IMPLEMENTING CISCO APPLICATION CENTRIC INFRASTRUCTURE (DCACI) V1.1

The Implementing Cisco Application Centric Infrastructure (DCACI) v1.1 course shows you how to deploy and manage 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, how to connect the Cisco ACI fabric to external networks and services, and the 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 prepare you for the following exam:

300-620 Implementing Cisco Application Centric Infrastructure (DCACI)

How you'll benefit

This course 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

Why Attend with Current Technologies CLC

- Our Instructors are the top 10% rated by Cisco
- Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs run up to Date Code for all our courses

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Objective

Upon completing this course, the student will be able to meet these 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

Who Should Attend

The primary audience for this course is as follows:

- Network Administrators
- Systems Engineers
- Consulting Systems Engineers
- Cisco Integrators/Partners
- Server Administrators
- Storage Administrators

- Network Designers
- Network Engineers
- Data Center Engineers
- Technical Solutions Architects
- Field Engineers
- Network Managers
- Cisco integrators and partners

Prerequisites

To fully benefit from this course, you should have the following knowledge and skills:

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

The following Cisco courses may help you meet these prerequisites:

Course Duration

5 day

Course Price

$4,595.00

Methods of Delivery

- Instructor Led
- Virtual ILT

Certification Exam

300-620

Cisco CE Credits

40

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- Implementing and Administering Cisco Solutions (CCNA)
- Understanding Cisco Data Center Foundations (DCFNDU)

Course Outline

Module 1: Introducing Cisco ACI Fabric Infrastructure and Basic Concepts

- What Is Cisco ACI?

- Cisco ACI Topology and Hardware

Module 2: Describing Cisco ACI Policy Model Logical Constructs

- Cisco ACI Logical Constructs

- Tenant

Module 3: Describing Cisco ACI Basic Packet Forwarding

- Endpoint Learning

- Basic Bridge Domain Configuration Knob

Module 5: Introducing External Network Connectivity

- Cisco ACI External Connectivity Options

- External Layer 2 Network Connectivity

Module 6: Introducing VMM Integration

- VMware vCenter VDS Integration

- Resolution Immediacy in VMM

Module 7: 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

Module 8: Explaining Cisco ACI Management

- Out-of-Band Management

- In-Band Management

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LAB OUTLINE

- Validate Fabric Discovery
- Configure Network Time Protocol (NTP)
- Create Access Policies and Virtual Port Channel (vPC)
- Enable Layer 2 Connectivity in the Same Endpoint Group (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 (L2Out) Connection
- Configure External Layer 3 (L3Out) Connection
- Integrate Application Policy Infrastructure Controller (APIC) With VMware vCenter Using VMware Distributed Virtual Switch (DVS)

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