Cisco Application Centric Infrastructure (ACI)

Course details

Objectives

After taking this course, you should be able to:

- Describe Cisco ACI Fabric Infrastructure and basic Cisco ACI concepts
- Describe Cisco ACI policy model logical constructs
- Describe Cisco ACI basic packet forwarding
- Describe external network connectivity
- Describe VMM Integration
- Describe Layer 4 to Layer 7 integrations
- Explain Cisco ACI management features

Outline

- Introducing Cisco ACI Fabric Infrastructure and Basic Concepts
  - What Is Cisco ACI?
  - Cisco ACI Topology and Hardware
  - Cisco ACI Object Model
  - Faults, Event Record, and Audit Log
  - Cisco ACI Fabric Discovery
  - Cisco ACI Access Policies

- Describing Cisco ACI Policy Model Logical Constructs
  - Cisco ACI Logical Constructs
  - Tenant
  - Virtual Routing and Forwarding
  - Bridge Domain
  - Endpoint Group
  - Application Profile
  - Tenant Components Review
  - Adding Bare-Metal Servers to Endpoint Groups
  - Contracts

- Describing Cisco ACI Basic Packet Forwarding
  - Endpoint Learning
  - Basic Bridge Domain Configuration Knob

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Introducing External Network Connectivity

- o Cisco ACI External Connectivity Options
- o External Layer 2 Network Connectivity
- o External Layer 3 Network Connectivity

- ● Introducing VMM Integration
  - o VMware vCenter VDS Integration
  - o Resolution Immediacy in VMM
  - o Alternative VMM Integrations

- ● Describing Layer 4 to Layer 7 Integrations
  - o Service Appliance Insertion Without ACI L4-L7 Service Graph
  - o Service Appliance Insertion via ACI L4-L7 Service Graph
  - o Service Graph Configuration Workflow
  - o Service Graph PBR Introduction

- ● Describing ACI Advanced Technologies
  - o Micro-Segmentation
  - o ACI Multi-PoD
  - o ACI Multi-Site

Labs:

1. Fabric Discovery
2. BMH
3. VMM Integration
4. ASAv – Routed Mode
5. ASAv – Transparent Mode
6. vPC
7. L3Out OSPF
8. Inter-Tenant
9. L3Out BGP in Common Tenant
10. DHCP Relay Agent in ACI
11. ACI Multi-PoD
12. ACI Multi-Site
13. Micro-Segmentation