Cisco Meeting Server Advanced (COLLAB3501)

Modality: Virtual Classroom

Duration: 3 Days

CLC: 20 Units

About this course:

In this 3-day course Cisco Meeting Server Advanced (COLLAB350) v1.0, you will learn advanced techniques in installing, troubleshooting, and maintaining a single server and single server split deployment of Cisco Meeting Servers.

The recently purchased Acano collaboration hardware and software includes video and audio-bridging technology that allows customers to connect video systems from multiple vendors across both cloud and hybrid environments. Cisco has incorporated Acano collaboration technologies into the new Meeting Server tool.

Course Objective:

Upon completion of this course, the learner should be able to meet the following objectives:

- Cisco Meeting Server API commands
- Scalable and resilient deployments
- Customization
- Recording

Audience:

The primary audience for this course is as follows:

- Channel partners and reseller engineers installing, configuring, and maintaining scalable and resilient deployments of Cisco Meeting Server
- Channel partners and reseller engineers providing presales support for scalable and resilient Cisco Meeting Server deployments
- Customer engineers supporting scalable and resilient Cisco Meeting Server deployments

Prerequisite:

The knowledge and skills that a learner should have before attending this course are as follows:

- Cisco Meeting Server Intermediate (COLLAB250)

Course Outline:

Module 1: Reviewing Cisco Meeting Server Intermediate

- Component parts of a Cisco Meeting Solution
- Configuration steps for a Cisco Meeting Solution

Module 2: APIs

- Purpose of APIs
- Benefits of APIs
- Types of APIs
- Function of the GET, POST, PUT, and DELETE commands

Module 3: Configuring Software with an API

- How a user can interact with software using an API
- Download and install Chrome Postman
- Other API software
- Download the Cisco Meeting Server API guide

Module 4: Configuring Spaces with the Cisco Meeting Server API

- Cisco Meeting Server API structure
- Use Chrome Postman for information on calls and spaces with the GET command
- Use Chrome Postman to post a new call space with the POST command
- Use Chrome Postman to place changes in a space, including adding a member, with the PUT command
- Use Chrome Postman to delete a space with the DELETE command

Module 5: Customization Configuration

- Create and modify a user profile and assign users
- Create and modify a dual-tone multifrequency (DTMF) profile and apply to a user profile
- Modify the interactive voice response (IVR), color scheme, and background

Module 6: Planning a Resilient and Scalable Cisco Meeting Server Deployment

- Resilient server solutions
- Scalable server solutions
- Geographically dispersed configurations and GeoDNS
- Domain Name System (DNS) records required for a resilient and scalable solution
- Certificate requirements for a resilient and scalable solution

Module 7: Configuring a Database Cluster

- Relationship between cluster master and cluster slaves in a database cluster
- Certificate requirements for a secure database cluster
- Configure the certificates for a database cluster
- Configure a database cluster

Module 8: Configuring a Call Bridge Cluster

- Relationship between the Call Bridge and the Database
- How cross-cluster spaces behave
- Configure certificates for Call Bridge clustering
- Storage of configuration when entering with the API and the individual web interfaces for Lightweight Directory Access Protocol (LDAP) and Call Bridge clustering
- Configure a Call Bridge Cluster
- Connect XMPP server to multiple Call Bridges

Module 9: Configuring Load Balancers and Trunks

- Relationship between the XMPP server, Trunk and Load Balancer
- Configure certificates for multiple trunks and load balancers
- Configure multiple Trunks to multiple Load Balancers

Module 10: Configuring Multiple Web Bridges

- Relationship between multiple Web Bridges and Call Bridges
- Internal and external DNS records support for both internal and external Web Bridges
- Configure certificates for multiple Web Bridges
- Configure multiple Web bridges
- Connect multiple Call Bridges to multiple Web Bridges

Module 11: Configuring Multiple TURN Servers

- Relationship between multiple TURN servers and multiple Call Bridges
- Configure certificates for multiple TURN servers
- Configure multiple TURN servers
- Connect multiple Call Bridges to multiple TURN servers

Module 12: Configuring Multiple Recorders

- Features of the recording capability
- Software, hardware, and licensing requirements for recording
- DNS records
- Configure the Recorder
- Relationship between multiple Recorders and multiple Call Bridges
- Configure a Call Bridge to use a Recorder
- Configure certificates for multiple Recorders servers
- Configure multiple Recorder servers
- Connect multiple Call Bridges to multiple Recorder servers

Module 13: Integrating with a Resilient and Scalable Cisco Meeting Server Deployment

- Integration with Cisco TelePresence Video Communication Server (VCS) or Cisco Unified Communications Manager and multiple Call Bridges
- Integration with Cisco Expressway technology and multiple Call Bridges
- Integration with Microsoft Skype for Business and multiple Call Bridges
- Integration with Cisco TelePresence Management Suite and multiple Call Bridges

Module 14: Deploying an H.323 Gateway

- Cisco preferred architecture for H.323 and Session Initiation Protocol (SIP) interoperability
- Functionality of the Cisco Meeting Server H.323 gateway
- Configuration the Cisco Meeting Server H.323 gateway

Module 15: Multitenancy Options

- Purpose of the multitenancy capabilities
- Options for multitenancy capabilities on the Cisco Meeting Server

Module 16: Customization Options

- Options available to customize Cisco Meeting Apps
- License keys required for customization
- Web Server requirements for customization
- Options available to customize recorded messaging
- Customization options available for invitation text

Lab Outline

- Lab 1: Single-Server Deployment
- Lab 2: API Introduction
- Lab 3: Customization
- Lab 4: Database Cluster Configuration
- Lab 5: Call Bridge Cluster Configuration
- Lab 6: Multiple-Trunk and Load-Balancer Configuration
- Lab 7: Multiple Web Bridge Configuration
- Lab 8: Multiple TURN Server Configuration
- Lab 9: Multiple Recorder Configuration
- Lab10: Integrating with VCS and Microsoft Skype for Business in a Multiple Call Bridge Installation

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