



Vendor: Cisco

Exam Code: 400-051

Exam Name: CCIE Collaboration Written Exam v1.1

Version: DEMO

QUESTION 1

Refer to the exhibit. An engineer is trying to provision CUCME with three 8841 phones. However all phone fail to register.

Which two changes in the configuration would allow the phones to register? (Choose two)

```
voice service voip
  no ip address trusted authenticate
  allow-connections sip to sip
  sip
    no update-callerid
!
voice register global
  mode cme
  max-dn 10
  max-pool 10
!
voice register dn 1
  number 5000 name Phone A
!
voice register dn 2
  number 5001 name Phone B
!
voice register dn 3
  number 5002 name Phone C
!
voice register pool 1
  id mac 0000.1111.112A
  type 8841 number 1 dn 1
!
voice register pool 1
  id mac 0000.1111.112B
```

- A. The registrar server command must be added under the voice register global configuration
- B. The IP address trusted authenticate command must be added under voice service voip
- C. The source-address command must be added under the voice register global configuration
- D. The local SIP proxy address must be configuration under the sip-ua configuration
- E. The registrar server command must be added under the sip section of voice service voip

Answer: CE

QUESTION 2

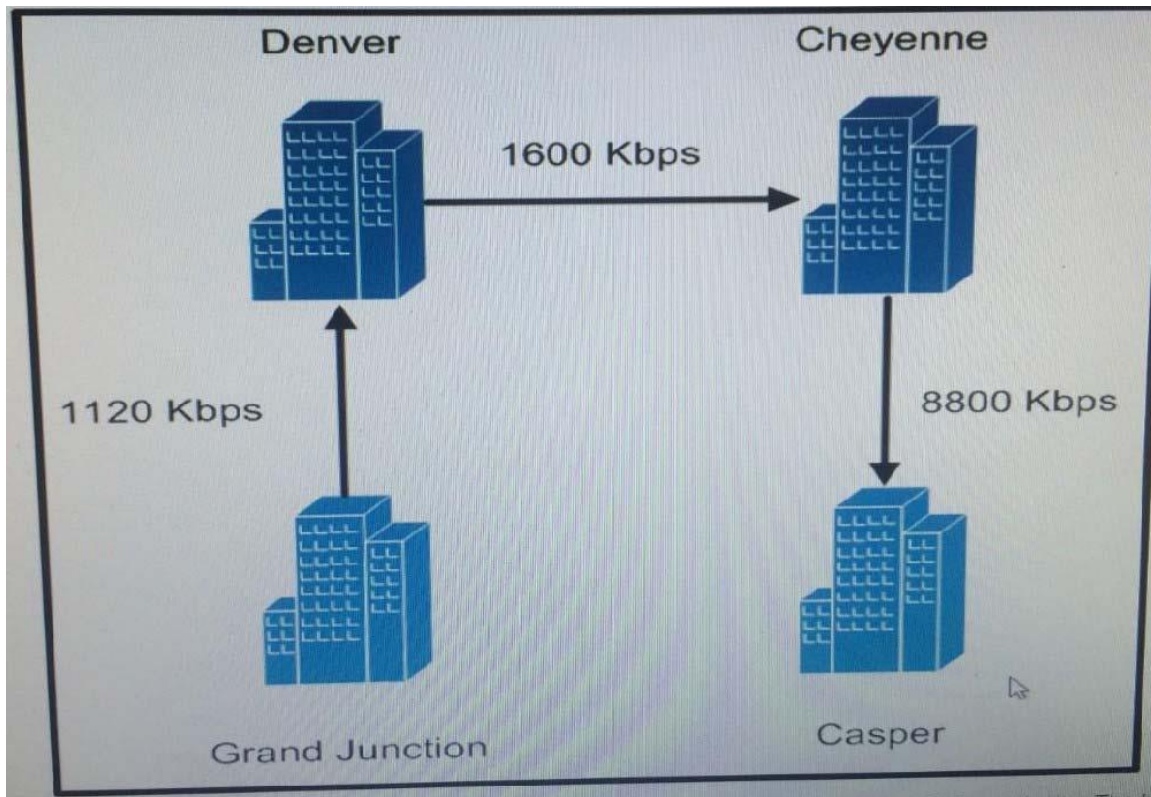
A collaboration engineer has been asked to implement secure real-time protocol between a Cisco Unified CM and SIP gateway. Which option is a consideration for this implementation?

- A. Only T.38 and Cisco fax protocol are supported
- B. SIP require the all the time be sent in GMT
- C. Call hold RE-INVITE is not supported
- D. SRTP is supported only in cisco IOS 15.x and higher

Answer: B

QUESTION 3

Refer to the exhibit. A collaboration engineer configures Cisco Unified CM location using G.711 and iLBC for each site. The bandwidth for each link is shown. Which two options represent the maximum concurrent number of calls supported from Grand Junction to Casper for each Codec? (Choose two)



- A. 20 G.711 calls
- B. 18 G.711 calls
- C. 36 iLBC calls
- D. 42 iLBC calls
- E. 11 G.711 calls
- F. 51 iLBC calls

Answer: CE

QUESTION 4

A collaboration engineer is troubleshooting a MOH problem on a Cisco IOS SIP gateway. While searching through a debug ccsip message output, which three parameters in the SIP messages can be used to determine if the call was placed on hold? (Choose three)

- A. OPTIONS WITH 301 CALLHOLD
- B. INVITE WITH a=INACTIVE
- C. INVITE WITH a=SENDONLY
- D. OPTION WITH c=INACTIVE
- E. c=IN IP4 0.0.0.0
- F. BYE WITH A = CALLHOLD

Answer: BCE

QUESTION 5

Refer to the exhibit. A Cisco collaboration engineer discovers that an instance of IOS media termination point (MTP) could not maintain stable registration with CUCM. Call manager traces is showing in the exhibit. What is the reason for the flapping registration?

```
!CDC_CALMANAGER-6-StationConnectionError: 4[DeviceName=MTPSITEA][ReasonCode=4][ClusterID=StandAloneCluster]
[NodeID=GLFCUCMPOB10]: Station device is closing the connection
!AppInfo [New connection accepted. DeviceName=, TCPPid = [1.100.14.145],
IPAddr=172.35.140.1, Port=58046, Device Controller=(0,0,0)
!SdlSig [StationClose [waiting [MediaTerminationPointControl(1.100.137.136) [StationInit(1.100.62.1)
[1.100.14.145.2*172.35.140.1** [R:N-H:0,N:0,L:0,V:0,Z:0,D:0] CloseStationReason = 4 StationId =
!AppInfo [MediaTerminationPointControl(136)::star_StationClose DeviceName= MTPSITEA
!AppInfo [MediaTerminationPointControl(136)::decTotalCounter Count=100
!AppInfo [MediaTerminationPointControl(136)::decAvailableCounter - Count=100
!AppInfo [MediaTerminationPointControl(136)::decActiveCounter - Count=0
!AppInfo [MediaTerminationPointControl(136)::deleteStateInstance -
Delete State Instance for MtpdControl succeeds - Device = MTPSITEA.statIndex= 1
!SdlSig [MediaTerminationPointStopConf [shutting_down [MediaTerminationPointControl(1.100.137.136)
!MediaTerminationPointControl(1.100.137.136) [1.100.14.145.2*172.35.140.1** [R:N-H:0,N:0,L:0,V:0,Z:0,D:0]
!AppInfo [MediaTerminationPointControl(136)::shutting_down_MediaTerminationPointStopConf - Device = MTPSITEA - Un-registered
```

- A. The CCM version on IOS configuration does not match the CUCM version.
- B. The IOS MTP is experiencing high CPU and is missing its keep-alive.
- C. A Firewall is blocking port 2000 intermittently between IOS Device and CUCM.
- D. Another IOS Media device is attempting to register with the same name.

Answer: D

QUESTION 6

A collaboration engineer is designing Cisco IM&P implementation to support instant messaging logging for compliance.

Which two external databases can be used to support that functionality? (Choose two.)

- A. Oracle database
- B. MySQL database
- C. Microsoft SQL database
- D. PostgreSQL database
- E. Informix SQL database

Answer: AD

QUESTION 7

Refer to the exhibit. A Cisco collaboration engineer is troubleshooting a gateway and gatekeeper problem and sees this output from a debug command.

Which two configuration can cause this problem? (Choose two)

```
RAS INCOMING PDU ::=
value RasMessage ::= registrationReject :
{
  requestSeqNum 24
  protocolIdentifier { 0 0 8 2250 0 3 }
  rejectReason duplicateAlias:
  {
  }
  gatekeeperIdentifier {"gk"}
}
```

- A. The same zone prefix is configured in two different gatekeepers
- B. The same H323-ID is configured in two different gateways
- C. The same gw-type-prefix is configured in two different zone subnet IDs
- D. The same zone subnet ID is configured in two different gatekeepers
- E. The same E164-ID is configured in two different gateways

Answer: BE

QUESTION 8

The Cisco Unified Border Element is configured using high availability with the Hot Standby Routing Protocol. Which two pieces of information can be gathered about the calls traversing these border elements? (Choose two.)

```
CUBE_PSTN#show voice high-availability summary

===== Voice HA DB INFO =====
Number of calls in HA DB: 100
Number of calls in HA sync pending DB: 50
Number of calls in HA preserved session DB: 70
```

- A. The total number of calls is 150.
- B. The number of non-native calls is 70.
- C. The number of native calls is 50.
- D. The number of calls preserved is 220.
- E. The total number of active calls is 100.

Answer: AB

QUESTION 9

Refer to the exhibit. Which two SIP packet handling behaviour will result with this cisco Unified Border Element (CUBE) configuration? (Choose two)

```
voice service voip
no ip address trusted authenticate
rtcp keepalive
mode border-element
allow-connections sip to sip
redundancy
no supplementary-service sip refer
signaling forward unconditional
fax protocol t38 version 0 ls-redundancy 0 hs-redundancy 0 fallback none
sip
min-se 360 session-expires 360
header-passing
error-passthru
asserted-id pai
midcall-signaling passthru
privacy-policy passthru
pass-thru headers unsupp
pass-thru content unsupp
no call service stop
```

- A. Unsupported content/MIME pass-through
- B. SIP Refer is not support when received on this CUBE
- C. Privacy headers received on SIP message will be replaced with NON-privacy headers on this CUBE
- D. P-Preferred identities
- E. Mid-call codec changes

Answer: AE

QUESTION 10

Refer to the exhibit. Debug RAS output is logged on a H.323 gateway.
Which RAS message is sent next by the H.323 gateway?

```
Jan 10 02:31:25.598: h323chan_gw_conn: Created socket fd=1
Jan 10 02:31:25.598: h323chan_gw_conn: Created socket fd=2h323chan_dgram_send:Sent UDP msg.
Bytes sent: 50 to 224.0.1.41:1718 fd=2

Jan 10 02:31:25.598: RASLib::GW_RASsendGRQ: GRQ (seq# 47) sent to 224.0.1.41
Jan 10 02:31:25.598: h323chan_chn_process_read_socket
Jan 10 02:31:25.598: h323chan_chn_process_read_socket: fd=2 of type CONNECTED has data
Jan 10 02:31:25.598: h323chan_chn_process_read_socket: h323chan accepted/connected fd=2

Jan 10 02:31:25.598: h323chan_dgram_rcvdata:rcvd from [10.1.1.2:1718] on fd=2
Jan 10 02:31:25.598: GCF (seq# 47) rcvd from h323chan_dgram_send:Sent UDP msg.
```

- A. ARQ
- B. BRQ
- C. IRQ
- D. LRQ
- E. RRQ

Answer: E

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