

Configuring VXLANs on Cisco Nexus 9000 Series Switches (DCVX9K)

v1.0 - On Demand

Modality: On Demand

Duration: 40 Hours

CLC: 8 Units

Course Information

About this course:

This course will provide you skills to deploy Virtual Extensible LAN (VXLAN) on the Cisco Nexus® 9000 Series Switches.

Through instructor led video training and hands-on lab exercises, you will learn the basic concepts and have practical experience of implementing Border Gateway Protocol (BGP), VXLAN, and Ethernet VPN (EVPN). The course will also help you learn to monitor and troubleshoot VXLAN operation.

Course Objective:

You will have the following skills after taking this course:

- 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
- Understand and describe the operation of the Cisco Nexus 9000 Series of switches
- Configure BGP operation on the Cisco Nexus 9000 Series of switches

Audience:

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

Prerequisite:

You should have the following knowledge and skills to fully benefit from this course:

- Understanding of Cisco data center architecture
- Familiarity with Cisco Ethernet switching products

Course Outline:

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

BGP Overview and Configuration

- BGP Attributes and Route Processing
- Basic BGP Configuration

VXLAN and EVPN on Cisco Nexus 9000 Series Switches

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

Monitoring and Troubleshooting VXLAN Operations

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