



Configuring VXLANs on Cisco Nexus 9000 Series Switches

DURATION: 3 DAYS

COURSE CODE: DCVX9K-V

FORMAT: VIRTUAL

COURSE DESCRIPTION

The Configuring VXLANs on Cisco Nexus 9000 Series Switches (DCVX9K) v1.0 course shows you how to deploy Virtual Extensible LAN (VXLAN) on the Cisco Nexus® 9000 Series Switches. Through expert instruction and hands-on lab exercises, you will learn how to implement Border Gateway Protocol (BGP), VXLAN, and Ethernet VPN (EVPN), and to monitor and troubleshoot VXLAN operation.

WHO SHOULD ATTEND

Data center engineers
Systems engineers
Technical architects
Product specialists in data center technical roles
Cisco integrators and partners

PREREQUISITES

Familiarity with Cisco Ethernet switching products
Understanding of Cisco Data Center architecture

LEARNING OBJECTIVES

Understand and describe the operation of the Cisco Nexus 9000 series of switches

Configure BGP operation on the Cisco Nexus 9000 series of switches

Configure VXLAN and EVPN operation on the Cisco Nexus 9000 series of switches

Troubleshoot the Cisco Nexus 9000 series of switches, including EVPN/VXLAN operation

This course will help you:

Build your skills to enable large-scale virtualized and multitenant data centers using Cisco® Nexus 9000 Series Switches

Gain hands-on practice using Cisco Nexus 9000 Series Switches.

COURSE OUTLINE

1. Topology Options for Cisco Nexus 9000 Series

- Traditional Data Center Topologies on the Cisco Nexus 9000
- Spine and Leaf Topologies on the Cisco Nexus 9000 Series Switches
- Overlay Topologies on the Cisco Nexus 9000 Series Switches
- Cisco Nexus 9000 Hardware Basics
- Cisco Nexus 9500 Series Chassis
- Cisco Nexus 9300 Series Switches
- Cisco Nexus 9500 Series Packet Processing

2. BGP Overview and Configuration

- BGP Attributes and Route Processing
- Basic BGP Configuration

3. VXLAN and EVPN on Cisco Nexus 9000 Series Switches

- VXLAN Network with Multiprotocol BGP (MP-BGP) EVPN Control Plane
- VXLAN and EVPN Configuration

4. Monitoring and Troubleshooting VXLAN Operations

- VXLAN EVPN Diagnostic show Commands
- VXLAN EVPN Diagnostic debug Commands
- VXLAN EVPN Troubleshooting Steps
- VXLAN EVPN Troubleshooting Sample Scenarios

DISCOVERY LABS

- 1: Exploring the Cisco Nexus 9000 Switch
- 2: Configuring VXLAN and EVPN
- 3: VXLAN Monitoring and Troubleshooting