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Cisco Meeting Server Advanced (COLLAB350)

The Cisco Meeting Server Advanced (COLLAB350) course is an instructor-led, lab-based, hands-on offering by Cisco® Learning Services. It covers the installation and configuration of a resilient and scalable Cisco Meeting Server installation.

Duration
Instructor-Led Training (ILT) delivery: 3 days
Virtual ILT (VILT) delivery: 3 days

Target audience
This course is designed for technical professionals who need to know how to deploy and maintain Cisco Meeting Server for scalable and resilient deployments.

Targeted roles include:
- Channel partners and reseller engineers responsible for 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

Course objectives
- Configure components of Cisco Meeting Server using the API and Chrome Postman
- Build a resilient and scalable solution using five Cisco Meeting Servers
- Describe additional features and licensing, including H.323 Gateway, multitenancy, and customization

1Course content is dynamic and subject to change without notice.
Recommended prerequisites
Cisco recommends that you have the following prerequisite knowledge and skills:

- Cisco Meeting Apps Foundation course or Acano Certified Operator course or equivalent knowledge
- Cisco Meeting Server Intermediate course or Acano Certified Expert 1 course or equivalent knowledge

The first lab of the Cisco Meeting Server Advanced course is an assessment of the course prerequisites. Cisco reserves the right to move students to the next available Cisco Meeting Server Intermediate course if prerequisite knowledge is not in place.

Course outline
Module 1: API Configuration
Lesson 1: Reviewing Cisco Meeting Server Intermediate
- Cisco Meeting Server Components
- Cisco Meeting Server Basic Configuration

Lesson 2: Exploring Web Service APIs
- Web Service API Types
- REST API Introduction
- GET, POST, PUT, and DELETE Functions

Lesson 3: Configuring Software with an API
- API Software
- API Software Tools
- Chrome Postman
- API Guide

Lesson 4: Configuring Cisco Meeting Server with Postman
- Cisco Meeting Server API Object Hierarchy
- GET Commands in Postman
- POST Commands in Postman
- PUT Commands in Postman
- DELETE Commands in Postman

Lesson 5: Customization Configuration
- Postman Collections and Environments
- Profiles
- DTMF Profiles

Module 2: Resilient and Scalable Deployments
Lesson 1: Planning a Resilient and Scalable Deployment
- Cisco Meeting Server Resiliency
- Cisco Meeting Server Scalability
● Geographic Configurations
● DNS Requirements
● Certificate Requirements

Lesson 2: Configuring a Database Cluster

● Database Clusters
● Database Cluster Certificates
● Database Cluster Certificate Configuration
● Database Cluster Configuration
● Database Upgrade

Lesson 3: Configuring a Call Bridge Cluster

● Call Bridges and Databases
● Call Bridge Cluster Certificates
● Call Bridge Cluster Configuration
● Call Bridge Configuration Storage
● LDAP Wildcards
● Distributed Space

Lesson 4: Configuring XMPP Clustering

● Architecture of an XMPP Cluster
● Configuration Settings of an XMPP Cluster

Lesson 5: Configuring Trunks and Load Balancers

● XMPP Server, Trunks, and Load Balancers
● Certificates for Trunks and Load Balancers
● Trunks and Load Balancer Configuration

Lesson 6: Configuring Web Bridges

● Web Bridge Redundancy
● Web Bridge DNS Records
● Web Bridge Certificates
● Multiple Web Bridge Configuration
● Multiple Web Bridge-to-Call Bridge Configuration

Lesson 7: Configuring Expressway®

● Expressway WebRTC Proxy Service
● Expressway WebRTC Proxy Call Flow
● Expressway WebRTC Proxy Configuration
Lesson 8: Configuring TURN Servers

- Multiple Call Bridges and Multiple Expressway TURN Servers

Module 3: Additional Features

Lesson 1: Exploring the Recorder

- Recording Capabilities
- Recorder Requirements
- Recorder Configuration
- Recorder Redundancy
- Certificates for Multiple Recorders
- Connecting Multiple Recorders to Multiple Call Bridges

Lesson 2: Configuring Unified Communications Integration

- Cisco VCS and Cisco Unified Communications Manager Integration
- Ad Hoc Conferencing
- Cisco Expressway Integration
- Microsoft Skype for Business Integration
- Dial Plan Configuration with the API
- Cisco TelePresence® Management Suite Integration

Lesson 3: Examining Licensing

- Licensing Requirements
- License Installation
- Personal Multiparty Plus Licenses

Lesson 4: Exploring Multitenancy Options

- Purpose of Multitenancy
- Multitenancy Capabilities

Lesson 5: Exploring Customization Options

- Customization Guide
- Cisco Meeting App (WebRTC) Customization
- Call Customization
- Invitation Customization
- Customization License Requirements

Lab outline

- Lab 1: Single-Server Deployment
- Lab 2: API Introduction Part 1
- Lab 3: API Introduction Part 2
- Lab 4: Customization
Lab 5: Database Cluster Deployment
Lab 6: Call Bridge Cluster Configuration
Lab 7: LDAP Configuration
Lab 8: Outbound Dial Rules
Lab 9: XMPP Clustering
Lab 10: Trunk and Load-Balancer Configuration
Lab 11: Web Bridge Configuration
Lab 12: Implementing Expressway
Lab 13: TURN Server Configuration
Lab 14: Recording
Lab 15: Unified Communications Integration (optional)

Lab topology
Figure 1 shows the topology for all labs in this course.

Figure 1. Topology for all labs

Registration email
For more information about schedules and registration for this course, contact aeskt_registration@cisco.com.
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Websites for more information

For more information, visit the following websites:

- Cisco Learning Services for Cisco products and technologies: https://www.cisco.com/go/cls