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Exam : **070-333**

Title : Deploying Enterprise Voice
with Skype for Business 2015

Vendor : Microsoft

Version : DEMO

NO.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"/> ▼ ^1(\d{5})\$ ^2(\d{4})\$ ^3(\d{4})\$ ^3(\d{5})\$	<input type="text"/> ▼ +1\$1 +1310\$1 +1310555\$1 +555\$1

Answer:

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

Explanation

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

NO.2 You support Skype for Business Server 2015 servers in your customer's network. The network includes two branches connected with an 8 megabits per second (Mbps) network circuit. The circuit has 1 Mbps of dedicated bandwidth for Skype for Business voice traffic. The network is required to handle 50 peer-to-peer (P2P) calls at a minimum.

Users report that calls between the branches are being dropped, and voice quality is degraded.

Skype for Business audio codecs:

Codec	Typical stream bandwidth kilobits per second (kbps)
RTAudio Wideband	39.8
RTAudio Narrowband	29.3
SILK Wideband	44.3
G.722	46.1
Siren	25.5

You need to calculate appropriate bandwidth for the P2P call volume required. What is the minimum dedicated bandwidth that should you allocate?

- A. 2.305 Mbps
- B. 1.990 Mbps
- C. 1.465 Mbps
- D. 2.215 Mbps
- E. 1.275 Mbps

Answer: C

Explanation

References:

[https://technet.microsoft.com/en-us/library/jj688118\(v=ocs.15\).aspx](https://technet.microsoft.com/en-us/library/jj688118(v=ocs.15).aspx)

NO.3 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	

Explanation

Range:

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

Application server:

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

NO.4 Fabrikam has recently deployed Skype for Business Server for all modalities including Enterprise Voice which they manage from central location in Sydney. A recent change in their work from home policies requires users to work from their homes at least 3 days a week. Fabrikam's IT help desk has 10 members in their tier 1 TeleHelp group dedicated to receive incoming support calls of the internal employees. Fabrikam wants to deploy a Skype for Business solution for the TeleHelp group with minimum administrative effort.

TeleHelp group members want to get a notification of all the incoming calls to any member of the TeleHelp group. Each member should be able to answer the call as per their availability.

You need to deploy Skype for Business solution for TeleHelp group.

What two actions should you perform? Each answer: presents part of the solution.

- A.** Configure a response group and add TeleHelp group members as formal agents.
- B.** For every TeleHelp group member configure Forward My Calls to My Delegates and add each member as a delegate to each other.
- C.** For every TeleHelp group member configure Forward My Calls to Team-Call Group consisting of all 10 members.
- D.** For every TeleHelp group member configure Simultaneously Ring to My Delegates and add each member as a delegate to each other.
- E.** Configure a response group and add TeleHelp group members as informal agents.
- F.** Configure Group Call Pickup for TeleHelp group.

Answer: D,F

NO.5 A company has a Skype for Business Server 2015 environment.

All users are enabled for Enterprise Voice.

The infrastructure has a single route that applies to all users of (.*)

You need to prevent the users from calling external numbers that start with 1900 or 1976.

What are two possible ways to achieve this goal? Each correct answer presents a complete solution.

- A.** Create an unassigned number range of +19000000000 to +19009999999 and +19760000000 to +19769999999.
- B.** Create a voice route that has the following match pattern: \+(! (1900 | 1976))
- C.** Modify the dial plan rules to exclude the normalization of dialed numbers that start with 1900 or 1976.
- D.** Create a voice route that has the following match pattern: \+(?! (1900 | 1976))

Answer: A,D

NO.6 You have a Skype for Business Server 2015 infrastructure.

You configure the Skype for Business Server to require that each user has a location. You configure a location for each subnet.

Users report that when they sign in, they are prompted for their location information.

You need to prevent the users from being prompted for their location information when they sign in to Skype for Business on the internal network.

Which Skype for Business Management Shell cmdlet should you run?

- A.** Publish-CsTopology
- B.** Publish-CsLISConfiguration
- C.** Export-CsLISconfiguration
- D.** Set-CsNetworkSubnet

Answer: B

Explanation

References: <https://technet.microsoft.com/en-us/library/gg398364.aspx>

References: <https://technet.microsoft.com/en-us/library/gg398364.aspx>

NO.7 Wingtip Toys is a toy manufacturer and distributor in North America. The company has a main office and two branch offices. The main office is located in New York. The branch offices are located in Boston and Chicago.

You need to configure the Skype for Business Server 2015 deployment.

What should you do? To answer, drag the appropriate actions to the correct requirements in the answer area.

Each action 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.

Features

Implement Call Admission Control.

Implement Differentiated Services.

Implement Media bypass.

Implement Quality of Experience.

Add Mediation servers.

Answer Area

Limit the total bandwidth of all audio and video sessions from the Chicago office.

Action

Reduce the network utilization of Mediation servers.

Action

Prioritize Skype for Business audio traffic on the network.

Action

Answer:

Features	Answer Area
Implement Call Admission Control.	Limit the total bandwidth of all audio and video sessions from the Chicago office. Reduce the network utilization of Mediation servers. Prioritize Skype for Business audio traffic on the network.
Implement Differentiated Services.	
Implement Media bypass.	
Implement Quality of Experience.	Implement Call Admission Control.
Add Mediation servers.	Implement Media bypass.
	Implement Quality of Experience.

Explanation

Limit the total bandwidth of all audio and video sessions from the Chicago office.

Implement Call Admission Control.

Reduce the network utilization of Mediation servers.

Implement Media bypass.

Prioritize Skype for Business audio traffic on the network.

Implement Quality of Experience.

Reference:

<https://docs.microsoft.com/en-us/skypeforbusiness/plan-your-deployment/enterprise-voice-solution/call-admissio>

<https://docs.microsoft.com/en-us/skypeforbusiness/plan-your-deployment/enterprise-voice-solution/media-bypas>

<https://docs.microsoft.com/en-us/skypeforbusiness/optimizing-your-network/optimizing-your-network#impleme>

NO.8 You need to ensure that least cost routing is used in the Los Angeles and Houston offices for local calls after the gateway is deployed. The solution must meet the technical requirements. Which route should you assign to each public switched telephone network (PSTN) usage? To answer, drag the appropriate route to the correct PSTN usage in the answer area. Each route 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.

Routes	Answer Area		
LocalHouston	LocalDialing	Route	Route
LocalLA	PrimaryLongDistanceDialing	Route	
LDNY	BackupLongDistanceDialing	Route	
LDHouston			
LDLA			

Answer:

Routes

LocalHouston
LocalLA
LDNY
LDHouston
LDLA

Answer Area

LocalDialing	LocalLA	LocalHouston
PrimaryLongDistanceDialing	LDLA	
BackupLongDistanceDialing	LDNY	

Explanation

Routes

LocalHouston
LocalLA
LDNY
LDHouston
LDLA

Answer Area

LocalDialing	LocalLA	LocalHouston
PrimaryLongDistanceDialing	LDLA	
BackupLongDistanceDialing	LDNY	

NO.9 Your company has a Skype for Business Server 2015 infrastructure.

All users are enabled for Enterprise Voice. All network components support the Link Layer Discovery Protocol (LLDP).

A client computer named Computer1 runs Windows 10. Computer1 connects to a wireless network connection and a wired network connection.

You need to locate Computer1.

Which element should you use to locate Computer1?

- A. the Basic Service Set Identification (BSSID) address of the wireless access point (WAP)
- B. the MAC addresses of the wired network connection
- C. the LLDP switch port
- D. the IP subnet of the wireless network
- E. the LLDP switch chassis ID

Answer: C**NO.10** 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

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

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.



Explanation

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.

=====
Topic1, 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.

Server name	Server site	Network	Role	Pool name	IP address
Server1	New York	Internal	Enterprise Edition Front End Server	NYPOOL1	10.0.0.1
Server2	New York	Internal	Enterprise Edition Front End Server	NYPOOL1	10.0.0.2
Server3	New York	Internal	Enterprise Edition Front End Server	NYPOOL1	10.0.0.3
Server4	New York	Internal	Enterprise Edition Front End Server	NYPOOL2	10.0.0.4
Server5	New York	Internal	Enterprise Edition Front End Server	NYPOOL2	10.0.0.5
Server6	New York	Internal	Enterprise Edition Front End Server	NYPOOL2	10.0.0.6
PServer1	New York	Perimeter	Edge Server	NYPOOL3	131.107.0.1
PServer2	New York	Perimeter	Reverse proxy	<i>Not applicable</i>	131.107.0.2
Server11	Montreal	Internal	Enterprise Edition Front End Server	MOPOOL1	10.1.0.1
Server12	Montreal	Internal	Enterprise Edition Front End Server	MOPOOL1	10.1.0.2
Server13	Montreal	Internal	Enterprise Edition Front End Server	MOPOOL1	10.1.0.3
Server14	Montreal	Internal	Enterprise Edition Front End Server	MOPOOL2	10.1.0.4
Server15	Montreal	Internal	Enterprise Edition Front End Server	MOPOOL2	10.1.0.5
Server16	Montreal	Internal	Enterprise Edition Front End Server	MOPOOL2	10.1.0.6
PServer11	Montreal	Perimeter	Edge Server	MOPOOL3	131.107.1.1
PServer12	Montreal	Perimeter	Reverse proxy	<i>Not applicable</i>	131.107.1.2

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 Skype for Business 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.