

C9KNX

Configuring Cisco Nexus 9000 in NX-OS Mode (C9KNX)

24 horas

Data Center & Cloud

Cisco

INTRODUÇÃO

The Configuring Cisco Nexus 9000 in NX-OS Mode (C9KNX) It covers the overall architecture and operation of the Cisco Nexus 9000 Series Switches for data centers running in traditional or NX-OS mode. You will learn about the hardware and software architecture of the Cisco Nexus 9000 Series data center switches, including the Cisco Nexus 9300 fixed-configuration and Cisco Nexus 9500 modular platforms. Also, you have the opportunity to explore the programmability and automation features built into these devices, including, but not limited to, Python, Power On Auto Provisioning (POAP), shell access, and the NX-API interface. In addition, you will discover how to perform management, maintenance, and monitoring activities on Cisco Nexus 9000 Series switch platforms. This course combines lecture materials and hands-on labs throughout to make sure you are able to successfully deploy, configure, maintain, and troubleshoot a Cisco Nexus 9000 Series switch infrastructure.

This course will help you:

- Learn how to deploy, maintain, and troubleshoot the Cisco Nexus 9000 Series Switches to support performance, resiliency, scalability, and enhanced operations for data centers;
- Gain hands-on experience using powerful features of the Cisco Nexus 9000 Series Switches.

Training From Cisco Advanced Services.

OBJETIVO DO CURSO

After taking this course, you should be able to:

- Explain the design, operation, and features of the Cisco NX-OS operating system;
- Describe the operation of the Cisco Nexus 9000 Series of switches;
- Configure, troubleshoot, and deploy the Cisco Nexus 9000 Series of switches;
- Describe and configure the various automation features of the Cisco Nexus 9000 Series of switches;
- Explain and perform maintenance, monitoring, and operations tasks on the Cisco Nexus 9000 series of switches.

PÚBLICO-ALVO

Data Center Professionals who seek training to deploy, operate, and maintain Cisco Nexus 9000 Switches.

PRÉ-REQUISITOS

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

- Familiarity with Cisco Ethernet switching products;
- Understand Cisco Data Center architecture.

CONTEÚDO PROGRAMÁTICO

Course Introduction

Course Outline

Course Goals & Objectives

Cisco NX-OS Architecture, Design, and Operation

Cisco NX-OS Software Architecture

Cisco NX-OS Platform-Specific Features

Cisco NX-OS and Cisco Internetwork Operating System (Cisco IOS®) Software Comparison

Cisco Nexus 9000 Series Switches for the Data Center

Cisco Nexus 9000 Series Hardware Architecture

Cisco Nexus 9000 Series Packet Forwarding

Troubleshooting Cisco Nexus 9000 Series Switches

Cisco Nexus 9000 Series Deployment Considerations

Cisco Nexus 9000 Series NX-OS Features

Configuring Virtual Extensible LAN (VXLAN)/Ethernet VPN (EVPN) on the Cisco Nexus 9000 Series Switches

Cisco Nexus 9000 Series Programmability, Automation, and Monitoring

Cisco Nexus Programmability Basics

Cisco Nexus 9000 Series Automation and Orchestration

Cisco Nexus 9000 Series Visibility and Monitoring

Lab outline

Lab 1: Managing Cisco Nexus Hardware and Software

Lab 2: Configuring Cisco NX-OS Layer 2 Features

Lab 3: Configuring Cisco NX-OS Layer 3 Features

Lab 4: Configuring Cisco NX-OS High Availability

Lab 5: Cisco Nexus 9000 Series Device Management

Lab 6: Cisco Nexus 9000 Series Troubleshooting

Lab 7: Configuring VXLAN/EVPN

Lab 8: Cisco Nexus Programmability

Lab 9: Discovering Cisco Data Center Network Manager (DCNM)