

DCIUCS (INTRODUCING CISCO UNIFIED COMPUTING SYSTEM) 1.0

Objetivo

After taking this course, you should be able to:

- Describe Cisco UCS server hardware;
- Describe Cisco UCS connectivity;
- Describe the Cisco HyperFlex Data Platform, its data writing and reading processes, and data optimization;
- Describe and configure Cisco UCS service profiles;
- Describe and configure Cisco UCS service profile templates;
- Describe and implement Internet Small Computer Systems Interface (iSCSI) on Cisco UCS;
- Describe and implement Cisco UCS firmware updates;
- Describe and implement Cisco UCS backups.

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;
- Storage area networking;
- Server virtualization.

These Cisco courses are recommended to help you meet these prerequisites:

- Implementing and Administering Cisco Solutions (CCNA®);
- Understanding Cisco Data Center Foundations (DCFNDU);
- Implementing and Operating Cisco Data Center Core Technologies (DCCOR);
- Implementing and Administering Cisco Solutions (CCNA).

Carga Horária

16 horas (2 dias).

Conteúdo Programático

Course Introduction

- Course Outline
- Course Goals & Objectives

Describing Cisco UCS Server Hardware

- Cisco UCS B-Series Blade Servers
- Cisco UCS C-Series Rack Servers
- Cisco UCS S-Series Rack Servers
- Cisco Virtual Interface Cards
- Hyperconvergence Overview
- Cisco HyperFlex HX-Series Servers

Describing Cisco UCS Connectivity

- Cisco UCS Fabric Interconnect
- Cisco UCS B-Series Connectivity
- Cisco UCS C-Series Connectivity
- Cisco UCS S-Series Connectivity
- Cisco HyperFlex Connectivity Architecture
- Cisco HyperFlex Edge Connectivity
- Cisco UCS Fabric Interconnect Ethernet End-Host Mode Compared to Switching Mode
- Cisco UCS Fabric Interconnect Uplink Pinning
- Cisco UCS C-Series Integration

Describing the Cisco HyperFlex HX Data Platform

- Cisco HyperFlex HX Data Platform Software
- Writing Data to Cisco HyperFlex HX Data Platform
- Reading Data from Cisco HyperFlex HX Data Platform
- Data Optimization in Cisco HyperFlex HX Data Platform

Configuring Cisco UCS Service Profiles

- Portability Issue with Nonabstracted Identities
- Cisco UCS Service Profile
- Identity Pools
- Server Pools
- IP Pools

Configuring Cisco UCS Service Profile Templates

- Service Profile Templates

Implementing iSCSI on Cisco UCS

- iSCSI Addressing
- iSCSI Support in Cisco UCS

Implementing Cisco UCS Firmware Updates

- Update Cisco UCS C-Series Server Firmware
- Download Tasks for the Infrastructure Image
- Download Tasks for Cisco UCS B-Series Firmware Packages
- Best Practices for Updating Firmware in Cisco UCS Manager
- Firmware Upgrades Using Auto Install
- Capability Catalog Updates
- Host Firmware Packages
- Driver Updates for Operating Systems and Hypervisors

Implementing Cisco UCS Backups

- Compare Backup Options in Cisco UCS Manager
- Compare Two Import Types
- Policy Backup

Lab Outline

- Lab 1: Explore Cisco UCS Manager GUI

- Lab 2: Configure Server and Uplink Ports
- Lab 3: Configure VLANs
- Lab 4: Configure Basic Identity Pools
- Lab 5: Configure a Cisco UCS Service Profile Using Pools
- Lab 6: Configure a Service Profile Template
- Lab 7: Configure an iSCSI Service Profile on Cisco UCS
- Lab 8: Perform Backup and Restore Activities