

Microsoft

Exam 70-333

Deploying Enterprise Voice with Skype for Business 2015 (beta)

Version: 7.0

[Total Questions: 55]

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Topic 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 Park

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 No : 1 HOTSPOT - (Topic 1)

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 No : 2 DRAG DROP - (Topic 1)

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 dhcpcfigscript.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 dhcpcfigscript.bat .	

Answer:

Actions	Answer Area
From a DHCP server, run dhcpconfigscript.bat .	Copy Dhcpconfigscript.bat to a DHCP server.
Copy Dhcpconfigscript.bat to a Skype for Business Server 2015 server.	From a DHCP server, run dhcputil.exe .
From a Skype for Business Server 2015 server, run dhcputil.exe .	From a DHCP server, run dhcpconfigscript.bat .
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 .	

Question No : 3 HOTSPOT - (Topic 1)

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	<input type="text"/> <input type="text" value="▼"/> ^1(\d{5})\$ ^2(\d{4})\$ ^3(\d{4})\$ ^3(\d{5})\$	<input type="text"/> <input type="text" value="▼"/> +1\$1 +1310\$1 +131055\$1 +555\$1

Answer:

Normalization rule	Match pattern	Translation pattern
Internal Los Angeles	<div style="border: 1px solid black; padding: 2px;"> <div style="text-align: right; margin-bottom: 5px;">▼</div> <div style="border-bottom: 1px solid black; padding: 2px;">^1(\d{5})\$</div> <div style="border-bottom: 1px solid black; padding: 2px; border: 2px solid green;">^2(\d{4})\$</div> <div style="border-bottom: 1px solid black; padding: 2px;">^3(\d{4})\$</div> <div style="padding: 2px;">^3(\d{5})\$</div> </div>	<div style="border: 1px solid black; padding: 2px;"> <div style="text-align: right; margin-bottom: 5px;">▼</div> <div style="border-bottom: 1px solid black; padding: 2px;">+1\$1</div> <div style="border-bottom: 1px solid black; padding: 2px;">+1310\$1</div> <div style="border-bottom: 1px solid black; padding: 2px; border: 2px solid green;">+131055\$1</div> <div style="padding: 2px;">+55\$1</div> </div>

Question No : 4 DRAG DROP - (Topic 1)

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.

<p>Actions</p> <div style="border: 1px solid lightblue; padding: 5px; margin-bottom: 10px;">Run the Import-CsAnnouncementFile Skype for Business Management Shell cmdlet.</div> <div style="border: 1px solid lightblue; padding: 5px; margin-bottom: 10px;">Run the New-CsAnnouncement Skype for Business Management Shell cmdlet.</div> <div style="border: 1px solid lightblue; padding: 5px; margin-bottom: 10px;">Create an .mp3 file that contains the announcement.</div> <div style="border: 1px solid lightblue; padding: 5px; margin-bottom: 10px;">Create an unassigned number range.</div> <div style="border: 1px solid lightblue; padding: 5px; margin-bottom: 10px;">Run the Set-CsApplicationServer Skype for Business Management Shell cmdlet.</div> <div style="border: 1px solid lightblue; padding: 5px;">Create a .wav file that contains the announcement.</div>	<div style="display: flex; flex-direction: column; align-items: center; gap: 10px;"> > < </div>	<p>Answer Area</p> <div style="display: flex; flex-direction: column; align-items: center; gap: 10px;"> < > </div>
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