

## Implementing Cisco Nexus 9000 Switches in NX-OS Mode - Advanced

**Duration: 180 Days    Course Code: DCNXA    Version: 1.0    Delivery Method: Elearning (Self-paced)**

### Overview:

The Implementing Cisco Nexus 9000 Switches in NX-OS Mode – Advanced (DCNXA) course provides advanced training in applying and managing the Cisco Nexus® 9000 Series Switches in NX-OS mode. The Cisco® NX-OS platform deploys Virtual Extensible LAN (VXLAN) and Ethernet VPN (EVPN) using Cisco Data Center Network Manager (DCNM), implements Multi-Site VXLAN EVPN, and integrates L4-L7 services into the fabric providing external connectivity, utilizing advanced tenant features. You will also learn how to implement Cisco NX-OS Enhanced Policy-Based Redirect (ePBR) and Intelligent Traffic Director (ITD) features.

**This course is worth 32 Continuing Education (CE) Credits**

### Target Audience:

IT professionals interested in understanding the capabilities of Cisco Nexus 9000 Series Switches

### Objectives:

- **After completing this course you should be able to:**
- Configure VXLAN EVPN in a single site using Cisco DCNM
- Configure a Multi-Site VXLAN EVPN
- Configure L4-L7 service redirection
- Configure external connectivity from a VXLAN EVPN
- Configure tenant-level features and Tenant-Routed Multicast (TRM) in VXLAN EVPN
- Configure Cisco NX-OS Enhanced Policy-Based Redirect (ePBR) and Intelligent Traffic Director (ITD)

### Prerequisites:

**Attendees should meet the following prerequisites:**

**Basic knowledge in the following areas can help you get the most from this course:**

- Networking protocols, routing, and switching
- General Cisco data center technologies
- Virtualization fundamentals
- Cisco Nexus platform management
- CCNA - Implementing and Administering Cisco Solutions
- DCFNDU - Understanding Cisco Data Center Foundations
- DCNX - Implementing Cisco NX-OS Switches and Fabrics in the Data Center

### Testing and Certification

**Recommended as preparation for the following exams:**

- There are no exams currently associated to this course

## Content:

### Describing VXLAN EVPN in Single Site

- Describe VXLAN EVPN Control Plane
- Describe VXLAN EVPN Data Plane

### Describing Multi-Site VXLAN EVPN

- Describe VXLAN EVPN Multi-Site Features
- Describe Supported Multi-Site Topologies

### Describing Layer 4-Layer 7 Service Redirection

- Describe Layer 4-Layer 7 Service Integration Options
- Describe Integration of Active/Standby and Active/Active Service Devices

### Describing External Connectivity from VXLAN EVPN

- Describe External VRF-Lite Connectivity

### Describing VXLAN EVPN Functionality Enhancements

- Describe Fabric Management Options
- Describe Tenant-Level Dynamic Host Configuration Protocol (DHCP) Relay

### Describing Cisco NX-OS Enhanced Policy-Based Redirect and Intelligent Traffic Director

- Describe Enhanced Policy-Based Redirect
- Describe Tenant-Level DHCP Relay

### Labs

- Import an Existing VXLAN Border Gateway Protocol (BGP) EVPN Fabric into Cisco DCNM
- Configure vPC and Layer 3 Connectivity
- Configure Multi-Site VXLAN EVPN
- Configure Routed Firewall Integration into VXLAN EVPN Using PBR
- Configure External VRF Lite Connectivity and Endpoint Locator
- Configure Tenant DHCP Relay
- Configure Tenant-Routed Multicast
- Configure Enhanced Policy-Based Redirect
- Configure Traffic Load-Balancing Using the ITD

## Further Information:

For More information, or to book your course, please call us on 00 971 4 446 4987

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