

Implementing Cisco Application Centric Infrastructure • DCACI

DURATION: 5 DAYS

PRICE: USD 4595

CLCs: 46

CE: 40

COURSE CODE: DCACI | **FORMAT:** Lecture & Lab

COURSE DESCRIPTION

The Implementing Cisco Application Centric Infrastructure (DCACI) v1.0 course shows you how to deploy and manage the Cisco® Nexus® 9000 Series Switches in Cisco Application Centric Infrastructure (Cisco ACI®) mode. The course gives you the knowledge and skills 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 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 helps you prepare to take the exam, Implementing Cisco Application Centric Infrastructure (300-620 DCACI), which leads to CCNP® Data Center and Cisco Certified Specialist – Data Center ACI Implementation certifications.

LEARNING 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

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

WHO SHOULD ATTEND

- Network Designer
- Network Administrator
- Network Engineer
- Systems Engineer
- Data Center Engineer
- Consulting Systems Engineer
- Technical Solutions Architect
- Cisco Integrators/Partners

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- Field Engineer
- Server Administrator
- Network Manager
- Storage Administrator
- Cisco integrators and partners

COURSE OUTLINE

1. 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

2. 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

3. Describing Cisco ACI Basic Packet Forwarding

- Endpoint Learning
- Basic Bridge Domain Configuration Knob

4. Introducing External Network Connectivity

- Cisco ACI External Connectivity Options
- External Layer 2 Network Connectivity
- External Layer 3 Network Connectivity

5. Introducing VMM Integration

- VMware vCenter VDS Integration

- Resolution Immediacy in VMM
- Alternative VMM Integrations

6. 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

7. 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

DISCOVERY LABS

1. Validate Fabric Discovery
2. Configure Network Time Protocol (NTP)
3. Create Access Policies and Virtual Port Channel (vPC)
4. Enable Layer 2 Connectivity in the Same Endpoint Group (EPG)
5. Enable Inter-EPG Layer 2 Connectivity
6. Enable Inter-EPG Layer 3 Connectivity
7. Compare Traffic Forwarding Methods in a Bridge Domain
8. Configure External Layer 2 (L2Out) Connection
9. Configure External Layer 3 (L3Out) Connection
10. Integrate Application Policy Infrastructure Controller (APIC) With VMware vCenter Using VMware Distributed Virtual Switch (VDS)

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Instructor Led Training

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