Course : Implementing Cisco NX-OS Switches and Fabrics in the Data Center (DCNX)

Official Cisco Course

Practical course - 5d - 35h00 - Ref. CN5
Price : 4190 € E.T.

NEW

In this course, you will learn how to install, configure, and manage Cisco Nexus switches in a scalable, highly available data center environment. You will also learn about security, automation, and storage concepts, as well as Fibre Channel, FCoE, NPIV, and NPV technologies.

INFORMATION

For all registrations for open-enrollment or in-house training, each participant must have a Cisco Learning Space account associated with the email address used when registering for the training. This mandatory step provides access to the official Cisco training materials.

Teaching objectives

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

- Understanding the Architecture and Key Features of Cisco Nexus Switches
- Install, Configure, and Manage Cisco Nexus Infrastructure in Data Centers
- Implement high availability, routing, and security for Nexus devices
- Configure advanced network services such as VXLAN, QoS, and FCoE
- Monitor, automate, and manage storage services in a Cisco Nexus environment

Intended audience

Data center systems engineers, field engineers, architects, and Cisco partners who use switches from the Cisco Nexus series.

PARTICIPANTS

Data center systems engineers, field engineers, architects, and Cisco partners who use switches from the Cisco Nexus series.

PREREQUISITES

There are no mandatory prerequisites. Knowledge of Cisco data center technologies, as well as the basics of routing, switching, and network protocols, is recommended. A good understanding of written English is also 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.

Prerequisites

There are no mandatory prerequisites. Knowledge of Cisco data center technologies, as well as the basics of routing, switching, and network protocols, is recommended. A good understanding of written English is also recommended.

Course schedule

1 Official Program

- Overview of the Cisco Nexus Switch Portfolio.
- Overview of the implementation of Cisco Nexus platforms.
- Overview of Cisco Nexus Platform Management.
- Overview of Port Channels and Virtual Port Channels (vPCs).
- Configuring First Hop Redundancy Protocols (FHRP).
- Configuring Security Features on Cisco Nexus Devices.
- An Introduction to Routing and Forwarding in Cisco NX-OS.
- Introduction to the Virtual Extensible LAN (VXLAN).
- Overview of Quality of Service (QoS) on Cisco Nexus Devices.
- Configuring system management and monitoring.
- Overview of Cisco NX-OS programmability features.
- Overview of Cisco Nexus Storage Services.
- Configuring Fibre Channel over Ethernet (FCoE).
- Overview of Device Aliases and Zoning.
- Configuring NPIV (N_Port ID Virtualization) and NPV (N_Port Virtualizer) modes.

2 Official Lab Sessions

- Evaluation of Cisco Nexus Platforms.
- Configure user management.
- Configure Virtual Port Channels (vPCs).
- Configure the First Hop Redundancy Protocol (FHRP).
- Configure Cisco Nexus security features.
- Configure Open Shortest Path First (OSPF).
- Configure VXLAN (Virtual Extensible LAN).
- Configure Quality of Service (QoS).
- Configure system management.
- Configure Cisco NX-OS Embedded Programmability (On-Box Programmability).
- Configure containers on Cisco NX-OS.
- Configure Cisco NX-OS using Ansible.
- Configure the basic features of Fibre Channel.
- Configure Fibre Channel over Ethernet (FCoE).
- Configure Fibre Channel device aliases and zoning.
- Configure NPV (N_Port Virtualizer) mode.

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Dates and locations

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 so that we can assess your request and its feasibility.

REMOTE CLASS
2026 : 30 Nov.

2027 : 8 Mar., 14 June, 6 Sep., 29 Nov.

PARIS LA DÉFENSE
2027 : 1 Mar., 7 June, 30 Aug., 22 Nov.