



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 phycial 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

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
- \circ Configuring Microsegmentation and Intra-EPG Isolation
- Examining Transit Routing

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 ChannelsConfiguring ACI Integration with VMware
- Cisco ACI External Connectivity Transit Routing Cisco ACI Troubleshooting