Troubleshooting Cisco Application Centric Infrastructure (DCACIT)

Description

Discover Cisco ACI troubleshooting solutions

The Troubleshooting Cisco Application Centric Infrastructure (DCACIT) training allows you to master troubleshooting techniques for Cisco ACI infrastructures. This course is designed for experienced engineers looking to deepen their troubleshooting skills. Through a combination of theoretical lessons and hands-on labs, you will learn how to effectively resolve issues related to Cisco Nexus 9000 switches in ACI mode.

The program covers key components of the ACI infrastructure, as well as essential tools for diagnosing and correcting errors. This training will help you optimize the performance of your networks while ensuring seamless integration with hypervisors and cloud services.

Why take this training?

If you have already completed the Cisco ACI implementation training, this course is the perfect next step to enhance your troubleshooting skills. Whether diagnosing issues on layers 2 and 3 or resolving integration problems with VMM services, this training will help you improve the management and performance of your Cisco infrastructures.

Course Content
Module 1: Cisco ACI troubleshooting methodology description

- Review of logical constructs
- Review of physical constructs
- Troubleshooting approaches for Cisco ACI
- Review of VMM/container integration
- Review of VMware networking
- Cisco ACI APIC and integrated tools

Module 2: Troubleshooting logical and physical constructs

- Troubleshooting methodology for logical constructs

- Troubleshooting methodology for physical constructs
- Troubleshooting Cisco APIC

Module 3: Troubleshooting the Cisco APIC cluster

- Verifying the Cisco APIC cluster
- Troubleshooting the Cisco APIC cluster
- Troubleshooting endpoint learning

Module 4: Layer 2 troubleshooting

- VLAN and VXLAN mapping
- Traffic flow
- Layer 2 unknown unicast flooding
- ARP flooding
- Spanning Tree and BPDU

Module 5: Layer 3 routing troubleshooting

- Troubleshooting Layer 3 connectivity within Cisco ACI
- Troubleshooting L3 exits
- Layer 3 transit routing

Module 6: VMM integration troubleshooting

- Troubleshooting VMware
- Verifying blade chassis
- Verifying leaves

Module 7: Layer 4-7 service insertion troubleshooting

- Layer 4-7 service graph overview
- Layer 4-7 service insertion modes
- Troubleshooting service insertion with PBR

Lab / Exercises

- Verify endpoints
- Examine VLANs
- Troubleshoot ACI policies
- Troubleshoot CMM integration and external connectivity
- Troubleshoot contracts

Documentation

- Digital course materials included

Participant profiles

- Experienced network engineers
- Data center administrators
- Network support technicians
- Network solution architects

Prerequisites

- Basic understanding of data center infrastructures
- Management of Cisco data center switches
- Basic programming knowledge
- Basic network troubleshooting skills
- System or network administration (Linux or Windows)

Objectives

- Apply troubleshooting methodology on Cisco ACI networks
- Troubleshoot logical and physical constructs
- Understand and use Cisco APIC for troubleshooting
- Troubleshoot endpoint learning
- Troubleshoot traffic flows on layers 2 and 3
- Resolve layer 4-7 service insertion issues

Description
Troubleshooting Cisco Application Centric Infrastructure (DCACIT) training
Niveau
Intermédiaire
Classroom Registration Price (CHF)
2200
Virtual Classroom Registration Price (CHF)
2200
Duration (in Days)
2
Reference
DCACIT