

Troubleshooting Cisco Application Centric Infrastructure

Duration: 2 Days Course Code: DCACIT Version: 5.2

Overview:

This 2-day classroom training with hands-on lab practice excersises 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.

Target Audience:

Engineers experienced with the implementation of Cisco Neus 9000 Series switches who need to deveop their troubleshooting skills

Objectives:

- After completing this course, you should be able to:
- Apply troubleshooting methodology to Cisco ACI networks
- Troubleshoot 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 the 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:

Attendees should meet the following prerequisites:

- 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
- DCACI - Implementing Cisco Application Centric Infrastructure
- DCACIO - Cisco Application Centric Infrastructure Operations and Troubleshooting

Testing and Certification

Recommended as preparation for the following exams:

- There are no exams currently aligned to this course

Content:

Describing Cisco ACI Troubleshooting Methodology

- Logical Constructs Review
- Physical Constructs Review
- Cisco ACI Troubleshooting Approaches
- VMM/Container Integration Review
- VMware Networking Review
- Cisco ACI APIC and Built-In Tools

Troubleshooting Logical and Physical Constructs

- Troubleshooting Logical Constructs Methodology
- Troubleshooting Physical Constructs Methodology

Troubleshooting Cisco APIC

- Verifying Cisco APIC Cluster
- Troubleshooting Cisco APIC Cluster

Troubleshooting Endpoint Learning

- Verifying Endpoint Connectivity
- Controlling Endpoint Learning
- Troubleshooting Endpoint Learning

Troubleshooting Layer 2

- VLAN and VXLAN Mapping
- Traffic Flow
- Layer 2 Unknown Unicast Flooding
- ARP Flooding
- ARP Gleaning
- Spanning Tree and BPDUs
- BPDU Flooding
- Verifying VLANs and Endpoints

Troubleshooting Layer 3 Routing

- Troubleshooting Layer 3 Connectivity Within Cisco ACI
- Troubleshooting L3Outs
- Layer 3 Transit Routing

Troubleshooting VMM Integration

- Troubleshooting VMware
- Verifying Blade Chassis
- Verifying Leafs
- Verifying VMM Integration

Troubleshooting Layer 4-7 Service Insertion

- Layer 4–7 Service Graph Overview
- Layer 4–7 Service Insertion Modes
- Troubleshooting Service Insertion with PBR

Troubleshooting Contracts and Route Leaking

- VRF-VRF Contracts and Route Leaking

Labs:

- Verify Endpoints
- Examine VLANs
- Troubleshoot ACI Policy
- Troubleshoot CMM integration and External Connectivity
- Troubleshoot Contracts

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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