

CLCOR (IMPLEMENTING CISCO COLLABORATION CORE TECHNOLOGIES) 1.2

Objetivo

• Describe the Cisco Collaboration solutions architecture
• Compare the IP Phone signaling protocols of Session Initiation Protocol (SIP), H323, Media Gateway Control Protocol (MGCP), and Skinny Client Control Protocol (SCCP)
• Integrate and troubleshoot Cisco Unified Communications Manager with LDAP for user synchronization and user authentication
• Implement Cisco Unified Communications Manager provisioning features
• Describe the different codecs and how they are used to transform analogue voice into digital streams
• Describe a dial plan, and explain call routing in Cisco Unified Communications Manager
• Implement Public Switched Telephone Network (PSTN) access using MGCP gateways
• Implement a Cisco gateway for PSTN access
• Configure calling privileges in Cisco Unified Communications Manager
• Implement toll fraud prevention
• Implement globalized call routing within a Cisco Unified Communications Manager cluster
• Implement and troubleshoot media resources in Cisco Unified Communications Manager
• Describe Cisco Instant Messaging and Presence, including call flows and protocols
• Describe and configure endpoints and commonly required features
• Configure and troubleshoot Cisco Unity Connection integration
• Configure and troubleshoot Cisco Unity Connection call handlers
• Describe how Mobile Remote Access (MRA) is used to allow endpoints to work from outside the company
• Analyze traffic patterns and quality issues in converged IP networks supporting voice, video, and data traffic
• Define QoS and its models
• Implement classification and marking
• Configure classification and marking options on Cisco Catalyst® switches

Público Alvo

• Students preparing to take the CCNP Collaboration certification
• Network administrators
• Network engineers
• Systems engineers

Pré-Requisitos

• Working knowledge of fundamental terms of computer networking, including LANs, WANs, switching, and routing
• Basics of digital interfaces, Public Switched Telephone Networks (PSTNs), and Voice over IP (VoIP)
• Fundamental knowledge of converged voice and data networks and Cisco Unified Communications Manager deployment

Carga Horária

40 horas (5 dias).

Conteúdo Programático

Outline

- Describing the Cisco Collaboration Solutions Architecture
- Exploring Call Signaling over IP Networks
- Integrating Cisco Unified Communications Manager LDAP
- Implementing Cisco Unified Communications Manager Provisioning Features
- Exploring Codecs
- Describing Dial Plans and Endpoint Addressing
- Implementing MGCP Gateways
- Implementing Voice Gateways
- Configuring Calling Privileges in Cisco Unified Communications Manager
- Implementing Toll Fraud Prevention
- Implementing Globalized Call Routing
- Implementing and Troubleshooting Media Resources in Cisco Unified Communications Manager
- Describing Cisco Instant Messaging and Presence
- Enabling Cisco Jabber®
- Configuring Cisco Unity Connection Integration
- Configuring Cisco Unity Connection Call Handlers
- Describing Collaboration Edge Architecture
- Analyzing Quality Issues in Converged Networks
- Defining QoS and QoS Models
- Implementing Classification and Marking
- Configuring Classification and Marking on Cisco Catalyst Switches

Lab outline

- Using Certificates
- Configure IP Network Protocols
- Configure and Troubleshoot Collaboration Endpoints
- Troubleshoot Calling Issues
- Configure and Troubleshoot LDAP Integration in Cisco Unified Communications Manager
- Deploy an IP Phone Through Auto and Manual Registration
- Configure Self-Provisioning
- Configure Batch Provisioning
- Explore the Cisco VoIP Bandwidth Calculator
- Configure Regions and Locations
- Implement Endpoint Addressing and Call Routing
- Implement PSTN Calling Using MGCP Gateways
- Configure and Troubleshoot Integrated Services Digital Network (ISDN) Primary Rate Interface (PRI)
- Examine Cisco IOS Gateway Inbound and Outbound Dial-Peer Functions
- Implement and Troubleshoot Digit Manipulation on a Cisco IOS Gateway
- Configure Calling Privileges
- Implement Toll Fraud Prevention on Cisco Unified Communications Manager
- Implement Globalized Call Routing
- Deploy an On-Premise Cisco Jabber Client for Windows
- Configure the Integration Between Unity Connection and Cisco UCM
- Manage Unity Connection Users
- EAI: Configure QOS

