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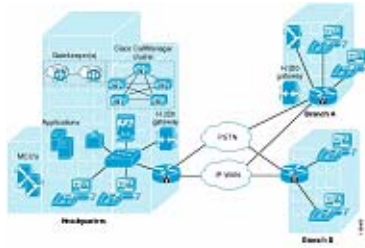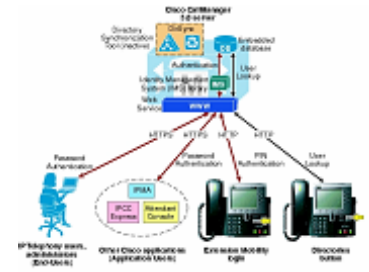
CISCO SYSTEMS
Authorized Resellers

500 EIGHTH Ave, Suite 1203, New York, NY. 10018

Cisco IPT 5.0 Update Course

Course Length: 4 weeks (32 hours), Instructor-led
Skill Development: Cisco IPT update to 5.0 version of CallManager
Prerequisites: CCNA
Target Audience: Engineers engaged in voip projects and/or pursuing CCVP certification
Course Objective: Provide students with the knowledge and skills to master IPT version 5.0
Lab: One-year onsite

Topics to be covered:

Perform an installation and initial set up of a Cisco Unified CallManager cluster

- Describe Cisco Unified CallManager cluster relationships
- Describe Cisco Unified CallManager redundancy designs
- Describe the requirements for DHCP, TFTP, DNS, and NTP
- Determine the services necessary to support a Cisco Unified CallManager deployment and enable the appropriate services
- Describe the Cisco Unified CallManager upgrade process

Describe and configure Cisco Unified CallManager to support on-cluster calling

- Explain and configure a Cisco Unified CallManager group
- Configure Cisco Unified CallManager to support Cisco SCCP & SIP Phones
- Configure Cisco Unified CallManager to support 3rd party SIP phone
- Describe the functions of Cisco Unified CallManager regions
- Describe the functions or usage of a device pool
- Explain the purpose of locations
- Describe the purpose and features of SRST and AAR
- Describe and configure RSVP
- Configure a Catalyst IOS Switch to support IP phones

Describe and configure a route plan for Cisco Unified CallManager

- Explain digit analysis; describe the functions and usage of CSS and
- Describe and configure route patterns; describe and configure route
- Describe and configure discard digit instructions, translation pattern and transformation masks
- Configure Cisco Unified CallManager and gatekeeper to support CAC
- Describe the differences between the various trunk types supported by Cisco Unified CallManager; configure intercluster trunks
- Configure Cisco Unified CallManager to utilize a voice gateway
- Describe and configure a SIP trunk and forced Account Code and
- Client Matter Code

Secure an IP telephone network

- Describe the threats to an IP Telephony network
- Describe the components used to mitigate threats to an IP telephony network
- Describe the process of communicating with the Cisco Unified CallManager Server in a secure manner
- Describe and configure authentication and encryption between Cisco Unified CallManager and endpoints
- Configure Multi-Level Administration
- Configure toll-fraud prevention
- Describe the process and configuration of IP phone hardening

Given a specific set of IP telephony applications and tools, configure Cisco Unified CallManager to support the applications

- Configure Cisco Unified CallManager BAT and TAPS to bulk add/manage phones/users
- Install and use Disaster Recovery System to backup publisher

Monitor and manage an IP telephony network

- Describe the use of Real-Time monitoring tool
- Describe the use of Cisco IPT Platform Administration
- Use the CLI to manage and monitor the Cisco Unified CallManager
- Describe and use the Dialed Number Analyzer to troubleshoot call routing issues
- Describe the process of filtering, managing, and retrieving Logs
- Describe and manage Call Detail Records

Course Asssessment

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