Training overview

Implementing Cisco Application Centric Infrastructure (DCACI)

Description

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 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 v1.1 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 Cisco Certified Network Professional (CCNP) Data Center certification. This training also earns you 40 Continuing Education (CE) credits toward recertification.

How you'll benefit

Thistraining 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 300-620 DCACI v1.1 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
- Program Managers
- Project Managers

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

- Introducing Cisco ACI Fabric Infrastructure and Basic Concepts
- Describing Cisco ACI Policy Model Logical Constructs
- Describing Cisco ACI Basic Packet Forwarding
- Introducing External Network Connectivity
- Introducing VMM Integration
- Describing Layer 4 to Layer 7 Integrations
- Explaining Cisco ACI Management

Lab Outline

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

What to expect on the exam

Implementing Cisco Application Centric Infrastructure (300-620 DCACI) v1.1 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