Training overview

Troubleshooting Cisco Application Centric Infrastructure (DCACIT)

Description

The **Troubleshooting Cisco Application Centric Infrastructure (DCACIT)** training 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 training 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) training.

This training also earns you 20 Continuing Education (CE) credits toward recertification.

How you'll benefit

This training will help you:

- Learnhow to designpolicy-driven automation to streamline the deployment lifecycle
- Integrate a comprehensive solution using any hypervisor, supporting any workload, for any location, and in any cloud
- Expandyour knowledgeof CiscoNexus9000 Series Switches
- Earn 20 CE credits toward recertification

Who should enroll

- Network Engineers
- Systems Engineers
- Data Center Engineers
- Consulting Systems Engineers
- Technical Solutions Architects
- Cisco Integrators/Partners
- Field Engineers
- Server Administrators
- Network Managers

Technology areas

- Data Center

Objectives

- 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

There are no prerequisites for this training. However, the knowledge and skills you are recommended to have before attending this training are:

- 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

These skills can be found in the following Cisco Learning Offerings:

- 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