



Configuring Cisco Unified Computing System

DURATION: 3 DAYS 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

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



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