

DCCUCS (CONFIGURING CISCO UNIFIED COMPUTING SYSTEM) 1.0

Objetivo

After taking this course, you should be able to:

- Describe and implement Fibre Channel, zoning, and N-Port Virtualization (NPV) features on Cisco UCS;
- Describe and implement Fibre Channel over Ethernet (FCoE) on Cisco UCS;
- Describe Cisco UCS policies for service profiles;
- Describe Cisco Adapter Fabric Extender (FEX) and Single Root I/O Virtualization;
- Describe and implement Role-Based Access Control (RBAC) on Cisco UCS;
- Describe and implement external authentication providers on Cisco UCS Manager;
- Describe and implement key management on Cisco UCS Manager;
- Describe Cisco UCS Director;
- Describe and implement Cisco Intersight;
- Describe the scripting options for Cisco UCS Manager;
- Describe and implement monitoring on Cisco UCS Manager.

Público Alvo

Data Center Professionals who seek training to deploy, secure, operate, and maintain Cisco UCS B-series, Cisco UCS C-Series, and Cisco UCS S-Series.

Pré-requisitos

To fully benefit from this course, you should have the following knowledge and skills:

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

For reference, these are the recommended Cisco courses that may help you meet these prerequisites:

- Implementing and Administering Cisco Solutions (CCNA) v1.0;
- Understanding Cisco Data Center Foundations (DCFNDU) v1.0;
- Implementing and Operating Cisco Data Center Core Technologies (DCCOR);
- Introducing Cisco Unified Computing System (DCIUCS) v1.0;
- Introducing Cisco Data Center Networking (DCICN) v6.2;
- Introducing Cisco Data Center Technologies (DCICT) v6.2;
- Interconnecting Cisco Networking Devices: Accelerated (CCNAX) or Interconnecting Cisco Networking Devices Part 1 (ICND1) and Interconnecting Cisco Networking Devices Part 2 (ICND2).

Carga Horária

24 horas (3 dias).

Conteúdo Programático

Course Introduction

Course Outline

Course Goals & Objectives

Implementing Cisco UCS Storage Area Network (SAN)

SAN Introduction
Cisco UCS Fabric Interconnect Fibre Channels modes
Named VSANs
Cisco UCS Fibre Channel and FCoE Storage Connectivity

Describing Cisco UCS Policies for Service Profiles

Storage Policies and Profiles
Basic Input Output System (BIOS) Policies
Boot Policy
Intelligent Platform Management Interface (IPMI) Policies
Scrub Policies
Maintenance Policies

Describing Cisco Adapter FEX and Single Root I/O Virtualization

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

Implementing RBAC on Cisco UCS

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

Implementing External Authentication Providers

Options for External Authentication Providers

Implementing Key Management on Cisco UCS Manager

Public Key Infrastructure

Implementing Cisco UCS Director

Cisco UCS Director Overview
Policies, Virtual Data Centers, and Catalogs
Cisco UCS Director Virtualization Support
Managing Compute with Cisco UCS Director
Cisco UCS Manager Orchestration
Self-Service Portal
Reporting and Monitoring in Cisco UCS Director

Implementing Cisco Intersight

Cisco UCS Director Overview
Important Features of Cisco Intersight

Describing the Scripting Options for Cisco UCS Manager

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

Cisco UCS Python Software Development Kit (SDK)

Implementing Key Management on Cisco UCS Manager

Public Key Infrastructure

Implementing Cisco Intersight

Cisco Intersight Overview

Important Features of Cisco Intersight

Describing the Scripting Options for Cisco UCS Manager

Cisco UCS Manager XML API

Cisco UCS Management Information Tree

Managed Object Browser

Cisco UCS Manager PowerTool

Cisco UCS Python SDK

Implementing Monitoring on Cisco UCS Manager

Logging Sources in Cisco UCS Manager

Port Monitoring Capabilities of Cisco UCS Manager

Simple Network Management Protocol (SNMP) Security Ramifications

Cisco UCS Manager Call Home Feature

Lab Outline

Lab 1: Configure Pod-Specific Device Aliases

Lab 2: Configure Zoning

Lab 3: Configure VSANs in Cisco UCS Manager

Lab 4: Configure Unified Ports on Cisco UCS Fabric Interconnects

Lab 5: Install and Boot VMware Elastic Sky X Integrated (ESXi) on Cisco UCS from the FCoE Logical Unit Number (LUN) via FCoE

Lab 6: Configure RBAC

Lab 7: Configure Cisco UCS Manager to Authenticate Users via Open Lightweight Directory Access Protocol (OpenLDAP)

Lab 8: Configure a Trusted Point and Key Ring in Cisco UCS Manager

Lab 9: Configure Cisco UCS with Cisco Intersight

Lab 10: Configure Cisco UCS Manager Using Scripting

Lab 11: Implement Syslog and Call Home