

CISC-20 - CLACCM - IMPLEMENTING CISCO ADVANCED CALL CONTROL AND MOBILITY SERVICES

Categoria: **Cisco**

INFORMAZIONI SUL CORSO



Durata:
5 Giorni



Categoria:
Cisco



Qualifica Istruttore:
Cisco Certified
Instructor



Dedicato a:
Professionista IT



Produttore:
Cisco

OBIETTIVI

After taking this course, you should be able to:

- Analyze and troubleshoot SIP, H.323, and media protocols
- Implement time-of-day routing, call park, call pickup, and meet-me conferences in Cisco Unified Communications Manager
- Implement call coverage in Cisco Unified Communications Manager
- Configure and troubleshoot Cisco Unified Communications Manager Device Mobility
- Configure and troubleshoot Cisco Unified Communications Manager Extension Mobility
- Configure and troubleshoot Cisco Unified Communications Manager Unified Mobility
- Implement Cisco Unified Communications Manager Express for SIP phones
- Implement globalized call routing within and between Cisco Unified Communications Manager clusters
- Implement Media Gateway Control Protocol (MGCP) fallback and Survivable Remote Site Telephony (SRST) in Cisco Unified Communications Manager and in Cisco IOS® XE gateways
- Implement Call Admission Control and Automated Alternate Routing (AAR) in Cisco Unified Communications Manager
- Implement URI calling in Cisco Unified Communications Manager for calls within a cluster and between clusters
- Troubleshoot multisite Cisco Unified Communications Manager deployments
- Implement Intercluster Lookup Service (ILS) between Cisco Unified Communications Manager clusters and enable General Data Protection Regulation (GDPR)
- Configure and troubleshoot Cisco Unified Border Element

PREREQUISITI

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

CONTENUTI

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
- Configuring and Troubleshooting Cisco Unified Border Element

Lab outline

- 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 Unified 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

INFO

Esame: 300-815 - Implementing Cisco Advanced Call Control and Mobility Services

Materiale didattico: Materiale didattico ufficiale Cisco in formato digitale

Costo materiale didattico: incluso nel prezzo del corso a Calendario

Natura del corso: Operativo (previsti lab su PC)