

Implementing Cisco Data Center Unified Computing (Part of the CCNP Data Center certification track)



Course Outline

Module 1: Implement Cisco UCS C-Series Rack Servers

- Lesson 1: Implementing Cisco R-Series Rack Enclosures
- Lesson 2: Installing Cisco UCS C-Series Server Hardware
- Lesson 3: Installing Cisco UCS C-Series Servers in a Cisco R-Series Rack Enclosure
- Lesson 4: Updating Cisco UCS C-Series Firmware with the Host Upgrade Utility
- Lesson 5: Provisioning Monitoring and Logging on the Cisco UCS C-Series Server
- Lesson 6: Provisioning LAN and SAN Connectivity in the Cisco Integrated Management Controller
- Lesson 7: Provisioning RAID on the Cisco UCS C-Series Server
- Lesson 8: Installing VMware ESXi on the Cisco UCS C-Series Server Local RAID Array

Module 2: Manage the Cisco UCS B-Series

- Lesson 1: Implementing RBAC
- Lesson 2: Managing and Upgrading Cisco UCS B-Series Firmware
- Lesson 3: Implementing Backup, Import, and Restore of the Cisco UCS Manager Database
- Lesson 4: Implementing Logging and Monitoring
- Lesson 5: Implementing High Availability

Module 3: Implement Cisco UCS B-Series Connectivity

- Lesson 1: Implementing Cisco UCS B-Series Physical Connectivity
- Lesson 2: Installing Cisco UCS B-Series Hardware
- Lesson 3: Implementing Cisco UCS B-Series LAN Connectivity
- Lesson 4: Implementing Cisco UCS B-Series SAN Connectivity

Module 4: Provision Cisco UCS Compute Resources

- Lesson 1: Provisioning the Cisco UCS Cluster
- Lesson 2: Provisioning LAN Networking

Lesson 3: Provisioning SAN Networking

Lesson 4: Provisioning Resource Pools in Cisco UCS Manager

Lesson 5: Provisioning Server Policies in Cisco UCS Manager

Lesson 6: Provisioning Service Profiles from Templates in Cisco UCS Manager

Lesson 7: Provisioning Cisco UCS C-Series Server Integration in Cisco UCS Manager

Module 5: Implement Cisco UCS Server Virtualization Features

Lesson 1: Provisioning

Lesson 2: Provisioning Cisco VM-FEX

Lesson 3: Provisioning Cisco VM-FEX Universal Pass-Through

Lab Outline

Lab 1-1: Perform Initial C-Series Implementation

Lab 1-2: Update Cisco UCS C-Series Firmware from the Cisco UCS Host Upgrade Utility

Lab 1-3: Implement LAN and SAN Connectivity

Lab 1-4: Install VMware ESXi on the Local RAID and Verify SAN Connectivity

Instructor Demo: Provision Initial B-Series Configuration

Lab 2-1: Provision Cisco UCS Ethernet Connectivity and Management IP Pools

Lab 2-2: Configure RBAC

Lab 2-3: Back Up and Restore Cisco UCS Manager Database Objects

Lab 2-4: Configure Logging in Cisco UCS

Lab 4-1: Provision Identity and Resource Pools

Lab 4-2: Provision Mobile Service Profiles from Updating Templates

Lab 4-3: Test High Availability

Lab 5-1: Provision VMware Integration

Lab 5-2: Provision M81-KR Cisco VM-FEX

Lab 5-3: Provision M81-KR Cisco VM-FEX Universal Pass-Through