

Implementing Cisco Application Centric Infrastructure (DCACI) v1.1

Objetivos

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

Pre-requisitos

To fully benefit from this course, you should have the following knowledge and skills:

- Understanding of networking protocols, routing, and switching
- Familiarity with Cisco Ethernet switching products
- Understanding of Cisco data center architecture
- Familiarity with virtualization fundamentals

The following Cisco courses may help you meet these prerequisites:

- **Implementing and Administering Cisco Solutions (CCNA)**
- **Understanding Cisco Data Center Foundations (DCFNDU)**

Contenido

- Introducing Cisco ACI Fabric Infrastructure and Basic Concepts
 - What Is Cisco ACI?
 - Cisco ACI Topology and Hardware
- Describing Cisco ACI Policy Model Logical Constructs
 - Cisco ACI Logical Constructs

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- Tenant
- Describing Cisco ACI Basic Packet Forwarding
 - Endpoint Learning
 - Basic Bridge Domain Configuration Knob
- Introducing External Network Connectivity
 - Cisco ACI External Connectivity Options
 - External Layer 2 Network Connectivity
- Introducing VMM Integration
 - VMware vCenter VDS Integration
 - Resolution Immediacy in VMM
- Describing Layer 4 to Layer 7 Integrations
 - Service Appliance Insertion Without ACI L4-L7 Service Graph
 - Service Appliance Insertion via ACI L4-L7 Service Graph
- Explaining Cisco ACI Management
 - Out-of-Band Management
 - In-Band Management

Laboratorio

- Validate Fabric Discovery
- Configure Network Time Protocol (NTP)
- Create Access Policies and Virtual Port Channel (vPC)
- Enable Layer 2 Connectivity in the Same Endpoint Group (EPG)
- Enable Inter-EPG Layer 2 Connectivity
- Enable Inter-EPG Layer 3 Connectivity
- Compare Traffic Forwarding Methods in a Bridge Domain
- Configure External Layer 2 (L2Out) Connection
- Configure External Layer 3 (L3Out) Connection
- Integrate Application Policy Infrastructure Controller (APIC) With VMware vCenter Using VMware Distributed Virtual Switch (DVS)