

Designing Cisco Application Centric Infrastructure

Duration: 5 Days Course Code: DCACID Version: 1.0

Overview:

The Designing Cisco Application Centric Infrastructure (DCACID) is a 5-day product training course that provides you with the knowledge and skills to understand and utilize a programmable fabric design built on Cisco Nexus® 9000 Series Switches in Application-Centric Infrastructure (ACI) mode. This course is a deep dive into Cisco ACI design, covering design considerations and best practices, so you can build solid ACI solutions and avoid common mistakes that can impact the network infrastructure. With a focus on various design use cases, this course provides information that can help you practice design decisions, validate your designs, and apply best practices while using Cisco ACI in your multiservice or cloud data centers.

Target Audience:

Anyone involved in the design of a data center utilizing ACI.

Objectives:

- **After completing this course you should be able to:**
- Design Cisco ACI access policies according to best practices
- Use fabric system settings
- Design Cisco ACI logical components
- Design the migration of IP and logical components from an existing data center to Cisco ACI
- Design Cisco ACI physical structure
- Migrate existing data center connectivity and physical components from an existing environment to Cisco ACI
- Design Cisco ACI external Layer 3 connectivity and Cisco ACI Layer 4–7 service insertion, including PBR-based service redirection
- Design the L4-L7 service insertion in single-pod Cisco ACI, by evaluating the available options and choosing the optimal connectivity flow
- Design L4-L7 service insertion in Cisco ACI Multi-Pod
- Design a transit routing solution
- Design service sharing using vSphere
- Build a migration plan for Layer 2 and Layer 3 connectivity, including L3Outs and contracts
- Migrate vSphere compute environment to Cisco ACI
- Design QoS for interpod and intersite networks
- Design the DHCP Relay feature, SPAN feature, Port Tracking feature, Import/Export policies, and Snapshot/Rollback feature

Prerequisites:

Attendees should meet the following prerequisites:

- Familiarity with Cisco Application Centric Infrastructure implementations
- Familiarity with data center infrastructure operations
- Familiarity with the management of Cisco data center switches
- Familiarity with virtualization fundamentals
- CCNA - Implementing and Administering Cisco Solutions
- DCFNDU - Understanding Cisco Data Center Foundations
- DCACI - Implementing Cisco Application Centric Infrastructure

Testing and Certification

Recommended as preparation for the following exams:

- 500-650 - Designing Cisco Application Centric Infrastructure

Follow-on-Courses:

- DCACIA - Implementing Cisco Application Centric Infrastructure - Advanced
- DCACIT - Troubleshooting Cisco Application Centric Infrastructure

Content:

Designing Access Policies	Use Case: Migration of Connectivity and Physical Components	Use Case: Shared Services v2Any and Endpoint Security Groups
Using Fabric System Settings	Designing L3Outs and Service Insertion	Use Case: Migration of Layer 2 and Layer 3 Connectivity
Designing Logical Components	Use Case: Service Insertion in Single Pod	Use Case: VMware Data Center Migration to Cisco ACI
Use Case: Migration of IP and Logical Structure	Use Case: Service Insertion in Cisco ACI Multi-Pod	Use Case: IPN and ISN QoS
Designing Physical Structure	Use Case: L3Out Transit Routing	Use Case: DHCP Relay and SPAN

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

info@globalknowledge.co.uk

www.globalknowledge.com/en-gb/

Global Knowledge, Mulberry Business Park, Fishponds Road, Wokingham Berkshire RG41 2GY UK