Implementing Cisco Collaboration Cloud and Edge Solutions v1.1 (300-820)

Exam Description: Implementing Cisco Collaboration Cloud and Edge Solutions v1.1 (CLCEI 300-820) is a 90-minute exam associated with the CCNP Collaboration Certification. This exam certifies a candidate's knowledge of collaboration cloud and edge solutions, expressway configurations, Cisco Webex Teams hybrid and emerging technologies. The course, Implementing Cisco Collaboration Cloud and Edge Solutions, helps candidates to prepare for this exam.

The following topics are general guidelines for the content likely to be included on the exam. However, other related topics may also appear on any specific delivery of the exam. To better reflect the contents of the exam and for clarity purposes, the guidelines below may change at any time without notice.

25% 1.0 Key Concepts

- 1.1 Describe the complications of NAT in a Collaboration environment
- 1.2 Describe the purpose of ICE, TURN and STUN
- 1.3 Describe Expressway media traversal
- 1.4 Describe protocol interworking on the Expressway
 - 1.4.a H.323-to-SIP
 - 1.4.b IPv4 and IPv6
- 1.5 Describe Expressway Licensing
 - 1.5.a Option keys
 - 1.5.b License consumption
- 1.6 Describe SIP media encryption mode
 - 1.6.a Auto
 - 1.6.b Force encrypted
 - 1.6.c Force unencrypted
 - 1.6.d Best effort
- 1.7 Describe Expressway Core dial plan elements
 - 1.7.a Transforms
 - 1.7.b Search rules
 - 1.7.c Zones
 - 1.7.d Regular expressions
 - 1.7.e Pipes and links
- 1.8 Describe key Expressway settings
 - 1.8.a DNS
 - 1.8.b Network interfaces
 - 1.8.c Certificates

- 1.8.d QoS
- 1.8.e Clustering
- 1.8.f Network firewall rules
- 1.9 Describe Expressway backup and restore procedure (stand alone and cluster)

25% 2.0 Initial Expressway Configurations

- 2.1 Configure key Expressway settings
 - 2.1.a DNS
 - 2.1.b Network interfaces
 - 2.1.c Certificates
 - 2.1.d QoS
 - 2.1.e Clustering
 - 2.1.f Network firewall rules
 - 2.2 Configure Expressway Core dial plan elements
 - 2.2.a Transforms
 - 2.2.b Search rules
 - 2.2.c Zones
 - 2.2.d Regular expressions
 - 2.3 Configure toll fraud prevention on Expressway series (no custom CPL scripts)
 - 2.4 Configure a Business to Business (B2B) collaboration solution
 - 2.4.a DNS records (focus on Microsoft DNS)
 - 2.4.b Certificates (focus on Microsoft CA)
 - 2.4.c Traversal zones
 - 2.4.d Neighbor zones
 - 2.4.e Transforms
 - 2.4.f Search rules
 - 2.4.g SIP trunk integration with Cisco UCM
 - 2.5 Troubleshoot a Business to Business (B2B) collaboration solution
 - 2.5.a DNS records (focus on Microsoft DNS)
 - 2.5.b Certificates (focus on Microsoft CA)
 - 2.5.c Traversal zones
 - 2.5.d Neighbor zones
 - 2.5.e Transforms
 - 2.5.f Search rules
 - 2.5.g SIP trunk integration with Cisco UCM

25% 3.0 Mobile and Remote Access

- 3.1 Configure a Mobile and Remote Access (MRA) solution
 - 3.1.a DNS records
 - 3.1.b Certificates (UCM, IM&P, Expressways, Unity Connection)
 - 3.1.c Unified Communications traversal zones
 - 3.1.d Unified Communications configuration on Expressway
 - 3.1.e HTTP allow list
 - 3.1.f SIP trunk security profile on Cisco UCM

- 3.2 Troubleshoot a Mobile and Remote Access (MRA) solution
 - 3.2.a DNS records
 - 3.2.b Certificates (UCM, IM&P, Expressways, Unity Connection)
 - 3.2.c Unified Communications traversal zones
 - 3.2.d Unified Communications configuration on Expressway
 - 3.2.e HTTP allow list
 - 3.2.f SIP trunk security profile on Cisco UCM

25% 4.0 Cisco WebEx Technologies

- 4.1 Describe the signaling and media flows used in a Cisco Webex Video Mesh deployment
- 4.2 Configure Webex Hybrid Services
 - 4.2.a Calendar Service (Office 365, Microsoft Exchange, One Button to Push, and Google Calendar)
 - 4.2.b Message Service (Deployment requirements, expressway requirements, certificates, Call Manager prerequisites, IM&P prerequisites, deployment models)
 - 4.2.c Video Mesh (Deployment requirements, bandwidth, clustering, endpoint support, video call capacity, ports and protocols, deployment models)
 - 4.2.d Webex Edge for devices
- 4.3 Describe the components of a Webex architecture
- 4.4 Describe the administration functions in Webex
 - 4.4.a User management, such as adding users, removing users, and modifying users
 - 4.4.b Organization management, such as setting up a domain, settings, security, and integrations
 - 4.4.c Site management, such as adding multiple sites, enabling features, common site settings
- 4.5 Configure user management integrations (directory services and SSO)
 - 4.5.a Directory synchronization (deployment requirements, deployment models, infrastructure requirements, Active Directory configuration, synchronization, Webex user license assignment)
 - 4.5.b SSO (Control Hub configuration, deployment requirements, and SAML agreement attributes)