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**Case Study 1 - Contoso, Ltd (QUESTION 1 - QUESTION 8)**

**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. 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. The company uses a SIP domain of contoso.com. The voice infrastructure is configured as shown in the following table. 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. The Miami office has a dial plan. The dial plan is configured as shown in the following table. 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. The PSTN usage for the users in the Los Angeles office is configured as shown in the following table.

**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 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. Answer: 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: B

**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. Answer: 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. Answer: 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. Answer: 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. Answer: QUESTION 7 Hotspot Question You need to deploy the Skype for Business components that are necessary to support the planned changes for voice resiliency. Which component should you deploy at each office? To answer, select the appropriate component for each office in the answer area. Answer: QUESTION 8 Drag and Drop Question You are evaluating the implementation of the gateway in the Los Angeles office. 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. Answer: Case Study 2 - Litware, inc (QUESTION 9 - QUESTION 14) 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 9 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: QUESTION 10 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 11 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. Answer: QUESTION 12 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 13 You are implementing the Enterprise Voice solution. You create the objects described as shown in the following table. 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 14 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 Case Study 3 - Humongous Insurance (QUESTION 15 - QUESTION 19) Humongous Insurance currently employs 7,500 people and is based in the United States. The company has 4,000 users in its main office in Chicago. It also has two branch offices, one in New York with 2,000 users and the other in Los Angeles with 1,500 users. The company has 30 executives located across the offices. The company recently migrated from Lync Server 2010 to Skype for Business Server 2015. The company plans to increase the use of audio and video (A/V) conferencing to reduce travel costs. Employees have been asked to use A/V, telephony, and instant messaging (IM) conferencing solutions whenever possible for communication with clients and users in the branch offices. Humongous Insurance is federated with Trey Research Corporation, which uses a third-party IM solution. Users at both companies need to communicate with each other by using their respective IM client. The company plans to continuously analyze the network to identify: - potential network delay points - availability of adequate bandwidth to meet current requirements and anticipated growth The company plans to continuously analyze the Skype for Business Server 2015 servers for performance metrics. Planned Changes Humongous is in discussion to acquire the Southbridge Video company. Southbridge Video has 2,000 users in two sites. Employees of Humongous Insurance use a variety of mobile devices, including Windows Phones and iOS phones. All iOS phone users must be notified of events, such as new or missed IM invitations and voice mail messages, even when they are using the corporate wireless network. All public switched telephone network (PSTN) traffic will use the G.711 codec. All voice will use the RTAudio Wideband codec. All peer-to-peer (P2P) video sessions will support H.264 and RTVideo codecs. Audio bandwidth between the Los Angeles and New York offices is limited. Challenges All users report poor audio and video quality. Calls are dropped or suffer from jitter and lag. These issues exist when users are using the Skype for Business client or Skype for Business Phone Edition. Humongous Insurance users currently are unable to IM with external clients that use different IM programs. Currently there is no network oversight for Skype for Business communications. The company has no plans to increase the bandwidth at any sites. Humongous Insurance does not have a defined remote user access policy. Existing Environment The three offices are connected to one another as shown in the following network diagram: Additional information about the existing environment is shown in the Supporting Information section: - Overview of data centers - Detail of the Chicago data center - Overview of audio and video codec bandwidths Employees of Humongous Insurance use various operating systems, including Windows 7 Enterprise, and Windows 8. All users are enabled for Enterprise Voice, and many have Skype for Business Phone Edition. The concurrent communication modalities usage of the three offices is shown in the following table: Humongous Insurance expects to see the number of video users increase by as much as 10 percent. The company expects to see the number of voice users increase by as much as 15 percent. All users at Humongous Insurance will be Skype for Business enabled. The network team configures Quality of Service (QoS) as follows: The Skype for Business Server 2015 media configuration matches the port settings used on the network. The company uses synthetic transactions to perform call and voice tests. Many of the employees of Humongous Insurance work from home and sign in securely to the corporate environment in order to use Skype for Business. Business Requirements Humongous Insurance would like to review the existing network topology and wants to ensure that network capacity will meet current Skype for Business Server 2015 infrastructure capacity requirements for audio and video usage, as well as meet the anticipated increases. All existing issues relating to the poor quality of Skype for Business Server 2015 calls and conferencing need to be addressed. Company policy allows for all employees to have the option to use video conferencing. Employees will be limited to VGA video quality. Company executives will not have these limitations. Quality of Service (QoS) ports must be unique for audio and video traffic. The company wants to confirm that the current network bandwidth allocated for the network is sufficient for all current and anticipated growth in Skype for Business Server 2015 traffic and would like to guarantee high-quality Skype for Business Server 2015 calls and video conferencing. Humongous Insurance wants to

ensure that the volume of Skype for Business Server 2015 traffic does not exceed 50 percent of WAN bandwidth. The recommended design solution needs to eliminate the possibility of WAN oversubscription by Skype for Business Server 2015 traffic. Humongous Insurance wants to use only dedicated computers to monitor the network and perform synthetic transactions to limit the load on the computers. The proposed Skype for Business Server 2015 solution needs to provide scalability to accommodate the company's future acquisition of Trey Research. The proposed Skype for Business Server 2015 solution should be readily available for users in all three sites. Technical Requirements The company wants to allow only authorized employees to connect remotely. All remote users will use a secure method when remotely connecting to the network and the Skype for Business environment. The number of open and listening ports must be kept to a minimum. All maintenance and tests of network policies must be done outside of normal business hours. Bandwidth between sites cannot be increased. The quality of voice and video traffic must be increased. The number of dropped calls must be reduced. The corporate information technology (IT) department must be able to push updates and scan users' computers when they are connected remotely. All push notifications must be able to be sent mobile clients on all supported cell phone manufactures. Many users do not use Windows mobile phones. IM users must be able to IM with users who are using other IM programs. The Skype for Business Server 2015 Bandwidth Calculator must be used to analyze Skype for Business traffic. It is recommended to deploy QoS for end-to-end support. Mobile client users are supported only with Lync 2013 Mobile clients. Supporting Information Overview of data centers Detail of the Chicago data center Overview of audio and video codec bandwidths QUESTION 15 You need to recommend a solution to test users' ability to schedule, join, and conduct an audio/video (A/V) conference. What should you do? A. Run the Test-CsAVConference Skype for Business Management Shell cmdlet and then analyze the trace call flow in Snooper. B. Run the Test-CsMxConference Skype for Business Management Shell cmdlet and save the results. View the results by using the Skype for Business Server 2015 Logging Tool. C. Run the Test-CsUcwaConference Skype for Business Management Shell cmdlet. D. Run the Test-CsAudioConferencingProvider Skype for Business Management Shell cmdlet and save the results. View the results by using the Central Logging Service. Answer: A Lead2pass.com is best place to prepare your 70-333 exam with 100% reliable study guide. We are providing free sample questions here so you can check our study guide quality. 70-333 new questions on Google Drive: <https://drive.google.com/open?id=0B3Syig5i8gpDZTBIMkFEQIRmNzg> 2017 Microsoft 70-333 exam dumps (All 75 Q&As) from Lead2pass: <http://www.lead2pass.com/700-333.html> [100% Exam Pass Guaranteed]