

INTRODUCING CISCO DATA CENTER NETWORKING (DCICT v6.1)

Temario

Introducing Cisco Data Center Technologies (DCICT) v6.1 course introduces students to Cisco technologies and products that are deployed in the data center: network virtualization, network technologies, unified computing, automation and orchestration, and the Cisco Application-Centric Infrastructure (Cisco ACI). The introductory level of knowledge that is provided in these courses is targeted for individuals who can perform basic configuration tasks. The hands-on lab exercises focus on configuring features on Cisco Nexus Operating System (Cisco NX-OS), Cisco Unified Computing System (Cisco UCS), and Cisco UCS Director.

Pre-requisitos

- Good understanding of networking protocols
- Good understanding of the VMware environment

Dirigido a

- Network Designer
- Network Administrator
- Network Engineer
- Systems Engineer
- Consulting Systems Engineer
- Technical Solutions Architect
- Cisco Integrators/Partners

Objetivos del curso

After you complete this course you will be able to:

- Describe and configure Cisco UCS
- Describe and configure Cisco data center virtualization
- Describe and configure Cisco data center networking
- Describe and configure Cisco automation and orchestration
- Describe and verify Cisco ACI

Contenido del curso

- 1. Cisco Data Center Network Virtualization**
 1. Describing Functional Planes of Cisco Nexus Switches
 2. Describing Cisco Nexus Operating System VRF Contexts
 3. Describing Virtual Device Contexts
 4. Describing the Function of Overlays
 5. Describing Virtualization
 6. Lab: Install VMware ESXi on UCS C-Series Rack Server
 7. Lab: Install VMware vCenter Server Appliance
 8. Describing Virtual Switches
 9. Lab: Install Cisco Virtual Switch Update Manager
 10. Lab: Install Cisco Nexus 1000V with VSUM
 11. Lab: Configure a Port Group in the DVS

- 2. Cisco Data Center Network Technologies**
 1. Describing Cisco Fabric Extender Connectivity
 2. Lab: Configure the Cisco Nexus 2000 Fabric Extender
 3. Describing Port Channels and Virtual Port Channels
 4. Lab: Configure Virtual Port Channels
 5. Lab: Configure Virtual Port Channels with FEX
 6. Describing Cisco FabricPath
 7. Lab: Configure Cisco FabricPath
 8. Describing Unified Port Feature of Cisco Nexus Switches
 9. Lab: Configure Unified Ports on Cisco Nexus Switch
 10. Describing Cisco Unified Fabric
 11. Lab: Implement FCoE

- 3. Cisco Unified Computing System**
 1. Describing Data Center Server Connectivity
 2. Describing Cisco IMC Supervisor
 3. Lab: Install and Configure the Cisco IMC Supervisor
 4. Describing Cisco UCS Manager Operations
 5. Lab: Navigate the Cisco UCS Manager GUI Interfaces
 6. Describing Role-Based Access Control
 7. Lab: Configure Local RBAC
 8. Describing Hardware Abstraction in Cisco UCS
 9. Lab: Configure Pools
 10. Lab: Configure a Service Profile Template

- 4. Data Center Automation and Orchestration**
 1. Exploring the Utility of Application Programming Interfaces
 2. Lab: Configure Cisco NX-OS with APIs
 3. Lab: Explore the Management Information Tree of the Cisco UCS Manager
 4. Describing Cloud Attributes and Service Models
 5. Describing Cisco UCS Director
 6. Lab: Install and Configure User Accounts in Cisco UCS Director
 7. Lab: Add Virtual and Physical Accounts to Cisco UCS Director
 8. Lab: Customize Cisco UCS Director
 9. Lab: Explore Cisco UCS Director Monitoring Capabilities
 10. Describing VDCs, Tenants, and Policies
 11. Lab: Create Policies and VDCs
 12. Describing Orchestration
 13. Managing Catalogs and Templates
 14. Lab: Create a Catalog and Provision a VM Using the Self-Service
 15. Lab: Explore Cisco UCS Director Built-In Reports
 16. Lab: View Chargeback and Reports

- 5. Cisco Application-Centric Infrastructure**
 1. Describing Cisco ACI
 2. Describing Cisco ACI Fabric
 3. Programming and Orchestrating Cisco ACI

This training prepares students for the following exam(s):

200-155 : Introducing Cisco Data Center Networking v6.1 - DCICT