

DCINX

Introducing Cisco NX-OS Switches and Fabrics in the Data Center

16 horas

Data Center

Cisco

INTRODUÇÃO

The Introducing Cisco NX-OS Switches and Fabrics in the Data Center (DCINX) v1.0 course gives you a technical overview the Cisco Nexus® Switches key capabilities including platforms, architecture, software, management, and features that contribute to performance, high availability, flexibility, operational simplicity, and investment protection. The course is for technical decision makers and IT professionals who architect, implement, and manage Cisco Nexus switches in data center environments. You will have hands-on practice exploring key features including Virtual Device Contexts (VDC), First Hop Redundancy protocols (FHRPs), and user management.

The Configuring Cisco NX-OS Switches and Fabrics in the Data Center (DCCNX) v1.0 course may also be taken after taking this course to learn how to configure the Cisco Nexus Switches using Cisco® NX-OS.

This course will help you:

- Understand the common platform architecture and key features of the Cisco Nexus Series Switches;
- Implement data center virtualization and redundancy features using Cisco NX-OS;
- Gain introductory-level hands-on experience using Cisco Nexus Series Switches.

OBJETIVO DO CURSO

After taking this course, you should be able to:

- Identify the platforms that make the Cisco Nexus 7000, 5000, 3000, and 2000 product families;
- Implement Cisco Nexus;
- Explore Cisco Nexus basic features;
- Describe virtual device contexts;
- Describe port channels and virtual port channels;
- Configure First Hop Redundancy protocols.

PÚBLICO-ALVO

Data Center Professionals who seek training to deploy, secure, operate, and maintain Cisco Nexus Switches.

PRÉ-REQUISITOS

To fully benefit from this course, you should have the following knowledge and skills:

- Familiarity with Cisco data center technologies;
- Understand networking protocols, routing, and switching;
- Understand business and application requirements.

For reference these are the recommended Cisco courses that may help you meet these prerequisites:

- Implementing and Administering Cisco Solutions (CCNA®);
- Understanding Cisco Data Center Foundations (DCFNDU) v1.0;
- Implementing and Operating Cisco Data Center Core Technologies (DCCOR) v1.0.

CONTEÚDO PROGRAMÁTICO

Course Introduction

Course Outline

Course Goals & Objectives

Identifying Cisco Nexus Platforms

Cisco Nexus 7000 and 7700 Series Overview

Cisco Nexus 5600 Series Overview

Cisco Nexus 3000 Series Overview

Cisco Nexus 2000 Series Overview

Implementing Cisco Nexus Platforms

Cisco Nexus in Data Center Architecture

Cisco NX-OS Software

Licensing Model

Managing Cisco Nexus Platforms

Cisco Nexus Command-line Interface (CLI) and GUI Management Interfaces

Cisco NX-OS Setup Utility

PowerOn Auto Provisioning

Cisco NX-OS User Management

User Account and Role Configuration

Describing Virtual Device Contexts (VDC)

Virtual Device Context

VDC Types

VDC Resources and Resource Templates

Describing Port Channels and Virtual Port Channels

Port Channel Operation

vPC Concept and Benefits

vPC Architecture

vPC Control and Data Plane

Configuring First Hop Redundancy Protocols

Hot Standby Router Protocol (HSRP) Overview

Virtual Router Redundancy Protocol (VRRP) Overview

Gateway Load Balancing Protocol (GLBP) Overview

Lab Outline

Lab 1: Explore Cisco Nexus Platforms

Lab 2: Configure User Management

Lab 3: Configure VDC and User Management

Lab 4: Configure and Verify vPC

Lab 5: Configure FHRP Protocols