



## **Cisco ACI Course Overview**

Application Centric Infrastructure is a Cisco SDN solution which reduces complexity and improves business agility in data centers. As the name implies ACI targets on the implementation that operate the business instead of the network outcomes.

- One of the market-leading Software Defined Networking offerings is Cisco Application Centric Infrastructure (ACI) that gives developed networking and security abilities in data centers.
- ACI deployment helps companies to safeguard their applications via a policy enforcement, micro-segmentation and white list model.

### **About this training**

- Aspirants will learn how to configure and deploy the Cisco Nexus 9000series in ACI (Application Centric Infrastructure) mode
- Aspirants will learn how to connect the Cisco ACI Fabric to external networks and services
- You will learn how to troubleshoot the Cisco Nexus 9000 series switches platform
- You will get a brief knowledge, skills and knowledge to safeguard, scalable and policy-based management

### **Online - Weekend Classes**

- **Study Material:** Live lectures, Recorded Videos, Online Workbook, Access
- **Duration:** 32 Hours

### **What you will Learn**

- Deep understanding on how to troubleshoot Cisco Nexus 9000 series switches in ACI
- Deployment of ACI Fabric
- A configuration of the ACI controller (APIC)
- Integration of the APIC hypervisor
- Configuring of ACI L4-L7 service integration
- Implementation of ACI management
- Understanding programmability and orchestration of the ACI network
- Discuss ACI connectivity to external networks
- Different migration options with ACI

## **Requirement**

- Aspirants should have understanding of Cisco Ethernet switching products
- Aspirants must have basic understanding of data center infrastructures/architectures

## **Target Audience**

- Data center engineers
- Data center architects
- Network engineers
- Network designers
- Network consultants
- Technical solution architects

## **About the Instructor**

The instructor for this training has been delivering training for the last 7+ years. He is an expert trainer who is having CCIE Data Centre certification and 14+ years of experience in data center and routing switching domain.

## **Course Contents**

- Cisco ACI Overview
  - ACI Architecture and Building Blocks
  - Nexus 9K Hardware
  - ACI Access Policies
  - ACI Logical Construct
  - ACI Packet Flow
- Cisco ACI Code and Releases
- Virtualization, Container and Third Party Integration
  - VMware Fundamentals
  - ACI Integration with VMware vCenter
  - ACI Integration with Cisco AVE
  - ACI Micro Segmentation and Intra-EPG Isolation
- Cisco ACI Security and Monitoring Features
  - Cisco ACI L4-L7 Service Insertion
  - ACI Fabric Security
  - Role Based Access Control

- Monitoring, Logging, and Fault Management
- ACI External Networking
  - ACI External Connections
  - ACI External L3 Networks
  - Configuring External L3 Networks
  - ACI L2 Out
  - ACI L3 Out with Routing Protocols
  - ACI ePG Static Routing

**Note:** \*\*\*Most of the course topics are covered with hands-on lab exercises and others are theoretical

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