DCNXA - IMPLEMENTING CISCO NEXUS 9000 SWITCHES IN NX-OS MODE V1.0

Course Code: 821400

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.

What You'll Learn

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)

Who Needs to Attend

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

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

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VIRTUAL CLASSROOM LIVE	$5,195 CAD	4 Day

Virtual Classroom Live Outline

- 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

Virtual Classroom Live 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

Nov 17 - 20, 2025 | 8:30 AM - 4:30 PM EST

Jan 12 - 15, 2026 | 8:30 AM - 4:30 PM EST

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ON-DEMAND	$1,912 CAD

On-Demand Outline

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    - ⬚ 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
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    - ⬚ Describe External VRF-Lite Connectivity
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    - ⬚ 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

On-Demand Labs

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- 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

Visit us at www.globalknowledge.com or call us at 1-866-716-6688.