Cisco ACI Course Overview

Application Centric Infrastructure is a Cisco SDN solution which reduces complexicity 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 apolicy 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 managemenτ

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 centerinfrastructures/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

- **Module 1:**
  - ACI Overview
    - ❖ Provides a very high level overview of ACI & what to expect from theblog series
- **Module 2:**
  - Bringing up an ACI Fabric
    - ❖ Provisioning an APIC cluster & discovering the leaf andspine switching nodes in your network.
- **Module 3:**
  - Getting familiar with the ACI APIC
    - ❖ Explanation on what functionality is found underthe main labs.
- **Module 4:**
  - Application Profiles, EPGs, Contracts and Filters of ACI
    - ❖ Important policy constructson the fabric and how they are used to define application requirements.
- **Module 5:**
  - Private Networks, Bridge Domains and Subnets of ACI
    - ❖ The main networking policiesand constructs within ACI and how they relate to each other.
- **Module 6:**
  - ACI Access Policies
    - ❖ Process of creating an access policy to be used for bare metalhost connectivity into the fabric.

- **Module 7:**
  - Basic Connectivity of ACI
    - ❖ How to set up basic connectivity between two hosts acrosstwo EPGs.
- **Module 8:**
  - ACI VMM Integration
    - ❖ Integration between ACI and the virtual machineenvironment.

- **Module 9:**
  - Layer 3 External Connectivity in ACI
    - ❖ Explaination on how to configure routing fromthe ACI fabric to an external device.
- **Module 10:**
  - Transit Routing in ACI
    - ❖ The transit routing capability of the ACI fabric that came inwith the 1.1 (1j) release.
- **Module 11:**
  - Inter VRF and Inter-Tenant Communicaton in ACI
    - ❖ How to configure inter-VRF
- **Module 12:**
  - ACI L2 Out Integration

List of Labs:

- Lab 1: Getting familiar with the APIC
- Lab 2: Application Profiles, EPGs, Contracts and Filters
- Lab 3: Private Networks, Bridge Domains and Subnets
- Lab 4: Access Policies
- Lab 5: Basic Connectivity
- Lab 6: VMM Integration
- Lab 7: Layer 3 External Connectivity
- Lab 8: Programming the ACI Fabric
- Lab 9: Transit Routing
- Lab 10: Inter VRF and Inter-Tenant Communicaton
- Lab 11: ACI L2 Out Integration

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

Thank You

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