

Configuring Cisco Unified Computing System • DCCUCS

DURATION: 3 DAYS

PRICE: USD 3095

CLCs: 31

CE: 24

COURSE CODE: DCCUCS | **FORMAT:** Lecture & Lab

COURSE DESCRIPTION

The Configuring Cisco Unified Computing System (DCCUCS) v1.0 shows you how to deploy, secure, operate, and maintain Cisco Unified Computing System (Cisco UCS) B-series blade servers, Cisco UCS C-Series, and S-Series rack servers for use in data centers. You will learn how to implement management and orchestration software for Cisco UCS. You will gain hands-on practice on: configuring key features of Cisco UCS, Cisco UCS Director, and Cisco UCS Manager; implementing UCS management software including Cisco UCS Director, Cisco UCS Manager, and Cisco Intersight; and more. This course can be used to prepare for the new CCNP Data Center and CCIE Data Center certifications

WHO SHOULD ATTEND

- Server administrators Network engineers
- Systems engineers Consulting systems engineers
- Technical solutions architects Network administrators
- Storage administrators Network managers

- Cisco integrators and partners

PREREQUISITES

- General knowledge of servers
- Routing and switching knowledge
- Storage area networking knowledge
- Server virtualization knowledge

LEARNING OBJECTIVES

- Describe and implement Fibre Channel, zoning, and NPV features on Cisco UCS
- Describe and implement FCoE on Cisco UCS
- Describe Cisco UCS policies for service profiles
- Describe Cisco Adapter FEX and Single Root I/O Virtualization
- Describe and implement RBAC on Cisco UCS
- Describe and implement external authentication providers on Cisco UCS Manager
- Describe and implement key management on Cisco UCS Manager
- Describe and implement Cisco UCS Director
- Describe and implement Cisco Intersight
- Describe the scripting options for Cisco UCS Manager

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- Describe and implement monitoring on Cisco UCS Manager

COURSE OUTLINE

1. Implementing Fibre Channel on Cisco UCS

- Fibre Channel Port Channel Functionality
- Purpose of Zoning
- Cisco NPV and Fibre Channel Switching Mode

2. Implementing FCoE on Cisco UCS

- FCoE Topologies
- FCoE Initialization Protocol
- FCoE Communication
- Cisco Data Center Bridging
- SAN Boot Requirements

3. Describing Cisco UCS Policies for Service Profiles

- Storage Policies BIOS Policies
- Boot Policy
- IPMI Policies
- Scrub Policies Maintenance Policies

4. Describing Cisco Adapter FEX and Single Root I/O Virtualization

- Cisco FEX Overview
- Cisco Adapter FEX
- Single Root I/O Virtualization

5. Implementing RBAC on Cisco UCS

- RBAC in Cisco UCS
- Users, Roles, and Privileges
- Functions of Organizations and Locales
- Effective Rights of a User

6. Implementing External Authentication Providers

- Options for External Authentication Providers

7. Implementing Key Management on Cisco

UCS Manager

- Public Key Infrastructure

8. Implementing Cisco UCS Director

- Cisco UCS Director Overview
- Install Cisco UCS Director
- Virtual and Physical Accounts
- Policies, Virtual Data Centers, and Catalogs
- Self-Service Portal
- Cisco UCS Director with VMware
- Managing VMs
- Compute Management with Cisco UCS Director
- Reporting and Monitoring in Cisco UCS Director

9. Implementing Cisco Intersight

- Cisco Intersight Overview
- Key Features of Cisco Intersight

10. Describing the Scripting Options for Cisco UCS

- Cisco UCS Manager XML API
- Cisco UCS Management Information Tree
- Managed Object Browser
- Cisco UCS Manager PowerTool
- Cisco UCS Python SDK

11. Implementing Monitoring on Cisco UCS Manager

- Logging Sources in Cisco UCS Manager
- Port Monitoring Capabilities of Cisco UCS Manager
- SNMP Security Ramifications
- Cisco UCS Manager Call Home Feature
- Describe the Cisco UCS Manager Call Home feature

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DISCOVERY LABS

1. Configure Pod-Specific Device Aliases
2. Configure Zoning
3. Configure VSANs in Cisco UCS Manager
4. Configure Unified Ports on Cisco UCS Fabric Interconnects
5. Install and Boot VMware ESXi on Cisco UCS from the FCoE LUN
6. Configure RBAC
7. Configure Cisco UCS Manager to Authenticate Users via OpenLDAP
8. Configure a Trusted Point and Key Ring in Cisco UCS Manager
9. Install Cisco UCS Director
10. Configure Cisco UCS Director
11. Discover Infrastructure with Cisco UCS Director
12. Examine the Cisco UCS Director GUI
13. Design Services in Cisco UCS Director
14. Configure Cisco UCS with Cisco Intersight
15. Configure Cisco UCS Manager Using Scripting
16. Implement Syslog and Call Home

Instructor Led Training

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