

# DCAC9K (CONFIGURING CISCO NEXUS 9000 SERIES SWITCHES IN ACI MODE) 2.0

## Objetivo

The Configuring Cisco Nexus 9000 Series Switches in ACI Mode (DCAC9K) v3.0 course is designed for senior engineers and IT professionals who implement and manage Cisco Nexus 9000 Series Switches in Cisco Application Centric Infrastructure (Cisco ACI) mode. This course covers the key components of the Cisco ACI architecture, along with the knowledge and hands-on skills you need to configure, manage, and troubleshoot Cisco Nexus 9000 Series Switches in Cisco ACI mode and connect the Cisco ACI fabric to external networks and services. You will learn how to deploy Cisco ACI security, networking, virtualization, automation, and programmability features on the Cisco Nexus 9000 Series Switches and migrate to a policy-enforced data center. Upon completion of this course, you will be able to:

- Install the Cisco Nexus 9000 Series Switches in Cisco ACI mode
- Deploy the Cisco ACI fabric
- Configure the Cisco ACI controller (Application Policy Infrastructure Controller [APIC])
- Describe the Cisco Nexus 9000 Series Switch hardware
- Understand the differences between Cisco ACI code versions
- Configure Cisco ACI Layer 4 through Layer 7 service integration
- Integrate virtual and physical workloads in a multihypervisor fabric
- Deploy the security and management capabilities of the Cisco ACI network
- Connect Cisco ACI to outside networks
- Extend and interconnect the Cisco ACI fabric
- Migrate from a traditional data center to Cisco ACI with a common, policy-enforced approach
- Manage Cisco ACI
- Program and orchestrate the Cisco ACI network
- Troubleshoot Cisco ACI

## Público Alvo

- Data Center Engineers
- Data Center Architects
- Network Designers
- Network Administrators
- Network Engineers
- Virtualization Engineers
- Cloud Infrastructure Engineers
- Systems Engineers
- Consulting Systems Engineers
- Technical Solutions Architects
- Field Engineers
- Cisco Integrators and Partners

## Pré-Requisitos

It is recommended, but not required, to have the following skills and knowledge before attending this course:

- Understanding of Cisco Ethernet switching products
- Understanding of Cisco data center architecture
- Familiarity with the fundamentals of server virtualization
- Experience configuring advanced routing and switching technologies such as Border Gateway Protocol (BGP), Open Shortest Path First (OSPF), and intermediate system to intermediate system (IS-IS). These are the recommended Cisco courses that may help you meet these prerequisites:
- Interconnecting Cisco Networking Devices, Part 1 (ICND1), and Interconnecting Cisco Networking Devices, Part 2 (ICND2)
- Implementing Cisco IP Routing (ROUTE)
- Implementing Cisco IP Switched Networks (SWITCH)

## Carga Horária

40 horas (5 dias).

## Conteúdo Programático

### Course Outline

- Section 1: Cisco ACI Overview
- Section 2: Cisco ACI Codes, Delta Releases, and Features
- Section 3: Virtualization, Containers, and Third-Party Integration Features
- Section 4: Security and Monitoring Features
- Section 5: Cisco ACI External Networking
- Section 6: Cisco ACI Fabric Extensions and Interconnections
- Section 7: Fabric Management and Automation
- Section 8: Common Troubleshooting Scenarios

### Lab Outline

- Discovery 1: Explore the Cisco ACI Fabric Inventory
- Discovery 2: Implement Cisco ACI Fabric Connectivity
- Discovery 3: Configure Cisco ACI Logical Constructs
- Discovery 4: Integrate Cisco ACI with VMware Using Native DVS
- Discovery 5: Deploy Cisco ACI Virtual Edge and Microsegmentation
- Discovery 6: Integrate Cisco ASAv with Cisco APIC
- Discovery 7: Configure Role-Based Access Control
- Discovery 8: Explore Cisco ACI Monitoring and Netflow
- Discovery 9: Enable Connectivity to External L3 Networks
- Discovery 10: Enable Connectivity to External L2 Networks
- Discovery 11: Configure Cisco APIC Using REST API
- Discovery 12: Configure Cisco APIC Using Python Scripts
- Discovery 13: Explore Cisco ACI App Center and Cisco ACI Optimize Feature
- Discovery 14: Explore Cisco ACI Troubleshooting Tools
- Discovery 15: Export TechSupport