

## Troubleshooting Cisco Application Centric Infrastructure

Cursusduur: 3 Dagen    Cursuscode: DCACIT    Version: 5.2    Trainingsmethode: Maatwerk

### Beschrijving:

This course teaches you the key components and procedures that you need to know to manage, monitor, and troubleshoot Cisco® Nexus® 9000 Series Switches in Application Centric Infrastructure (ACI) mode. 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.

#### **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

Expand your knowledge of Cisco Nexus 9000 Series Switches

#### Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

### Doelgroep:

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

### Doelstelling:

- 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

### Vereiste kennis en vaardigheden:

#### 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

### Examens en certificering

#### Recommended as preparation for the following exams:

- There are no exams currently aligned to this course

## Cursusinhoud:

### 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
- BPDUs 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

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## Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

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[www.globalknowledge.com/nl-nl/](http://www.globalknowledge.com/nl-nl/)

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