000 Solution
- Enhanced Cisco Nexus Operating System

Cisco Nexus 9000 Series Hardware

- Cisco Nexus 9500 Modular Chassis
- Cisco Nexus 9500 Supervisor Modules
- Cisco Nexus 9500 System Controllers
- Cisco Nexus 9500 Fans and Power Supplies
- Cisco Nexus 9500 Fabric Modules
- Cisco Nexus 9500 Line Card Modules
- Cisco Nexus 9300 Fixed Configuration Switches
- Cisco Nexus 9000 Support for Fabric Extenders
- Cabling 40GE and 100GE Networking
- Optics Supported by Cisco Nexus 9000 Switches

Cisco Nexus 9000 Series Hardware Architecture

- Cisco Nexus 9500 Modular Switch Architecture
- Cisco Nexus 9500 Line Card Modules
- Packet Forwarding in the Cisco Nexus 9000 Series Switches
- Cisco Nexus 9300 Architecture

Cisco Nexus Operating System

- NX-OS Features
- High Availability Features of Cisco Nexus 9000 Series Switches
- Management Features of the Cisco Nexus 9000 Switch family

Configuring VXLAN on Cisco Nexus 9000 Series Switches

- Network Overlays in Data Center Design
- VXLAN
- VXLAN Control-Plane Operation
- VXLAN Data Plane Operation
- Configure VXLAN on the Cisco Nexus 9500 Series Switches

Network Programmability and Automation

- Programming Features on Nexus 9000 Series Switches
- VXLAN
- Monitoring Features on the Cisco Nexus 9000 Series Switches

Topology Options for Cisco Nexus 9000 Series Switches

- Traditional Data Center Topologies on the Cisco Nexus 9000 Series Switches
- Spine and Leaf Topologies on the Cisco Nexus 9000 Series Switches
- Overlay Topologies on the Cisco Nexus 9000 Series Switches

Cisco ACI Fabric

- Key Concepts of the Cisco ACI Fabric
- Components of ACI Fabric
- Benefits of Using the Cisco ACI Fabric
- Advanced Services of Cisco ACI fabric

Further Information:

For More information, or to book your course, please call us on +254 713 027 191

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