

Cisco ACI in the Cisco Nexus Data Center (CACND) v4.0

What you'll learn in this course

The **Configuring Cisco ACI in the Cisco Nexus Data Center (CACND)** v4.0 course shows you how to deploy, operate, and maintain the Cisco® Application Centric Infrastructure (Cisco ACI®) in a data center using the Cisco Nexus® 9000 Series Switches. You will gain hands-on experience configuring and operating the Cisco ACI environment, configuring virtual port channels, connecting physical endpoints, practicing troubleshooting, and more.

Course duration

- Instructor-led training: 4 days in the classroom with hands-on lab practice
- Virtual instructor-led training: 5 days of web-based classes with hands-on lab practice

How you'll benefit

This course will help you:

- Build your skills the using the Application Policy Infrastructure Controller (APIC) to manage the policy on Cisco Nexus 9000 Series Switches in the ACI fabric
- Gain hands-on practice using Cisco ACI

Who should enroll

- Data center engineers
- Technical support personnel
- Cisco integrators and partners

How to enroll

- For instructor-led training, visit the [Cisco Learning Locator](#).
- For private group training, visit [Cisco Private Group Training](#).

Technology areas

- Data Center

Objectives

After taking this course, you should be able to:

- Describe the philosophy behind the Cisco ACI Model
- Describe and configure the Cisco Nexus 9000 series of switches
- Configure basic tasks using the Cisco APIC
- Configure advanced tasks using the Cisco APIC
- Configure Cisco ACI to work with VMware

Prerequisites

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

- Complete knowledge of traditional networking
- Data center and virtualization

Outline

- Introduction to Cisco ACI
 - Examining Cisco ACI Components
 - Examining Cisco ACI Operations
- Cisco ACI Component Architecture
 - Examining the Operation of the Cisco ACI Fabric
 - Exploring the Cisco Nexus 9000 Series Switches
 - Examining the Cisco APIC
 - Managing Cisco ACI
- Cisco ACI Configuration and Operation
 - Configuring the Cisco APIC from the GUI
 - Configuring the Cisco APIC from the Command Line Interface (CLI)
 - Configuring the Cisco APIC from the API
 - Configuring Fabric Access
 - Configuring Virtual Port Channels
 - Configuring ACI Connectivity to External Networks
 - Troubleshooting Cisco ACI
- Cisco ACI Hypervisor Integration
 - Configuring ACI Integration with VMware
- Cisco ACI Advanced Features Configuration
 - Configuring Microsegmentation and Intra-EPG Isolation
 - Examining Transit Routing
 - Configuring Policy-Based Redirect
 - Configuring IP Multicast
 - Examining ACI Multifabric Options

Lab outline

- Exploring the Cisco ACI Fabric
- Exploring the Cisco APIC
- Operational Element Configuration from the GUI
- Operational Element Configuration from the CLI
- Operational Element Configuration from the API
- Endpoint Physical Connectivity
- Configuring Virtual Port Channels
- Cisco ACI External Connectivity

- Cisco ACI Troubleshooting
- VM Integration with Cisco ACI
- Configuring a Multisite Tenant



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