Training overview Cisco public

Implementing Cisco Nexus 9000 Switches in NX-OS Mode – Advanced (DCNXA)

Description

The Implementing Cisco Nexus 9000 Switches in NX-OS Mode—Advanced (DCNXA) training 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 training also earns 32 Continuing Education (CE) credits toward recertification.

How you'll benefit

This training will help you:

- Learn how you can integrate Cisco Nexus 9000 Switches in NX-OS mode to manage your enterprise IT environment
- Understand the common platform architecture and key features of the Cisco Nexus 9000 Series in NX-OS mode to provide a consistent set of provisioning, management, and diagnostic capabilities for applications
- Earn 32 CE credits toward recertification

Who should enroll

- Data Center Engineers
- Field Engineers
- Network Designers
- Network Administrators
- Network Engineers
- Systems Engineers

Technical Solutions Architects

Technology areas

Data Center

Objectives

- 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

There are no prerequisites for this training. However, the knowledge and skills you are recommended to have before attending this training are:

- Networking protocols, routing, and switching
- General Cisco data center technologies
- Virtualization fundamentals
- Cisco Nexus platform management

These skills can be found in the following Cisco Learning Offerings:

- Implementing and Administering Cisco Solutions (CCNA)
- Understanding Cisco Data Center Foundations (DCFNDU)
- Implementing and Operating Cisco Data Center Core Technologies (DCCOR)
- Implementing Cisco Nexus 9000 Switches in NX-OS Mode (DCNX)

Outline

- Describing VXLAN EVPN in Single Site
- Describing Multi-Site VXLAN EVPN
- Describing Layer 4-Layer 7 Service Redirection
- Describing External Connectivity from VXLAN EVPN
- Describing VXLAN EVPN Functionality Enhancements
- Describing Cisco NX-OS Enhanced Policy-Based Redirect and Intelligent Traffic Director

Lab Outline

- 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

Links

- Cisco U. Learning Path
- Cisco Learning Network Store
- Cisco Learning Locator