

CISCO CERTIFIED NETWORK PROFESSIONAL DATA CENTER

Implementing Cisco Application Centric Infrastructure (DCACI) v1.1

Our Learning Exclusive

- Custom exam prep software and materials
- Exam delivery in classroom with 98% success
- Course specific thinQtank® Learning publications to promote fun exciting learning
- Extended hours of training including immersive hands-on exercises
- WE DO NOT “TEACH THE TEST” We always deliver valuable hands-on experience
- Receive all reading material and study guides when you register
- All courses taught by CCIE expert instructors

Course Duration

- Five days of instructor-led learning
- 60% lecture, 40% hands-on labs

Prerequisites

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

Target Audience

- Network Designer and Administrator
- Network Engineer and Systems Engineer
- Data Center Engineer
- Consulting Systems Engineer
- Technical Solutions Architect
- Server Administrator and Network Manager
- Storage Administrator

Exam Information

- 300-620 – Implementing Cisco Application Centric Infrastructure (DCACI)

Delivery Methods

- Instructor-Led Training
- Immersive Live-Online Training
- On-Site and Custom Delivery

Exclusive Tools and Learning Package

- Comprehensive video training package
- Virtual builds of all labs and hand-on learning objectives so learners can continue their hands on experience after the completion of the course
- Industry unique training course to achieve multiple certifications in one training camp

Course Overview

thinQtank® Learning is offering a unique five-day training camp comprised of instructor-led learning for Implementing Cisco Application Centric Infrastructure (DCACI). As with all of our Cisco Training Experiences – exams are delivered in the classroom.

The Implementing Cisco Application Centric Infrastructure (DCACI) v1.1 course shows learners how to deploy and manage the Cisco Nexus 9000 Series Switches in Cisco Application Centric Infrastructure (Cisco ACI) mode. The course gives learners 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. Learners will gain hands-on practice implementing key capabilities such as fabric discovery, policies, connectivity, VMM integration, and more.

This course helps learners 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 and get the knowledge for protocols, solutions and designs to acquire professional-level and expert-level data center job roles.

The 300-620 DCACI exam 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.

Course Objectives

After taking this course, students 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

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Course Topics

- 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
- 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
- Describing Cisco ACI Basic Packet Forwarding
 - Endpoint Learning
 - Basic Bridge Domain Configuration
- Introducing External Network Connectivity
 - Cisco ACI External Connectivity Options
 - External Layer 2 Network Connectivity
 - External Layer 3 Network Connectivity
- Introducing VMM Integration
 - VMware vCenter VDS Integration
 - Resolution Immediacy in VMM
 - Alternative VMM Integrations
- 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
- 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

Labs and Demonstrations

- 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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