Implementing Cisco Application Centric Infrastructure (DCACI) v1.2

Duration: 5 Days (40 hours)

Course Prerequisites

Before taking this offering, you should have:

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

Course Objectives

The **Implementing Cisco Application Centric Infrastructure (DCACI)** training introduces you to the implementation and management of the Cisco Nexus 9000 Series Switches in Cisco Application Centric Infrastructure (ACI) mode. The 5-day lab-intensive training covers the key components and procedures you need to know to understand, 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.
This training prepares you for the 300-620 DCACI exam, which certifies your knowledge of working with 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. This training also earns you 40 Continuing Education (CE) credits toward recertification.

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
- Earn 40 CE credits toward recertification

300-620 DCACI: Implementing Cisco Application Centric Infrastructure is a 90-minute exam associated with the Cisco Certified Specialist – Data Center ACI Implementation certification and satisfies the concentration exam requirement for the CCNP Data Center certification.

The multiple-choice format tests your knowledge of Cisco switches in ACI mode including:

- ACI Fabric Infrastructure
- ACI Packet Forwarding
- External Network Connectivity
- Integrations
- ACI Management
- ACI Anywhere

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

Course Outline

1. Section 1: Introducing Cisco ACI Fabric Infrastructure and Basic Concepts
2. Section 2: Describing Cisco ACI Policy Model Logical Constructs
3. Section 3: Describing Cisco ACI Basic Packet Forwarding
4. Section 4: Introducing External Network Connectivity
5. Section 5: Introducing VMM Integration
6. Section 6: Describing Layer 4 to Layer 7 Integrations
7. Section 7: Explaining Cisco ACI Management

Lab Outline

1. Discovery 1: Validate Fabric Discovery
2. Discovery 2: Configure NTP
3. Discovery 3: Create Access Policies and vPC
4. Discovery 4: Enable Layer 2 Connectivity in the Same EPG
5. Discovery 5: Enable Inter-EPG Layer 2 Connectivity
6. Discovery 6: Enable Inter-EPG Layer 3 Connectivity
7. Discovery 7: Compare Traffic Forwarding Methods in a Bridge Domain
8. Discovery 8: Configure External Layer 2 Connection
9. Discovery 9: Configure External Layer 3 (L3Out) Connection
10. Discovery 10: Integrate Cisco APIC with VMware vCenter Using VMware VDS

Who Should Enroll

Primary audience includes:

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

Secondary audience includes:

- Server Administrator
- Network Manager
- Storage Administrator
- Program Manager
- Project Manager