

Cisco Application Centric Infrastructure Operations and Troubleshooting

Durée: 3 Jours **Réf de cours: DCACIO** **Version: 5.2** **Méthodes d'apprentissage: Classe à distance**

Résumé:

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

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Public visé:

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

Objectifs pédagogiques:

- **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.

Pré-requis:

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
- CCNA - Mettre en oeuvre et administrer des solutions réseaux Cisco
- DCFNDU - Comprendre les bases du Data Center Cisco
- DCACI - Mettre en oeuvre une Infrastructure Cisco ACI (Application Centric)

Test et certification

Recommended as preparation for the following exams:

- There are no exams currently aligned to this course

Contenu:

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

Autres moyens pédagogiques et de suivi:

- Compétence du formateur : Les experts qui animent la formation sont des spécialistes des matières abordées et ont au minimum cinq ans d'expérience d'animation. Nos équipes ont validé à la fois leurs connaissances techniques (certifications le cas échéant) ainsi que leur compétence pédagogique.
- Suivi d'exécution : Une feuille d'émargement par demi-journée de présence est signée par tous les participants et le formateur.
- En fin de formation, le participant est invité à s'auto-évaluer sur l'atteinte des objectifs énoncés, et à répondre à un questionnaire de satisfaction qui sera ensuite étudié par nos équipes pédagogiques en vue de maintenir et d'améliorer la qualité de nos prestations.

Délais d'inscription :

- Vous pouvez vous inscrire sur l'une de nos sessions planifiées en inter-entreprises jusqu'à 5 jours ouvrés avant le début de la formation sous réserve de disponibilité de places et de labs le cas échéant.
- Votre place sera confirmée à la réception d'un devis ou ""booking form"" signé. Vous recevrez ensuite la convocation et les modalités d'accès en présentiel ou distanciel.
- Attention, si cette formation est éligible au Compte Personnel de Formation, vous devrez respecter un délai minimum et non négociable fixé à 11 jours ouvrés avant le début de la session pour vous inscrire via moncompteformation.gouv.fr.

Accueil des bénéficiaires :

- En cas de handicap : plus d'info sur globalknowledge.fr/handicap
- Le Règlement intérieur est disponible sur globalknowledge.fr/reglement