



Implementing Cisco Application Centric Infrastructure-Advanced (DCACIA)

Cisco

- **Nível:** Avançado
 - **Duração:** 35h
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Sobre o curso

The **Implementing Cisco Application Centric Infrastructure-Advanced (DCACIA)** course shows you how to integrate the capabilities of the Cisco® Nexus® 9000 Series Switches in Cisco Application Centric Infrastructure (Cisco ACI®) mode.

You will learn how to configure and manage Cisco Nexus 9000 Series Switches in ACI mode providing enhanced management and policy framework, along with the protocols used in the underlying fabric. The course also covers how to use Cisco ACI as a policy-driven solution that integrates software and hardware, and how to implement Cisco ACI Multi-Pod and Nexus Dashboard Orchestrator (NDO) deployments. You will gain hands-on practice implementing advanced ACI capabilities such as Rogue Endpoint Feature, Transit Routing, VRF Route Leaking, Contracts and Zoning Rules, Policy Based Redirect to Layer 4-7 Service Node, Multi-Pod Fabric and Cisco ACI® Nexus Dashboard Orchestrator.

This course will help you:

- Learn best practices for implementing and managing Cisco Nexus 9000 Series Switches in Cisco ACI mode
- Leverage the integration software and hardware solutions to expand the capabilities of data center and cloud networks
- Maximize the benefits of an application-centric approach to deliver automation and flexibility in IT services, and automate fabric deployment and configuration
- Prepare for **300-630 DCACIA** exam which counts toward the **CCNP Data Center** certification

Destinatários

- Network designers
- Network administrators
- Network engineers
- Systems engineers
- Data center engineers
- Consulting systems engineers
- Technical solutions architects
- Field engineers
- Server administrators
- Network managers
- Storage administrators
- Cisco integrators and partners

- Project managers
 - Program managers
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Objetivos

After taking this course, you should be able to:

- Explain Cisco ACI advanced fabric packet forwarding
 - Explain advanced ACI policy and tenant configuration
 - Describe Cisco ACI Multi-Pod deployment
 - Explain the details and consideration of implementing and integrating traditional network with Cisco ACI
 - Describe Cisco ACI Service Graph Policy-Based Redirect (PBR)
 - Describe Cisco ACI Nexus Dashboard Orchestrator deployment
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Condições

Após a formação, é possível adquirir, o exame de certificação do parceiro oficial com 10% de desconto. Oferta válida até 6 meses após a conclusão do curso.

Pré-requisitos

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

- Basic understanding of Cisco ACI
- Understanding of Cisco data center architecture
- Familiarity with virtualization fundamentals

These are the recommended Cisco learning offerings that may help you meet these prerequisites:

- [Implementing Cisco Application Centric Infrastructure \(DCACI\)](#)
 - [Implementing and Administering Cisco Solutions \(CCNA®\)](#)
 - [Understanding Cisco Data Center Foundations \(DCFNDU\)](#)
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Metodologia

- Instructor-led classroom: 5 days in the classroom with hands-on lab practice

or

- Instructor-led virtual classroom: 5 days of web-based classes with hands-on lab practice
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Programa

- Cisco ACI Advanced Packet Forwarding
- Using Advanced Cisco ACI Policy and Tenant Configuration
- Implementing Traditional Network in Cisco ACI
- Cisco ACI Service Graph PBR
- Cisco ACI Multi-Pod Deployment

- Cisco Nexus Dashboard Deployment

Cisco ACI Advanced Packet Forwarding

- Packet Forwarding Between Leaf Switches
- Endpoint Learning

Using Advanced Cisco ACI Policy and Tenant Configuration

- Layer 3 Outside Transit Routing
- Using Tenant Common for Shared Services

Implementing Traditional Network in Cisco ACI

- Integrating Switched Network with Cisco ACI
- Migrating Existing Switched Network to Cisco ACI

Cisco ACI Service Graph PBR

- Service Graph PBR Overview
- PBR End-to-End Packet Flow

Cisco ACI Multi-Pod Deployment

- Cisco ACI Multi-Pod Overview

- Inter-Pod Network Overview

Cisco Nexus Dashboard Deployment

- Cisco Nexus Dashboard Overview

- Cisco Nexus Dashboard Orchestrator

Lab outline

- Examine Local and Remote Endpoint Learning
- Verify Bounce Entries
- Validate IP Learning
- Mitigate IP and MAC Flapping with the Rogue Endpoint Feature
- Enable Transit Routing
- Implement VRF Route Leaking
- Configure VRF Route Leaking with L3Out

- Examine Contracts and Zoning Rules
- Configure Policy-Based Redirect to Layer 4-7 Service Node
- Deploy Multi-Pod Fabric
- Provision Policies with Cisco ACI Multi-Site Orchestrator