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Implementing Cisco Advanced Call Control and Mobility Services v1.0

Course#:CLACCM
Duration:5 Days

Price:0.00

Course Description

TheCLACCM - Implementing Cisco Advanced Call Control and Mobility Services v1.0course covers advanced call control and mobility services. Through a combination of lessons and hands-on experiences, you will also learn about a wealth of other features such as Globalized Call Routing, Global Dial Plan Replication, Cisco Unified Mobility, Cisco Extension Mobility, Device Mobility, Session Initiation Protocol Uniform Resource Identifier (SIP/ URI) call routing, Call Admission Control, Cisco Unified Communications Manager Express and Survivable Remote Site Telephony (SRST) gateway technologies, Cisco Unified Board Element Call deployments, signaling and media protocols, call coverage, and time of day routing.

Objectives

Learn how to manage the tools of Cisco Unified Communications Manager (CM) for secure communication to facilitate team-based collaboration from any location using Voice over Internet Protocol (VoIP), video, unified messaging, and IM

Gain hands-on experience in using Cisco Unified Communications Manager for secure, compliant communication protocols

Acquire the knowledge to prepare for the 300-815 CLACCM exam

Audience

Network administrator

Network architect

Network designer

Network engineer

Network manager

Prerequisites

Before taking this course, you should have the following knowledge and skills:

Internet web browser usability knowledge and general computer usage

Basic understanding of networking technologies

Basic understanding of voice and video

Describe the different codecs and how they are used to transform analogue voice into digital streams

Knowledge of Cisco Internetworking Operation System (Cisco IOS XE) command line

Describe the Cisco Collaboration solutions architecture

Define collaboration and describe the main purpose of key devices in a Cisco collaboration on-premises deployment model

Configure and modify required parameters in Cisco Unified CM including service activation, enterprise parameters, CM groups, time settings, and device pool

Deploy and troubleshoot IP phones via manual configuration within Cisco Unified CM

Describe and configure endpoints and commonly required features

Compare the IP Phone signaling protocols of Session Initiation Protocol (SIP), H.323, Media Gateway Control Protocol (MGCP), and Skinny Call Control Protocol (SCCP)

Analyze traffic patterns and quality issues in converged IP networks supporting voice, video, and data traffic

Define Quality of Service (QoS) and its models

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])

Describe a dial plan and explain call routing in Cisco Unified Communications Manager Configure dial plan elements within a single site Cisco Unified CM deployment including Route Groups, Local Route Group, Route Lists, Route Patterns, Translation Patterns, Transformations, SIP Trunks, and SIP Route Patterns

Implement basic globalized call routing within a Cisco Unified Communications Manager cluster Configure calling privileges in Cisco Unified Communications Manager

Implement toll fraud prevention

Implement common endpoint features including call park, softkeys, shared lines, and pickup groups Implement Public Switched Telephone Network (PSTN) access using Media Gateway Control Protocol (MGCP) gateways

Implement a Cisco gateway for PSTN access

Deploy a simple SIP dial plan on a Cisco Interrupt Service Routine (ISR) gateway to enable access to the PSTN network

Implement and troubleshoot media resources in Cisco Unified Communications Manager

Manage Cisco Unified CM access to media resources available within Cisco Unified CM and Cisco

ISR gateways

Describe tools for reporting and maintenance including Unified Reports, Real-Time Monitoring Tool (RTMT), Distributed Resource Scheduler (DRS), and Call Detail Records (CDRs) within Cisco Unified CM

CLFNDU - Understanding Cisco Collaboration Foundations v1.0

Configuring and Troubleshooting Cisco Unified Border Element

CLCOR - Implementing and Operating Cisco Collaboration Core Technologies v1.0

Content

Classroom Live Outline

Analyzing and Troubleshooting Signaling and Media Protocols
Implementing Cisco Unified Communications Manager Supplemental Services
Implementing Call Coverage in Cisco Unified Communications Manager
Configuring and Troubleshooting Cisco Unified Communications Manager Device Mobility
Configuring and Troubleshooting Cisco Unified Communications Manager Extension Mobility
Configuring and Troubleshooting Cisco Unified CM Unified Mobility
Implementing Cisco Unified Communications Manager Express
Implementing Globalized Call Routing
Implementing Remote Site Survivability
Implementing Call Admission Control in Cisco Unified Communications Manager
Implementing URI Calling in Cisco Unified Communications Manager
Troubleshooting Multisite Cisco Unified Communications Manager Deployments
Examining Global Dial Plan Replication

Classroom Live Labs

Analyze SIP, H.323, and Media Protocols

Troubleshoot SIP and Media Protocols

Implement Cisco Unified Communications Manager Supplemental Services

Implement Call Hunting and Call Queueing in Cisco Unified Communications Manager

Configure Device Mobility

Troubleshoot Cisco Unified Communications Manager Device Mobility

Configure Cisco Unified Communications Manager Extension Mobility

Troubleshoot Cisco Unified Communications Manager Extension Mobility

Configure Cisco Unified Mobility

Troubleshoot Cisco Unified Mobility

Implement Endpoints in Cisco Unified Communications Manager Express

Implement Endpoint Addressing and Call Routing in Cisco Unified Communications Manager Express

Implement Calling Privileges in Cisco Unified Communications Manager Express

Implement Hunt Groups, Call Park, and Paging in Cisco United Communications Manager Express

Implement Globalized Call Routing

Implement TEHO, PSTN Backup, and CoS in a Globalized Call-Routing Deployment

Implement MGCP Fallback and Survivable Remote Site Telephony

Implement Call Admission Control

Implement a URI-Based Dial Plan for Multisite Deployments

Troubleshoot Globalized Call Routing

Troubleshoot Call Admission Control

Implement Global Dial Plan Replication

Implement Cisco Unified Border Element

Troubleshoot Cisco Unified Border Element