



Implementing Cisco Application Centric Infrastructure–Advanced (DCACIA)

Description

The **Implementing Cisco Application Centric Infrastructure–Advanced (DCACIA)** training 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 training 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 Multi-Site 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® Multi-Site Orchestrator.

This training prepares you for the 300-630 DCACIA v1.0 exam, which earns you the Cisco Certified Specialist – Data Center ACI Advanced Implementation certification and satisfies the concentration exam requirement for the Cisco Certified Network Professional (CCNP) Data Center certification. This training also earns you 40 Continuing Education (CE) credits toward recertification.

How you'll benefit

This training 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
- Prepare for the 300-630 DCACIA v1.0 exam
- Earn 40 CE credits toward recertification

Who should enroll

- Network Designers
- Network Administrators
- Network Engineers
- Systems Engineers
- Data Center Engineers
- Consulting Systems Engineers
- Technical Solutions Architects
- Cisco Integrators/Partners
- Field Engineers
- Server Administrators
- Network Managers
- Storage Administrators

Technology areas

- Data Center

Objectives

- 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

Prerequisites

There are no prerequisites for this training. However, the knowledge and skills you are recommended to have before attending this training are:

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

These skills can be found in the following Cisco Learning Offerings:

- [Implementing and Administering Cisco Solutions \(CCNA\)](#)
- [Understanding Cisco Data Center Foundations \(DCFNDU\)](#)

Outline

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

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- Describing Cisco ACI Multi-Pod Deployment
 - Describing Cisco ACI MultiSite Deployment

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–Layer 7 Service Node
- Deploy Multi-Pod Fabric
- Provision Policies with Nexus Dashboard Orchestrator

What to expect on the exam

Implementing Cisco Application Centric Infrastructure - Advanced (300-630 DCACIA) v1.0 is a 90-minute exam associated with the Cisco Certified Specialist - Data Center ACI Advanced Implementation certification and satisfies the concentration exam requirement for the CCNP Data Center certification.

The exam tests your advanced knowledge and skills of Cisco switches in ACI mode, including:

- Configuration
- Implementation
- Management
- Troubleshooting

Links

- [Cisco U. Learning Path](#)
- [Cisco Learning Network Store](#)
- [Cisco Learning Locator](#)