Cisco Application Centric Infrastructure Operations and Troubleshooting

Duration: 3 Days   Course Code: DCACIO   Version: 5.2

Overview:

The Cisco Application Centric Infrastructure Operations and Troubleshooting (DCACIO) course shows you how to manage, monitor, and troubleshoot Cisco® Nexus® 9000 Series Switches in Application-Centric Infrastructure (ACI) mode. Through expert instruction and hands-on practice, you will learn about operational tools, best practices, caveats, and practice troubleshooting common issues on a live fabric. Based on lessons learned in wide range of production deployments, this course gives you the real-world knowledge and skills to boost operational efficiencies in your own deployment. This course is for advanced engineers who have deployed and managed existing fabrics, or completed the *Implementing Cisco Application-Centric Infrastructure* (DCACI) course.

This course will help you:

Quickly ramp up on Cisco ACI® operational knowledge, skills, and best practices honed from real-world production deployments

Gain hands-on troubleshooting techniques

Optimize the benefits of using Cisco ACI, such as streamlined operations

Target Audience:

IT professionals who operate and support a Cisco ACI data center network

Objectives:

- **After completing this course you should be able to:**

- Describe the Cisco ACI built-in tools for operating and monitoring the fabric.

- Describe the complex challenges related to monitoring and Cisco tools that address them: Cisco Nexus Dashboard and Cisco Nexus Dashboard Insights.

- Describe fabric installation upgrade, backup, restore, and best practices for Cisco NX-OS-to-ACI migration and Cisco ACI management access.

- Describe the tools and best practices for monitoring ACI fabric.

- Describe best practices for Cisco ACI naming conventions, Day-0 configuration, VMM integration, and Cisco ACI migrations.

Prerequisites:

Attendees should meet the following prerequisites:

- Understanding of ACI architecture and concepts needed to get an ACI fabric into production
- Familiarity with data center infrastructure operations
- Familiarity with management of Cisco data center switches
- Data center operations
- DCAC9K - Configuring Cisco Nexus 9000 Switches in ACI Mode 3.0

Testing and Certification

Recommended as preparation for the following exams:

- There are no exams currently aligned to this course

Content:

Describing Cisco ACI Day-0 to Day-2 Operations

- Describing Pre-Deployment and Installation Checklists
- Describing Cisco APIC Hardware Installation and Fabric Discovery
- Upgrading Cisco ACI Firmware
- Describing Cisco Smart Licensing
- Converting Cisco NX-OS Switch to ACI Switch
- Describing Cisco ACI Fabric Rebuilding or Recovery

Describing Day-2 Operational Tools

- Introducing Day-2 Challenges and Solutions
- Introducing Cisco Nexus Dashboard Insights
- Describing Cisco Nexus Dashboard Insights Components
- Describing Cisco Nexus Dashboard Insights Use Cases
- Describing Cisco Nexus Dashboard
- Describe Cisco Data Center Licensing

Describing Cisco ACI Configuration Management

- Describing Cisco ACI Out-of-Band and In-Band Management
- Configuring Export and Import Policies
- Configuring Snapshots and Rollbacks
- Describing Configuration Zones
- Configuring Cisco APIC Management Access Protocols
- Configuring SNMP in Cisco ACI

Describing Cisco ACI Monitoring

- Describing Network Monitoring and Troubleshooting Tools
- Describing Health Scores
- Viewing Events
- Viewing Faults and Audit Logs
- Monitoring Cisco ACI
- Describing Cisco ACI Syslog Configuration
- Describing ELAM Assistant
- Describing Object Store Browser
- Describing SPAN in Cisco ACI

Cisco ACI Best Practices

- Describing Cisco ACI Naming Conventions
- Describing Endpoint Learning Optimizations
- Configuring VMM Integration
- Describing Migration Scenarios

Labs

- Safeguard ACI Operation using Nexus Dashboard Insights
- Configure SNMP and Perform Export/Import Operations
- Monitor Cisco ACI and Configure Syslog
- Configure ELAM Assistant
- Explore the Management Information Tree
- Configure SPAN

Further Information:

For More information, or to book your course, please call us on 00 971 4 446 4987

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