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

Description

An advanced training to master Cisco Nexus 9000

The Implementing Cisco Nexus 9000 Switches in NX-OS Mode – Advanced (DCNXA) course provides you with the necessary skills to manage and configure Cisco Nexus® 9000 series switches in NX-OS mode. You will gain in-depth knowledge of VXLAN EVPN integration, multi-site configurations, and advanced features of the Cisco NX-OS platform. In addition to acquiring technical knowledge, you will learn how to implement policy-based traffic redirection services while ensuring external connectivity. With this training, you will be able to optimize the management of your data center while integrating L4-L7 services. Whether you are a network engineer or a system administrator, this course meets the current needs of professionals managing complex networks.

Why choose this training?

With advanced technical content and hands-on labs, you will be ready to face the challenges of network administration. You will master the integration of VXLAN EVPN across multiple sites, external connectivity management, and traffic optimization through advanced solutions like Enhanced Policy-Based Redirect (ePBR). Register now to become a certified expert on Cisco Nexus 9000 switches.

Course Content

- **Module 1:** Describe VXLAN EVPN on a single site
- **Module 2:** Describe multi-site VXLAN EVPN
- **Module 3:** Describe Layer 4 to Layer 7 service redirection
- **Module 4:** Describe external VXLAN EVPN connectivity
- **Module 5:** Describe VXLAN EVPN feature enhancements
- **Module 6:** Describe enhanced policy-based redirection and Cisco NX-OS Intelligent Traffic Director

Lab / Exercises

- Import an existing EVPN VXLAN BGP (Border Gateway Protocol) structure 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 the Endpoint Locator
- Configure DHCP relay for tenants
- Configure tenant-routed multicast
- Configure enhanced policy-based redirection
- Configure traffic load balancing using ITD

Documentation

- Digital course materials included

Participant profiles

- Data center engineer
- Network administrator
- Technical solutions architect
- Network engineer
- Network designer

Prerequisites

- Understanding of networking protocols
- Knowledge of routing and switching
- Mastery of virtualization technologies
- Knowledge of Cisco data center concepts
- Management of Cisco Nexus platform

Objectives

- Configure a VXLAN EVPN on a single site
- Configure a multi-site VXLAN EVPN
- Integrate L4-L7 services
- Configure external VXLAN EVPN connectivity
- Implement tenant-routed multicast (TRM)
- Implement policy-based redirection (ePBR)

Description
Implementing Cisco Nexus 9000 Switches in NX-OS Mode – Advanced (DCNXA) training
Niveau
Avancé
Classroom Registration Price (CHF)
3560
Virtual Classroom Registration Price (CHF)
3560
Duration (in Days)
4
Reference
DCNXA