

# Course : Implementing Cisco Nexus 9000 Switches in NX-OS Mode - Advanced (DCNXA)

Advanced deployment of Cisco Nexus 9000 switches in NX-OS mode

*Practical course - 4d - 28h00 - Ref. NXD*

*Price : 3640 € E.T.*

NEW

With this course, you'll learn how to implement Cisco Nexus 9000 switches in NX-OS mode. You'll learn how to deploy VXLAN/EVPN architectures with Cisco DCNM, manage multi-site environments, integrate Layer 4 to 7 (L4-L7) application services, and master advanced features such as policy-based traffic redirection (ePBR) and intelligent traffic distribution (ITD) to optimize the performance of your network infrastructure.

## Teaching objectives

At the end of the training, the participant will be able to:

- ✓ Configuring a single-site VXLAN EVPN architecture using Cisco DCNM
- ✓ Configuring a multi-site VXLAN EVPN architecture
- ✓ Configuring L4-L7 service redirection
- ✓ Configuring external connectivity from a VXLAN EVPN network
- ✓ Configuring tenant-specific functionality in a VXLAN EVPN environment
- ✓ Configure advanced redirection and intelligent traffic management features in Cisco NX-OS

## Intended audience

Data center engineers, field engineers, network administrators and designers, systems engineers and technical architects.

## Prerequisites

No prerequisites, but basic knowledge of networks, data center infrastructures, virtualization and Cisco Nexus equipment management is recommended.

## PARTICIPANTS

Data center engineers, field engineers, network administrators and designers, systems engineers and technical architects.

## PREREQUISITES

No prerequisites, but basic knowledge of networks, data center infrastructures, virtualization and Cisco Nexus equipment management is recommended.

## TRAINER QUALIFICATIONS

The experts who lead the training courses are specialists in the subjects covered. They are approved by the publisher and certified for the course. They have also been validated by our teaching teams in terms of both professional knowledge and teaching skills for each course they teach. They have at least three to ten years of experience in their field and hold or have held positions of responsibility in companies.

## ASSESSMENT TERMS

Assessment of targeted skills prior to training.

Assessment by the participant, at the end of the training course, of the skills acquired during the training course.

Validation by the trainer of the participant's learning outcomes, specifying the tools used: multiple-choice questions, role-playing exercises, etc.

At the end of each training course, ITTCERT provides participants with a course evaluation questionnaire, which is then analysed by our teaching teams. Participants also complete an official evaluation of the publisher.

An attendance sheet for each half-day of attendance is provided at the end of the training course, along with a certificate of completion if the participant has attended the entire session.

## Certification

Official course without certification.

[Comment passer votre examen ?](#)

## Practical details

### Teaching methods

Training in French. Official course material in English.

## Course schedule

### 1 Official program

- Describe VXLAN EVPN on a single site.
- Describe VXLAN EVPN in a multi-site environment.
- Describe the redirection of Layer 4 to 7 services (L4-L7).
- Describe external connectivity from a VXLAN EVPN infrastructure.
- Describe VXLAN EVPN feature enhancements.
- Describe Cisco NX-OS Enhanced Policy-Based Redirect (ePBR) and Intelligent Traffic Director (ITD) features.

### 2 Official practical work

- Import an existing BGP-based VXLAN EVPN infrastructure into Cisco DCNM.
- Configure vPC and Layer 3 connectivity.
- Configure a multi-site VXLAN EVPN architecture.
- Integrate a routed firewall into VXLAN EVPN using policy-based redirection (PBR).
- Configure VRF Lite external connectivity and endpoint location service.
- Configure DHCP relay for tenants.
- Configure Tenant-Routed Multicast.
- Configure Enhanced Policy-Based Redirect.
- Configure traffic load balancing with Intelligent Traffic Director (ITD).

### TEACHING AIDS AND TECHNICAL RESOURCES

The teaching resources used are the publisher's official materials and practical exercises.

### TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training course.

### ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you have specific accessibility requirements? Contact Ms FOSSE, disability advisor, at the following address: [psh-accueil@orsys.fr](mailto:psh-accueil@orsys.fr) so that we can assess your request and its feasibility.