

Understanding Cisco Collaboration Foundations v1.0

Course#: CLFNDU
Duration: 5 Days
Price: 0.00

Course Description

The CLFNDU - Understanding Cisco Collaboration Foundations v1.0 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 provides the fundamental knowledge needed prior to taking the CCNP Collaboration certification courses. It also serves as entry-level training for newcomers to Cisco on-premise collaboration technologies.

Objectives

After taking 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

This course will help you:

Administer a single-site Cisco Unified Communications Manager, handling daily tasks such as add, moves, changes and deletions of phones, video endpoints, and users

Configure Jabber devices and implement common endpoint features including call park, shared lines, pickup groups, and phone button templates

Introduce you to the SIP protocol, how calls are connected, and how media codes are determined

Introduce you to the capabilities and basic configuration of an SIP gateway for PSTN access

Introduce you to the dial plan elements used to route calls, and the class-of-service capabilities to control who can route calls where

Administer Cisco Unity Connection handling daily tasks such as add, moves, and changes and deletions of voicemail boxes and users

Administer maintenance tasks and use the troubleshooting tools available on Cisco Unified Communications Manager and Cisco Real-time Monitoring Tool

Audience

Students preparing to take the CCNP Collaboration certification

Network administrators

Network engineers

Systems engineers

Prerequisites

This course is intended to be an entry-level course.

There are no specific prerequisite Cisco courses; however, the following skills are required:

Internet web browser usability knowledge and general computer usage

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

CCNA-Implementing and Administering Cisco Solutions v1.0 Boot Camp

Content

Virtual Classroom Live Outline

Exploring the Path to Collaboration

Introducing Cisco Unified Communications Manager and Initial Parameters

Exploring Endpoints and the Registration Process

Exploring Codecs and Call Signaling

Managing Users in Cisco Unified Communication Manager

Describing a Basic Dial Plan

Describing Class of Service

Enabling Endpoints and Features

Describing the Cisco ISR as a Voice Gateway

Exploring Cisco Unified Communication Manager Media Resources

Reporting and Maintenance

Exploring Additional Requirements for Video Endpoints

Describing Cisco Unity Connection

Virtual Classroom Live Labs

Configure Default Cisco Unified CM System and Enterprise Parameters

Configure the Cisco Unified CM Core System Settings

Configure an Access Switch for an Endpoint

Deploy an IP Phone Through Auto and Manual Registration

Administer Endpoints in Cisco Unified Communications Manager

Create a Local User Account and Configure LDAP

Implement Users

Create a Basic Dial Plan

Explore Partitions and Call Search Spaces

Describe Private Line Automatic Ringdown (PLAR)

Deploy an On-Premise Cisco Jabber Client for Windows

Implement Common Endpoint Features

Configure Common Endpoint Features

Configure Voice over Internet Protocol (VoIP) Dial Peers

Configure Integrated Service Digital Network (ISDN) Circuits and Plain Old Telephone Service (POTS) Dial Peers

Control Access to Media Resources

Use Reporting and Maintenance Tools

Explore Endpoint Troubleshooting Tools

Examine the Integration between Unity Connection and Cisco Unified CM

Manage Unity Connection Users