Troubleshooting Cisco Application Centric Infrastructure (DCACIT) v5.2

What you'll learn in this course

The Troubleshooting Cisco Application Centric Infrastructure (DCACIT) v5.2 course teaches you the key components and procedures needed to manage, monitor, and troubleshoot Cisco® Nexus® 9000 Series Switches in Application Centric Infrastructure (ACI) mode, a solution to simplify, optimize, and accelerate infrastructure deployment and governance. This course is for advanced engineers who have installed and managed existing fabrics or for those who have completed the **Implementing Cisco Application-Centric Infrastructure-Advanced (DCACI)** course.

Course duration

- Instructor-led training: 2 days in the classroom with hands-on lab practice
- Virtual instructor-led training: 2 days of web-based classes with hands-on lab practice
- E-learning: Equivalent of 2 days of instruction and hands-on lab practice

How you'll benefit

This course will help you:

- Learn how to design policy-driven automation to streamline the deployment lifecycle
- Integrate a comprehensive solution using any hypervisor, supporting any workload, for any location, and in any cloud

Who should enroll

This course is ideal for developers and engineers including:

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

How to Enroll

Instructor-led training

- Find a class at the Cisco Learning Locator.
- Arrange training at your location through Cisco Private Group Training.

E-learning

- To buy a single e-learning license, visit the Cisco Learning Network Store.
- For more than one license, or a learning library subscription, contact us at learning-bdm@cisco.com.

Technology areas

- Data center

Course details

Objectives

After taking this course, you should be able to:

- Apply troubleshooting methodology to Cisco ACI networks.
- Troubleshooting logical and physical constructs of the Cisco ACI policy.
- Understand Cisco APIC and its troubleshooting aspects.
- Troubleshoot endpoint learning in Cisco ACI.
- Troubleshoot Layer 2 traffic bridging and Layer 3 routing in Cisco ACI network.
- Troubleshoot hypervisor integration in Cisco ACI.
- Troubleshoot Layer 4 to Layer 7 service insertion.
- Troubleshoot contracts and route leaking in Cisco ACI.

Prerequisites

You should have the following knowledge and skills before attending this course:

- Familiarity with data center infrastructure operations
- Familiarity with management of Cisco data center switches
- Basic programming
- Basic network troubleshooting
- System or network administration (Linux or Windows)
- Data center operations

The following Cisco courses may help you meet these prerequisites:

- **Implementing Cisco Application Centric Infrastructure-Advanced (DCACI)**
- **Cisco Application Centric Infrastructure Operations and Troubleshooting (DCACIO)**
- **Implementing and Administering Cisco Solutions (CCNA)**
- **Understanding Cisco Data Center Foundations (DCFNDU)**

Outline

- Describing Cisco ACI Troubleshooting Methodology
- Troubleshooting Logical and Physical Constructs
- Troubleshooting Cisco APIC
- Troubleshooting Endpoint Learning
- Troubleshooting Layer 2
- Troubleshooting Layer 3 Routing
- Troubleshooting VMM Integration
- Troubleshooting Layer 4-7 Service Insertion
- Troubleshooting Contracts and Route Leaking

Lab Outline

- Verify Endpoints
- Examine VLANs
- Troubleshoot ACI Policy
- Troubleshoot VMM Integration and External Connectivity
- Troubleshoot Contracts

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