



Recertification for MCSE: Communication

Version: 6.0

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Topic 1, Contoso Ltd Case A

Overview

General Overview

Contoso, Ltd. is an electronics parts company located in North American. The company has 4,400 employees.

Contoso recently bought a company named Litware, Inc. Litware has an office in New York. Litware has a Lync Server 2010 infrastructure and has Microsoft Lync 2010 clients deployed to all of its client computers.

Physical Locations

Contoso has a main office and a satellite office. The main office is located in Toronto. The satellite office is located in Boston. The Toronto office has 4,200 users. The Boston office has 200 users.

All offices connect to each other by using a WAN link.

Only the Toronto office connects directly to the Internet.

Existing Environment

Active Directory Environment

Contoso has an Active Directory forest named contoso.com. The forest contains a single domain. All domain controllers run Windows Server 2008 R2.

Lync Server Environment

Contoso has a Lync Server 2013 infrastructure and a Microsoft Exchange Server 2013 organization. The Lync Server 2013 infrastructure contains an Enterprise Edition Front End pool named Pool1.

The network contains five servers. The servers are configured as shown in the following table.

| Server name | Role | Location | |
|--|------------------------------|----------|--|
| Lync1 | Front End Server in Pool1 | Toronto | |
| Edge1 | Edge Server | Toronto | |
| Exchange1 Mailbox server Client Access server | | Toronto | |
| Server1 Member server | | Toronto | |
| SQL1 | Back End Server | Toronto | |

The Lync Server infrastructure currently uses the names shown in the following table.

| Name | Use |
|--------------------|---|
| Pool1.contoso.com | Enterprise Edition Front End pool FQDN |
| Meet.contoso.com | Simple URL for meetings |
| Webext.contoso.com | External web services FQDN |

All users can remotely access the Lync Server services from a client computer. The users cannot access the Lync Server services from a mobile device.

Some of the users have Lync 2010 installed. Most of the users run Lync 2013.

Problems Statements

Contoso identifies the following business issues:

- Users in the Boston office report that there are delays in the audio stream during conferences and that the audio frequently drops. Users in the other offices do not report this issue.
- Users cannot share Microsoft PowerPoint presentations during web conferences. Users can share other documents.
- All of the users in the Toronto office report that they receive the following error message from Lync 2013: "Lync can't connect to Exchange. You might experience Contact list issues".

Requirements

Planned Changes

Contoso plans to implement the following changes:

Implement the unified contact store.

- *I* Deploy the Office Web Apps component.
- Add a second Front End Server named Lync2 in the Toronto office.
- Access Lync Server services by using mobile devices from the internal network and from the Internet.
- Implement direct federation with Litware and other business partners. All federated domains will have to be defined explicitly.

Administrative Requirements

A support technician named Techl must be able to perform all of the tasks currently performed by the members of the CSHelpDesk group. Additionally, Techl must also be able to edit conferencing policies.

Web Conferencing Requirements

Contoso identifies the following requirements for web conferencing:

- *I* Users from Litware must be able to download the content of web conferences.
- *I* Users must be able to share PowerPoint presentations during web conferences.
- *I* Users from Litware must be able to record web conferences.
- A URL that points to a disclaimer must be provided.

Mobility Requirements

Contoso plans to provide all users the ability to connect by using mobile devices. When users connect from a mobile device, they must download their server settings automatically.

Question No : 1 HOTSPOT - (Topic 1)

You are planning the implementation of the unified contact store. You need to identify which clients can be used to read the contact list and which clients can be used to modify the contact lists.

Which clients should you identify?

To answer, select the correct actions for each client in the answer area.

| Client | Read contact lists | Modify contact lists |
|------------------------|--------------------|----------------------|
| Microsoft Outlook 2013 | Г | |
| Outlook Web App | | |
| Lync 2010 | | |
| Lync 2013 | 5 | |

Answer:

| Client | Read contact lists | Modify contact lists |
|------------------------|---|----------------------|
| Microsoft Outlook 2013 | Ð | |
| Outlook Web App | E. | 1 L |
| Lync 2010 | 6 | |
| Lync 2013 | line in the second s | Ð |

Explanation:

| Client | Read contact lists | Modify contact lists |
|------------------------|--------------------|----------------------|
| Microsoft Outlook 2013 | | |
| Outlook Web App | | |
| Lync 2010 | | E |
| Lync 2013 | | |

http://support.microsoft.com/kb/2757458/en-us?fr=1

| Θ | CAUSE |
|---|--|
| | This issue occurs because, when the Unified Contact Store is deployed between Microsoft Exchange 2013 and Lync Server 2013, the Lync 2010 and Lync for Mac 2011 clients do not understand where it should update or save changes. Therefore, users who are enabled for the Unified Contact Store cannot change their contacts list from Lync 2010 and Lync for Mac 2011. |
| Θ | SOLUTION |
| | To resolve this issue, use Microsoft Lync 2013, Microsoft Outlook Web Access 2013, or Microsoft Outlook to change your contacts. ↑ Back to the top Give Feedback |
| Θ | MORE INFORMATION |
| | On Windows, to confirm if a user is enabled for Unified Contact Store, check the following registry key for a value of 2165. If the key is not present or does not have a value of 2165, the user is not enabled for Unified Contact Store and should be able to change contacts from a Lync 2010 client. HKEY_CURRENT_USER\Software\Microsoft\Office\15.0\Lync\ <sip url="">\UCS</sip> |

"Lync Server Environment

Contoso has a Lync Server 2013 infrastructure and a Microsoft Exchange Server 2013 organization.

The Lync Server 2013 infrastructure contains an Enterprise Edition Front End pool named Pool1.

The network contains five servers. The servers are configured as shown in the following table."

TO EDIT THE CONTACT DATA IN THE UNIFIED CONTACTS STORE USE: Microsoft Lync 2013, Microsoft Outlook Web Access 2013 Microsoft Outlook 2013

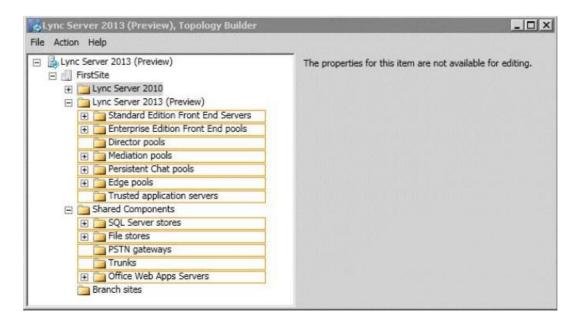
http://support.microsoft.com/kb/2757458/en-us?fr=1

Question No : 2 HOTSPOT - (Topic 1)

You need to modify the FQDN of the external web services.

From which node should you perform the modification?

To answer, select the appropriate node in the answer area.



Answer:

| Elim | c Server 2013 (Preview) | |
|------|------------------------------------|---|
| | | The properties for this item are not available for editing. |
| | FirstSite | |
| + | Lync Server 2010 | |
| = | Lync Server 2013 (Preview) | |
| | Standard Edition Front End Servers | |
| | Enterprise Edition Front End pools | |
| | Director pools | |
| | Mediation pools | |
| | Persistent Chat pools | |
| | 🖅 🤖 Edge pools | |
| | Trusted application servers | |
| Ξ | Shared Components | |
| | SQL Server stores | |
| | File stores | |
| | PSTN gateways | |
| | Trunks | |
| | 🗊 🧰 Office Web Apps Servers | |

| | a | |
|---|------------------------------------|---|
| - | c Server 2013 (Preview) | The properties for this item are not available for editing. |
| | FirstSite | |
| | Lync Server 2010 | |
| | Lync Server 2013 (Preview) | |
| | Standard Edition Front End Servers | |
| | Enterprise Edition Front End pools | |
| | Director pools | |
| | Mediation pools | |
| | Persistent Chat pools | |
| | 🛅 Edge pools | |
| | Trusted application servers | |
| 8 | Shared Components | |
| | SQL Server stores | |
| | File stores | |
| | PSTN gateways | |
| | Trunks | |
| | Office Web Apps Servers | |

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Configure Web Services

- Log on to the computer where Topology Builder is installed as a member of the Domain Admins group and the RTCUniversalServerAdmins group.
- Start Topology Builder: Click Start, click All Programs, click Microsoft Lync Server 2013, and then click Lync Server Topology Builder.
- In Topology Builder, in the console tree under Standard Edition Front End Servers, Enterprise Edition Front End pools, and Directory pools, select the pool name. Right-click the name, click Edit Properties, and then click Web Services.
- Add or edit the External Web Services FQDN, and then click OK.

Question No : 3 - (Topic 1)

You need to identify on which server you can install the Microsoft Office Web Apps server component.

Which server should you identify?

- A. Lync1.contoso.com
- B. Server1.contoso.com
- C. Exchange1.contoso.com
- D. SQL1.contoso.com

Answer: B

Explanation: It is unclear what roles are on Server1, but you cannot collocate the web apps server on any server that has been defined in the topology. I have illustrated below trying to add web apps server using the same FQDN as my Standard Edition Pool.

Server1 appears to be the only the correct answer, because in the case study Server1 is a member server with nothing installed on it. Answer is Server1

| Define New Office Web Apps Server | X |
|---|--|
| Office Web Apps Server FQDN: * | 6 |
| Office Web Apps Server discovery URL: Fully qualified domain name | e (FQDN) is already in use in this topology. |
| https:///hosting/discovery/ Office Web Apps Server is deployed in an external network (that is, perimeter/Internet) | |
| Help OK Cancel | |

Question No: 4 DRAG DROP - (Topic 1)

You are troubleshooting the issue reported by the Toronto users. You verify that the logging level of the centralized logging service is set to AlwaysOn.

You need to gather additional troubleshooting information immediately to resolve the issue.

Which five actions should you perform?

To answer, move the five appropriate actions from the list of actions to the answer area and arrange them in the correct order.

| Actions | Answer Area |
|--|-------------|
| Sign in to Lync 2013 from a client computer in the Toronto office. | |
| Run the clscontroller.exe -search command. | |
| Run the clscontroller.exe -start command. | |
| Run the clscontroller.exe -flush command. | |
| Run the clscontroller.exe -stop command. | |

Answer:

| Actions | Answer Area |
|--|--|
| Sign in to Lync 2013 from a client computer in the Toronto office. | Run the clscontroller.exe - start command. |
| Run the clscontroller.exe -search command. | Sign in to Lync 2013 from a client computer in the Toronto office. |
| Run the clscontroller.exe - start command. | Run the clscontroller.exe - stop command. |
| Run the clscontroller.exe – flush command. | Run the clscontroller.exe - flush command. |
| Run the clscontroller.exe - stop command. | Run the clscontroller.exe - search command. |

Explanation:

Box 1:

Run the clscontroller.exe -start command.

Box 2:

Sign in to Lync 2013 from a client computer in the Toronto office.

Box 3:

Run the clscontroller.exe -stop command.

Box 4:

Run the clscontroller.exe -flush command.

Box 5:

Run the clscontroller.exe -search command.

- Start
- Reproduce issue
- Stop
- Flush
- Search

http://masteringlync.com/2012/08/02/centralized-logging-in-lync-2013/ http://www.ucprimer.com/lync2013-logging-and-tracing.html

Question No : 5 DRAG DROP - (Topic 1)

You need to identify which configurations must be used to meet the web conferencing requirements.

Which configuration should you identify for each requirement?

To answer, drag the appropriate configuration to the correct requirement in the answer area. Each configuration 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.

| Configurations | Answer Area | |
|--|--|---------------|
| A client policy | Users from Litware must be able to download the content of web conferences. | Configuration |
| A conferencing policy A meeting configuration | Users must be able to share PowerPoint presentations during web conferences. | Configuration |
| | Users from Litware must be able to record web conferences. | Configuration |
| | A URL that points to a disclaimer must be provided. | Configuration |

Answer:

| Configurations | Answer Area |
|--|--|
| A client policy | Users from Litware must be able to A conferencing policy download the content of web conferences. |
| A conferencing policy A meeting configuration | Users must be able to share PowerPoint presentations during A conferencing policy web conferences. |
| | Users from Litware must be able to A conferencing policy record web conferences. |
| | A URL that points to a disclaimer A meeting configuration must be provided. |

Explanation:

- Box 1: A conferencing policy
- Box 2: A conferencing policy
- Box 3: A conferencing policy
- Box 4: A meeting Configuration

"Users from Litware must be able to download the content of the Web Conference"

Download the content of web conferences:

Share PowerPoint presentations (Conferencing Policy) http://blogs.technet.com/b/csps/archive/2011/08/11/confpoliciesenabledatacollaboration.as рх

Record Web Conferences (Conferencing Policy) -

http://blogs.technet.com/b/csps/archive/2011/08/11/confpoliciesallowconferencerecording.a spx

URL Disclaimer (Meeting Configuration) - http://technet.microsoft.com/enus/library/gg398638.aspx

| | Edit Conferencing Policy | |
|---|--|-----------------------------|
| | Commit X Cancel | Identity |
| | Name:" | · · · |
| | Global | Description |
| | Description: | |
| AllowAnonymousParticipantsInMeeting | Maximum meeting size: | |
| | 200 🗧 < | MaxMeetingSize |
| | Allow users to invite anonymous users ? | |
| EnableDialInConferencing | Recording: | EnableRecording |
| | TWO INC | |
| | Audio/video: Enable IP audio/video | owIPAudio and AllowIPVideo |
| AllowAnonymousUsersToDialOut | ► STN conference dial-in | |
| AllowAnonymousosers to Dialout | Allow anonymous users to dial out | |
| MaxVideoConferenceResolution | Maximum video resolution allowed for conferencing: 640*480(VGA) | EnableDataCollaboration |
| MaxVideoConterenceResolution | Data collaboration: | |
| | Enable data collaboration | |
| EnableFileTransfer | Allow external users to download content | vExternalUsersToSaveContent |
| | ✓ Allow users to transfer files | |
| EnableP2PFileTransfer | Illow users to transfer files using peer-to-peer Implement of the use of annotations | AllowAnnotations |
| | Allow users to schedule meetings with application sharing | |
| AllowUsersToScheduleMeetinsWithAppSharing | Enable application and desktop sharing for users | EnableAppDesktopSharing |
| | Allow users to take control | |
| AllowParticipantControl | Allow external users to control shared applications | AllowExternalUserControl |

Question No : 6 - (Topic 1)

You need to recommend a solution to resolve the audio issues for the users in the Boston office.

Which three possible recommendations should you include in the solution? (Each correct answer presents a complete solution. Choose three.)

- A. user services
- **B.** Quality of Service (QoS)
- C. Call Admission Control (CAC)
- **D.** a location policy
- E. a conferencing policy

Answer: B,C,E

Question No : 7 - (Topic 1)

You are evaluating the implementation the second Front End Server. You need to recommend which common name must be used for the certificate that will be installed on Lync2.

Which name should you recommend using?

- A. *.contoso.com
- B. lync2.contoso.com
- C. lyncdiscover.contoso.com
- D. pool1.contoso.com

Answer: D

Explanation: http://social.technet.microsoft.com/Forums/en-US/ocscertificates/thread/bc2b0383-17cd-4707-8c2f-19db8dd340f0/

The common name or SN of any Front End Server Certificate is the Pool Name.

Question No: 8 - (Topic 1)

Contoso is evaluating the implementation of push notifications for mobile devices.

You need to identify which tasks must be performed to enable the push notifications.

Which three cmdlets should you identify? (Each correct answer presents part of the solution. Choose three.)

- A. New-CsAllowedDomain
- B. Set-CsPublicProvider
- C. New-CsHostingProvider
- **D.** Set-CsPushNotificationConfiguration
- E. Enable-CsPublicProvider

Answer: A,C,D

Explanation: http://technet.microsoft.com/en-us/library/hh690047.aspx CONFIGURING FOR PUSH NOTIFICATIONS

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LYNC SERVER 2013

Push notifications, in the form of badges, icons, or alerts, can be sent to a mobile device even when the mobile application is inactive. Push notifications notify a user of events such as a new or missed IM invitation and voice mail. The Lync Server 2013 Mobility Service sends the notifications to the cloud-based Lync Server Push Notification Service, which then sends the notifications to the Apple Push Notification Service (APNS) (for an Apple device running the Lync 2010 Mobile client) or the Microsoft Push Notification Service (MPNS) (for a Windows Phone device running the Lync 2010 Mobile or the Lync 2013 Mobile client).

Important:

If you use Windows Phone with Lync 2010 Mobile or Lync 2013 Mobile client, push notification is an important consideration. If you use Lync 2010 Mobile on Apple devices, push notification is an important consideration. If you use Lync 2013 Mobile on Apple devices, you no longer need push notification.

Configure your topology to support push notifications by doing the following: If your environment has a Lync Server 2010 or Lync Server 2013 Edge Server, you need to add a new hosting provider, Microsoft Lync Online, and then set up hosting provider federation between your organization and Lync Online.

If your environment has a Office Communications Server 2007 R2 Edge Server, you need to set up direct SIP federation with push.lync.com.

Note:

Push.lync.com is a Microsoft Office 365 domain for Push Notification Service. To enable push notifications, you need to run the Set-CsPushNotificationConfiguration cmdlet. By default, push notifications are turned off.

Test the federation configuration and push notifications.

TO CONFIGURE FOR PUSH NOTIFICATIONS WITH LYNC SERVER 2013 OR LYNC SERVER 2010 EDGE SERVER

Log on to a computer where Lync Server Management Shell and Ocscore are installed as a member of the RtcUniversalServerAdmins group.

Start the Lync Server Management Shell: Click Start, click All Programs, click Microsoft Lync Server 2013, and then click Lync Server Management Shell.

Add a Lync Server online hosting provider. At the command line, type:

New-CsHostingProvider - Identity < unique identifier for Lync Online hosting provider> -

Enabled \$True -ProxyFqdn <FQDN for the Access Server used by the hosting provider> -VerificationLevel UseSourceVerification For example: New-CsHostingProvider -Identity "LyncOnline" -Enabled \$True -ProxyFqdn "sipfed.online.lync.com" -VerificationLevel UseSourceVerification

Note:

You cannot have more than one federation relationship with a single hosting provider. That is, if you have already set up a hosting provider that has a federation relationship with sipfed.online.lync.com, do not add another hosting provider for it, even if the identity of the hosting provider is something other than LyncOnline.

Set up hosting provider federation between your organization and the Push Notification Service at Lync Online. At the command line, type:

New-CsAllowedDomain -Identity "push.lync.com"

TO CONFIGURE FOR PUSH NOTIFICATIONS WITH OFFICE COMMUNICATIONS SERVER 2007 R2 EDGE SERVER

Log on to the Edge Server as a member of the RtcUniversalServerAdmins group. Click Start, click All Programs, click Administrative Tools, and then click Computer Management.

In the console tree, expand Services and Applications, right-click Microsoft Office Communications Server 2007 R2, and then click Properties.

On the Allow tab, click Add.

In the Add Federated Partner dialog box, do the following:

In Federated partner domain name, type push.lync.com.

In Federated partner Access Edge Server, type sipfed.online.lync.com. Click OK.

TO ENABLE PUSH NOTIFICATIONS

Log on to a computer where Lync Server Management Shell and Ocscore are installed as a member of the CsAdministrator role.

Start the Lync Server Management Shell: Click Start, click All Programs, click Microsoft Lync Server 2013, and then click Lync Server Management Shell.

Enable push notifications. At the command line, type:

Set-CsPushNotificationConfiguration -EnableApplePushNotificationService \$True -

EnableMicrosoftPushNotificationService \$True

Enable federation. At the command line, type:

Set-CsAccessEdgeConfiguration -AllowFederatedUsers \$True

TO TEST FEDERATION AND PUSH NOTIFICATIONS

Log on to a computer where Lync Server Management Shell and Ocscore are installed as a member of the CsAdministrator role.

Start the Lync Server Management Shell: Click Start, click All Programs, click Microsoft Lync Server 2013, and then click Lync Server Management Shell.

Test the federation configuration. At the command line, type:

Test-CsFederatedPartner -TargetFqdn <FQDN of Access Edge server used for federated SIP traffic> -Domain <FQDN of federated domain> -ProxyFqdn <FQDN of the Access Edge server used by the federated organization> For example:

Test-CsFederatedPartner -TargetFqdn accessproxy.contoso.com -Domain push.lync.com -ProxyFqdn sipfed.online.lync.com

Test push notifications. At the command line, type:

Test-CsMcxPushNotification -AccessEdgeFqdn <AccessEdge service FQDN> For example:

Test-CsMcxPushNotification -AccessEdgeFqdn accessproxy.contoso.com

Question No : 9 - (Topic 1)

You are evaluating the implementation of a reverse proxy for Contoso.

You plan to create a certificate for the reverse proxy.

You need to identify which names must be included in the certificate.

Which three names should you identify? (Each correct answer presents part of the solution. Choose three.)

- A. lyncdiscover.contoso.com
- **B.** lyncdiscoverinternal.contoso.com
- C. meet.contoso.com
- D. pool1.contoso.com
- E. edge.contoso.com
- F. webext.contoso.com

Answer: A,C,F

Explanation:

http://technet.microsoft.com/en-us/library/jj205381.aspx webext is the Subject Name and the Alternative Name with meet and lyncdiscover also listed as Alternative Names

Question No: 10 - (Topic 1)

Which two tasks should be performed to meet the administrative requirements for Tech1? (Each correct answer presents part of the solution. Choose two.)

- **A.** Modify the permissions of the RTCUniversalServerAdmins group.
- B. Run the New-CsAdminRole cmdlet.
- **C.** Run the Update-CsAdminRole cmdlet.
- **D.** Create a new universal security group and add Tech1 to the group.
- E. Create a new global security group and add Tech1 to the group.

Answer: B,D

Explanation:

"To create a new role, you must first create a universal security group in Active Directory Domain Services that shares a name with the role;"

http://technet.microsoft.com/en-us/library/gg398271.aspx

Topic 2, Margie's Travel

Overview

General Overview

Margie's Travel is an executive travel company that has 7,000 employees. The company has a sales department and a research department.

Physical Locations

The company has a main office and two branch offices. The main office is located in Montreal. The branch offices are located in New York and Seattle.

The number of users in each office is shown in the following table.

| Office location | Number of users |
|-----------------|-----------------|
| Montreal | 5,500 |
| New York | 800 |
| Seattle | 700 |

All offices connect to each other by using a WAN link.

Existing Environment

Active Directory Environment

The network contains one Active Directory forest named margiestravel.com. Each office is configured as an Active Directory site.

Lync Server Environment

The company has a Lync Server 2010 infrastructure in the Montreal office. The network contains four servers. The servers are configured as shown in the following table.

| Server name | Role | Software |
|----------------|--|---|
| Lync1 | Front End Server in a pool named Pool1 | Lync Server 2010 |
| Edge1 | Edge Server | Lync Server 2010 |
| SQL1 | Back End Server (cluster node in a cluster named Cluster1) | Microsoft SQL Server 2008 Service Pack 2 (SP2) |
| SQL2 | Back End Server (cluster node in a cluster named Cluster2) | Microsoft SQL Server 2008 Service Pack 2 (SP2) |

Lync Server 2013 Standard Edition is deployed in the Montreal office as a pilot on a separate network segment. You create several test users on the Lync Server 2013 pilot.

User Issue

An administrator modifies the global client version policy of the Lync Server 2013 pilot deployment. After the modification, Lync Server 2013 users report that they fail to sign in to Microsoft Lync 2010 and they receive the following error message.



Requirements Planned Changes

After a successful pilot program, the company plans to deploy Lync Server 2013 on the production network for all users.

The Lync Server 2013 deployment will include the following roles:

Edge Server

- // Front End Server
- Mediation Server
- Monitoring Server
- Z Office Web Apps Server

Lync Server 2013 and Lync Server 2010 will coexist for six months.

Monitoring Requirements

A monitoring solution must save call quality data for 180 days.

Backup Requirements

An administrator plans to perform a weekly manual backup of the Lync Server databases. The backup files will be copied to an offsite location.

Conferencing Requirements

The company plans to implement a conferencing solution to meet the following requirements:

- The company's executives must be able to create conferences that contain up to 250 participants.
- The company's managers must be able to create conferences that contain up to 50 participants.
- All other users must be prevented from creating conferences that contain more than 15 users.

Question No : 11 - (Topic 2)

The company is planning to implement help and support resources for users that use the Lync Server 2013 conferencing features.

You need to ensure that the users can access the help and support resources by clicking a URL from a meeting invitation.

What should you do?

A. Run the Set-CsConferenceDisclaimer cmdlet.

B. From the Microsoft Lync Server 2013 Control Panel, modify the conferencing policy settings.

C. Run the Set-CsMeetingRoom cmdlet.

D. From the Microsoft Lync Server 2013 Control Panel, modify the meeting configuration settings.

Answer: D

Question No : 12 - (Topic 2)

You need to configure the conferencing settings to support the conferencing requirements and the business requirements.

What should you do?

A. Modify the global conferencing policy. Create a site-level conferencing policy for the managers and a site-level conferencing policy for the executives.

B. Create a per-user conferencing policy for all users, a per-user conferencing policy for the managers, and a per-user conferencing policy for the executives.

C. Modify the global conferencing policy. Create a per-user conferencing policy for the managers and a per-user conferencing policy for the executives.

D. Create a site-level conferencing policy for all users, a site-level conferencing policy for the managers, and a per-user conferencing policy for the executives.

Answer: C

Question No : 13 - (Topic 2)

You are evaluating the implementation of SQL Server database mirroring on new SQL

Server servers for the planned Lync Server 2013 deployment.

You need to recommend which tasks must be performed to prepare SQL Server database mirroring for Lync Server 2013.

Which two actions should you recommend? (Each correct answer presents part of the solution. Choose two.)

A. From the Topology Builder, create a new Enterprise Edition Front End pool and a new SQL Server database, SQL Server database mirroring, and a witness.

B. From the Topology Builder, publish the topology and install the databases.

C. On the SQL Server servers, install Failover Clustering.

D. On the Front End Servers, install Failover Clustering.

E. Run the Update-CsUserDatabase cmdlet.

F. Run the Invoke-CsDatabaseFailover cmdlet.

Answer: A,B

Explanation: http://technet.microsoft.com/en-us/library/jj204992.aspx

DEPLOYING SQL MIRRORING FOR BACK END SERVER HIGH AVAILABILITY

To be able to deploy SQL mirroring, your servers must run a minimum of SQL Server 2008 R2. This version must run on all the involved servers: the primary, mirror, and the witness. For details, see http://go.microsoft.com/fwlink/p/?linkid=3052&kbid=2083921.

In general, setting up SQL mirroring between the two Back End Servers with a witness requires the following:

The primary server's version of SQL Server must support SQL mirroring.

The primary, mirror, and the witness (if deployed) must have the same version of SQL Server.

The primary and the mirror must have the same edition of SQL Server. The witness may have a different edition.

For SQL best practices in terms of what SQL versions are supported for a Witness role, see "Database Mirroring Witness" in the MSDN Library at

http://go.microsoft.com/fwlink/p/?LinkId=247345.

You use Topology Builder to deploy SQL mirroring. You select an option in Topology Builder to mirror the databases, and Topology Builder sets up the mirroring (including setting up a witness, if you want) when you publish the topology. Note that you set up or remove the witness at the same time you set up or remove the mirror. There is no separate command to deploy or remove only a witness.

To configure server mirroring, you must first set up SQL database permissions correctly. For details, see "Set Up Login Accounts for Database Mirroring or AlwaysOn Availability Groups (SQL Server)" at http://go.microsoft.com/fwlink/p/?LinkId=268454.

With SQL mirroring, database recovery mode is always set to Full, which means you must

closely monitor transaction log size and back up transaction logs on a regular basis to avoid running out of disk space on the Back End Servers. The frequency of transaction log backups depends on the log growth rate, which in turn depends on database transactions incurred by user activities on the Front End pool. We recommend that you determine how much transaction log growth is expected for your Lync deployment workload so that you can do the planning accordingly. The following articles provide additional information on SQL backup and log management: Database recovery models: "Recovery Models (SQL Server)" at http://go.microsoft.com/fwlink/p/?LinkId=268446 Backup overview: "Backup Overview (SQL Server)" at http://go.microsoft.com/fwlink/p/?LinkId=268449 Backup transaction log: "Backup a Transaction Log (SQL Server)" at http://go.microsoft.com/fwlink/p/?LinkId=268452

With SQL mirroring, you can either configure the topology for mirroring when you create the pools, or after the pools are already created.

IMPORTANT:

Using Topology Builder or cmdlets to set up and remove SQL mirroring is supported only when the primary, mirror, and witness (if desired) servers all belong to the same domain. If you want to set up SQL mirroring among servers in different domains, see your SQL Server documentation.

TO CONFIGURE SQL MIRRORING WHILE CREATING A POOL IN TOPOLOGY BUILDER

On the **Define the SQL Store** page, click **New** next to the **SQL store** box.

On the **Define new SQL Store** page, specify the primary store, select **This SQL instance is in mirroring relation**, specify the SQL mirroring port number (the default is 5022), and then click **OK**.

Back on the Define the SQL store page, select Enable SQL Store mirroring.

In the **Define new SQL Store** page, specify the SQL store to be used as the mirror. Select **This SQL instance is in mirroring relation**, specify the port number (the default is 5022), and then click **OK**.

If you want a witness for this mirror, do the following:

Select Use SQL mirroring witness to enable automatic failover.

In the Define the SQL Store page, select Use SQL mirroring witness to enable

automatic failover, and specify the SQL store to be used as the witness.

Specify the port number (the default is 7022) and click OK.

After you are done defining your Front End pool and all other roles in your topology, use Topology Builder to publish the topology. When the topology is published, if the Front End pool that hosts Central Management store has SQL mirroring enabled, you will see an option to create both primary and mirror SQL store databases.Click **Settings**, and type the path to use as the file share for the mirroring backup.Click **OK** and then **Next** to create the databases and publish the topology. The mirroring and the witness (if specified) will be deployed.

You can use Topology Builder to edit the properties of an already existing pool to enable SQL mirroring.

TO ADD SQL MIRRORING TO AN EXISTING FRONT END POOL IN TOPOLOGY BUILDER

In Topology Builder, right-click the pool and then click Edit Properties.

Select **Enable SQL Store Mirroring**, and then click **New** next to **Mirroring SQL Store**. Specify the SQL store that you want to use as the mirror.

Select **This SQL instance is in mirroring relation**, specify the SQL mirroring port number the default port is 5022), and then click **OK**.

If you want to configure a witness, select **Use SQL mirroring witness to enable automatic failover**, and click **New**.

Specify the SQL store that you want to use as the witness.

Select **This SQL instance is in mirroring relation**, specify the SQL mirroring port number (the default port is 7022), and then click **OK**.

Click OK.

Publish the topology. When you do so, you will be prompted to install the database.

You must then install the database before going on to the next procedure.

You should keep the following in mind when setting up SQL mirroring:

If a mirroring endpoint already exists, it will be reused using the ports defined there, and will ignore the ones you specify in the topology.

Any port already allocated for other applications on the same server, including those for other SQL instances, should not be used for the installed SQL instances at hand. This implies that if you have more than one SQL instance installed on the same server, they must not use the same port for mirroring. For details, see the following articles:

"Specify a Server Network Address (Database Mirroring)" in the MSDN Library at

http://go.microsoft.com/fwlink/p/?LinkId=247346

"The Database Mirroring Endpoint (SQL Server)" at

http://go.microsoft.com/fwlink/p/?LinkId=247347

USING LYNC SERVER MANAGEMENT SHELL CMDLETS TO SET UP SQL MIRRORING

The easiest way to set up mirroring is by using Topology Builder, but you can also do so

using cmdlets.

Open a Lync Server Management Shell window and run the following cmdlet: Install-CsMirrorDatabase [-ConfiguredDatabases] [-ForInstance] [-ForDefaultInstance] [-DatabaseType <Application | Archiving | CentralMgmt | Monitoring | User | BIStaging | PersistentChat | PersistentChatCompliance >] -FileShare <fileshare> -SqlServerFqdn <primarySqlserverFqdn> [-SqlInstanceName] [-DatabasePathMap] [-ExcludeDatabaseList] [-DropExistingDatabasesOnMirror] -Verbose

For example:

Install-CsMirrorDatabase -ConfiguredDatabases -FileShare \\PRIMARYBE\csdatabackup - SqlServerFqdn primaryBE.contoso.com -DropExistingDatabasesOnMirror -Verbose

You will see the following:

Database Name:rtcxds

- Data File:D:\CsData\BackendStore\rtc\DbPath\rtcxds.mdf
- Log File:D:\CsData\BackendStore\rtc\LogPath\rtcxds.ldf
- Primary SQL: e04-ocs.los_a.lsipt.local\rtc

Account: LOS_A\e04-ocs\$

Mirror SQL: K16-ocs.los_a.lsipt.local\rtc

Account: LOS_A\K16-ocs\$

Witness SQL : AB14-lct.los_a.lsipt.local\rtc

Account: LOS_A\AB14-lct\$

Database Name:rtcshared

Data File:D:\CsData\BackendStore\rtc\DbPath\rtcshared.mdf

Log File:D:\CsData\BackendStore\rtc\LogPath\rtcshared.ldf

Primary SQL: e04-ocs.los_a.lsipt.local\rtc

Account: LOS_A\e04-ocs\$

Mirror SQL: K16-ocs.los_a.lsipt.local\rtc

Account: LOS_A\K16-ocs\$

Witness SQL : AB14-Ict.los_a.lsipt.local\rtc

Account: LOS_A\AB14-lct\$

Database Name:rtcab

Data File:D:\CsData\ABSStore\rtc\DbPath\rtcab.mdf

Log File:D:\CsData\ABSStore\rtc\LogPath\rtcab.ldf

Primary SQL: e04-ocs.los_a.lsipt.local\rtc

Account: LOS_A\e04-ocs\$

Mirror SQL: K16-ocs.los_a.lsipt.local\rtc

Account: LOS_A\K16-ocs\$

Witness SQL : AB14-Ict.los_a.lsipt.local\rtc

Account: LOS_A\AB14-lct\$

Database Name:rgsconfig

Data File:D:\CsData\ApplicationStore\rtc\DbPath\rgsconfig.mdf

Log File:D:\CsData\ApplicationStore\rtc\LogPath\rgsconfig.ldf

Primary SQL: e04-ocs.los_a.lsipt.local\rtc

Account: LOS_A\e04-ocs\$

Mirror SQL: K16-ocs.los_a.lsipt.local\rtc

Account: LOS_A\K16-ocs\$

Witness SQL : AB14-lct.los_a.lsipt.local\rtc

Account: LOS_A\AB14-lct\$

Database Name:rgsdyn

Data File:D:\CsData\ApplicationStore\rtc\DbPath\rgsdyn.mdf

Log File:D:\CsData\ApplicationStore\rtc\LogPath\rgsdyn.ldf

Primary SQL: e04-ocs.los_a.lsipt.local\rtc

Account: LOS_A\e04-ocs\$

Mirror SQL: K16-ocs.los_a.lsipt.local\rtc

Account: LOS_A\K16-ocs\$

Witness SQL : AB14-lct.los_a.lsipt.local\rtc

Account: LOS_A\AB14-lct\$

Database Name:cpsdyn

Data File:D:\CsData\ApplicationStore\rtc\DbPath\cpsdyn.mdf

Log File:D:\CsData\ApplicationStore\rtc\LogPath\cpsdyn.ldf

Primary SQL: e04-ocs.los_a.lsipt.local\rtc

Account: LOS_A\e04-ocs\$

Mirror SQL: K16-ocs.los_a.lsipt.local\rtc

Account: LOS_A\K16-ocs\$

Witness SQL : AB14-lct.los_a.lsipt.local\rtc

Account: LOS_A\AB14-lct\$

Database Name:xds

Data File:D:\CsData\CentralMgmtStore\rtc\DbPath\xds.mdf

Log File:D:\CsData\CentralMgmtStore\rtc\LogPath\xds.ldf

Primary SQL: e04-ocs.los_a.lsipt.local\rtc

Account: LOS_A\e04-ocs\$

Mirror SQL: K16-ocs.los_a.lsipt.local\rtc

Account: LOS_A\K16-ocs\$

Witness SQL : AB14-lct.los_a.lsipt.local\rtc

Account: LOS_A\AB14-lct\$

Database Name:lis

Data File:D:\CsData\CentralMgmtStore\rtc\DbPath\lis.mdf

Log File:D:\CsData\CentralMgmtStore\rtc\LogPath\lis.ldf

Primary SQL: e04-ocs.los_a.lsipt.local\rtc

Account: LOS_A\e04-ocs\$

Mirror SQL: K16-ocs.los_a.lsipt.local\rtc Account: LOS_A\K16-ocs\$ Witness SQL : AB14-lct.los_a.lsipt.local\rtc Account: LOS_A\AB14-lct\$

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"):

Verify the following:

Port 5022 is accessible through the firewall if Windows Firewall is enabled in the primary SQL Server e04-ocs.los_a.lsipt.local\rtc.

Port 5022 is accessible through the firewall if Windows Firewall is enabled in the mirror SQL Server K16-ocs.los_a.lsipt.local\rtc.

Port 7022 is accessible through the firewall if Windows Firewall is enabled in the witness SQL Server AB14-lct.los_a.lsipt.local\rtc.

Accounts running the SQL Servers on all primary and mirror SQL servers have read/write permission to the file share \\E04-OCS\csdatabackup

Verify that the Windows Management Instrumentation (WMI) provider is running on all these servers. The cmdlet uses this provider to find the account information for SQL Server services running on all primary, mirror and witness servers.

Verify that the account running this cmdlet has permission to create the folders for the data and log files for all the mirror servers.

Note that the user account that the SQL instance uses to run must have read/write permission to the file share. If the file share is on a different server, and the SQL instance runs a local system account, you must grant file share permissions to the server that hosts the SQL instance.

Type A and press ENTER. The mirroring will be configured.

Install-CsMirrorDatabase installs the mirror and configures mirroring for all the databases that are present on the primary SQL store. If you want to configure mirroring for only specific databases, you can use the –DatabaseType option, or if you want to configure mirroring for all databases except for a few, you can use the -ExcludeDatabaseList option, along with a comma-separated list of database names to exclude.

For example, if you add the following option to **Install-CsMirrorDatabase**, all databases except rtcab and rtcxds will be mirrored.

-ExcludeDatabaseList rtcab,rtcxds

For example, if you add the following option to **Install-CsMirrorDatabase**, only the rtcab, rtcshared, and rtcxds databases will be mirrored.

-DatabaseType User

REMOVING OR CHANGING SQL MIRRORING

To remove the SQL mirroring of a pool in Topology Builder, you must first use a cmdlet to remove the mirror in SQL Server. You can then use Topology Builder to remove the mirror from the topology. To remove the mirror in SQL Server, use the following cmdlet: Uninstall-CsMirrorDatabase -SqlServerFqdn <SQLServer FQDN> [-SqlInstanceName <SQLServer instance name>] -DatabaseType <Application | Archiving | CentralMgmt | Monitoring | User | BIStaging | PersistentChat | PersistentChatCompliance> [-DropExistingDatabasesOnMirror] [-Verbose]

For example, to remove mirroring and drop the databases for the User databases, type the following:

Uninstall-CsMirrorDatabase -SqlServerFqdn primaryBE.contoso.com -SqlInstanceName rtc -Verbose -DatabaseType User -DropExistingDatabasesOnMirror

The -DropExistingDatabasesOnMirror option causes the affected databases to be deleted from the mirror.

Then, to remove the mirror from the topology, do the following:

In Topology Builder, right-click the pool and click Edit Properties.

Uncheck Enable SQL Store Mirroring and click OK.

Publish the topology.

IMPORTANT:

Whenever you make a change to a Back End Database mirroring relationship, you must restart all the Front End Servers in the pool. For a change in mirroring, (such as changing the location of a mirror), you must use Topology Builder to perform these three steps: Remove mirroring from the old mirror server.

Add mirroring to the new mirror server.

Publish the topology.

REMOVING A MIRRORING WITNESS

Use this procedure if you need to remove the witness from a Back End Server mirroring configuration.

In Topology Builder, right-click the pool and click Edit Properties.

Uncheck Use SQL Server mirroring witness to enable automatic failover and click OK.

Publish the topology. After publishing the topology, Topology Builder you will see a message that includes the following

Run the Uninstall-CsMirrorDatabase cmdlet to remove databases that are paired with following primary databases.

However, do not follow that step, and do not type Uninstall-CsMirrorDatabase as that would

uninstall the entire mirroring configuration.

To remove just the witness from the SQL Server configuration, follow the instructions in "Remove the Witness from a Database Mirroring Session (SQL Server)" at http://go.microsoft.com/fwlink/p/?LinkId=268456.

Question No : 14 HOTSPOT - (Topic 2)

You need to resolve the user issue.

Which rule should you modify in the client version policy?

To answer, select the appropriate rule in the answer area.

| Commit X Cancel | | | | 0 |
|--------------------------|------------------|-----------------------|--------|-----------------|
| Scope: Global Name: * | | | | |
| Global | | | | |
| Description: | | | | |
| | | | | |
| New / Show details | Remove 🏠 🤴 | | | |
| User agent | Version | Operation | Action | - United in the |
| RTC | 13.** | Older than or same as | Block | ń |
| WM | 5.*.** | Older than or same as | Block | |
| oc | 3.5.6907.233 | Older than | Block | |
| oc | 3.9999.9999.9999 | Older than or same as | Allow | |
| oc | 4.0.7577.314 | Older than | Block | |
| oc | 4.9999.9999.9999 | Older than or same as | Allow | |
| oc | 15.0.3612.1010 | Newer than | Block | |
| UCCP | 2.0.5999.* | Older than or same as | Block | - |

Answer:

| Commit X Cancel | | | |
|--------------------------|------------------|-----------------------|--------|
| Scope: Global Name: * | | | |
| Global | | | |
| Description: | | | |
| | | | |
| New / Show details. | Remove 🏫 🦺 | | |
| User agent | Version | Operation | Action |
| RTC | 1.3.*.* | Older than or same as | Block |
| WM | 5.*.*.* | Older than or same as | Block |
| oc | 3.5.6907.233 | Older than | Block |
| oc | 3.9999.9999.9999 | Older than or same as | Allow |
| oc | 4.0.7577.314 | Older than | Block |
| C | 4.9999.9999.9999 | Older than or same as | Allow |
| oc | 15.0.3612.1010 | Newer than | Block |
| | 2.0.5999.* | Older than or same as | Block |

Explanation:

| Commit X Cancel | | | | |
|--------------------------|--|-----------------------|---------------------------|--------------------|
| Scope: Global Name: * | | | | |
| Global | | | | |
| Description: | | | | |
| | | | | |
| New / Show details | Remove 🏠 🐥 | | | |
| User agent | Version | Operation | Action | No. of Contraction |
| RTC | 13.** | Older than or same as | Block | - |
| WM | 5.*** | Older than or same as | Block | |
| oc | 3.5.6907.233 | Older than | Block | |
| oc | 3.9999.9999.9999 | Older than or same as | Allow | |
| | 4.0.7577.314 | Older than | Block | |
| oc | and the second | Older than or same as | Allow | |
| oc oc | 4.9999.9999.9999 | | Children and Children and | |
| | 4.9999.9999.9999 | Newer than | Block | |

Note: Lync has a Client Version Policy that allows you to allow or reject registrations from certain client versions.

Here the Lync server 2013 clients are blocked because they have too new version number.

Question No: 15 - (Topic 2)

You need to recommend changes to the existing SQL Server environment to support Lync Server 2013 during the coexistence period.

What should you recommend?

A. Upgrade to SQL Server 2008 R2 on the existing servers that have SQL Server deployed.

B. Upgrade to SQL Server 2012 on the existing servers that have SQL Server deployed.

C. Create a new SQL Server instance on the existing servers that have SQL Server deployed.

D. Implement a new server that has SQL Server 2012 deployed.

Answer: D

Explanation: http://technet.microsoft.com/en-us/library/gg425764.aspx

| 013 database instan erver 2010 or Office or a deployment tha | te and distinct computers running Microsoft SQL Server 2008 R2 or Microsoft SQL Server 2012 for your Lync Server ces. You cannot use the same instance of SQL Server for a Lync Server 2013 Front End pool that you use for a Lync Communications Server 2007 R2 Front End pool. If you define and configure Lync Server 2013 in Topology Builder It already has Lync Server 2010 or Office Communications Server 2007 R2 deployed, Topology Builder will not allow ance of a Lync Server 2013 that is already in use in the topology. |
|--|--|
| opology Builder wil QL instance hosting | I display the following message to inform you of this issue: "The SQL server [FQDN of the server] already contains a role 'User Store'." |
| Coexistenc | e Scenarios |
| deployment. Conc | an coexist with components of either a Lync Server 2010 deployment or an Office Communications Server 2007 R2 urrent deployment of Lync Server 2013 with both Lync Server 2010 and Office Communications Server 2007 R2 yment of all three versions) is not supported. |
| | nigration in which a previous Lync Server 2010 or Office Communications Server 2007 R2 deployment coexists ne new Lync Server 2013 deployment, support for mixed version routing is limited. For details, see the Migration |
| 2013 database inst Server 2010 or Offic for a deployment t | rate and distinct computers running Microsoft SQL Server 2008 R2 or Microsoft SQL Server 2012 for your Lync Server ances. You cannot use the same instance of SQL Server for a Lync Server 2013 Front End pool that you use for a Lync ce Communications Server 2007 R2 Front End pool. If you define and configure Lync Server 2013 in Topology Builder that already has Lync Server 2010 or Office Communications Server 2007 R2 deployed, Topology Builder will not allow istance of a Lync Server 2013 that is already in use in the topology. |
| | vill display the following message to inform you of this issue: "The SQL server [FQDN of the server] already contains ng role 'User Store'." |
| Note: | |
| deployment as de as described in th | leploy server roles that are new to your Lync Server 2013 deployment, you should first upgrade your existing escribed in the Migration documentation and the Deployment documentation, and then deploy the new server roles e Planning documentation and Deployment documentation. If you are migrating a previous version of Group Chat, ter completing the process for migrating all other components from Lync Server 2010 or Office Communications |
| Server 2007 R2 and Communications | tence requirements and other details about coexistence and migration of Lync Server 2010 or Office Communication Lync Server 2013 components, see Migration from Lync Server 2010 to Lync Server 2013 and Migration from Office Server 2007 R2 to Lync Server 2013 in the Migration documentation. For details about mixed version support for ted Clients from Previous Deployments. |

Untitled

Question No : 16 - (Topic 2)

Which cmdlet should you run to move the users to the planned Lync Server 2013 infrastructure?

A. Move-CsManagementServerB. Move-CsLegacyUserC. Move-ADObjectD. Move CsUser

Answer: D

Explanation: http://technet.microsoft.com/en-us/library/gg398528.aspx

Move-CsLegacyUser is to move users from Office Communication Server 2007 to Lync Server only, otherwise use Move-CsUser

Question No: 17 - (Topic 2)

You are evaluating the implementation of the planned monitoring solution.

You need to recommend which tasks must be performed to meet the monitoring requirements.

Which cmdlet should you include in the recommendation?

- A. Set-CsArchivingConfiguration
- B. Set-CsQoEConfiguration
- C. Set-CsCDRConfiguration
- D. Set-CsHealthMonitoringConfiguration

Answer: B

Explanation: "A monitoring solution must save call quality data for 180 days". The default

is 60 days. The Set-CsQoEConfiguration cmdlet with the –KeepQoEDataForDays option can be used to change the value to 180 days.

Question No: 18 - (Topic 2)

You need to recommend which task must be performed to meet the backup requirements.

Which cmdlet should you recommend using?

- A. Export-CsConfiguration
- B. Backup-CsPool
- C. Restore-CsDatabase
- D. Export-CsUserData

Answer: A

Explanation: Export-CsConfiguration, Exports your Lync Server topology, policies, and configuration settings to a file. Among other things, this file can then be used to restore this information to the Central Management store after an upgrade, a hardware failure, or some other issue has resulted in data loss.

http://technet.microsoft.com/en-us/library/hh202170.aspx

Question No : 19 HOTSPOT - (Topic 2)

You are evaluating how many servers are required for the planned Lync Server 2013 deployment.

You need to identify which components can be collocated on the Front End Servers and which components must be installed on a new server.

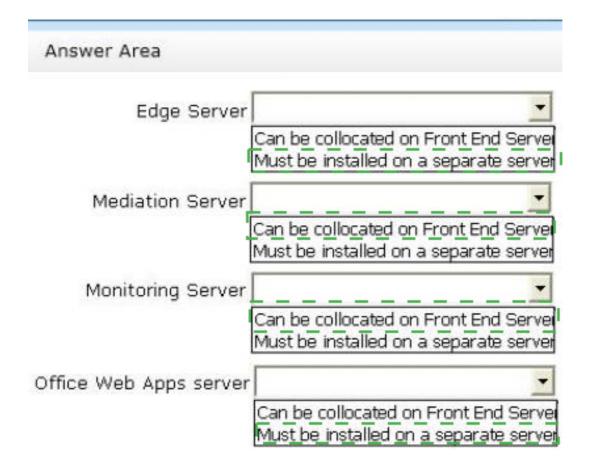
Which components should you identify for which servers?

To answer, configure the appropriate components in the answer area.

| Answer Area | |
|------------------------|----------|
| Answel Area | |
| Edge Server | • |
| Mediation Server | |
| Monitoring Server | <u>•</u> |
| Office Web Apps server | • |

| Answer Area | |
|------------------------|---|
| Edge Server | - |
| | Can be collocated on Front End Server Must be installed on a separate server |
| Mediation Server | _ |
| | Can be collocated on Front End Server Must be installed on a separate server |
| Monitoring Server | _ |
| | Can be collocated on Front End Server Must be installed on a separate server |
| Office Web Apps server | • |
| | Can be collocated on Front End Server Must be installed on a separate server |

Answer:



Question No : 20 DRAG DROP - (Topic 2)

You need to design the deployment of the planned Edge Server.

Which four actions should you include in the design?

To answer, move the four appropriate actions from the list of actions the correct order.

| 1 | |
|--|-------------|
| Actions | Answer Area |
| From the Topology Builder, save a copy of the topology. | |
| On the new Edge Server, run the Lync Server Deployment Wizard and select the .tbxml file as the source file. | |
| Run the Export-CsConfiguration cmdlet. | |
| From the Topology Builder, configure the new Edge pool. | |
| On the new Edge Server run the Lync Server Deployment Wizard and select the .zip file as the source file. | |
| From the Topology Builder, publish the topology. | |

Answer:

| | 11111 |
|--|---|
| Actions | Answer Area |
| From the Topology Builder, save a copy of the topology. | From the Topology Builder, configure the new Edge pool. |
| On the new Edge Server, run the Lync Server Deployment Wizard and select the .tbxml file as the source file. | From the Topology Builder, publish the topology. |
| Run the Export-CsConfiguration cmdlet. | Run the Export-CsConfiguration |
| From the Topology Builder, configure the new Edge pool. | cmdlet. |
| On the new Edge Server run the Lync Server Deployment Wizard and select the .zip file as the source file. | On the new Edge Server run the Lync Server Deployment Wizard and select the .zip file as the source file. |
| From the Topology Builder, publish the topology. | · |

Explanation:

Box 1:

From the Topology Builder, configure the new Edge pool.

Box 2:

From the Topology Builder, publish the topology.

Box 3:

Run the Export-CsConfiguration cmdlet.

Box 4:

On the new Edge Server run the Lync Server Deployment Wizard and select the .zip file as the source file.

Note:

You install Lync Server 2013 on Edge Servers by using Lync Server Deployment Wizard. By running the Deployment Wizard on each Edge Server, you can complete most of the tasks required to set up the Edge Server. In order to deploy Lync Server 2013 on an Edge Server, you must have already run Topology Builder (see note 2 below) to define and publish your Edge Server topology, and exported it to media that is available from the Edge Server.

To install an Edge Server

- Log on to the computer on which you want to install your Edge Server as a member of the local Administrators group or an account with equivalent user rights and permissions.
- Ensure that the topology configuration file you created using Topology Builder, and then exported and copied to external media, is available on the Edge Server (for example, access to the USB drive onto which you copied the topology configuration file, or verify access to the network share where you copied the file).
- Start the Deployment Wizard.

In the Deployment Wizard, click Install or Update Lync Server System.

After the wizard determines the deployment state, for Step 1. Install Local Configuration Store, click Run and then do the following:

* In the **Configure Local Replica of Central Management Store** dialog box, click **Import from a file (Recommended for Edge Servers)**, go to the location of the exported topology configuration file, select the .zip file, click **Open**, and then click **Next**.

* The Deployment Wizard reads the configuration information from the configuration file and writes the XML configuration file to the local computer.

* After the **Executing Commands** process is finished, click **Finish**. Etc.

Note 2: To define the topology for a single Edge Server

- Start Topology Builder: Click Start, click All Programs, click Microsoft Lync Server 2013, and then click Lync Server Topology Builder.
- In the console tree, expand the site in which you want to deploy an Edge Server.
- TRight-click Edge pools, and then click New Edge Pool.
- / In Define the New Edge Pool, click Next.
- In Define the Edge pool FQDN,

Note 3: Export-CsConfiguration

Exports your Lync Server topology, policies, and configuration settings to a file. Among other things, this file can then be used to restore this information to the Central Management store after an upgrade, a hardware failure, or some other issue has resulted in data loss. This cmdlet was introduced in Lync Server 2010.

Topic 3, Litware, Inc Case A

Overview

General Overview

Litware, Inc., is an international manufacturing company that has 4,000 employees. The company has a sales department, a marketing department, a research department, and a human resources department.

Litware has a partner company named Fabrikam, Inc. Fabrikam has an office in Paris. Fabrikam uses a XMPP-based instant messaging (IM) solution.

Physical Locations

Litware has seven offices located throughout North America and Europe. Litware has two data centers. The data centers are located in New York and London. All communications for the North American offices are routed through the New York data center.

All communications for the European offices are routed through the London data center. The number of users in each office is shown in the following table.

| Office location | Number of users | |
|-----------------|-----------------|--|
| New York | 1,500 | |
| Miami | 50 | |
| Los Angeles | 60 | |
| London | 1,500 | |
| Frankfurt | 50 | |
| Barcelona | 75 | |
| Amsterdam | 80 | |

Existing Environment Active Directory Environment

Litware has an Active Directory forest named litwareinc.com. The forest contains a single domain. All domain controllers run Windows Server 2008 R2.

Each office contains five domain controllers. Each office is configured as an Active Directory site.

Lync Server Environment

Litware has a Lync Server 2010 infrastructure that contains two servers in the New York office. The servers are configured as shown in the following table.

| Server name | Role |
|-------------|-----------------------------------|
| Lync1 | Standard Edition Front End Server |
| Lync2 | Edge Server |

The SIP domain is litwareinc.com.

Litware has a Microsoft Exchange Server 2013 organization.

Problem Statements

Users in the London office report poor video quality during conferences.

Requirements

Business Goals

Litware wants to minimize the costs associated with purchasing hardware and software.

Planned Changes

Litware plans to migrate the Lync Server 2010 infrastructure to Lync Server 2013. The

migration will have a coexistence period of six months.

Litware plans to implement the following components as part of the planned migration:

- Persistent Group Chat
- The unified contact store
- A central site in each data center
- A branch site in each branch office
- A Front End pool in each central site
- J Microsoft Lync Phone Edition devices
- Pool pairing

Litware plans to create a federation relationship with Fabrikam.

Technical Requirements

Litware identifies the following technical requirements for the planned migration:

- Users must be able to connect to the Lync Server infrastructure if a single central site fails.
- Members of a group named Temp_Contractors must be prevented from using Microsoft Lync 2013 when they connect remotely.
- Only users in the human resources department must be able to access and discover a persistent chat room named HRConfidential.

Security Requirements

Litware plans to deploy remote access. Some users work remotely from their customers' offices, which have firewall restrictions. All of the remote users must be able to connect to the Lync Server infrastructure by using TCP port 443.

Question No : 21 DRAG DROP - (Topic 3)

You need to recommend which Lync Server 2013 components must be deployed to support the planned changes. The solution must meet the technical requirements.

Which components should you recommend?

To answer, drag the appropriate components to the correct site in the answer area. Each component 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.

| | 11111111111 | |
|-------------------------------------|-------------------|-----------|
| Components | Answer Area | |
| Director server | Each central site | Component |
| Director server | | |
| Edge Server | | Component |
| Enterprise Edition Front End Server | | Component |
| Mediation Server | | Component |
| Persistent Chat Server | Each branch site | Component |
| Standard Edition Front End Server | | |

Answer:

Survivable Branch Appliance

| Components | Answer Area | |
|-------------------------------------|-------------------|-------------------------------------|
| | Each central site | Enterprise Edition Front End Server |
| Director server | | Edge Server |
| Edge Server | | Mediation Server |
| Enterprise Edition Front End Server | | |
| Mediation Server | | Persistent Chat Server |
| Persistent Chat Server | Each branch site | Survivable Branch Appliance |
| Standard Edition Front End Server | | |
| Survivable Branch Appliance | | |

Explanation:

*Each central site

Edge Server

Enterprise Edition Front End Server

Mediation Server

Persistent Chat Server

*Each branch site

Survivable Branch Appliance

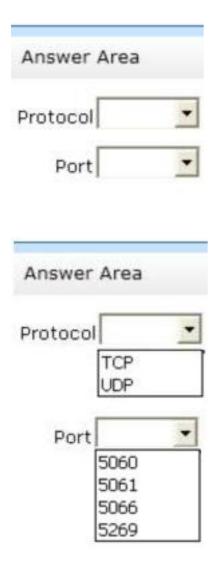
Question No: 22 HOTSPOT - (Topic 3)

You are evaluating the implementation of an Edge Server.

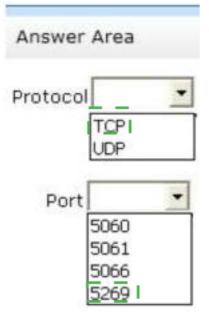
You need to identify which ports must be open on the firewall to support the planned federation relationship.

Which port should you open between the Internet and the planned Edge Server?

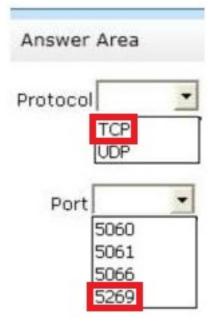
To answer, configure the appropriate protocol and port in the answer area.



Answer:



Explanation:



Note:

Protocol/TCP or UDP/Port,Source (IP address), Destination (IP address), Comments *XMPP/TCP/5269

IP address or addresses of XMPP federated partners

Access Edge External Standard server-to-server communication port for XMPP.

Allows communication to the Edge-deployed XMPP proxy from federated XMPP partners

*XMPP/TCP/5269

Access Edge External IP address or addresses of XMPP federated partners Standard server-to-server communication port for XMPP. Allows communication from the Edge-deployed XMPP proxy to federated XMPP partners

Question No : 23 DRAG DROP - (Topic 3)

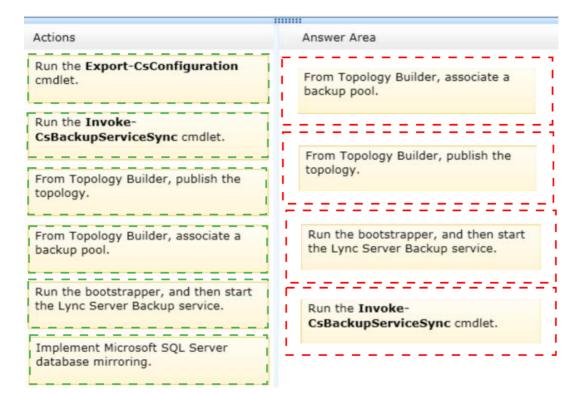
You need to identify which tasks must be performed to configure pool pairing between the Front End pools.

Which four actions should you identify?

To answer, move the four appropriate actions from the list of actions to the answer area and arrange them in the correct order.

| 2 | 0000 |
|--|-------------|
| Actions | Answer Area |
| Run the Export-CsConfiguration cmdlet. | |
| Run the Invoke- CsBackupServiceSync cmdlet. | |
| From Topology Builder, publish the topology. | |
| From Topology Builder, associate a backup pool. | |
| Run the bootstrapper, and then start the Lync Server Backup service. | |
| Implement Microsoft SQL Server database mirroring. | |

Answer:



Explanation:

Answer Area

From Topology Builder, associate a backup pool.

From Topology Builder, publish the topology.

Run the bootstrapper, and then start the Lync Server Backup service.

Run the Invoke-CsBackupServiceSync cmdlet.

Untitled

Deploying Paired Front End Pools for Disaster Recovery

http://technet.microsoft.com/en-us/library/jj204773.aspx

| Deploying Paired Front End Pools for Disaster Recovery | | | |
|--|--|--|--|
| Lync Server 2013 Topic Last Modified 2013-02-21 | | | |
| You can easily deploy the disaster recover Topology Builder. | y topology of paired Front End pools using | | |
| To deploy a pair of Front End po | ools | | |
| pools. In Topology Builder, right-click one of the two pools, and then click Edit Properties. Click Resiliency in the left pane, and then select Associated Backup Pool in the right pane. In the box below Associated Backup Pool, select the pool that you want to pair with this pool. Only existing pools that are not already paired with another pool will be available to select from. | | | |
| ☐ Standard Edition Front End Servers Resiliency - ☐ Standard Edition Front End pools @ Enterprise Edition Front End pools Web services ☑ Director pools @ SQL starves Mediation Server ☑ Director pools @ SQL starves Mediation Server ☑ Director pools @ File starves Mediation Server ☑ Director pools @ File starves E @ Director pools ☑ FITN gateways | Associated backup pool Associated backup pool pool2contos.com SH2 Automatic failover and failback for Voice: Voice failove detection interval (sec): * 300 Voice failove kinterval (sec): * 600 ote: If you want to invoke failover and failback between two pools for services other than Voice, you must do so anually. | | |
| Select Automatic failover and failback for Voice, and then click OK. When you view the details about this pool, the associated pool now appears in the right pane under Resiliency. Use Topology Builder to publish the topology. | | | |

Untitled

| If the two pools were not yet deployed, deploy them now and the configuration will be complete. You can skip the final two steps in this procedure. However, if the pools were already deployed before you defined the paired relationship, you must complete the following two final steps. On every Front End Server in both pools, run the following: <system drive="">\Program Files\Microsoft Lync Server 2013\Deployment\Bootstrapper.exe</system> | |
|--|--|
| This configures other services required for backup pairing to work correctly. | |
| From a Lync Server Management Shell command prompt, run the following: Start-CsWindowsService -Name LYNCBACKUP Force the user and conference data of both pools to be synchronized with each other, with the following cmdlets: Invoke-CsBackupServiceSync -PoolFqdn <pool1 fqdn=""></pool1> Invoke-CsBackupServiceSync -PoolFqdn <pool2 fqdn=""></pool2> | |
| Synchronizing the data may take some time. You can use the following cmdlets to check the status. Make sure that the status in both directions is in steady state. | |
| Get-CsBackupServiceStatus -PoolFqdn <pool1 fqdn=""> Get-CsBackupServiceStatus -PoolFqdn <pool2 fqdn=""> NOTE:</pool2></pool1> | |
| The Automatic failover and failback for Voice option and the associated time intervals in Topology Builder apply only to the voice resiliency features that were introduced in Lync Server 2010. Selecting this option does not imply that the pool failover discussed in this document is automatic. Pool failover and failback always require an administrator to manually invoke the failover and failback cmdlets, respectively. | |

Untitled

Question No : 24 DRAG DROP - (Topic 3)

You are evaluating the deployment of the Persistent Chat feature.

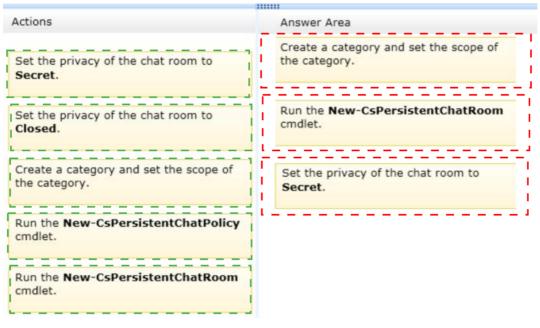
You need to recommend which tasks must be performed to create HRConfidential.

Which three actions should you recommend?

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 |
|--|-------------|
| Set the privacy of the chat room to Secret . | |
| Set the privacy of the chat room to Closed . | |
| Create a category and set the scope of the category. | |
| Run the New-CsPersistentChatPolicy cmdlet. | |
| Run the New-CsPersistentChatRoom cmdlet. | |

Answer:



Explanation:

A) Create a category and set the scope of the category.B) Run the New-

CsPersistentChatRoom cmdlet.C) Set the privacy of the chat room to Secret.

Note:

* From the scenario we have: Only users in the human resources department must be able to access and discover a persistent chat room named HRConfidential

* Select a privacy setting for your room from the three options:

Open – Anyone will be able to find this room (via search), open it, and read and write in ("post to") it. Open rooms have no "membership" per se.

Closed – Non-members will be able to find this room and see who is a member, but only members will be able to open the room, read or post to it. (This is the default setting.) Secret – on-members won't be able to find this room, learn who has membership in it, or read or post to it.

* New-CsPersistentChatRoom

Creates a new Persistent Chat chat room. A chat room is a discussion forum that typically revolves around a specific topic.

* New-CsPersistentChatPolicy

Creates a new Persistent Chat policy at the site or the per-user scope. Persistent Chat policies determine whether or not users are allowed access to Persistent Chat chat rooms.

Question No: 25 DRAG DROP - (Topic 3)

You are planning the Lync Server 2013 migration.

You need to identify which management tools must be used to achieve the following migration tasks during the coexistence period:

- / Move users from Lync Server 2010 to Lync Server 2013.
- Add a server that has Lync Server 2013 deployed to the topology.
- TRemove a server that has Lync Server 2010 deployed from the topology.

Which tools should you identify?

To answer, drag the appropriate management tools to the correct migration task in the answer area. Each tool 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.

| | | 111111111111111 |
|--|--|-----------------|
| Management Tools | Answer Area | |
| Lync Server 2010 Topology Builder | Move users from Lync Server 2010 to Lync Server 2013. | Management tool |
| Lync Server 2013 Topology Builder | Add a server that has Lync Server | Management tool |
| Microsoft Lync Server 2010 Control Panel | 2013 deployed to the topology. | |
| Microsoft Lync Server 2013 Control Panel | Remove a server that has Lync | |
| | Server 2010 deployed from the | Management tool |
| | topology. | |

Answer:

| Management Tools | Answer Area | |
|--|---|--------------------|
| Lync Server 2010 Topology Builder | Move users from Lync Server 2010 to Lync Server 2013. | 2013 Control Panel |
| Lync Server 2013 Topology Builder | | |
| Microsoft Lync Server 2010 Control Panel | Add a server that has Lync Server Lync Server 2013 Topo 2013 deployed to the topology. | ology Builder |
| Microsoft Lync Server 2013 Control Panel | Remove a server that has Lync Lync Server 2013 Top Server 2010 deployed from the Lync Server 2013 Top topology. | ology Builder |

Explanation:

Box 1:

Microsoft Lync Server 2013 Control Panel

Box 2:

Lync Server 2013 Topology Builder

Box 3:

Lync Server 2013 Topology Builder

http://technet.microsoft.com/en-us/library/jj205369.aspx

Question No : 26 - (Topic 3)

You need to recommend which tasks must be performed to implement the planned unified contact store.

Which three actions should you recommend? (Each correct answer presents part of the solution. Choose three.)

A. From a server that has Lync Server 2013 deployed, run the Set-CsUserServicesPolicy cmdlet.

B. From a server that has Lync Server 2013 deployed, run the Set-CsClientPolicy cmdlet.
C. From a server that has Lync Server 2013 deployed, run the New-CsPartnerApplication cmdlet.

D. From a server that has Exchange Server 2013 deployed, run the Configure-EnterprisePartnerApplication.ps1 script.

E. From a server that has Exchange Server 2013 deployed, run the ExchUCUtil.ps1 script.

Answer: A,C,D

Explanation: http://blog.insidelync.com/2012/08/the-lync-2013-preview-unified-contact-store-ucs/

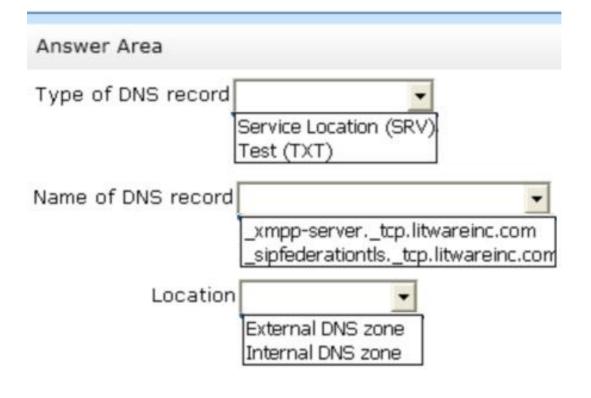
Question No : 27 HOTSPOT - (Topic 3)

You need to identify which DNS record must be implemented for the planned federation relationship.

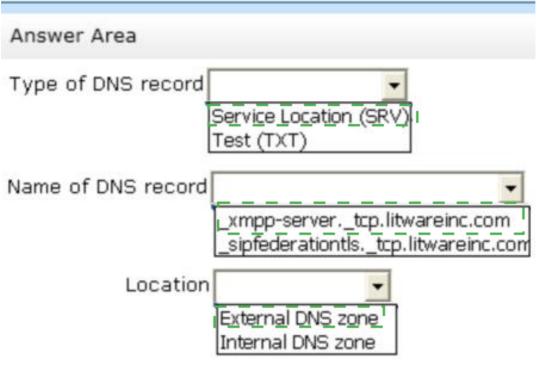
Which DNS record should you identify?

To answer, select the appropriate configurations for the DNS record in the answer area.

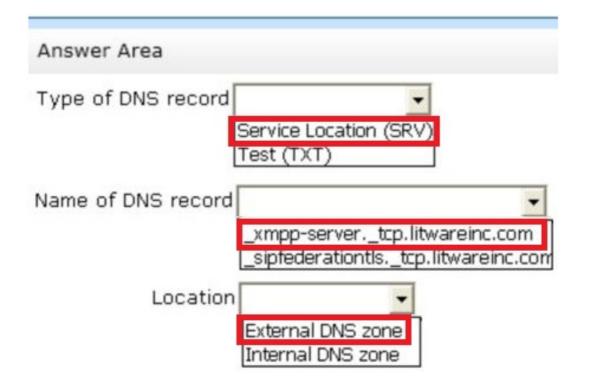
| Answer Area | |
|--------------------|---|
| Type of DNS record | • |
| Name of DNS record | • |
| Location | • |



Answer:



Explanation:



Note:

Protocol/TCP or UDP/Port,Source (IP address), Destination (IP address), Comments *XMPP/TCP/5269

IP address or addresses of XMPP federated partners

Access Edge External Standard server-to-server communication port for XMPP.

Allows communication to the Edge-deployed XMPP proxy from federated XMPP partners

*XMPP/TCP/5269

Access Edge External IP address or addresses of XMPP federated partners

Standard server-to-server communication port for XMPP.

Allows communication from the Edge-deployed XMPP proxy to federated XMPP partners

General Overview From the case....

Litware, Inc., is an international manufacturing company that has 4,000 employees. The company has a sales department, a marketing department, a research department, and a human resources department. Litware has a partner company named Fabrikam, Inc. Fabrikam has an office in Paris.

Fabrikam uses a XMPP-based instant messaging (IM) solution.

Extensible Messaging and Presence Protocol (XMPP) TCP PORT 5269

Planned Federation Relationship in Litware-Case A is XMPP Federation The Partner Company uses XMPP for IM

Answer is: Use Port TCP/5269 which is for XMPP Federation

Port Summary - Single Consolidated Edge with Public IP Addresses The Lync Server 2013, Edge Server functionality described in this scenario architecture is very similar to what was implemented in Lync Server 2010. The most noticeable addition is the port 5269 over TCP entry for the extensible messaging and presence protocol (XMPP). Lync Server 2013 optionally deploys an XMPP proxy on the Edge Server or Edge pool and the XMPP gateway server on the Front End Server or Front End pool. Planning information for the reverse proxy and federation are found in Scenarios for Reverse Proxy and Planning for SIP, XMPP Federation and Public Instant Messaging sections, respectively.

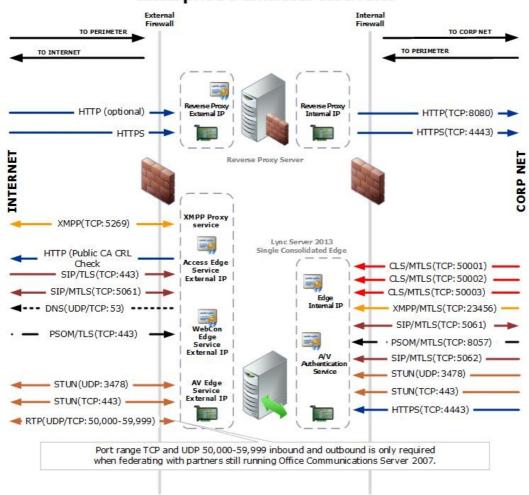
Port and Protocol Details

We recommend that you open only the ports required to support the functionality for which you are providing external access.

For remote access to work for any edge service, it is mandatory that SIP traffic is allowed to flow bidirectionally as shown in the Inbound/Outbound edge traffic figure. Stated another way, the SIP messaging to and from the Access Edge service is involved in instant messaging (IM), presence, web conferencing, audio/video (A/V) and federation. Firewall Summary for Single Consolidated Edge with Public IP Addresses: External Interface

| Role/Protocol/TCP or UDP/Port | Source IP address | Destination IP address | Notes |
|---|--|---|--|
| XMPP/TCP/5269 | Any | XMPP Proxy service (shares IP address with Access Edge service) | XMPP Proxy service accepts traffic from XMPP contacts in defined XMPP federations |
| Access/HTTP/TCP/80 | Edge Server Access Edge service public IP address | Any | Certificate revocation/CRL check and retrieval |
| Access/DNS/TCP/53 | Edge Server Access Edge service public IP address | Any | DNS query over TCP |
| Access/DNS/UDP/53 | Edge Server Access Edge service public IP address | Any | DNS query over UDP |
| Access/SIP(TLS)/TCP/443 | Any | Edge Server Access Edge service public IP address | Client-to-server SIP traffic for external user access |
| Access/SIP(MTLS)/TCP/5061 | Any | Edge Server Access Edge service public IP address | For federated and public IM connectivity using SIP |
| Access/SIP(MTLS)/TCP/5061 | Edge Server Access Edge service public IP address | Any | For federated and public IM connectivity using SIP |
| Web Conferencing/PSOM(TLS) /TCP/443 | Any | Edge Server Web Conferencing Edge service public IP address | Web Conferencing media |
| A/V/RTP/TCP/50,000-59,999 | Edge Server Access Edge service public IP address | Any | Required for federating with partners running Office Communications Server 2007, Office Communications Server 2007 R2, Lync Server 2010 and Lync Server 2013. |
| A/V/RTP/UDP/50,000-59,999 | Edge Server A/V Edge service public IP address | Any | Required only for federation with partners running Office Communications Server 2007 |
| A/V/RTP/TCP/50,000-59,999 | Any | Edge Server A/V Edge service public IP address | Required only for federation with partners running Office Communications Server 2007. |
| A/V/RTP/UDP/50,000-59,999 | Any | Edge Server A/V Edge service public IP address | Required only for federation with partners running Office Communications Server 2007. |
| A/V/STUN,MSTURN/UDP/3478 | Edge Server A/V Edge service public IP address | Any | 3478 outbound is used to determine the version of Edge Server that Lync Server is communicating with and also for media traffic from Edge Server-to-Edge Server. Required for federation with Lync Server 2010. Windows Live Messenger, and Office Communications Server 2007 R2, and also if multiple Edge pools are deployed within a company. |
| A/V/STUN,MSTURN/UDP/3478 | Any | Edge Server A/V Edge service public IP address | STUN/TURN negotiation of candidates over UDP/3478 |
| A/V/STUN,MSTURN/TCP/443 | Any | Edge Server A/V Edge service public IP address | STUN/TURN negotiation of candidates over TCP/443 |
| A/V/STUN,MSTURN/TCP/443 | Edge Server A/V Edge service public IP address | Any | STUN/TURN negotiation of candidates over TCP/443 |

In addition to IPv4, the Edge Server now supports IPv6. For clarity, only IPv4 is used in the scenarios.



Enterprise Perimeter Network

Untitled

| Firewall Summ | any for E | odoration | | | | | |
|-----------------------------|---------------------------------|-------------------------------|---|---------------------------|--|--|---|
| rirewaii Summ | ary for F | ederation | | | | | |
| (| | | | | | | |
| Role/Protocol/TCP or U | DP/Port | Source IP a | ddress | | Destina | tion IP address | Notes |
| Access/SIP(MTLS)/TCP/50 | 061 | Access Edge | service public | IP address | Any | | For federated and public IM connectivity using SIP |
| Firewall Summ | arv – Pul | olic Instant Me | ssaging | Connectivity | | | |
| | , | | | <u> </u> | | | |
| | | Source IP address | | Destination IP address | | | |
| Role/Protocol/TCP or U | | | | | | Notes | |
| Access/SIP(MTLS)/TCP/50 | 061 | Public IM connectivity | partners | Edge Server Access Edge | service | For federated and public II | M connectivity using SIP |
| Access/SIP(MTLS)/TCP/50 | 061 | Edge Server Access Edg | e service | Public IM connectivity pa | rtners | For federated and public IM connectivity using SIP | |
| Access/SIP(TLS)/TCP/443 | | Clients | Edge Server | | service Client-to-server SIP traffic for external user access | | or external user access |
| A/V/RTP/TCP/50,000-59,9 | 99 | Edge Server A/V Edge s | Server A/V Edge service Live Messenger client | | | Used for A/V sessions with Windows Live Messenger if public IM connectivity is configured. | |
| A/V/STUN,MSTURN/UDP | /3478 | Edge Server A/V Edge s | V Edge service Live Messenger clients | | | Required for public IM connectivity with Windows Live Messenger | |
| A/V/STUN,MSTURN/UDP, | /3478 | Live Messenger clients | enger clients Edge Server A/V Edge serv | | vice | e Required for public IM connectivity with Windows Live Messenger | |
| | 6 5 | | | 10 0 | | 1 | |
| Firewall Summ | ary for E | xtensible Mes | saging a | nd Presence Pro | otocol | 1 | |
| | | | | | | | |
| Protocol/TCP or UDP/Port | Source (IP a | ddress) | Destination (IP address) | | Comments | | |
| XMPP/TCP/5269 | Any | | Edge Server Access Edge service interface IP address | | Standard server-to-server communication port for XMPP. Allows communication to the Edge Server XMPP pro from federated XMPP partners | | |
| XMPP/TCP/5269 | Edge Server / interface IP a | Access Edge service ddress | Any | | Standard server-to-server communication port for XMPP. Allows communication from the Edge Server XMPP proxy to federated XMPP partners | | ion port for XMPP. Allows communication from the Edge Server XMPP |
| XMPP/MTLS /TCP/23456 | Any | | Each internal Edge Server Interface IP | | Internal XMPP traffic from the XMPP Gateway on the Front End Server or Front End pool to the Edge Server internal IP address or each Edge pool member's internal IP address | | |

www.ensurepass.com

Untitled

Question No: 28 - (Topic 3)

You need to plan for the implementation of the DHCP configurations for the Lync Phone Edition devices.

Which three configurations should be applied to the Lync Phone Edition devices from DHCP? (Each correct answer presents part of the solution. Choose three.)

- A. The FQDN of the Lync Server pool registrar
- **B.** The IP address of a time server
- **C.** The URL of the certificate provisioning service of the Lync Server pool
- D. The IP address of a Mediation Server
- E. The SIP domain

Answer: A,B,C

Explanation: http://technet.microsoft.com/en-us/library/gg425854(OCS.14).aspx

Question No: 29 DRAG DROP - (Topic 3)

You need to identify which tasks must be performed to move the Central Management store during the planned migration.

Which three actions should you identify?

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 server that has Lync Server 2013 deployed, run the Enable - CsTopology cmdlet. | |
| From a server that has Lync Server 2013 deployed, run the Install- CsDatabase cmdlet. | |
| From Lync1, run the Move- CsManagementServer cmdlet. | |
| From a server that has Lync Server 2013 deployed, run the Move - CsManagementServer cmdlet. | |
| From Lync1, run the Export- CsConfiguration cmdlet. | |

Answer:

| | 1111111 |
|---|---|
| Actions | Answer Area |
| From a server that has Lync Server 2013 deployed, run the Enable - CsTopology cmdlet. | From a server that has Lync Server 2013 deployed, run the Install - CsDatabase cmdlet. |
| From a server that has Lync Server 2013 deployed, run the Install - CsDatabase cmdlet. | From a server that has Lync Server 2013 deployed, run the Enable- CsTopology cmdlet. |
| From Lync1, run the Move- CsManagementServer cmdlet. | |
| From a server that has Lync Server 2013 deployed, run the Move - CsManagementServer cmdlet. | From a server that has Lync Server 2013 deployed, run the Move - CsManagementServer cmdlet. |
| From Lync1, run the Export- CsConfiguration cmdlet. | |

Explanation:

Box 1:

From a server that has Lync Server 2013 deployed, run the Install-CsDatabase cmdlet.

Box 2:

From a server that has Lync Server 2013 deployed, run the Enable-CsTopology cmdlet.

Box 3:

From a server that has Lync Server 2013 deployed, run the Move-CsManagementServer cmdlet.

Lync1 is a Lync 2010 Server - so we DO NOT RUN any commands on Lync1 to move the Central Management Store

Run **Install-CsDatabase** from one of the 2013 Front-Ends **Enable-CsTopology** - commonly done on the same Front-End server **Move-CsManagementServer** - again, target **Front-End Pool**, commonly done on the same **FE**.

Question No : 30 - (Topic 3)

You need to recommend a remote access solution for each central site. The solution must meet the security requirements and the technical requirements.

What are two possible recommendations that achieve the goal? (Each correct answer presents a complete solution. Choose two.)

Α.

- Deploy two Edge Servers that are load balanced by using DNS load balancing.
- Deploy a network address translation (NAT) solution.
- Assign one public IP address to each Edge Server service on each Edge Server. **B.**
- Deploy two Edge Servers that are load balanced by using a hardware load balancer.
- Assign one public IP address to each Edge Server service on each Edge Server.
- Assign three public IP addresses to the hardware load balancer.

C.

- Deploy two Edge Servers that are load balanced by using a hardware load balancer.
- Deploy a network address translation (NAT) solution.
- Assign one public IP address to each Edge Server.

D.

- Deploy two Edge Servers that are load balanced by using a hardware load balancer.
- Assign one public IP address to each Edge Server.
- Assign two public IP addresses to the hardware load balancer.

Answer: A,B

Explanation: http://technet.microsoft.com/en-us/library/gg425716.aspx

Question No : 31 - (Topic 3)

You are evaluating a disaster recovery solution for the planned Front End pools.

You need to recommend a solution for restoring access to the Central Management store if the Front End pool fails.

Which cmdlet should you include in the recommendation?

- A. Invoke-CsManagementServerFailover
- B. Import-CsConfiguration
- C. Invoke-CsPoolFailover
- D. Move-CsManagementServer

Answer: A

Explanation: http://technet.microsoft.com/en-us/library/jj204647.aspx

Topic 4, Litware, Inc Case B

Overview

General Overview

Litware, Inc. is an international manufacturing company that has 10,000 users.

Physical Locations

Litware has two offices. The offices are located in New York and Denver.

The offices connect to each other by using a WAN link. Each office connects directly to the Internet.

Existing Environment

Active Directory Infrastructure

The network contains an Active Directory forest named litware.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 Active Directory site.

Lync Server 2010 Infrastructure

Litware has a Lync Server 2010 infrastructure in the New York office. The infrastructure contains servers and appliances. The servers and appliances are configured as shown in the following table.

| Server name | Role | Pool name |
|--------------------------|------------------|----------------|
| Lync01 Front End Server | | pool1 |
| Lync02 Edge Server | | pool2 |
| Lync03 | Mediation Server | pool3 |
| Lync04 Group Chat Server | | Not applicable |

All of the servers that have Lync Server 2010 deployed are monitored by using Microsoft System Center Operations Manager.

All client computers have either Microsoft Lync 2010 or Microsoft Office Communicator 2007 R2 installed.

Administrators configure the following Lync Server 2010 features:

- # External user access for IM and conferencing
- Z Conferencing for all sites
- C Response groups
- Croup Chat

Problem Statements

Litware identifies the following issues:

- Users report that other users who are not listed on their contact list can see their presence information. This also occurs when the users set their privacy mode to allow only the users on their contact list to see their presence information.
- The users report that when they connect to meetings remotely, they cannot use presenter controls.

Requirements

Business Goals

Litware plans to minimize hardware and software purchasing costs.

Planned Changes

Litware plans to upgrade to Lync Server 2013 during the next six months and plans to implement the following changes during the upgrade:

- Migrate the current Front End pool to an Enterprise Edition Front End pool named fepooll that will contain two servers named Lyncl3_01 and Lyncl3_02.
- *I* Migrate Group Chat to Persistent Chat.

Technical Requirements

Litware identifies the following technical requirements for the planned changes:

- Users running previous client versions must be able to use chat features after the server is migrated to Persistent Chat.
- Users who have mobile devices must be able to receive notifications if the Lync mobile application is inactive.
- A client computer named Monitor01 must be used to monitor client connectivity by using synthetic transactions.
- All response groups must be migrated to Lync Server 2013.
- Z External users must be able to expand distribution groups.
- Z External users must be able to download meeting content.
- The Lync 2013 Windows Store app must be supported.

High Availability Requirements

The new Lync Server 2013 infrastructure in the New York office must be available if a single server fails.

Question No : 32 - (Topic 4)

You are evaluating the migration of the response groups.

You need to identify which statement correctly describes the migration of the response groups to Lync Server 2013.

Which statement should you identify?

A. All of the response groups must be recreated after the users are moved to Lync Server 2013.

B. All of the response groups must be migrated in a single migration operation.

C. An administrator must modify the topology after the response groups are migrated to Lync Server 2013.

D. An administrator must re-enable all users for Enterprise Voice after the response groups are migrated to Lync Server 2013.

Answer: B

Question No : 33 HOTSPOT - (Topic 4)

You need to recommend which names must be included in the certificate installed on Lyncl3_02.

Which names should you recommend? (To answer, select the appropriate names in the answer area.)

| Name | Required | Not required |
|---------------------------|----------|--------------|
| SN=fepool1.litware.com | 0 | C |
| SN=lync13_02.litware.com | C | C |
| SAN=*.litware.com | C | C |
| SAN=fepool1.litware.com | C | С |
| SAN=lync13_01.litware.com | С | С |
| SAN=lync13_02.litware.com | 0 | C |

Answer:

| Name | Required | Not required |
|---------------------------|----------|--------------|
| SN=fepool1.litware.com | 0 | C |
| SN=lync13_02.litware.com | C | C |
| SAN=*.litware.com | C | С |
| SAN=fepool1.litware.com | C | С |
| SAN=lync13_01.litware.com | С | C |
| SAN=lync13_02.litware.com | 0 | C |

Explanation:

http://technet.microsoft.com/en-us/library/gg398094.aspx

Certificate **MUST** have the **Pool Name** as the **Subject Name** (SN) and **SAN** Name and the **Server Name** in the **SAN**.

| Name | Required | Not required |
|---------------------------|----------|--------------|
| SN=fepool1.litware.com | 0 | C |
| SN=lync13_02.litware.com | 0 | 0 |
| SAN=*.litware.com | 0 | 0 |
| SAN=fepool1.litware.com | 0 | 0 |
| SAN=lync13_01.litware.com | 0 | 0 |
| SAN=lync13_02.litware.com | 0 | 0 |

Untitled

Question No : 34 - (Topic 4)

You install System Center 2012 Operations Manager on a server named SCOM01. You import the Lync 2013 Server Management Pack to SCOM01.

You need to configure monitoring to meet the technical requirements.

Which three actions should you perform before you configure the synthetic transactions? (Each correct answer presents part of the solution. Choose three.)

- A. Install the Lync Server 2013 core components on SCOM1.
- B. Install the SCOM agent on Monitor01.
- C. Run watchernode.msi on Monitor01.
- **D.** Install the Lync Server 2013 core components on Monitor01.
- E. Run watchernode.msi on SCOM01.

Answer: B,C,D

Explanation: * From Scenario:

A client computer named Monitor01 must be used to monitor client connectivity by using synthetic transactions.

* You must run Watchernode.msi on a computer where both the Operations Manager (SCOM) agent files and the Lync Server 2013 core components are installed.

Note:

* Watcher nodes are computers that periodically run Lync Server synthetic transactions. Synthetic transactions are Windows PowerShell cmdlets that verify that key end user scenarios—such as the ability to sign in to the system, or the ability to exchange instant messages—are working as expected.

Reference: Installing and Configuring Watcher Nodes

Question No: 35 - (Topic 4)

You need to recommend which type of client connection the remote users must use to prevent the connection issue.

Which Lync client or clients should you recommend? (Choose all that apply.)

A. Lync 2013

B. Lync Web AppC. Lync Windows Store appD. Lync Attendee

Answer: A,B

Explanation: A: Lync 2013 is the full-featured client for Lync Server. The Lync 2013 user interface has been fully redesigned and includes newly integrated features, such as Persistent Chat (Lync 2010 had a separate client for chat functionality), tabbed conversations, video preview, and multiparty video

B:

* Lync Web App is the client of choice for participants outside your organization. With Lync Web App, no local client installation is required, although audio, video, and sharing features require installation of a plug-in during first use.

* Lync Web App is the web-based conferencing client for Lync Server 2013 meetings. In this release, the addition of computer audio and video to Lync Web App provides a complete in-meeting experience for anyone who does not have a Lync client installed locally. Meeting participants have access to all collaboration and sharing features and presenter meeting controls.

Note:

* From scenario:

/ Migrate Group Chat to Persistent Chat

/ Users running previous client versions must be able to use chat features after the server is migrated to Persistent Chat.

Incorrect:

Not C:

* Lync Windows Store app supports most of the commonly-used features for contact management, conversations, and calls. For advanced features such as delegate set up, team calls, response groups, and persistent chat, use Lync 2013 for the desktop instead.

Not D:

* Because of the enhancements to Lync Web App, an updated version of Microsoft Lync 2010 Attendee is not available for Lync Server 2013.

* Lync 2010 Attendant The Microsoft Lync 2010 Attendant integrated call-management program enables a receptionist to manage multiple conversations at the same time through rapid call handling, IM, and onscreen routing.

Reference: Clients for Lync Server 2013

Question No : 36 - (Topic 4)

You need to recommend the minimum number of Lync servers required to support the Lync Server 2013 infrastructure in the New York office. The solution must meet the high availability requirements.

How many servers should you recommend deploying to each network? (To answer, select the appropriate number of servers for each network in the answer area.)

| | Lync servers on the external netv | vork: 0 🛨 |
|---------|--------------------------------------|-----------|
| | Lync servers on the internal netv | vork: 0 🛨 |
| Reverse | proxy servers on the external netv | vork: 0 🔅 |
| Reverse | e proxy servers on the internal netv | vork: 0 ÷ |

Select four.

- A. Lync servers on the external network: 0
- **B.** Lync servers on the external network: 1
- **C.** Lync servers on the external network: 2
- D. Lync servers on the external network: 3
- E. Lync servers on the external network: 4
- F. Lync servers on the internal network: 0
- G. Lync servers on the internal network: 1
- H. Lync servers on the internal network: 2
- I. Lync servers on the internal network: 3
- J. Lync servers on the internal network: 4
- K. Reverse proxy servers on the external network: 0
- L. Reverse proxy servers on the external network: 1
- M. Reverse proxy servers on the external network: 2
- N. Reverse proxy servers on the internal network: 0
- O. Reverse proxy servers on the internal network: 1
- P. Reverse proxy servers on the internal network: 2

Answer: C,J,M,N

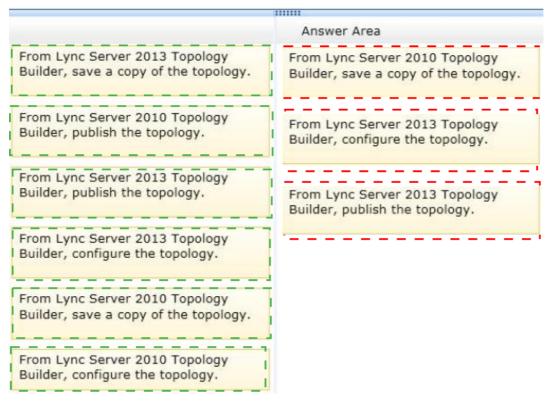
Question No : 37 DRAG DROP - (Topic 4)

You need to recommend which actions must be performed to add the planned Lync Server 2013 servers.

Which three actions should you recommend in sequence? (To answer, move the appropriate three actions from the list of actions to the answer area and arrange them in the correct order.)

| | Answer Area |
|---|-------------|
| From Lync Server 2013 Topology Builder, save a copy of the topology. | |
| From Lync Server 2010 Topology Builder, publish the topology. | |
| From Lync Server 2013 Topology Builder, publish the topology. | |
| From Lync Server 2013 Topology Builder, configure the topology. | |
| From Lync Server 2010 Topology Builder, save a copy of the topology. | |
| From Lync Server 2010 Topology Builder, configure the topology. | |

Answer:



Explanation:

Box 1: From the Lync Server 2010 Topology Builder, save a copy of the topology.

Box 2: From the Lync Server 2013 Topology Builder, configure the topology.

Box 3: From the Lync Server 2013 Topology Builder, publish the topology.

Note:

* From scenario:

/ Litware plans to upgrade to Lync Server 2013

Question No : 38 - (Topic 4)

You need to ensure that the Client Computers that have Office Communicator 2007 R2 installed can use IM and Presence and can join Web Conferences Hosted on Lync Server 2013.

The solution must minimize Administrative effort.

What should you do?

A. Modify the Client Version Policy allow all versions of office Communicator 2007 R2 to connect

- B. Implement Communicator Web Access Server
- C. Apply the latest hot fixes to Office Communicator 2007 R2.
- **D.** Update the computers to Lync 2010

Answer: A

Explanation:

The presence and IM features in Office Communicator 2007 R2 are compatible with Lync Server 2013, but conferencing features are not. During migration from Office Communications Server 2007 R2, Office Communicator 2007 R2 is suitable for presence and IM interoperability, but users should use Lync Web App 2013 to join Lync Server 2013 meetings.

Ref: http://technet.microsoft.com/en-us/library/jj204672.aspx

Question No: 39 HOTSPOT - (Topic 4)

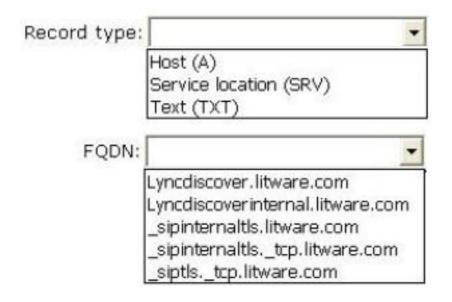
After the migration, users report that when they connect remotely, they fail to sign in by using the Lync 2013 Windows Store app.

You verify the external DNS records for Lync and locate the records shown in the following table.

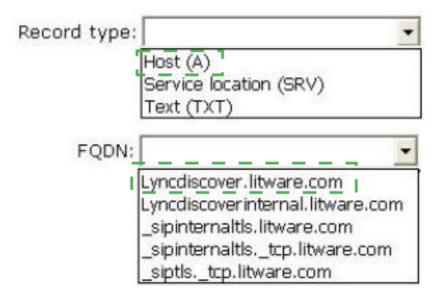
| Record type | FQDN | |
|------------------------|----------------------------------|--|
| Service location (SRV) | _sipfederationtlstcp.litware.com | |
| Service location (SRV) | _siptls.litware.com | |
| Host (A) | Sip.litware.com | |

You need to ensure that the users can sign in by using the Lync 2013 Windows Store app.

What DNS record should you create? (To answer, select the appropriate configuration in the answer area.)



Answer:



Question No: 40 - (Topic 4)

You are evaluating the migration of the response groups.

You need to identify which statement correctly describes the migration of the response groups to Lync Server 2013.

Which statement should you identify?

A. An administrator must modify the topology after the response groups are migrated to

Lync Server 2013.

B. An administrator must re-enable all users for Enterprise Voice after the response groups are migrated to Lync Server 2013.

C. All of the response groups must be recreated after the users are moved to Lync Server 2013

D. All of the response groups must be migrated in a single migration operation.

Answer: D

Question No : 41 - (Topic 4)

You need to recommend a solution to resolve the presence information issue.

You verify that enhanced presence privacy mode is enabled for all users.

What should you recommend including in the solution?

- A. A client version policy
- B. A conferencing policy
- **C.** A presence policy
- D. A client policy

Answer: A

Question No : 42 HOTSPOT - (Topic 4)

You need to move all users to the new Lync Server 2013 infrastructure.

What command should you run? (To answer, configure the appropriate command in the answer area.)



Answer:



Question No: 43 - (Topic 4)

You need to implement a solution to meet the notification requirements for the mobile devices. The solution must meet the technical requirements.

Which three actions should you perform before you enable push notification? (Each correct answer presents part of the solution. Choose three.)

- A. Configure a reverse proxy.
- B. Add a hosting provider.
- **C.** Modify the client policy.
- **D.** Configure accepted domains.
- E. Enable federation.

Answer: B,D,E

Reference: How to Enable Push Notifications for Lync Mobile iPhone & Windows 7 Phone

http://msexchangeanywhere.wordpress.com/2012/01/13/how-to-enable-push-notifications-for-lync-mobile-iphone-windows-phone-7-2/

Untitled

Topic 5, Contoso Ltd. Case B

Overview General Overview Contoso, Ltd. is an international manufacturing company that has 30,000 users.

Contoso has the following departments: sales, research, marketing, human resources, executive, manufacturing, and legal. The sales department has 2,000 users. All of the users in the sales department are located in the United States. The research department has 3,000 users. All of the users in the research department are located in Europe.

Physical Locations

Contoso has two main offices. The offices are located in Houston and Frankfurt. Each office has 15,000 users.

The offices connect to each other by using an MPLS network. Each office connects directly to the Internet.

Existing Environment

Lync Server Infrastructure

Contoso has a Lync Server 2010 infrastructure that only uses internal instant messaging (IM) and presence, The infrastructure contains a single Enterprise Edition Front End pool that services all of the users.

Contoso uses a SIP domain of contoso.com for all of the users.

Client computers have either Microsoft Office Communicator 2007 R2 installed or Microsoft Lync 2010 installed.

Before deploying Lync Server 2013 and migrating the users to Lync Server 2013, you implement a small pilot project to test the functionality of Lync Server 2013.

Problem Statements

The users in the pilot report that occasionally, they cannot sign in to Lync 2013.

Requirements

Business Goals

Contoso plans to upgrade to Lync Server 2013 during the next six months. Contoso must deploy all of the Lync Server conferencing and edge services. Contoso must also configure federation with its parent company, which is named Proseware, Inc. Proseware is located in Europe and has an Office Communication Server 2007 R2 infrastructure.

Contoso must minimize hardware and software purchasing costs, while guaranteeing performance levels for all Lync Server 2013 workloads.

Planned Changes

Contoso plans to implement the following workloads in the Lync Server 2013 deployment:

- // Federation
- ♂ Dial-in conferencing
- Z External user access
- Audio, video, and web conferencing
- The ability to host Lync meetings that have external participants

The FQDNs of the edge services will be configured as shown in the following table.

| Service | United States region | Europe region |
|--------------------------|----------------------|-------------------|
| Access Edge | us-ae.contoso.com | Eu-ae.contoso.com |
| Web Conferencing Edge | us-wc.contoso.com | Eu-wc.contoso.com |
| A/V Edge | us-av.contoso.com | Eu-av.contoso.com |

Technical Requirements

Contoso identifies the following technical requirements for the planned deployment:

- Only federation to Proseware must be allowed.
- All of the edge services must use default ports.
- # WAN traffic and Internet traffic must be minimized.
- All of the user contacts stored in Lync Server 2013 must be backed up.
- The sales department must have a dedicated dial-in conferencing number. All other users in both the United States and Europe must use a pool of regional dialin conferencing numbers.
- If a single component fails, all Lync services must remain available without the need for manual intervention. Performance degradation is acceptable during a component failure state.
- The conversations of all the sales department users must be archived for 30 days. The conversations of all the research department users must be archived for 90 days. No other conversations must be archived.
- After the migration to Lync Server 2013, all client computers will have three months to upgrade to Lync 2013. After three months, legacy clients must be blocked from accessing the Lync Server 2013 infrastructure.

Security Requirements

Contoso identifies the following security requirements for the planned deployment:

- All Lync Server conferences must use a unique URL.
- Z Each Internet-facing service must have one or more dedicated public IP addresses.
- Only the users in the human resources department must be prevented from connecting to Lync Server remotely.

Question No: 44 - (Topic 5)

You need to recommend an archiving solution that meets the business goals and the technical requirements.

Which two actions should you recommend? (Each correct answer presents part of the solution. Choose two.)

A. Create a new Front End pool. Home the sales department users and the research

department users on the new pool. Configure archiving for the new pool.

B. Create a new Front End pool for the sales department and a new Front End pool for the research department. Configure archiving for the new pools.

C. Configure the global archiving policy.

D. Home the sales department users on the Front End pool in the United States. Home the research department users on the Front End pool in Europe. Configure archiving for each pool.

E. Create a new user-level archiving policy.

Answer: B,C

Explanation:

* From scenario

The conversations of all the sales department users must be archived for 30 days. The conversations of all the research department users must be archived for 90 days. No other conversations must be archived.

Question No: 45 - (Topic 5)

You need to recommend a backup solution to meet the technical requirements. Which tool should you include in the recommendation?

- A. Export-CsUserData
- B. Ocslogger
- C. Snooper
- D. Get-CsAdContact
- E. Dbimpexp

Answer: A Reference: Export-CsUserData

http://technet.microsoft.com/en-us/library/jj204897.aspx

Export-CsUserData

Detailed Description

The Export-CsUserData cmdlet provides a way for administrators to Export User Data

and/or Conference Directory for a Lync Server Pool.

That data, which can be saved in the User Data format used by either Lync Server 2013

or Microsoft Lync Server 2010 can then be imported by using the Import-CsUserData cmdlet.

To return a list of all the role-based access control (RBAC) roles this cmdlet has been assigned to

(including any custom RBAC roles you have created yourself), run the following command from the

Windows PowerShell command-line interface prompt:

Get-CsAdminRole | Where-Object {\$_.Cmdlets -match "Export-CsUserData"}

Lync Server Control Panel: The functions carried out by the Export-CsUserData

cmdlet are not available in the Lync Server Control Panel.

Question No: 46 - (Topic 5)

You need to configure the Lync Server 2013 infrastructure to meet the security requirements for the human resources department. The solution must minimize administrative effort.

What should you do?

- A. Create a new user-level external access policy.
- B. Modify the Access Edge Configuration settings.
- **C.** Create a new user-level client policy.
- **D.** Modify the global external access policy.

Answer: A

Question No: 47 - (Topic 5)

The Lync Server 2013 infrastructure was implemented successfully three months ago.

You need to recommend a solution to meet the technical requirements.

Which cmdlet should you run?

- A. Set-CsClientVersionConfiguration
- B. Set-CsClientVersionPolicy
- C. Set-CsMobilityPolicy
- D. Set-CsDeviceUpdateConfiguration
- E. Set-CsClientPolicy

Answer: B

Question No : 48 HOTSPOT - (Topic 5)

You need to ensure that the Lync Server 2013 infrastructure meets the security requirement for conferences.

Which setting should you modify in Meeting Configuration? (To answer, select the appropriate setting in the answer area.)

| Lync Server 2013 | 50.8 | Administrator Sign 308.0 Privacy staten |
|-----------------------------|--|--|
| Home | Conferencing Policy Meeting Configuration Dial-in Access Number PIN Policy | |
| 2 Users | fr. | |
| Topology | Edit Meeting Configuration - Global | |
| IM and Presence | Gommit X Cancel | 0 |
| Persistent Chat | Scope: Global | |
| Voice Routing | Name: " Giobai | |
| o Voice Features | PSTN callers bypass lobby | |
| Response Groups | Designate as presenter: | |
| Conferencing | Company | |
| Clients | Assigned conference type by default | |
| Foderation and | Admit anonymous users by default | |
| External Access | Logo URL: | |
| Monitoring and Archiving | Help URL: | |
| Security | | |
| | Legal text URL: | |
| Configuration | | |
| | Custom footer text: | |
| | | |
| | | |
| | | |

www.ensurepass.com

Answer:

| Lync Server 2013 | 5. | Administrator Sig 0.8308.0 Privacy state |
|-----------------------------|--|---|
| 🛱 Home | Conferencing Policy Meeting Configuration Dial-in Access Number PIN Policy | |
| 22 Users | (| |
| Topology | Edit Meeting Configuration - Global | |
| IM and Presence | Gommit X Cancel | 0 |
| Persistent Chat | Scope: Global | |
| Voice Routing | Name: " Giobai | |
| Voice Features | PSTN callers bypass lobby | |
| Response Groups | Designate as presenter: | |
| Conferencing | Company | |
| Clients | Assigned conference type by default | |
| Codecation and | Admit anonymous users by default | |
| External Access | Logo URL: | |
| Monitoring and Archiving | Help URL: | |
| Security | | |
| Manuala | Legal text URL: | |
| Configuration | | |
| | Custom footer text: | |
| | | |

Question No: 49 HOTSPOT - (Topic 5)

You are evaluating how many Servers are required for the planned Lync Server 2013 deployment.

You need to identify which components can be collocate on the Front End Servers

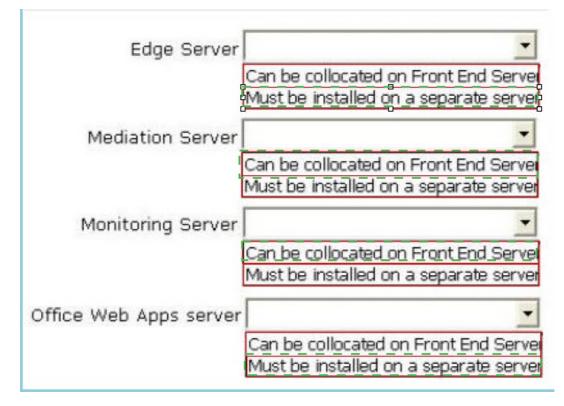
and which components must be installed on a new Server.

Which components should you identify for which servers?

To answer, configure the appropriate components in the answer area.

| Edge Server | • |
|------------------------|---|
| | Can be collocated on Front End Server Must be installed on a separate server |
| Mediation Server | |
| | Can be collocated on Front End Serve |
| | Must be installed on a separate server |
| Monitoring Server | - |
| | Can be collocated on Front End Server |
| | Must be installed on a separate server |
| Office Web Apps server | • |
| | Can be collocated on Front End Serve |
| | Must be installed on a separate server |

Answer:



Question No : 50 - (Topic 5)

You need to ensure that the client computers that have Office Communicator 2007 R2 installed can use IM and presence and can join web conferences hosted on Lync Server 2013. The solution must minimize administrative effort.

What should you do?

A. Implement Communicator Web Access Server.

B. Modify the client version policy to allow all versions of Office Communicator 2007 R2 to connect,

C. Upgrade the computers to Lync 2010.

D. Apply the latest hotfixes to Office Communicator 2007 R2

Answer: B

Question No : 51 - (Topic 5)

You need to identify the dial-in conferencing configurations required to meet the technical requirements for the sales department.

Which two configurations should you identify? (Each correct answer presents part of the solution. Choose two.)

A. Create a user-level conferencing policy. Assign the conferencing policy to the sales department users.

B. Create a user-level dial plan. Assign the dial plan to the sales department users.

C. Create a new dial-in access number. Assign the dial-in access number to a dial-in conferencing region.

D. Create a user-level voice policy. Assign the voice policy to the sales department users.

E. Create a new meeting configuration. Assign the meeting to a site.

Answer: B,C

Explanation:

Note:

* The sales department must have a dedicated dial-in conferencing number. All other users in both the United States and Europe must use a pool of regional dial-in conferencing numbers.

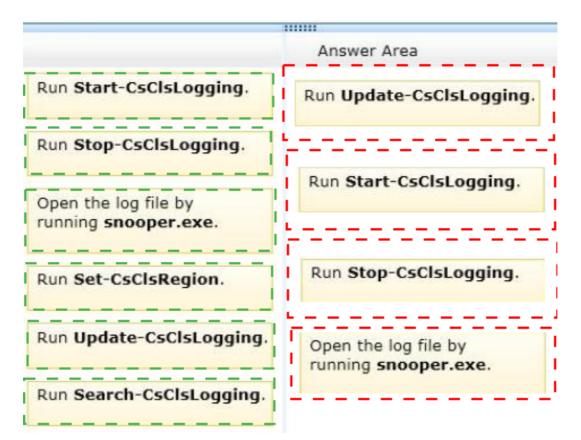
Question No : 52 DRAG DROP - (Topic 5)

You need to identify the cause of the authentication issue for the pilot users.

Which four actions should you perform in sequence? (To answer, move the appropriate four actions from the list of actions to the answer area and arrange them in the correct order.)

| 10100 |
|-------------|
| Answer Area |
| |
| |
| |
| |
| |
| |
| |

Answer:



Explanation:

Box 1: Update-CsClsLogging

Box 2: Run Start-CsClsLogging

Box 3: Run Stop-CsClsLogging

Box 4: Open the log file by running snooper.exe.

Note:

* From scenario:

/ Before deploying Lync Server 2013 and migrating the users to Lync Server 2013, you implement a small pilot project to test the functionality of Lync Server 2013.

/ Problem Statements

The users in the pilot report that occasionally, they cannot sign in to Lync 2013.

* Start-CsClsLogging

Starts the specified scenario centralized logging service scenario. Centralized logging provides a way for administrators to simultaneously enable or disable Lync Server 2013 tracing on multiple computers.

* set-CsClsRegion

Modifies an existing centralized logging configuration region. Centralized logging provides a way for administrators to simultaneously enable or disable event tracing on multiple computers.

* Update-CsClsLogging

Updates the duration time for all active centralized logging scenarios.

* (incorrect) Search-CsClsLogging

Provides a command-line option for searching the centralized logging service log files. * The centralized logging service (which replaces the OCSLogger and OCSTracer tools used in Microsoft Lync Server 2010) provides a way for administrators to manage logging

and tracing for all computers and pools running Lync Server 2013. Centralized logging enables administrators to stop, start, and configure logging for one or more pools and computers by using a single command;

Question No : 53 - (Topic 5)

You need to identify the minimum number of Lync Server 2013 servers and supporting server roles required in each Lync site to meet the business goals and the technical requirements.

How many servers should you identify? (To answer, select the appropriate number servers in the answer area.)

| Edge Servers per site: | 0 ÷ |
|-----------------------------------|-----|
| Front End Servers per site: | 0 ÷ |
| Office Web Apps servers per site: | 0 ÷ |
| Microsoft SQL Servers per site: | 0 📩 |

- **A.** Edge Servers per site: 0
- B. Edge Servers per site: 1
- C. Edge Servers per site: 2

- **D.** Edge Servers per site: 3
- E. Front End Servers per site: 0
- F. Front End Servers per site: 1
- G. Front End Servers per site: 2
- H. Front End Servers per site: 3
- I. Office Web Apps servers per site: 0
- J. Office Web Apps servers per site: 1
- K. Office Web Apps servers per site: 2
- L. Office Web Apps servers per site: 3
- M. Microsoft SQL Servers per site: 0
- N. Microsoft SQL Servers per site: 1
- O. Microsoft SQL Servers per site: 2
- P. Microsoft SQL Servers per site: 3

Answer: C,H,K,P

Explanation:

- Contoso must minimize hardware and software purchasing costs, while guaranteeing performance levels for all Lync Server 2013 workloads.
- If a single component fails, all Lync services must remain available without the need for manual intervention. Performance degradation is acceptable during a component failure state.

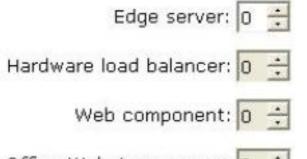
For the number of users, 3 FE servers are required. In the event of a failure, one server could not handle 15,000 users.

SQL mirroring is the recommended database HA solution in Lync 2013. To avoid manual intervention, you need a third server to act as a witness server. You could use a failover cluster using two servers but this tends to be more expensive in terms of hardware cost.

Question No : 54 - (Topic 5)

You need to identify the minimum number of required public IP addresses for each Lync Server 2013 component. The solution must meet the business goals and the technical requirements.

How many public IP addresses should you identify for each component? (To answer, select the appropriate number of public IP addresses for each component in the answer area.)



Office Web Apps server: 0 🛨

Select four.

- A. Edge server: 0
- B. Edge server: 1
- C. Edge server: 2
- D. Edge server: 3
- E. Hardware load balancer: 0
- F. Hardware load balancer: 1
- **G.** Hardware load balancer: 2
- H. Hardware load balancer: 3
- I. Web component: 0
- J. Web component: 1
- K. Web component: 2
- L. Web component: 3
- M. Office Web Apps: 0
- N. Office Web Apps: 1
- O. Office Web Apps: 2
- P. Office Web Apps: 3

Answer: D,H,J,N

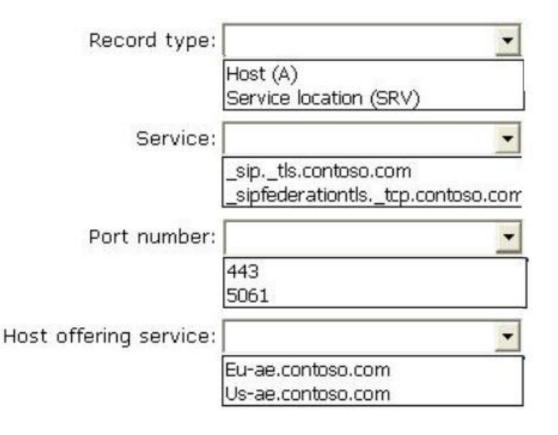
Explanation:

Z Each Internet-facing service must have one or more dedicated public IP addresses

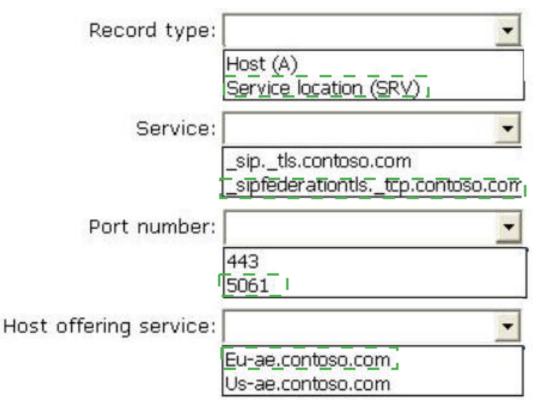
Question No : 55 HOTSPOT - (Topic 5)

You need to configure the required external DNS record to support federation. The solution must meet the business goals and the technical requirements.

How should you configure the DNS record? (To answer, select the appropriate options for the DNS record in the answer area.)



Answer:



Topic 6, Mix Questions

Question No: 56 HOTSPOT - (Topic 6)

You plan to deploy a Lync Server 2013 infrastructure that will contain the components shown in the following table.

| Component name | Description | IP address |
|----------------|---|------------|
| Server1 | Enterprise Edition Front End Server | 10.0.0.1 |
| Server2 | Enterprise Edition Front End Server | 10.0.0.2 |
| HLB VIP | Virtual IP address of a hardware load balancer | 10.0.0.10 |

The fully qualified domain name (FQDN) of the Enterprise Edition pool will be Lyncpool01.contoso.com. Lync web services will be accessed at a URL of https://lyncweb01.contoso.com.

You plan to use DNS load balancing for the Enterprise Edition pool.

You need to identify which host (A) records must be created on the internal DNS servers to support the planned Lync Server 2013 deployment.

Which A record entries should you identify?

To answer, select the appropriate records in the answer area.

| jle <u>A</u> ction ⊻ie | w <u>H</u> elp | | | Eile Action Vie | w <u>H</u> elp | | | |
|--|------------------------------|------------------------------|-----------|---|--|-------------------------------|-----------|---|
| ie 🐟 🖄 📷 | 0 | 🖬 🖬 | i o s | (🗢 🔿 🖄 📅 | | 2 | 3 🗆 6 | |
| Name 🔶 | Туре | Data | Timestamp | Name 🔺 | Туре | Data | Timestamp | 1 |
| Lyncweb01 | Host (A) | 10.0.0.1 | | Lyncpool01 | Host (A) | 10.0.0.10 | | |
| Lyncweb01 | Host (A) | 10.0.0.2 | | Lyncweb01 | Host (A) | 10.0.0.10 | | |
| Server1 | Host (A) | 10.0.0.1 | | Server1 | Host (A) | 10.0.0.1 | | |
| Server2 | Host (A) | 10.0.0.2 | | Server2 | Host (A) | 10.0.0.2 | | |
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| Lyncweb01 | Host (A) | 10.0.0.2 | | Lyncweb01 | Host (A) | 10.0.0.10 | |
| Server1 | Host (A) | 10.0.0.1 | | Server1 | Host (A) | 10.0.0.1 | |
| Server2 | Host (A) | 10.0.0.2 | | Server2 | Host (A) | 10.0.0.2 | |
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Explanation:

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| Lyncweb01 | Host (A) | 10.0.0.1 | | Lyncpool01 | Host (A) | 10.0.0.10 | | |
| Lyncweb01 | Host (A) | 10.0.0.2 | | Lyncweb01 | Host (A) | 10.0.0.10 | | |
| Server1 | Host (A) | 10.0.0.1 | | Server1 | Host (A) | 10.0.0.1 | | |
| Server2 | Host (A) | 10.0.0.2 | | Server2 | Host (A) | 10.0.0.2 | | |
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Note: Before you can use DNS load balancing, you must do the following: # uk.co.certification.simulator.questionpool.PList@2780c510

Question No : 57 HOTSPOT - (Topic 6)

Your company has two main offices. The main offices are located in Tokyo and Athens.

The network contains an Active Directory forest named contoso.com.

The offices connect to each other by using a WAN link. Each office connects directly to the Internet.

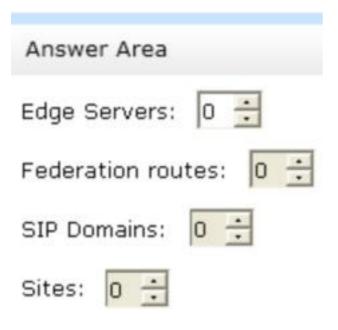
You plan to deploy a Lync Server 2013 infrastructure that has federation enabled.

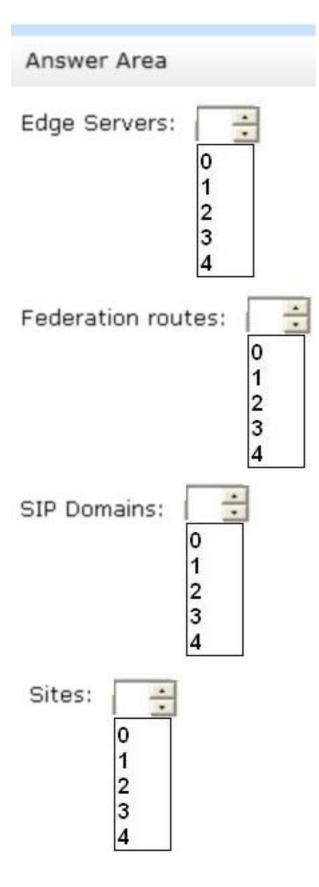
You need to recommend a Lync Server 2013 topology for the planned deployment. The solution must ensure that each office uses its local Internet connection for federated communications with the company's external partners.

What is the minimum number of Edge Servers, Federation routes, SIP domains, and Sites that you should you recommend?

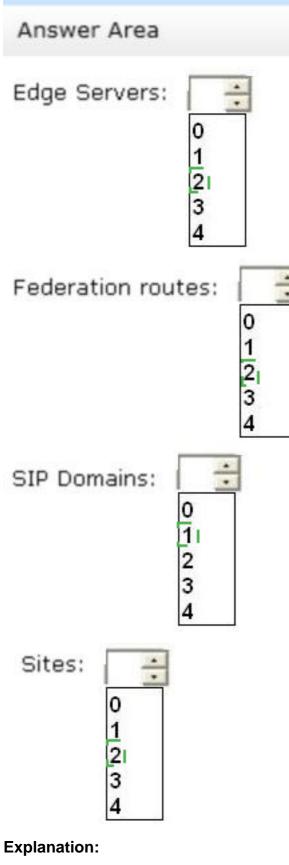
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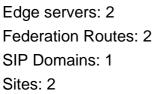
To answer, select the appropriate number of Edge Servers, Federation routes, SIP domains, and Sites in the answer area.





Answer:





Question No : 58 DRAG DROP - (Topic 6)

You have a Lync Server 2013 infrastructure that contains two servers. The servers are configured as shown in the following table.

| Server name | Role |
|-------------------|------------------|
| Lync1.contoso.com | Front End Server |
| Lync2.contoso.com | Mediation Server |

You deploy a new server named lync3.contoso.com.

You plan to install the Edge Server role on Lync3.

You need to identify which tasks must be performed to install the Edge Server role on Lync3.

Which four actions should you identify?

To answer, move the four appropriate actions from the list of actions to the answer area and arrange them in the correct order.

| | 111111 |
|--|-------------|
| Actions | Answer Area |
| On Lync3, install Lync Server 2013. | |
| From Lync1, modify the topology by using the Topology Builder. | |
| From Lync3, run the Import-CsConfiguration cmdlet. | |
| From Lync1, publish the topology by using the Topology Builder. | |
| From Lync1, run the Export-CsConfiguration cmdlet. | |

Answer:

| Actions | Answer Area |
|--|--|
| On Lync3, install Lync Server 2013. | From Lync1, modify the topology by using the Topology Builder. |
| From Lync1, modify the topology by using the Topology Builder. | From Lync1, publish the topology by using the Topology Builder. |
| From Lync3, run the Import-CsConfiguration cmdlet. | From Lync1, run the Export-CsConfiguration cmdlet. |
| From Lync1, publish the topology by using the Topology Builder. | |
| From Lync1, run the Export-CsConfiguration cmdlet. | On Lync3, install Lync Server 2013. |

Explanation: Box 1:

From Lync1, modify the topology by using the Topology Builder.

Box 2:

From Lync1, publish the topology by using the Topology Builder.

Box 3:

From Lync1, run the Export-CsConfiguration cmdlet.

Box 4:

On Lync3, install Lync Server 2013.

Note:

You install Lync Server 2013 on Edge Servers by using Lync Server Deployment Wizard. By running the Deployment Wizard on each Edge Server, you can complete most of the tasks required to set up the Edge Server. In order to deploy Lync Server 2013 on an Edge Server, you must have already run Topology Builder (see note 2 below) to define and publish your Edge Server topology, and exported it to media that is available from the Edge Server. To install an Edge Server

- Log on to the computer on which you want to install your Edge Server as a member of the local Administrators group or an account with equivalent user rights and permissions.
- Ensure that the topology configuration file you created using Topology Builder, and then exported and copied to external media, is available on the Edge Server (for example, access to the USB drive onto which you copied the topology configuration file, or verify access to the network share where you copied the file).
- Start the Deployment Wizard.
- In the Deployment Wizard, click Install or Update Lync Server System.
- After the wizard determines the deployment state, for Step 1. Install Local Configuration Store, click Run and then do the following:

* In the **Configure Local Replica of Central Management Store** dialog box, click **Import from a file (Recommended for Edge Servers)**, go to the location of the exported topology configuration file, select the .zip file, click **Open**, and then click **Next**.

* The Deployment Wizard reads the configuration information from the configuration file and writes the XML configuration file to the local computer.

* After the **Executing Commands** process is finished, click **Finish**. Etc.

Note 2: To define the topology for a single Edge Server

- Start Topology Builder: Click Start, click All Programs, click Microsoft Lync Server 2013, and then click Lync Server Topology Builder.
- In the console tree, expand the site in which you want to deploy an Edge Server.
- TRight-click Edge pools, and then click New Edge Pool.
- In Define the New Edge Pool, click Next.

Note 3: Export-CsConfiguration

Exports your Lync Server topology, policies, and configuration settings to a file. Among other things, this file can then be used to restore this information to the Central Management store after an upgrade, a hardware failure, or some other issue has resulted in data loss. This cmdlet was introduced in Lync Server 2010.

Question No : 59 - (Topic 6)

You have two servers named Lync1 and Lync2 that have Lync Server 2013 Standard Edition deployed. The servers are located in different buildings. Lync1 hosts response groups.

You need to ensure that Lync2 can host the response groups if Lync1 fails.

Which cmdlet should you run first?

- A. Export-CsConfiguration
- B. Export-CsRgsConfiguration
- C. Backup-CsPool
- D. Move-CsRgsConfiguration

Answer: B

Explanation: http://technet.microsoft.com/en-us/library/jj205011.aspx Reference: **Export-CsRgsConfiguration**

Untitled

Export-CsRgsConfiguration

Detailed Description

The **Export-CsRgsConfiguration** cmdlet and the **Import-CsRgsConfiguration** cmdlet **enable you to export data about your current implementation of the Response Group** application (including such things as workflows, queues, agent groups, holiday sets and business hours, as well as audio files and service configuration settings) and then later import (or re-import) that information. This can be extremely useful in a disaster recovery scenario (for example, in a case where the server hosting the Response Group application has failed) or if you simply need to transfer the Response Group application to a different pool.

Note that the Export-CsRgsConfiguration cmdlet and the Import-CsRgsConfiguration cmdlet are designed to work only with Lync Server 2013.

If you want to migrate **Response Group data from Microsoft Lync Server 2010 to Lync Server 2013**, you **should use the Move-CsRgsConfiguration cmdlet instead**.

Export-CsRgsConfiguration -Source "ApplicationServer:atl-rgs-001.litwareinc.com" - FileName "C:\Exports\Rgs.zip"

To return a list of all the role-based access control (RBAC) roles this cmdlet has been assigned to (including any custom RBAC roles you have created yourself), run the following command from the Windows PowerShell command-line interface prompt:

Get-CsAdminRole | Where-Object {\$_.Cmdlets -match "Export-CsRgsConfiguration"}

Lync Server Control Panel: The functions carried out by the Export-CsRgsConfiguration

cmdlet are not available in the Lync Server Control Panel.

Question No : 60 HOTSPOT - (Topic 6)

Your network contains an Active Directory domain named contoso.com. The domain contains a Lync Server 2013 infrastructure that has the Persistent Chat feature configured.

Persistent Chat is hosted by a Front End pool named pcpool.

You need to configure a chat room named Announcements to meet the following requirements:

I Only a user named user1@contoso.com can post messages to Announcements.

J Users from a group named group1 can view the messages in Announcements.

What should you run? (To answer, configure the appropriate parameters for the PowerShell command in the answer area.)

| Set-CsPersistentChatRoom -Identity | / pcpool.contoso.com\Announc | ements | -Managers -Presenters |
|------------------------------------|--|----------|----------------------------------|
| @{Add="sip:user1@contoso.com} | -Type Auditorium -Type Normal -Privacy Closed -Privacy Open | rrs @{Ad | d="CN=group1,DC=contoso,DC=com"} |
| Answer: | | | |
| Set-CsPersistentChatRoom -Identity | / pcpool.contoso.com\Announc | ements | -Managers |
| @{Add="sip:user1@contoso.com} | -Membe -Type Auditorium I -Type Normal -Privacy Closed -Privacy Open | ers @{Ad | d="CN=group1,DC=contoso,DC=com"} |
| Explanation: | | | |
| Box 1: -Presenters | | | |

Box 2: -Type Auditorium

Question No : 61 HOTSPOT - (Topic 6)

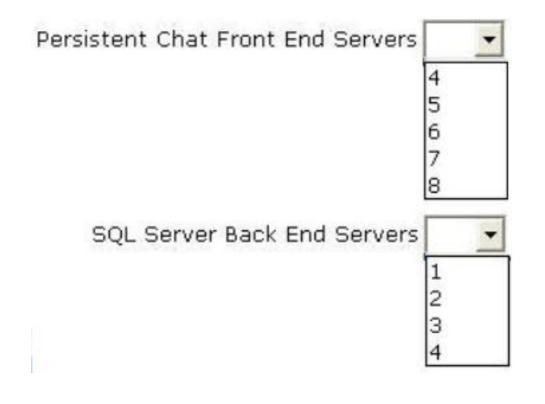
You have a Lync Server 2013 infrastructure.

You plan to deploy Persistent Chat features to meet the following requirements:

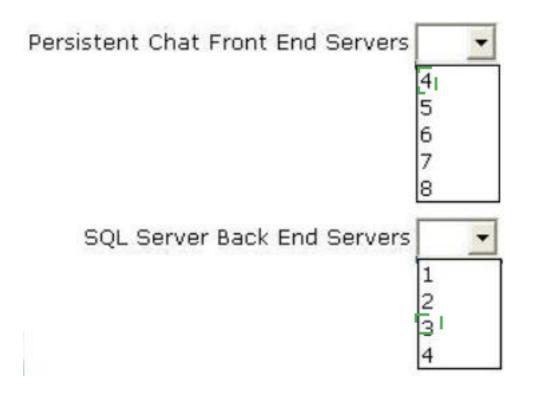
- *C* Enable the Persistent Chat Server Compliance service.
- The Ensure that all of the features are automatically available if a single server fails.

You need to identify the minimum number of Front End Servers and Microsoft SQL Server Back End Servers that are required for the planned deployment.

How many servers should you identify? (To answer, select the appropriate number of servers for each component in the answer area.)



Answer:



Question No: 62 DRAG DROP - (Topic 6)

Your company has several offices. The offices are located in one office building. The building is located in Seattle. The company has employees from Europe and North America.

The company has a phone at a security desk.

You implement Lync Server 2013 Enterprise Voice.

You need to implement call routing for emergency calls.

The solution must meet the following requirements:

- If a user dials 112, the call must be routed to a phone extension of 0911.
- If a user dials 0911, the call must be routed to the phone at the security desk.
- The phone at the security desk must be used to forward calls to the emergency number in the Seattle offices only.

What should you use?

To answer, drag the appropriate technology to the correct requirement in the answer area. Each technology 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.

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| Technologies | Answer Area | | |
|--------------------------------|--|------------|--|
| a conferencing policy | If a user dials 112, the call must | Technology | |
| a Contact object | be routed to a phone extension of 0911. | rechnology | |
| Enterprise Voice-enabled users | If a user dials 0911, the call must | | |
| an external user access Policy | be routed to the phone at the security desk. | Technology | |
| a normalization rule | The phone at the security desk | | |
| a voice policy | must be used to forward calls to the emergency number in the | Technology | |
| An unassigned number | Seattle offices only. | | |

Answer:

| Technologies | Answer Area | |
|--|--|----------------------|
| a conferencing policy a Contact object | If a user dials 112, the call must be routed to a phone extension of 0911. | a normalization rule |
| Enterprise Voice-enabled users an external user access Policy | If a user dials 0911, the call must be routed to the phone at the security desk. | a normalization rule |
| a normalization rule a voice policy An unassigned number | The phone at the security desk must be used to forward calls to the emergency number in the Seattle offices only. | a voice policy |

Explanation:

Box 1: a normalization rule

Box 2: a normalization rule

Box 3: a voice policy

Note:

* Normalization rules define how phone numbers expressed in various formats are to be routed for the named location. The same number string may be interpreted and translated differently, depending on the locale from which it is dialed. Normalization rules are necessary for call routing because users can, and do, use various formats when entering phone numbers in their Contacts lists.

Normalizing user-supplied phone numbers provides a consistent format that facilitates the following tasks:

* You can enable or disable the following call features for each voice policy:

/ Call forwarding enables users to forward calls to other phones and client devices. Enabled by default.

Etc.

Question No: 63 - (Topic 6)

You have a Lync Server 2010 infrastructure.

You plan to migrate to Lync Server 2013.

You have four client computers. The client computers are configured as shown in the following table.

| Client computer type | Operating system | Installed client |
|----------------------|-------------------------|--|
| A | Windows 7 | Microsoft Office Communicator 2007 |
| В | Windows XP | Microsoft Office Communicator 2007 R2 |
| с | Windows 7 | Microsoft Office Communicator 2007 R2 |
| D | Windows XP | Microsoft Lync 2010 |

You need to identify which client computer types can use audio conferencing hosted on Lync Server 2013 without installing any additional software on the client computers.

Which client computer types should you identify?

A. A

B. B

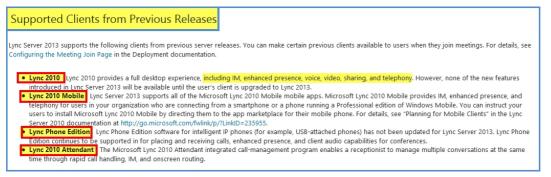
C. C

D. D

Answer: D

Explanation:

http://technet.microsoft.com/en-us/library/jj204672.aspx



Client Interoperability in Lync 2013

This topic discusses the ability of Microsoft Lync Server 2013 clients to coexist and interact with clients from earlier versions

of Lync Server and Office Communications Server.Server and Client Compatibility.

The following table shows the supported combinations of client versions and server versions. This table indicates whether sign-in is supported when the client attempts to connect to the server indicated. Lync Server 2013 supports the previous client version. Also, unlike previous releases, Lync Server 2010 supports the new Lync 2013 clients. This allows organizations who are upgrading from Lync Server 2010 to roll out new clients independent of Lync Server upgrades.

⁴The presence and IM features in Office Communicator 2007 R2 are compatible with Lync Server 2013 but conferencing features are not. During migration from Office Communications Server 2007 R2, Office Communicator 2007 R2 is suitable for presence and IM interoperability, but users should use Lync Web App 2013 to join Lync Server 2013 meetings.

| Client | Lync Server 2013 | Lync Server 2010 | Office Communications Server 2007 R2 |
|--|----------------------------|------------------------|--------------------------------------|
| Lync 2013 | Supported | Supported | Not Supported |
| Lync 2013 Basic | Supported | Supported | Not Supported |
| Lync Web App 2013 | Supported | Not Supported | Not Supported |
| Lync 2010 | Supported | Supported | Not Supported |
| Lync 2010 Attendant | Supported | Supported | Not Supported |
| Lync 2010 Group Chat | Supported ¹ | Supported ² | Not Applicable |
| Lync Web App 2010 | Not Supported | Supported | Not Supported |
| Lync 2010 Attendee | Not Supported ³ | Supported | Not Supported |
| Office Communicator 2007 R2 | Interoperable ⁴ | Supported | Supported |
| Microsoft Office Communications Server 2007 R2 Attendant | Not Supported | Supported | Supported |
| Office Communicator 2007 | Not Supported | Supported | Supported |
| Office Live Meeting 2007 | Not Supported | Supported | Supported |

¹For details, see Migration from Lync Server 2010, Group Chat or Office Communications Server 2007 R2 Group Chat to Lync Server 2013, Persistent Chat Server.

²In Microsoft Lync Server 2010, group chat functionality was available with Group Chat Server, a third-party trusted application for Lync Server 2010. Lync 2013 clients are not compatible with Lync Server 2010, Group Chat.

³Lync Web App 2013 now provides a full in-meeting experience, including computer audio and video, and is considered the replacement for Lync 2010 Attendee. Lync 2010 Attendee will connect to Lync Server 2013 only when you are using an unsupported browser (Internet Explorer 6 or Internet Explorer 7) and Windows XP.

⁴The presence and IM features in Office Communicator 2007 R2 are compatible with Lync Server 2013, but conferencing features are not. During migration from Office Communications Server 2007 R2, Office Communicator 2007 R2 is suitable for presence and IM interoperability, but users should use Lync Web App 2013 to join Lync Server 2013 meetings.

Interoperability among Clients

With the Lync Server 2013 release, various client versions can interact seamlessly in both peer-to-peer and conferencing scenarios. This section discusses feature availability when users interact with other users who are using different versions of clients and servers. Peer-to-Peer Feature Support

Peer-to-peer features are supported for users who are homed on different versions of the server and who are using different client versions. The end-user experience and available features are consistent with the capabilities of the user's client and the version of the server the user is signed in to. In other words:

If a user is signed in to Lync Server 2013 with an older client, the user will have the same experience he or she is used to. None of the new features introduced in Lync Server 2013 will be available until the user's client is upgraded.

If a user is signed in to Lync Server 2010 with a Lync 2013 client, any new features not supported by Lync Server 2010 will be unavailable until the user is moved to Lync Server 2013.

The following table compares feature availability in peer-to-peer sessions where the client is signed in to either Lync Server 2013 or Lync Server 2010.

Note:

Lync Web App and Lync 2010 Attendee are meeting-only clients and aren't included in this table.

| Client | Instant Messaging | Presence | Voice | Video | Application Sharing | File Transfer |
|--|-------------------|----------|-------|-------|---------------------|---------------|
| Lync 2013 | Yes | Yes | Yes | Yes | Yes | Yes |
| Lync 2013 Basic | Yes | Yes | Yes | Yes | Yes | Yes |
| Lync 2010 | Yes | Yes | Yes | Yes | Yes | Yes |
| Lync 2010 Attendant | Yes | Yes | Yes | | | |
| Lync 2010 Mobile | Yes | Yes | | | | |
| Lync Phone Edition | Yes | Yes | Yes | | | |
| Office Communicator 2007 R2 | Yes | Yes | Yes | Yes | Yes ¹ | Yes |
| Public IM (AOL, Yahoo!) | Yes | Yes | | | | |
| Public IM (MSN, Windows Live Messenger) | Yes | Yes | Yes | Yes | | |
| ♦ Important: | | | | | | |
| As of September 1st, 2012, the Microsoft Lync Public IM Connectivity User Subscription License (PIC USL) is no longer available for the purchase for new or renewing agreements. Customers with active licenses will be able to continue to federate with Yahoo! Messenger until the service shutdown date (exact date is still to be decided, but no sooner than June 2013). The PIC USL is a per-user, per-month subscription license that is required for Lync Server or Office Communications Server to federate with Yahoo! Messenger. Microsoft's ability to provide this service has been contingent upon support from Yahoo!, the underlying agreement for which will not be renewed. More than ever, Lync is a powerful tool for connecting across organizations and with individuals around the world. Federation with Windows Live Messenger reaction and dictional user/device licenses beyond the Lync Standard CAL. Skype federation will be added to this list, enabling Lync users to reach hundreds of millions of people through IM and voice. | | | | | | |

Conferencing Feature Support

In Lync Server 2013 meetings, conferencing features are supported for users who are homed on different versions of the server and who are using different clients and client versions. When clients join a Lync Server 2013 meeting, users have access to the features and capabilities shown in this table.

| Client | Peer-to-peer IM | Voice | Video | Application Sharing | PowerPoint | File Transfer | Whiteboard | Polling |
|--|-----------------|-------|-------|---------------------|------------------|---------------|------------|---------|
| Lync 2013 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Lync 2013 Basic | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Lync Web App | Yes | Yes | Yes | Yes | Yes ² | Yes | Yes | Yes |
| Lync 2010 | Yes | Yes | Yes | Yes | Yes ³ | Yes | Yes | Yes |
| Office Communicator 2007 R2 ⁴ | Yes | | | | | | | |

1. In Office Communicator 2007 R2, only desktop sharing (and not program sharing) is available.

2. Lync Server 2013 uses an updated mechanism for uploading PowerPoint files. Lync Web App users who join a meeting that was originally scheduled on Lync Server 2010 can view and navigate PowerPoint presentations, but cannot upload PowerPoint files.

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Microsoft Exams List

| | Interoport | EXAMS LIST | |
|---------------------|---------------------|---------------------|----------------------|
| 70-246 Dump PDF VCE | 70-485 Dump PDF VCE | 70-742 Dump PDF VCE | 98-366 Dump PDF VCE |
| 70-247 Dump PDF VCE | 70-486 Dump PDF VCE | 70-743 Dump PDF VCE | 98-367 Dump PDF VCE |
| 70-331 Dump PDF VCE | 70-487 Dump PDF VCE | 70-744 Dump PDF VCE | 98-368 Dump PDF VCE |
| 70-332 Dump PDF VCE | 70-488 Dump PDF VCE | 70-761 Dump PDF VCE | 98-369 Dump PDF VCE |
| 70-333 Dump PDF VCE | 70-489 Dump PDF VCE | 70-762 Dump PDF VCE | 98-372 Dump PDF VCE |
| 70-334 Dump PDF VCE | 70-490 Dump PDF VCE | 70-765 Dump PDF VCE | 98-373 Dump PDF VCE |
| 70-339 Dump PDF VCE | 70-491 Dump PDF VCE | 70-768 Dump PDF VCE | 98-374 Dump PDF VCE |
| 70-341 Dump PDF VCE | 70-492 Dump PDF VCE | 70-980 Dump PDF VCE | 98-375 Dump PDF VCE |
| 70-342 Dump PDF VCE | 70-494 Dump PDF VCE | 70-981 Dump PDF VCE | 98-379 Dump PDF VCE |
| 70-345 Dump PDF VCE | 70-496 Dump PDF VCE | 70-982 Dump PDF VCE | MB2-700 Dump PDF VCE |
| 70-346 Dump PDF VCE | 70-497 Dump PDF VCE | 74-343 Dump PDF VCE | MB2-701 Dump PDF VCE |
| 70-347 Dump PDF VCE | 70-498 Dump PDF VCE | 74-344 Dump PDF VCE | MB2-702 Dump PDF VCE |
| 70-348 Dump PDF VCE | 70-499 Dump PDF VCE | 74-409 Dump PDF VCE | MB2-703 Dump PDF VCE |
| 70-354 Dump PDF VCE | 70-517 Dump PDF VCE | 74-678 Dump PDF VCE | MB2-704 Dump PDF VCE |
| 70-383 Dump PDF VCE | 70-532 Dump PDF VCE | 74-697 Dump PDF VCE | MB2-707 Dump PDF VCE |
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