DCACIA (IMPLEMENTING CISCO APPLICATION CENTRIC INFRASTRUCTUREâ□□ADVANCED) 1.0

Objetivo

After taking this course, you should be able to: â□¢ Explain Cisco ACI advanced fabric packet forwarding; â□¢ Explain advanced ACI policy and tenant configuration; â□¢ Describe Cisco ACI Multi-Pod deployment; â□¢ Explain the details and consideration of implementing and integrating traditional network with Cisco ACI; â□¢ Describe Cisco ACI Service Graph Policy-Based Redirect (PBR); â□¢ Describe Cisco ACI Multi-Site deployment.

PÃºblico Alvo

Professionals interested in implementing, configuring, operating and management solutions using the Cisco ACI & Nexus 9000 ACI Mode Solutions.

PrÃ©-Requisitos

To fully benefit from this course, you should have the following knowledge and skills: â□¢ Basic understanding of Cisco ACI; â□¢ Understanding of Cisco data center architecture; â□¢ Familiarity with virtualization fundamentals. These are the recommended Cisco learning offerings that may help you meet these prerequisites: â□¢ Implementing Cisco Application Centric Infrastructure (DCACI) v1.0; â□¢ Implementing and Administering Cisco Solutions (CCNAÂ®) v1.0; â□¢ Understanding Cisco Data Center Foundations (DCFNDU) v1.0.

Carga HorÃ¡ria

40 horas (5 dias).

ConteÃºdo ProgramÃ¡tico

Course Introduction
Course Outline
Course Goals & Objectives

Cisco ACI Advanced Packet Forwarding
Packet Forwarding Between Leaf Switches
Endpoint Learning
Network Interface Card (NIC) Teaming to ACI Fabric
Endpoint Learning Optimizations
Endpoint Loop Protection
Rogue Endpoint Control

Using Advanced Cisco ACI Policy and Tenant Configuration

Layer 3 Outside Transit Routing
Using Tenant Common for Shared Services
Using Virtual Routing and Forwarding (VRF) Route Leaking for Shared Services
Using Layer 3 Outside configuration policy (L3Out) VRF Route Leaking for Shared Services
Detailed Contract Architecture with pcTag
Contract with vzAny
Contract Preferred Group

Implementing Traditional Network in Cisco ACI
Integrating Switched Network with Cisco ACI
Migrating Existing Switched Network to Cisco ACI
Network- vs. Application-Centric Deployment Models

Cisco ACI Service Graph PBR
Service Graph PBR Overview
PBR End-to-End Packet Flow
Service Graph PBR Requirements and Topologies
Service Graph PBR Tracking Options

Cisco ACI Multi-Pod Deployment
Cisco ACI Multi-Pod Overview
Inter-Pod Network Overview
Multi-Pod Provisioning and Packet Flow Between Pods
Connectivity to External L3 Networks
Service Node Integration Considerations
Service Graph Considerations

Cisco ACI Multi-Site Deployment
Cisco ACI Multi-Site Overview
Cisco ACI Multi-Site Orchestrator
Inter-Site Network Overview
Tenant Configuration Deployment from Multi-Site Orchestrator (MSO)
Packet Flow Between Sites
Multi-Site Stretched Components
Multi-Site vs Multi-Pod Comparison

Lab outline
Lab 1: Examine Local and Remote Endpoint Learning
Lab 2: Verify Bounce Entries
Lab 3: Validate IP Learning
Lab 4: Mitigate IP and MAC Flapping with the Rogue Endpoint Feature
Lab 5: Enable Transit Routing
Lab 6: Implement VRF Route Leaking
Lab 7: Configure VRF Route Leaking with L3Out
Lab 8: Examine Contracts and Zoning Rules
Lab 9: Configure Policy-Based Redirect to Layer 4–7 Service Node
Lab 10: Deploy Multi-Pod Fabric
Lab 11: Provision Policies with Cisco ACI Multi-Site Orchestrator