CLFNDU

Understanding Cisco Collaboration Foundations

Description:

This 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.

Students will be able to:

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- 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
- Continuing Education credits towards recertification (30 credits)

Course requirements:

No prerequisites

This course is intended for:

students preparing to take the CCNP Collaboration certification
 Network administrators
 Network engineers
 Systems engineers

Literature:

All participants will get original Cisco student and lab guides and time limited remote access to lab environment.

Hardware:

Labs are practiced on Cisco delivered Virtual lab environment. Classrooms are equipped with high-performance computers with Internet access and the possibility of wireless connection.

Syllabus:

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Define Collaboration Technology and Benefits
Administering Initial Parameters for Cisco Unified Communications Manager
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
Lab outline: 
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Configure Cisco Unified Communication Manager Initial 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
Adding Users in Cisco Unified Communications Manager Create a Basic Dial Plan
Explore Partitions and Call Search Spaces
Explore Private Line Automatic Ringdown (PLAR)
Deploy an On-Premise Cisco Jabber® Client for Windows
Implement Common Endpoint Features
Implement Single-Site Extension Mobility Configure Jabber
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
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