

DCUCI (IMPLEMENTING CISCO DATA CENTER UNIFIED COMPUTING) 6.1

Objetivo

Implementing Cisco Data Center Unified Computing (DCUCI) v6.1 is a five-day instructor-led course that is designed to help students prepare for the Cisco CCNP® Data Center certification and for professional-level data center roles. The focus of this skills-building course is on deploying, securing, operating, and maintaining the Cisco Unified Computing System (Cisco UCS) and Cisco UCS C-Series Rack Servers for use in data centers. The extensively hands-on course covers configuring and managing Cisco UCS servers using unified I/O networking for LAN and SAN connectivity, virtualizing server hardware identifiers to enable rapid recovery of server operating system images, automating UCS deployments using Cisco UCS Central Software and Cisco Integrated Management Controller (Cisco IMC) Supervisor, configuring fault tolerance, implementing role-based access control (RBAC), backing up and restoring system configurations, and using the monitoring and troubleshooting tools in Cisco UCS Manager and Cisco IMC. Upon completion of this course, you will be able to: Install the UCS B-Series system out of the box and deploy service profiles using pooled identities and service profile templates Configure the UCS B-Series system for deployments using iSCSI and configure B- and C-Series systems for deployments using Fibre Channel for regular data access and booting Configure and implement security mechanisms such as RBAC with Organizations and Locales, LDAP integration, trusted points, and key rings Configure and implement monitoring with syslog and Call Home Manage UCS Manager domains with UCS Central, manage multiple C-Series servers with Cisco IMC Supervisor, and interact with the UCS Manager XML API

Público Alvo

Professional or career level: Senior Network Engineer, Pre sales Engineer, Design Engineer, Data Center Administrator, Senior Systems Engineer, Senior Technical Solutions Architect

Pré-Requisitos

Students considered for this training should have attended the following classes or obtained equivalent level of knowledge: Introducing Cisco Data Center Networking (DCICN) v6.1 Introducing Cisco Data Center Technologies (DCICT) v6.1 Interconnecting Cisco Networking Devices: Accelerated (CCNAX) or Interconnecting Cisco Networking Devices Part 1 (ICND1) and Interconnecting Cisco Networking Devices Part 2 (ICND2) Implementing Cisco Storage Network Solutions (ICSNS)

Carga Horária

40 horas (5 dias).

Conteúdo Programático

Module 1: Cisco Unified Computing System Implementation

- Lesson 1-1: Describing Cisco UCS Server Form Factors
- Lesson 1-2: Describing Cisco Unified Computing System Connectivity
- Lesson 1-3: Configuring Identity Abstraction
- Lesson 1-4: Configuring Service Profile Templates

Module 2: SAN Storage Implementation for Cisco Unified Computing System

- Lesson 2-1: Implementing iSCSI
- Lesson 2-2: Implementing Fibre Channel Port Channels
- Lesson 2-3: Implementing FCoE

Module 3: Security Implementation for Cisco Unified Computing System

- Lesson 3-1: Implementing Role-Based Access Control
- Lesson 3-2: Implementing External Authentication Providers
- Lesson 3-3: Implementing Key Management

Module 4: Operations and Maintenance for Cisco Unified Computing System

- Lesson 4-1: Implementing Cisco UCS Firmware Updates
- Lesson 4-2: Implementing Cisco UCS Backups
- Lesson 4-3: Implementing Monitoring

Module 5: Cisco Unified Computing System Automation

- Lesson 5-1: Implementing Cisco UCS Central
- Lesson 5-2: Implementing Cisco UCS Director
- Lesson 5-3: Comparing Scripting Options for Cisco UCS Manager

Lab Details:

- Guided Lab 1: Provision Cisco UCS Fabric Interconnect Cluster
- Guided Lab 2: Configure Server and Uplink Ports
- Guided Lab 3: Configure VLANs
- Guided Lab 4: Configure a Cisco UCS Service Profile Using Hardware Identities
- Guided Lab 5: Configure Basic Identity Pools
- Guided Lab 6: Configure a Cisco UCS Service Profile Using Pools
- Guided Lab 7: Configure a Service Profile Template
- Guided Lab 8: Configure an iSCSI Service Profile
- Guided Lab 9: Configure Pod-Specific Device Aliases
- Guided Lab 10: Configure Zoning
- Guided Lab 11: Configure VSANs in Cisco UCS Manager
- Guided Lab 12: Configure Unified Ports on UCS Fabric Interconnects
- Guided Lab 13: Install and Boot VMware ESXi on Cisco UCS C-Series Servers from SAN LUN
- Guided Lab 14: Install and Boot VMware ESXi on Cisco UCS B-Series Servers from SAN LUN
- Guided Lab 15: Configure Organizations and Locales
- Guided Lab 16: Configure Job-Specific Roles
- Guided Lab 17: Configure Cisco UCS Manager to Authenticate Users with Microsoft Active Directory
- Guided Lab 18: Configure a Trusted Point and Key Ring in Cisco UCS Manager

Guided Lab 19: Perform Backup and Restore Activities

Guided Lab 20: Implement Syslog

Guided Lab 21: Deploy and Use Cisco UCS Central

Guided Lab 22: Deploy and Use Cisco IMC Supervisor

Guided Lab 23: Configure Cisco UCS Manager with XML API and Cisco UCS PowerTools