Learning Services

Cisco Meeting Server Advanced

The Cisco® Meeting Server Advanced course\(^1\) 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 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

\(^1\) Course content is dynamic and subject to change without notice.
Tasks and Features Covered

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

Recommended Prerequisites

Cisco recommends that you have the following prerequisite knowledge and skills:

- Attendance of Cisco Meeting Server Intermediate, or Cisco Acano Certified Expert 1 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

- Review the component parts of a Cisco Meeting Solution
- Review the configuration steps for a Cisco Meeting Solution

Lesson 2: Describing APIs

- Describe the purpose of APIs
- Describe the benefits of APIs
- Describe the types of APIs
- Describe the function of the GET, POST, PUT, and DELETE commands

Lesson 3: Configuring Software with an API

- Describe how a user can interact with software using an API
- Download and install Chrome Postman
- Discuss other API software
- Download the Cisco Meeting Server API guide

Lesson 4: Configuring Spaces with the Cisco Meeting Server API

- Describe the 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
Lesson 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 2: Resilient and Scalable Deployments

Lesson 1: Planning a Resilient and Scalable Cisco Meeting Server Deployment

- Describe resilient server solutions
- Describe scalable server solutions
- Describe geographically dispersed configurations and GeoDNS
- Describe the Domain Name System (DNS) records required for a resilient and scalable solution
- Describe the certificate requirements for a resilient and scalable solution

Lesson 2: Configuring a Database Cluster

- Describe the relationship between cluster master and cluster slaves in a database cluster
- Describe the certificate requirements for a secure database cluster
- Configure the certificates for a database cluster
- Configure a database cluster

Lesson 3: Configuring a Call Bridge cluster

- Describe the relationship between the Call Bridge and the Database
- Describe how cross-cluster spaces behave
- Configure certificates for Call Bridge clustering
- Describe the 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

Lesson 4: Configuring Load Balancers and Trunks

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

Lesson 5: Configuring Multiple Web Bridges

- Describe the relationship between multiple Web Bridges and Call Bridges
- Describe 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
Lesson 6: Configuring Multiple TURN Servers
- Describe the 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

Lesson 7: Configuring Multiple Recorders
- Describe the features of the recording capability
- Describe the software, hardware, and licensing requirements for recording
- Describe the DNS records
- Configure the Recorder
- Describe the 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

Lesson 8: Integrating with a Resilient and Scalable Cisco Meeting Server deployment
- Describe integration with Cisco TelePresence® Video Communication Server (VCS) or Cisco Unified Communications Manager and multiple Call Bridges
- Describe integration with Cisco Expressway™ technology and multiple Call Bridges
- Describe integration with Microsoft Skype for Business and multiple Call Bridges
- Describe integration with Cisco TelePresence Management Suite and multiple Call Bridges

Module 3: Additional Features

Lesson 1: Deploying an H.323 Gateway
- Describe the Cisco preferred architecture for H.323 and Session Initiation Protocol (SIP) interoperability
- Describe the functionality of the Cisco Meeting Server H.323 gateway
- Describe the configuration the Cisco Meeting Server H.323 gateway

Lesson 2: Describing Multitenancy Options
- Describe the purpose of the multitenancy capabilities
- Describe the options for multitenancy capabilities on the Cisco Meeting Server

Lesson 3: Describing Customization Options
- Describe the options available to customize Cisco Meeting Apps
- Describe the license keys required for customization
- Describe the Web Server requirements for customization
- Describe the options available to customize recorded messaging
- Describe the 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
- Lab 10: Integrating with VCS and Microsoft Skype for Business in a Multiple Call Bridge Installation

Lab Topology

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

Registration Email

For more information about schedules and registration for this course, contactaeskt_registration@cisco.com.

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- Cisco Learning Services for Cisco products and technologies: [http://www.cisco.com/go/cls](http://www.cisco.com/go/cls)