

- **Vendor: Microsoft**
- **Exam Code: 70-333**
- **Exam Name: Deploying Enterprise Voice with Skype for Business 2015**
- **Question 1 – Question 12**

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Case Study 1 - Contoso, Ltd.

General Overview

Contoso, Ltd., is a manufacturing company that has 4,000 employees. The company has a sales department, a marketing department, a research department, and a human resources department.

Physical Locations

The company has four offices. The offices are configured as shown in the following table.

Office location	Number of users	Extension prefix	Client subnet
New York	1,500	1	192.168.8.0/21
Miami	100	2	192.168.20.0/24
Los Angeles	400	3	192.168.30.0/23
Houston	200	4	192.168.40.0/24

The New York office contains the main data center. Communications for all of the offices is routed through the New York office. All telephone calls from the Los Angeles office and the Miami office are routed through a public switched telephone network (PSTN) gateway in the New York office. All offices connect to each other by using a wide area network (WAN) link. Each office connects directly to the Internet.

Existing Environment

Active Directory Environment

The company has an Active Directory Domain Services (AD DS) forest named contoso.com. The forest contains a single domain. All domain controllers run Windows Server 2008 R2. Each office contains two domain controllers. Each office is configured as an AD DS site. Each office contains DHCP servers that run on 32-bit servers.

Skype for Business Server Environment

The company has nine servers. The servers are configured as shown in the following table.

Server name	Office	Role	Software
Server1.contoso.com	New York	Front End Server	Skype for Business Server 2015
Server2.contoso.com	New York	Front End Server	Skype for Business Server 2015
Pool1.contoso.com	New York	Front End pool	n/a
Server3.contoso.com	New York	Mediation Server	Skype for Business Server 2015
Server4.contoso.com	New York	Edge Server	Skype for Business Server 2015
Gtwy1.contoso.com	New York	Media gateway	None
Gtwy2.contoso.com	Miami	Media gateway	None
Sba1.contoso.com	Houston	Survivable Branch appliance	Skype for Business Server 2015
Exch1.contoso.com	New York	Client Access Hub Transport Mailbox Unified Messaging	Microsoft Exchange Server 2010

The company uses a SIP domain of contoso.com. The voice infrastructure is configured as shown in the following table.

Office	Phone number range	User dialing habit
New York	+1 212 555 1000-3000	<ul style="list-style-type: none"> Local PSTN: 10-digit phone number Long distance within North America: 11-digit phone number International: 011 + phone number
Miami	+1 425 555 1000-1100	<ul style="list-style-type: none"> Local PSTN: 7-digit phone number Long distance within North America: 11-digit phone number International: 011 + phone number
Los Angeles	+1 310 555 4000-4500	<ul style="list-style-type: none"> Local PSTN: 10-digit phone number Long distance within North America: 11-digit phone number International: 011 + phone number
Houston	+1 713 555 4000-4200	<ul style="list-style-type: none"> Local PSTN: 10-digit phone number Long distance within North America: 11-digit phone number International: 011 + phone number

All users are enabled for Enterprise Voice. The company also contains two Edge Servers that have Skype for Business Server 2015 deployed. The servers are configured as shown in the following table.

Component	IP addressing	FQDN
A/V Edge service	131.107.100.3/24	Av.contoso.com
Access Edge service	131.107.100.1/24	Sip.contoso.com

The Miami office has a dial plan. The dial plan is configured as shown in the following table.

Normalization rule	Match pattern	Translation pattern
Internal New York	^1\d{4}\$	+1212555\$1
Internal Houston	^4\d{4}\$	+1713555\$1
Local 7 Digits	^(555\d{4})\$	+1425\$1
Long Distance	^(1\d{10})\$	+\$1
International	^(011\d{2}\d+)\$	+\$1

The Skype for Business Server 2015 configuration has five routes. Location-based routing is not configured. The routes are configured as shown in the following table.

Route name	Pattern to match	Description
LocalHouston	+1713	Local calls in Houston through the gateway in the Houston office
LocalLA	+1310	Local calls in Los Angeles through the gateway in the Los Angeles office
LDNY	+1	Long distance calls through the gateway in the New York office
LDHouston	+1	Long distance calls through the gateway in the Houston office
LDLA	+1	Long distance calls through the gateway in the Los Angeles office

The PSTN usage for the users in the Los Angeles office is configured as shown in the following table.

PSTN usage name	Description
LocalDialing	Local calls within the area code
PrimaryLongDistanceDialing	All long distance calls within North America
BackupLongDistanceDialing	Backup for all long distance calls if PrimaryLongDistanceDialing fails

Problem Statements

The company identifies the following issues with the current infrastructure:

- Los Angeles users report that the audio quality during calls to the New York office is poor and that the calls often disconnect.
- Users in the Miami office report that when their WAN link fails, they cannot establish calls to the PSTN.
- The Miami users report that they cannot call the Los Angeles users by using a five-digit internal phone number.

Requirements

Planned Changes

The company plans to implement the following changes:

- Provide voice resiliency in all of the offices if a WAN link fails.
- Implement Call Pack

- Implement an unassigned number range that has a voice announcement.
- Add an additional auto attendant.
- Implement a gateway in the Los Angeles office that uses the local PSTN.
- Migrate several users to Skype for Business Online.
- The users will use instant messaging (IM) with Skype for Business users only.
- Client computers will use automatic configuration and open federation.
- The migrated users will use a SIP domain of cloud.contoso.com.
- Provide a backup route for each office if a gateway fails. Provide each office with access to the local PSTN.

Technical Requirements

The company identifies the following technical requirements:

Enable five-digit internal dialing that uses the site code and the last four digits of the phone number range.

Configure the New York gateway as the backup route for the local gateway in each office.

Business Requirements

Changes to the infrastructure must minimize the number of new servers deployed.

QUESTION 1

Drag and Drop Question

You need to create the DHCP options required for Skype for Business Phone Edition devices. Which three actions should you perform? To answer, move the three appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions

Answer Area

From a DHCP server, run
`dhcpconfigscript.bat`.

Copy `Dhcpconfigscript.bat` to
a Skype for Business Server
2015 server.

From a Skype for Business
Server 2015 server, run
`dhcputil.exe`.

Copy `Dhcpconfigscript.bat` to
a DHCP server.

From a DHCP server, run
`dhcputil.exe`.

From a Skype for Business
Server 2015 server, run
`dhcpconfigscript.bat`.



Answer:

Actions

Answer Area

From a DHCP server, run `dhcpcnfigscript.bat`.

Copy `Dhcpcnfigscript.bat` to a Skype for Business Server 2015 server.

From a Skype for Business Server 2015 server, run `dhcputil.exe`.

Copy `Dhcpcnfigscript.bat` to a DHCP server.

From a DHCP server, run `dhcputil.exe`.

From a Skype for Business Server 2015 server, run `dhcpcnfigscript.bat`.

Copy `Dhcpcnfigscript.bat` to a DHCP server.

From a DHCP server, run `dhcputil.exe`.

From a DHCP server, run `dhcpcnfigscript.bat`.

QUESTION 2

You collect the following call statistics for users in Los Angeles:

- Peak call concurrency is 25 percent.
- Fifty percent of all placed calls are routed to the public switched telephone network (PSTN)
- Thirty percent of all placed calls are internal calls to users in the other offices.
- Twenty percent of all placed calls are conference calls.
- The average bandwidth for peer-to-peer calls is 65 kilobits per second (Kbps).
- The average bandwidth used for conference calls is 100 Kbps.

You need to allocate the minimum amount of bandwidth required on the wide area network (WAN) link for the planned implementation of the voice gateway in the Los Angeles office. All calls to the PSTN will be routed through the local voice gateway in the Los Angeles office. How much bandwidth in megabits per second (Mbps) should you allocate?

- A. 7.20 Mbps
- B. 3.95 Mbps

- C. 10.00 Mbps
- D. 2.25 Mbps

Answer: A

QUESTION 3

Drag and Drop Question

You need to plan the subnets for Call Admission Control (CAC) and media bypass. Which subnet or subnets should you use for each office? To answer, drag the appropriate subnet or subnets to the correct office in the answer area. Each subnet may be used once, more than once, or not at all. Additionally, you may need to drag the split bar between panes or scroll to view content.

Subnets	Answer Area
192.168.0.0/16	New York Subnet Subnet
192.168.8.0/21	Los Angeles Subnet
192.168.20.0/24	Miami Subnet
192.168.30.0/23	Houston Subnet
192.168.40.0/24	
131.107.100.0/24	
131.107.100.1/32	
131.107.100.3/32	

Answer:

Subnets	Answer Area
192.168.0.0/16	New York 192.168.8.0/21 131.107.100.3/32
192.168.8.0/21	Los Angeles 192.168.30.0/23
192.168.20.0/24	Miami 192.168.20.0/24
192.168.30.0/23	Houston 192.168.40.0/24
192.168.40.0/24	
131.107.100.0/24	
131.107.100.1/32	
131.107.100.3/32	

QUESTION 4

Hotspot Question

You need to design the Call Park solution. Which Call Park design should you choose? To answer, select the appropriate range and application server in the dialog box in the answer area.

Range:

	▼
0-99	
100-199	
200-9999	
999-10000	

Application server:

	▼
Server1.contoso.com	
Server2.contoso.com	
Server3.contoso.com	
Pool1.contoso.com	

Answer:

Range:

	▼
0-99	
100-199	
200-9999	
999-10000	

Application server:

	▼
Server1.contoso.com	
Server2.contoso.com	
Server3.contoso.com	
Pool1.contoso.com	

QUESTION 5

Drag and Drop Question

You need to configure the unassigned numbers range to support the planned changes. Which four actions should you perform? To answer, move the four appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions

Answer Area

Run the **Import-CsAnnouncementFile** Skype for Business Management Shell cmdlet.

Run the **New-CsAnnouncement** Skype for Business Management Shell cmdlet.

Create an .mp3 file that contains the announcement.

Create an unassigned number range.

Run the **Set-CsApplicationServer** Skype for Business Management Shell cmdlet.

Create a .wav file that contains the announcement.



Answer:

Actions

Answer Area

Run the **Import-CsAnnouncementFile** Skype for Business Management Shell cmdlet.

Run the **New-CsAnnouncement** Skype for Business Management Shell cmdlet.

Create an .mp3 file that contains the announcement.

Create an unassigned number range.

Run the **Set-CsApplicationServer** Skype for Business Management Shell cmdlet.

Create a .wav file that contains the announcement.

Answer Area interface showing a list of actions:

- Create a .wav file that contains the announcement.
- Run the **Import-CsAnnouncementFile** Skype for Business Management Shell cmdlet.
- Run the **New-CsAnnouncement** Skype for Business Management Shell cmdlet.
- Create an unassigned number range.

Navigation arrows: > < ^ v

QUESTION 6

Hotspot Question

You need to ensure that the Miami users can use a five-digit extension when they call the Los Angeles users. What should you include in the normalization rule? To answer, configure the appropriate match pattern and translation pattern in the dialog box in the answer area.

Normalization rule

Match pattern

Translation pattern

Internal Los Angeles

	▼
^1(\d{5})\$	
^2(\d{4})\$	
^3(\d{4})\$	
^3(\d{5})\$	

	▼
+1\$1	
+1310\$1	
+1310555\$1	
+555\$1	

Answer:

Normalization rule	Match pattern	Translation pattern																				
Internal Los Angeles	<table border="1"> <tr><td> </td><td>▼</td></tr> <tr><td>^1(\d{5})\$</td><td></td></tr> <tr><td>^2(\d{4})\$</td><td></td></tr> <tr><td>^3(\d{4})\$</td><td></td></tr> <tr><td>^3(\d{5})\$</td><td></td></tr> </table>		▼	^1(\d{5})\$		^2(\d{4})\$		^3(\d{4})\$		^3(\d{5})\$		<table border="1"> <tr><td> </td><td>▼</td></tr> <tr><td>+1\$1</td><td></td></tr> <tr><td>+1310\$1</td><td></td></tr> <tr><td>+1310555\$1</td><td></td></tr> <tr><td>+555\$1</td><td></td></tr> </table>		▼	+1\$1		+1310\$1		+1310555\$1		+555\$1	
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^3(\d{4})\$																						
^3(\d{5})\$																						
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+1\$1																						
+1310\$1																						
+1310555\$1																						
+555\$1																						

Case Study 2 – Litware, Inc.

General Overview

Litware, Inc. is a marketing company that has 20,000 users.

Physical Locations

Litware has a main office and a branch office. The main office is located in New York. The branch office is located in Montreal. The offices connect to each other by using a WAN link. Each office connects directly to the Internet. Each office has a firewall between the internal network and the perimeter network. Each office has a firewall between the perimeter network and the Internet.

Existing Environment

Active Directory Infrastructure

The network contains an Active Directory Domain Services (AD DS) forest named litware.com. The forest contains a single domain. All domain controllers run Windows Server 2012. Each office contains two domain controllers. Each office is configured as an Active Directory site.

Skype for Business Server Infrastructure

The network contains a Skype for Business Server 2015 infrastructure. The infrastructure contains 12 servers. The servers are configured as shown in the following table. Litware uses the following Skype for Business features:

- Instant messaging (IM)
- A/V conferencing

The Skype for Business Server 2015 infrastructure is configured to use federation with users at a partner company, which is named Contoso, Ltd. Contoso has a SIP domain named contoso.com. The users at Contoso use Microsoft Skype for Business Online. Litware has a Microsoft Exchange Server 2013 organization. You integrate Exchange 2013 with Skype for Business Server 2015.

Planned Changes

Litware plans to implement the following changes:

- Enable Enterprise Voice for all users.
- Add IP phones to the existing VLANs.
- Add a SIP trunk to each site.

Problem Statements

Litware identifies the following issues:

- The current firewall configurations allow all ports and all protocols to the Skype for Business Server 2015 infrastructure.
- A change to the Skype for Business hosted provider proxy FQDN recently caused the federation with contoso.com to become unavailable.

Requirements

Business Goals

Litware plans to minimize hardware and software purchasing costs.

Technical Requirements

Litware identifies the following technical requirements:

- The Enterprise Voice solution must ensure that calls to Canada are routed through the SIP trunk in the Montreal office. Litware identifies 39 area codes and a country code of 1 for Canada. You must minimize the number of voice routes that you must create.
- The Enterprise Voice solution must ensure that calls to any country

besides Canada are routed through the SIP trunk in the New York office. Litware identifies 269 area codes and a country code of 1 for the United States.

- If the SIP trunk in the New York office fails, users in the Montreal office must be able to place international calls.
- The provider of the New York SIP trunk requires that the 011 prefix be used to make all international calls. Rules exist to ensure that dialed numbers conform to E.164 standards.
- Application sharing for up to 200 simultaneous remote users and 100 simultaneous internal users in a single conference must be supported. Each application sharing session uses 500 Kbps. Only users on the internal network are presenters of the conferences. You must minimize the amount of bandwidth needed to application sharing.
- Users in the New York and Montreal offices must be able to dial a local number to access their voice mail remotely. Subscriber access must be available in French for the Montreal office users and in English and Spanish for the New York office users.
- Skype for Business Phone Edition devices must be supported. Users must be able to access their voice mail only from the Skype for Business client by clicking Call Voice Mail.
- You must minimize the number of access numbers and UM dial plans that you create.

Security Requirements

Allow only the required communications through the firewalls for the supported Lync services.

Response Group Requirements

Litware plans to create a response group for support calls to meet the following requirements:

- Incoming calls must be routed to any support staff who are online and available.
- If the support call is not answered by a support staff member, the call must be forwarded to the group of managers on call that day.
- Calls forwarded to the managers must be sent to the manager who has not answered a support call in the longest amount of time.

QUESTION 7

Hotspot Question

You need to create the Unified Messaging (UM) dial plans and access numbers for subscriber access. How many UM dial plans and access numbers should you create? To answer, select the appropriate number of UM dial plans and access numbers in the answer area.

Answer Area

Number of UM dial plans:

4
2
1
0

Number of access numbers:

0
1
2
4

Answer:

Answer Area

Number of UM dial plans:

4
2
1
0

Number of access numbers:

0
1
2
4

QUESTION 8

You need to create a rule to meet the technical requirements for international dialing from the SIP trunk in the New York office. Which type of rule should you create?

- A. called number translation

- B. normalization
- C. dialing
- D. calling number translation

Answer: A

QUESTION 9

Hotspot Question

You need to allocate bandwidth required for application sharing. How much bandwidth in kilobits per second (Kbps) should you allocate? To answer, select the appropriate amount of bandwidth for each network connection in the answer area.

From the client computer of the conference presenter to a Front End pool:

	▼
500 Kbps	
50,000 Kbps	
100,000 Kbps	

From a Front End pool to an Edge Server:

	▼
500 Kbps	
50,000 Kbps	
100,000 Kbps	

From an Edge Server to the Internet:

	▼
500 Kbps	
50,000 Kbps	
100,000 Kbps	

Answer:

From the client computer of the conference presenter to a Front End pool:

	▼
500 Kbps	
50,000 Kbps	
100,000 Kbps	

From a Front End pool to an Edge Server:

	▼
500 Kbps	
50,000 Kbps	
100,000 Kbps	

From an Edge Server to the Internet:

	▼
500 Kbps	
50,000 Kbps	
100,000 Kbps	

QUESTION 10

You need to create the voice routes. How many voice routes should you create?

- A. 1
- B. 2
- C. 4
- D. 40
- E. 270

Answer: C

QUESTION 11

You are implementing the Enterprise Voice solution. You create the objects described as shown in the following table.

Object name	Object description
PSTN1	The PSTN usage record for international calls from the Montreal office
PSTN2	The PSTN usage record for international calls from the New York office
VR1	The voice route that uses the trunk in the Montreal office and is associated to PSTN1
VR2	The voice route that uses the trunk in the New York office and is associated to PSTN2
VP1	The voice policy for the Montreal office users
VP2	The voice policy for the New York office users

You need to recommend which action must be performed to meet the technical requirements for Enterprise Voice routing. What should you add?

- A. PSTN1 to VP1
- B. PSTN1 to VP2
- C. PSTN2 to VP1
- D. PSTN2 to VP2

Answer: C

QUESTION 12

Remote users report that they fail to access their voice mail by using the Call Voice Mail option in the Skype for Business client. Remote users can access voice mail by using the subscriber access number. Internal users do not report any issues accessing voice mail. You need to enable voice mail access without manually dialing the subscriber number. Which two sets of ports should you open? Each correct answer presents part of the solution.

- A. TCP 443 and UDP 3478 on the external firewall
- B. TCP 5062 and 8057 on the internal firewall. TCP 5062 and 8057 on the external firewall
- C. TCP 443 and UDP 3478 on the internal firewall
- D. UDP 50,000 to 59,999 on the internal firewall
- E. UDP 50,000 to 59,999 on the external firewall

Answer: A

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