

Understanding Cisco Collaboration Foundations

Cursusduur: 5 Dagen **Cursuscode: CLFNDU** **Version: 1.2** **Trainingsmethode: Virtual Learning**

Beschrijving:

The Understanding Cisco Collaboration Foundations (CLFNDU) course gives you the skills and knowledge needed to administer and support a simple, single-site Cisco® Unified Communications Manager (CM) solution with Session Initiation Protocol (SIP) gateway. The course covers initial parameters, management of devices including phones and video endpoints, management of users, and management of media resources, as well as Cisco Unified Communications solutions maintenance and troubleshooting tools. In addition, you will learn the basics of SIP dial plans including connectivity to Public Switched Telephone Network (PSTN) services, and how to use class-of-service capabilities.

This course does not lead directly to a certification exam, but it does cover foundational knowledge that can help you prepare for the professional-level collaboration courses and exams:

This course is worth 30 Continuing Education (CE) Credits

Doelgroep:

This course is designed for individuals looking to administer and support a simple single-site Cisco Unified Communications solution.

Doelstelling:

- **After completing this course, you should be able to:**
- Define collaboration and describe the main purpose of key devices in a Cisco collaboration on-premise, hybrid, and cloud deployment model
- Configure and modify required parameters in Cisco Unified Communications Manager (CM) including service activation, enterprise parameters, CM groups, time settings, and device pool
- Deploy and troubleshoot IP phones via auto registration and manual configuration within Cisco Unified CM
- Describe the call setup and teardown process for a SIP device including codec negotiation using Session Description Protocol (SDP) and media channel setup
- Manage Cisco Unified CM user accounts (local and via Lightweight Directory Access Protocol [LDAP]) including the role/group, service profile, UC service, and credential policy
- Configure dial plan elements within a single site Cisco Unified CM deployment including Route Groups, Local Route Group, Route Lists, Route Patterns, Translation Patterns, Transforms, SIP Trunks, and SIP Route Patterns
- Configure Class of Control on Cisco Unified CM to control which devices and lines have access to services
- Configure Cisco Unified CM for Cisco Jabber and implement common endpoint features including call park, softkeys, shared lines, and pickup groups
- Deploy a simple SIP dial plan on a Cisco Integrated Service Routers (ISR) gateway to enable access to the PSTN network
- Manage Cisco UCM access to media resources available within Cisco UCM and Cisco ISR gateways
- Describe tools for reporting and maintenance including Unified Reports, Cisco Real-Time Monitoring Tool (RTMT), Disaster Recovery System (DRS), and Call Detail Records (CDRs) within Cisco Unified CM
- Describe additional considerations for deploying video endpoints in Cisco Unified CM
- Describe the integration of Cisco Unity® with Cisco Unified CM and the default call handler

Vereiste kennis en vaardigheden:

Attendees should meet the following prerequisites:

- Knowledge of Cisco Internetwork Operating System (Cisco IOS®) command line

Examens en certificering

Recommended as preparation for the following exams:

- There are no exams currently aligned to this course

Vervolgcurssussen:

The following courses are recommended for further study:

- CLCOR - Implementing and Operating Cisco Collaboration Core Technologies
 - CLACCM - Implementing Cisco Advanced Call Control and Mobility Services
 - CLICA - Implementing Cisco Collaboration Applications
 - CLCEI - Implementing Cisco Collaboration Cloud and Edge Solutions
 - CLAU1 - Implementing Automation for Cisco Collaboration Solutions
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Cursusinhoud:

Defining Collaboration Technology and Benefits

- Define Collaboration Benefits
- Describe On-Premises, Cloud and Hybrid Deployments
- Describe On-Premise Collaboration Deployments
- Describe Cisco's Collaboration Endpoints
- Describe Cisco's Collaboration On-Premise Call Controllers
- Describe Cisco's Collaboration On-Premise Edge Solutions
- Describe Cisco's Collaboration On-Premise Applications
- Describe Cisco's Collaboration On-Premise Conferencing Solutions
- Describe Cisco Cloud Services

Administering Initial Parameters for Cisco Unified Communications Manager

- Understand the On-Premise Collaboration Deployment Models
- Describe the Cisco Unified Communications Manager Cluster Services
- Define Network Requirements for Collaboration
- Define Network Services for Collaboration
- Navigate Cisco Unified Communications Manager
- Explore Cisco Unified Communications Manager Groups

Exploring Endpoints and the Registration Process

- Identify Cisco Endpoint Solutions
- Explore the Bootup Process of an Endpoint
- Describe Power Over Ethernet
- Describe IP Network Settings

Exploring Codecs and Call Signaling

- Define Codecs
- Compare Audio Codecs
- Compare Video Codecs
- Describe the Call Setup and Teardown Process
- Describe SIP Call Signaling for Call Setup and Teardown
- Explore Media Streams at the Application Layer

Managing Users in Cisco Unified Communications Manager

- Analyze Cisco Unified Communications Manager User Types and Settings
- Describe Methods for Authenticating Cisco Unified Communications Manager Users

Describing a Basic Dial Plan

- Describe the Concepts of a Dial Plan and Call Routing
- Describe Elements of Call Routing
- Explore Digit Manipulation and Translation Patterns

Describing Class of Service

- Explore the Concepts of Class of Control

Enabling Endpoints and Features

- Configure a Cisco Jabber Endpoint in Cisco Unified Communications Manager
- Explore Mobility

Describing the Cisco ISR as a Voice Gateway

- Describe Cisco Voice Gateways
- Gateway Protocols
- Describe Call Legs and Dial Peers
- Describe Digital Signaling Processors (DSPs)

Exploring Cisco Unified Communication Manager Media Resources

- Describe Cisco Unified Communications Manager Media Resources
- Describe Conference Bridges
- Explore Types of Conferences
- Describe Transcoders and Media Termination Points
- Describe Music on Hold (MOH)

Reporting and Maintenance

- Explore the Troubleshooting Process
- Describe Reporting and Maintenance Tools
- Describe Cisco Real-Time Monitoring Tool

Exploring Additional Requirements for Video Endpoints

- Explore Video Endpoint Features and Operation
- Describe Collaboration Infrastructure for Video Endpoints
- Describe the Video Endpoint Hardware Installation Process
- Describe Video Endpoint Settings Menus
- Describe Video Endpoint Registration
- Describe Room Recommendations for Room and Immersive Endpoints

Describing Cisco Unity Connection

- Describe Cisco Voice Messaging Components
- Explore Cisco Unity Connection Architecture and Features
- Explore the Default System Call Handlers
- Describe End User Templates

Labs

- Discovery Lab 1: Configure Cisco Unified Communications Manager Initial Parameters
- Discovery Lab 2: Configure the Cisco Unified Communications Manager Core System Settings
- Discovery Lab 3: Deploy an IP Phone Through Manual Registration
- Discovery Lab 4: Administer Endpoints in Cisco Unified Communications Manager
- Discovery Lab 5: Create a Local User Account and Configure LDAP
- Discovery Lab 6: Adding Users in Cisco Unified Communications Manager
- Discovery Lab 7: Create a Basic Dial Plan
- Discovery Lab 8: Explore Partitions and Call Search Spaces
- Discovery Lab 9: Explore Private Line Automatic Ringdown (PLAR)
- Discovery Lab 10: Deploy an On-Premise Cisco Jabber® Client for Windows
- Discovery Lab 11: Implement Common Endpoint Features
- Discovery Lab 12: Implement Single-Site Extension Mobility
- Discovery Lab 13: Configure Jabber
- Discovery Lab 14: Configure VoIP Dial Peers
- Discovery Lab 15: Control Access to Media Resources
- Discovery Lab 16: Explore Endpoint

Troubleshooting Tools

- Discovery Lab 17: Examine the Integration between Cisco Unity Connection and Cisco Unified Communications Manager
- Discovery Lab 18: Manage Unity Connection Users

Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

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