Implementing Cisco Data Center Unified Computing (DCUCI)

Durée : 05 jours.

Ref : CI- DCUCI

Formateur : certifié

A qui s'adresse cette formation

- Network Designer
- Server Administrator
- Network Engineer
- Systems Engineer
- Consulting Systems Engineer
- Technical Solutions Architect
- Cisco Integrators and Partners
- Network Administrator
- Storage Administrator
- Network Manager

Pré-requis

Students considered for this training should have attended the following classes or obtained equivalent level of knowledge:

- Introducing Cisco Data Center Networking (DCICN)
- Introducing Cisco Data Center Technologies (DCICT)
- Interconnexion des dispositifs réseaux Cisco : Accélérée v3.0 (CCNAX) or Interconnexion des dispositifs réseaux Cisco - Partie 1 v3.0 (ICND1) and Interconnexion des dispositifs réseaux Cisco - Partie 2 v3.0 (ICND2)
- **CI-ICSNS**

The knowledge, skills, and attitudes that a learner is expected to have before attending this course are as follows:

- Understanding of server system design and architecture
- Familiarity with Ethernet and TCP/IP networking
- Familiarity with SANs
- Familiarity with Fibre Channel protocol
- Understanding of Cisco Enterprise Data Center Architecture
- Familiarity with hypervisor technologies (such as VMware)

Objectifs

The goal of this course is to teach learners how to install, configure, manage, and troubleshoot Cisco Unified Computing System B-Series blade servers and C-Series rack servers in a virtualized data center environment.

Implementing Cisco Data Center Unified Computing is a 5-day hands-on course that focuses on deployment and operations of the Cisco Unified Computing System B-Series Blade Servers and C-Series Rack Servers. Participants will learn how to configure and manage Cisco UCS servers using Unified I/O networking for LAN and SAN connectivity, and how to virtualize server hardware identifiers to enable rapid recovery of server operating system images through service profile mobility. Participants will practice configuring fault tolerance, implementing role-based access control (RBAC), backing up and restoring system configurations, and using the monitoring and troubleshooting tools in Cisco UCS Manager,Cisco Integrated Management Controller, Cisco UCS Central and Cisco IMC Supervisor. The students will also get to know the XML API that the UCS Manager offers.

Upon completing this course, the learner will be able to meet these overall objectives:

- Install the UCS B-Series system out of the box and deploy service profiles using pooled identities and service profile templates
- Configure the UCS B-Series system for deployments using iSCSI and configure B- and C-Series systems for deployments using Fibre Channel for regular data access and booting
- Configure and implement security mechanisms such as RBAC with Organizations and Locales, LDAP integration, trusted points, and key rings
- Configure and implement monitoring with syslog and Call Home
- Manage UCS Manager domains with UCS Central, manage multiple C-Series servers with Cisco IMC Supervisor, and interact with the UCS Manager XML API

Follow On Courses

- Designing Cisco Data Center Infrastructure (DCID) 7.0 (DCID)
- Implementing Cisco Data Center Infrastructure (DCII)
- Troubleshooting Cisco Data Center Infrastructure (DCIT)
- Implementing Cisco Data Center Virtualization and Automation (DCVAI)

Contenu

Implementing Cisco Data Center Unified Computing (DCUCI) v6.0 is a five-day instructor-led course that is designed to help students prepare for the Cisco CCNP® Data Center certification

and for professionallevel data center roles. The focus of this skills-building course is on deploying, securing, operating, and maintaining the Cisco Unified Computing System (UCS) and UCS C-Series Rack Servers for use in data centers. The extensively hands-on course covers configuring and managing Cisco UCS servers using unified I/O networking for LAN and SAN connectivity, virtualizing server hardware identifiers to enable rapid recovery of server operating system images, automating UCS deployments using UCS Central Software and Cisco Integrated Management Controller (IMC) Supervisor, configuring fault tolerance, implementing rolebased access control (RBAC), backing up and restoring system configurations, and using the monitoring and troubleshooting tools in Cisco UCS Manager and Cisco IMC.

Module 1: Cisco Unified Computing System Implementation

- Lesson 1: Describing Cisco UCS Server Form Factors
- Lesson 2: Describing Cisco Unified Computing System Connectivity
- Lesson 3: Configuring Identity Abstraction
- Lesson 4: Configuring Service Profile Templates

Module 2: SAN Storage Implementation for Cisco Unified Computing System

- Lesson 1: Implementing iSCSI
- Lesson 2: Implementing Fibre Channel Port Channels
- Lesson 3: Implementing FCoE

Module 3: Security Implementation for Cisco Unified Computing System

- Lesson 1: Implementing Role-Based Access Control
- Lesson 2: Implementing External Authentication Providers
- Lesson 3: Implementing Key Management

Module 4: Operations and Maintenance for Cisco Unified Computing System

- Lesson 1: Implementing Cisco UCS Firmware Updates
- Lesson 2: Implementing Cisco UCS Backups
- Lesson 3: Implementing Monitoring

Module 5: Cisco Unified Computing System Automation

- Lesson 1: Implementing Cisco UCS Central
- Lesson 2: Implementing Cisco UCS Director
- Lesson 3: Comparing Scripting Options for Cisco UCS Manager

Cisco Unified Computing