

## Configuring Cisco Unified Computing System

Varighed: 3 Days    Kursus Kode: DCCUCS    Leveringsmetode: Virtuel deltagelse

### Beskrivelse:

The Configuring Cisco Unified Computing System (DCCUCS) 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, Cisco Intersight and more.

This course will help you: Gain in-depth experience implementing and maintaining Cisco UCS servers to help you accelerate and provide robust UCS deployments. Gain knowledge and skills through Cisco's unique combination of lessons and hands-on practice using enterprise-grade Cisco learning technologies, data center equipment, and software.

Virtuel deltagelse

Et V&C Select kursus indholder nøjagtig det samme som et almindeligt kursus. Før kursusstart modtager man kursusmaterialet. Dernæst logger man på kurset via internettet og ser via sin pc den selvsamme præsentation som de øvrige deltagere, man kommunikerer via chat med underviseren og de øvrige deltagere på kurset. Denne uddannelsesmodel er både tids-og omkostningsbesparende og kan være et oplagt alternativ til almindelig klasseundervisning, hvis man f.eks. har et begrænset rejsebudget.

### Målgruppe:

Engineers involved in deploying or maintaining a Cisco Unified Computing System (UCS) solution

### Agenda:

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|---|---|
| ■ <b>After completing this course, you should be able to:</b>                 | ■ Describe and implement external authentication providers on Cisco UCS Manager |
| ■ Describe and implement Fibre Channel, zoning, and NPV features on Cisco UCS | ■ Describe and implement key management on Cisco UCS Manager                    |
| ■ Describe and implement FCoE on Cisco UCS                                    | ■ Describe and implement Cisco UCS Director                                     |
| ■ Describe Cisco UCS policies for service profiles                            | ■ Describe and implement Cisco Intersight                                       |
| ■ Describe Cisco Adapter FEX and Single Root I/O Virtualization               | ■ Describe the scripting options for Cisco UCS Manager                          |
| ■ Describe and implement RBAC on Cisco UCS                                    | ■ Describe and implement monitoring on Cisco UCS Manager                        |

### Forudsætninger:

Attendees should meet the following prerequisites:

- General knowledge of servers - **DCICN and DCICT recommended**
- Routing and switching knowledge - **CCNA , CCNAX or ICND1 and ICND2 recommended**
- Storage area networking knowledge **DCICN and DCICT recommended**
- Server virtualization knowledge - **VSICM recommended**
- CCNA - Implementing and Administering Cisco Solutions
- DCFNDU - Understanding Cisco Data Center Foundations
- DCIUCS - Introducing Cisco Unified Computing System

### Test og certificering

Recommended as preparation for the following exams:

- This course is not linked to a specific exam however it will help in providing knowledge for the new Cisco CCNP Certification track.

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## Yderligere Kurser:

**The following courses are recommended for further study:**

- **DCCOR** - Implementing and Operating Cisco Data Center Core Technologies
- **DCIT** - Troubleshooting Cisco Data Center Infrastructure
- **DCIT** - Troubleshooting Cisco Data Center Infrastructure

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## Indhold:

### Implementing Fibre Channel on Cisco UCS

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

### Implementing FCoE on Cisco UCS

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

### Describing Cisco UCS Policies for Service Profiles

- Storage Policies
- BIOS Policies
- Boot Policy
- 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
- 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

### Implementing Cisco Intersight

- Cisco Intersight Overview
- Key Features of Cisco Intersight

### 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

### 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

### Labs

- Configure Pod-Specific Device Aliases
- Configure Zoning
- Configure VSANs in Cisco UCS Manager
- Configure Unified Ports on Cisco UCS Fabric Interconnects
- Install and Boot VMware ESXi on Cisco UCS from the FCoE LUN
- Configure RBAC
- Configure Cisco UCS Manager to Authenticate Users via OpenLDAP
- Configure a Trusted Point and Key Ring in Cisco UCS Manager
- Install Cisco UCS Director
- Configure Cisco UCS Director
- Discover Infrastructure with Cisco UCS Director
- Examine the Cisco UCS Director GUI
- Design Services in Cisco UCS Director
- Configure Cisco UCS with Cisco Intersight
- Configure Cisco UCS Manager Using Scripting
- Implement Syslog and Call Home

## Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

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