Implementing Cisco Collaboration Conferencing (CLCNF) v1.0

Duration: 40 Hours (5 Days)

Overview

The Implementing Cisco Collaboration Conferencing (CLCNF) v1.0 course is designed to equip learners with the knowledge and skills necessary to implement and support a comprehensive conferencing solution using Cisco's collaboration infrastructure. This includes understanding the conferencing architecture, deploying, and configuring conferencing solutions, as well as integrating them with other systems. Completing this course helps prepare participants for the Cisco video conferencing certification.Module 1: Conferencing Architecture provides a foundation in conferencing concepts and designs. Module 2: Installation and Configuration guides through setting up Cisco conferencing solutions. Module 3: Integration focuses on connecting conferencing with other systems. Module 4: Troubleshoot teaches problem-solving techniques for common issues. Those who complete the course will be well-prepared to implement and maintain Cisco conferencing platforms, furthering their professional development in the field of collaboration technology.

Audience Profile

The Implementing Cisco Collaboration Conferencing (CLCNF) v1.0 course is designed for IT professionals looking to specialize in Cisco conferencing solutions.

- Job roles and audience for the course:
- Network Administrators
- Network Engineers
- Systems Engineers
- Collaboration Engineers
- Voice and Video Network Professionals
- IT Managers overseeing collaboration tools
- Unified Communications Managers
- Communication Services Managers
- IT Professionals seeking Cisco certification in collaboration technologies

Course Syllabus

Conferencing Architecture

- 1 Describe the features and benefits of cloud, hybrid, and on-premises conferencing solutions
- 2 Describe the collaboration architecture topology and call flow required for on-premises
- internal conferencing solution using Cisco Unified Communications Manager as a call control device
- 3 Describe the collaboration architecture topology and call flow required for on-premises
- internal only conferencing solution using Cisco Expressway as a call control device
- 4 Describe on-premises conferencing solutions for external participants (B2B and
- WebRTC)
- 4.a Collaboration architecture topology
- 4.b Call flow

- 5 Describe the integration of OnPrem Microsoft Skype for Business with Cisco
- Collaboration via Expressway and Cisco Meeting Server (audio/video and IM&P Service)
- 5.a Additional collaboration architecture
- 5.b Call flow
- 6 Describe Cisco Meeting Server recording and streaming of conferences
- 6.a Additional collaboration architecture
- 6.b Call flow
- 7 Describe the features and functions of Cisco Meeting Management

Installation and Configuration

- 1 Install the Cisco Meeting Server
- 2 Describe TLS certificate requirements within Cisco Meeting Server
- 3 Determine the Cisco Meeting Server deployment most suitable, given a scenario
- 3.a Single split meeting deployment
- 3.b Single combined meeting server
- 3.c Scalable and resilient meeting server
- 3.d Cisco Expressway Web Proxy
- 4 Configure a single combined Cisco Meeting Server deployment
- 5 Configure a scalable and resilient Cisco Meeting Server deployment
- 6 Configure the Cisco Meeting Server and Cisco Expressway for external WebRTC access
- 7 Deploy and configure Cisco Meeting Management (including integrating with Cisco
- TelePresence Management Suite for phonebooks and scheduling)
- 8 Configure Cisco Meeting Server for recording
- 9 Describe the configuration of Cisco Meeting Server for streaming

Integration

- 1 Integrate Cisco Meeting Server with Cisco Unified Communication Manager using SIP
- trunks
- 2 Integrate Cisco Meeting Server with Cisco Unified Communication Manager as a
- conference bridge
- 3 Integrate Cisco Meeting Server with Expressway Core as a neighbor zone
- 4 Describe the integration of Microsoft Skype for Business 2019 with Cisco Meeting Server
- and Cisco Expressway (audio/video and IM&P Service)
- 5 Deploy, configure, and maintain Cisco TelePresence Management Suite
- 6 Integrate Cisco TelePresence Management Suite with other conferencing and endpoints
- and schedule conferences
- 7 Deploy, configure, and maintain Cisco TelePresence Management SuiteXE

Troubleshoot

- 1 Describe the implement of back up and system upgrades on Cisco Meeting Server and
- Cisco Meeting Management
- 2 Troubleshoot Cisco Meeting Server configurations using tools (WebAdmin Logs, SFTP
- Files, and API access on the web interface)
- 3 Diagnose SIP signaling and audio/video quality issues using call statistics, codec
- information, and packet captures
- 4 Interpret WebRTC audio/video quality related to Cisco Meeting Server call flows using
- call statistics, codec information, and packet captures
- 5 Interpret notifications pane and retrieve log files for Cisco Meeting Management