

Configuring Cisco Nexus 9000 Switches in ACI Mode DCAC9K

Overview

This course is designed for systems and field engineers who manage and implement the Cisco Nexus 9000 Switches in ACI mode. In this course, you will learn the key components and procedures for configuring and managing Cisco Nexus 9000 Switches in ACI mode. You will also learn how to connect the ACI Fabric to external networks and services.

Skills Gained

Upon completing this course, the learner will be able to meet these overall objectives:

- Describe the Cisco Nexus 9000 Series Switch ACI
- Describe the ACI fabric
- Describe Cisco Nexus 9000 Series Switch hardware
- Configure the ACI controller (APIC)
- Configure ACI L4–L7 service integration
- Integrate the APIC hypervisor
- Understand the programmability and orchestration of the ACI network
- Discuss ACI connectivity to outside networks
- Implement ACI management
- Describe migration options with ACI

Prerequisites

The knowledge and skills that a learner should have before attending this course are as follows:

- Good understanding of networking protocols
 - Recommend CCNA Certification or equivalent knowledge
- Good understanding of the VMware environment
 - Recommend attendance of the VMware vSphere: Install, Configure, Manage (VICM) class or equivalent knowledge

Note : If you're looking for in depth knowledge related to 9K NXOS Mode, VXLAN, and Cisco's onePK, then we recommend that you take DCINX9K – Cisco Nexus 9000 Design and Configuration before taking this course.

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- Cisco Application Infrastructure Overview
- Cisco Application Centric Infrastructure Configuration and Orchestration
- Cisco Application Centric Infrastructure External Connectivity, Management and Migration

Module 1: Cisco Application Infrastructure Overview

- Describing the Cisco Nexus 9000 Series Switch in ACI Mode
- Describing the ACI Fabric
- Describing the Cisco Nexus 9000 Series Switch Hardware
- Configuring the APIC

Module 2: Cisco Application Centric Infrastructure Configuration and Orchestration

- Configuring Layer 4 through Layer 7 Services
- Configuring APIC Hypervisor Integration
- Demonstrating ACI Network Programmability and Orchestration

Module 3: Cisco Application Centric Infrastructure External Connectivity, Management and Migration

- Configuring ACI Connectivity to Outside networks
- Implementing ACI Management
- Describing Migration Options with the ACI

- Lab 1: Explore the Fabric Inventory
- Lab 2: Configure Basic Network Constructs
- Lab 3: Configure Policy Filters and Contracts
- Lab 4: Deploy a Three-Tier Application Profile
- Lab 5: Register a VMM Domain with ACI
- Lab 6: Configure VMware ESXi Hosts to Use the APIC DVS
- Lab 7: Associate an EPG to a VMware vCenter Domain
- Lab 8: Associate a VM to an EPG Port Group
- Lab 9: Deploy Service Graph with Application Profile
- Lab 10: Configure APIC using the REST API
- Lab 11: Exporting Contracts Between Tenants
- Lab 12: Configure Cisco APIC Using the Cisco APIC REST to Python Adapter (ARYA)
- Lab 13: Configure APIC Using the APIC Python API
- Lab 14: Configure Cisco APIC to Communicate to an External Layer 3 Network
- Lab 15: Configure APIC to Communicate to an External Layer 2 Network
- Lab 16: Configure Cisco APIC for Bare-Metal-to Bare-Metal Communications
- Lab 17: Monitor and Troubleshoot ACI
- Lab 18: Configure APIC RBAC for Local and Remote Users

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