

DCACI**Implementing Cisco Application Centric Infrastructure**

40 horas

Data Center & Cloud

Cisco

Cisco Continuing Education Credits

40 CE Credits**INTRODUÇÃO**

The Implementing Cisco Application Centric Infrastructure (DCACI) v1.1 course shows you how to deploy and manage 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, how to connect the Cisco ACI fabric to external networks and services, and the fundamentals of Virtual Machine Manager (VMM) integration. You will gain hands-on practice implementing key capabilities such as fabric discovery, policies, connectivity, VMM integration, and more.

This course will help you:

- Gain the skills and hands-on practice integrating the enhanced, automated capabilities of Cisco Nexus 9000 Series Switches in ACI mode for quicker application deployment;
- Get the knowledge for protocols, solutions and designs to acquire professional-level and expert-level data center job roles.

This course helps you prepare to take the exam:

- 300-620 Implementing Cisco Application Centric Infrastructure (DCACI).

The 300-620 DCACI exam certifies your knowledge of Cisco switches in ACI mode including configuration, implementation, and management.

After you pass 300-620 DCACI, you earn the Cisco Certified Specialist – Data Center ACI Implementation certification and you satisfy the concentration exam requirement for the CCNP Data Center certification.

Software ACI: 5.X

OBJETIVO DO CURSO

After taking this course, you should be able to:

- Describe Cisco ACI Fabric Infrastructure and basic Cisco ACI concepts;
- Describe Cisco ACI policy model logical constructs;
- Describe Cisco ACI basic packet forwarding;
- Describe external network connectivity;
- Describe VMM Integration;
- Describe Layer 4 to Layer 7 integrations;
- Explain Cisco ACI management features.

PÚBLICO-ALVO

Professionals interested in implementing, configuring, operating and management solutions using the Cisco ACI & Nexus 9000 ACI Mode Solutions

This course also helps prepare student to take 300-620 Implementing Cisco Application Centric Infrastructure (DCACI) exam, which is part of the new CCNP® Data Center.

PRÉ-REQUISITOS

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

- Understanding of networking protocols, routing, and switching;
- Familiarity with Cisco Ethernet switching products;
- Understanding of Cisco data center architecture;
- Familiarity with virtualization fundamentals.

For reference, the following Cisco courses may help you meet these prerequisites:

- Implementing and Administering Cisco Solutions (CCNA) v1.0
- Understanding Cisco Data Center Foundations (DCFNDU) v1.0

Course Introduction

Course Outline

Course Goals & Objectives

Introducing Cisco ACI Fabric Infrastructure and Basic Concepts

What Is Cisco ACI?

Cisco ACI Topology and Hardware

Cisco ACI Object Model

Faults, Event Record, and Audit Log

Cisco ACI Fabric Discovery

Cisco ACI Access Policies

Describing Cisco ACI Policy Model Logical Constructs

Cisco ACI Logical Constructs

Tenant

Virtual Routing and Forwarding

Bridge Domain

Endpoint Group

Application Profile

Tenant Components Review

Adding Bare-Metal Servers to Endpoint Groups

Contracts

Describing Cisco ACI Basic Packet Forwarding

Endpoint Learning

Basic Bridge Domain Configuration Knob

Introducing External Network Connectivity

Cisco ACI External Connectivity Options

External Layer 2 Network Connectivity

External Layer 3 Network Connectivity

Introducing VMM Integration

VMware vCenter VDS Integration

Resolution Immediacy in VMM

Alternative VMM Integrations

Describing Layer 4 to Layer 7 Integrations

Service Appliance Insertion Without ACI L4-L7 Service Graph

Service Appliance Insertion via ACI L4-L7 Service Graph

Service Graph Configuration Workflow

Service Graph PBR Introduction

Explaining Cisco ACI Management

Out-of-Band Management

In-Band Management

Syslog

Simple Network Management Protocol

Configuration Backup

Authentication, Authorization, and Accounting

Role-Based Access Control

Cisco ACI Upgrade

Collect Tech Support

Lab Outline

Lab 1: Validate Fabric Discovery

Lab 2: Configure Network Time Protocol (NTP)

Lab 3: Create Access Policies and Virtual Port Channel (vPC)

Lab 4: Enable Layer 2 Connectivity in the Same Endpoint Group (EPG)

Lab 5: Enable Inter-EPG Layer 2 Connectivity

Lab 6: Enable Inter-EPG Layer 3 Connectivity

Lab 7: Compare Traffic Forwarding Methods in a Bridge Domain

Lab 8: Configure External Layer 2 (L2Out) Connection

Lab 9: Configure External Layer 3 (L3Out) Connection

Lab 10: Integrate Cisco APIC with VMware vCenter Using DVS