Cisco® Implementing Cisco® Data Center Virtualization and Automation v6.0 (DCVAI)

Course Overview

View Course Dates & Register Today

This is a 5-day class

This course is designed to help students prepare for the Cisco CCNP Data Center certification and for professional-level data center roles.

Who Should Attend

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Systems and field engineers Consulting systems engineers Technical solutions architects

Cisco integrators and partners who install and implement the Cisco Nexus 7000 and 5000 Series switches and the Cisco Nexus 2000 Series fabric extenders

Data center engineers and managers

Program managers

Project managers

Course Objectives

After completion of this course, students will be able to...

Implement infrastructure virtualization solutions, such as VDC, VRFs, Cisco Nexus 1000v, and Cisco AVS Identify programmability methods and program Cisco Nexus switches using XML, Python, and NXAPI Implement a Cisco ACI solution that provides fabric connectivity to bare-metal hosts, virtual machines, and external Layer 3 domains

Integrate Cisco ACI with virtual machine managers, such as VMware vCenter

Enforce application policies in intra- and intertenant scenarios

Deploy Cisco AVS and microsegmentation

Program Cisco ACI using Python, RESTful APIs, and Arya

Orchestrate Cisco ACI using the Cisco UCS Director

Insert L4-L7 services into the Cisco ACI fabric

Monitor Cisco ACI deployment using atomic counters and other monitoring tools.

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Course Outline

1 INFRASTRUCTURE VIRTUALIZATION IMPLEMENTATION

Configuring Logical Device Separation Configuring Virtual Switching Technologies

2 NX-OS CONFIGURATION AUTOMATION

Implementing Configuration Programmability Implementing Configuration Profiles Using Scripting Tools

3 APPLICATION-CENTRIC INFRASTRUCTURE

Describing Cisco ACI Fabric
Describing Management
Describing Cisco ACI Fabric Access Policies













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4 ACI CONSTRUCTS

Describing Tenant-Based Policies
Describing VMM Domain Integration
Describing Contracts Within an Application Profile

5 APPLICATION-CENTRIC INFRASTRUCTURE MONITORING AND PROGRAMMABILITY

Configuring Monitoring
Configuring Security Domains and Role Mapping
Describing Cisco ACI Programmability

6 CISCO ACI ENHANCED FEATURES

Implementing Inter-Tenant Communication Describing vPC Deploying Cisco AVS

7 APPLICATION-CENTRIC INFRASTRUCTURE NETWORKING

Describing Packet Flow Internal to the ACI Fabric Describing External Layer 3 Network Integration Describing External Layer 2 Network Integration Configuring Service Insertion and Redirection



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