Implementing Cisco Collaboration Cloud and Edge Solutions (CLCEI)

Description

Master Cisco Cloud and Edge Collaboration Solutions

The Implementing Cisco Collaboration Cloud and Edge Solutions (CLCEI) training is ideal for engineers and administrators looking to enhance their skills in Cisco collaboration technologies. This course teaches you how to configure and troubleshoot Cisco Expressway technologies, ensuring a thorough understanding of B2B calls, Cisco Mobile and Remote Access (MRA) for remote workers, and authentication options, among other features of the Cisco Expressway Series.

By the end of this training, you will be able to effectively manage collaboration systems and improve the interconnectivity of remote teams. This comprehensive course prepares you for the **300-820 CLCEI exam**, covering both on-premises solutions and hybrid cloud integrations such as Cisco Webex, focusing on the security and management of calls in complex environments.

Course Content
Module 1: Configuration and Troubleshooting of Cisco Expressway Series

- Architecture of the Cisco Expressway Series
- Describe SIP and H.323 in the Cisco Expressway Series
- Explain interworking in the Cisco Expressway Series
- Zones and dial plan manipulation
- Search rules and transformations
- Troubleshooting call processing
- Backup and restore

Module 2: Configuration of Additional Cisco Expressway Features

- Bandwidth management
- Local endpoint registration
- Security features
- Expressway clustering

Module 3: Configuration and Troubleshooting of Cisco Unified Communications Manager and Cisco Expressway Series

- Overview of Cisco Unified Communications Manager and Cisco Expressway-C integration
- Call flows and dial plans
- Call policies and troubleshooting

Module 4: Cisco Business-to-Business Collaboration Solutions

- Describe B2B collaboration services
- Prerequisites for B2B collaboration
- Call flows, including Cisco Unified Communications Manager endpoints
- Network address translation in a collaboration environment
- Troubleshooting B2B calls on the Cisco Expressway Series

Module 5: Securing B2B Communications

- Firewall traversal
- Certificates
- Media security
- Securing media between Cisco Unified Communications Manager and Cisco Expressway Series
- Toll fraud prevention

Module 6: Mobile and Remote Access (MRA)

- Prerequisites for mobile and remote access
- Service Discovery
- Expressway settings for MRA
- Certificates and HTTP proxy
- Cisco Jabber registration
- Hybrid deployment of Cisco Jabber
- Cisco Jabber configuration file
- MRA troubleshooting

Module 7: Integrating and Securing Mobile and Remote Access

- Integration of secure unified communications
- Integration of Cisco Unity Connection
- Access control options for Cisco MRA
- Additional Cisco MRA features

Module 8: Cisco Webex Hybrid Services

- Cisco Webex Control Hub
- Cisco Webex Hybrid Media Services
- Cisco Expressway network requirements for Hybrid Call Service Connect
- Cisco Webex video network

Lab / Exercises

- Deploy a virtualized Cisco Expressway
- Perform initial configuration of the Cisco Expressway Series
- Register endpoints on the Cisco Expressway Series
- Call search history and registration
- Troubleshooting tools
- Configure bandwidth management and registration restrictions

- Troubleshoot the Cisco Expressway Series and endpoint registration
- Configure security features for the Cisco Expressway Series
- Configure Cisco Unified Communications Manager to connect to Cisco Expressway-C
- Troubleshoot Cisco Unified Communications Manager and Expressway Series integration
- Configure MRA with additional application integrations
- Prepare Cisco Webex teams integration

Documentation

- Digital course material included

Exam

- 300-820 Implementing Cisco Collaboration Cloud and Edge Solutions (CLCEI) exam. If you wish to take this exam, please contact our secretariat who will let you know the cost of the exam and will take care of all the necessary administrative procedures for you.

Participant profiles

- Collaboration engineers
- Collaboration administrators
- Network engineers
- Unified communications specialists
- IT architects specializing in collaboration

Prerequisites

- Understanding of networking technologies
- Basic knowledge of collaboration and unified communications
- Familiarity with SIP and XMPP protocols
- Experience with Cisco Unified Communications Manager
- Experience in managing voice and video networks

Objectives

- Configure and troubleshoot Cisco Expressway solutions
- Integrate Cisco Unified Communications Manager with Cisco Expressway
- Secure B2B and MRA communications
- Configure and troubleshoot Cisco Webex hybrid solutions
- Implement mobile and remote collaboration solutions
- Prepare for the 300-820 CLCEI exam

Description
Implementing Cisco Collaboration Cloud and Edge Solutions (CLCEI) Training
Niveau
Intermédiaire
Classroom Registration Price (CHF)
4350
Virtual Classroom Registration Price (CHF)
4350
Duration (in Days)
5
Reference
CLCEI