

Microsoft

70-334

Core Solutions of Microsoft Skype for Business 2015

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Product Version

Case Study

Litware, Inc.

Overview

Litware, Inc. is an international manufacturing company that has 10,000 users. The company 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 Domain Services (AD DS) forest named litware.com. The forest contains a single domain. All domain controllers run Windows Server 2008 R2.

Lync Server 2013 Infrastructure

Litware has a Lync Server 2013 infrastructure in the New York office. The infrastructure contains servers and appliances. The call routing and distribution solution for the IT

Help Desk and Front Desk are dependent upon Response Groups. 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 2013 deployed are monitored by using Microsoft System Center Operations Manager. All client computers have either Microsoft Lync 2010 or Microsoft Lync 2013 installed. Administrators configure the following Lync Server 2013 features:

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

Planned Changes

Litware plans to upgrade to Skype for Business Server 2015 during the next six months. You must implement the following changes during the upgrade:

- Migrate the current Front End pool to an Enterprise Edition Front End pool named fepool1 that will contain two servers named Server13_01 and Server13_02.
- Migrate Group Chat to Persistent Chat.

You must minimize the costs associated with the purchase of hardware and software.

Technical Requirements

You have 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 Skype for Business mobile app on Windows Phone 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 Skype for Business Server 2015.
- External users must be able to expand distribution groups.
- External users must be able to download meeting content.
- The Lync Windows Store app must be supported.
- Non-federated external partners must be able to join and present during meetings that Litware hosts.

High Availability Requirements

The new Skype for Business Server 2015 infrastructure in the New Your office must be available if a single server fails. You must minimize the amount of administrative intervention that is required to recover from a single server failure. You must deploy an AlwaysOn Availability Group instance and a Distributed File System (DFS) file share in the environment.

Question: 1

You are planning to migrate the solution that the IT Help desk and front desk teams use. You need to recommend an action to migrate the response groups to Skype for Business Server 2015. What should you recommend?

- A. Recreate all response groups after you move the users to Skype for Business Server 2015.
- B. Migrate all unassigned number configurations in a single operation.
- C. Migrate all of the response groups in a single migration operation.
- D. Migrate all of the unassigned number configurations after you move the users to Skype for Business Server 2015.

Answer: C

Question: 2

You install System Center 2012 R2 Operations Manager on a server named SCOM01. You import the Skype for Business Server 2015 Management Pack to SCOM01.

You need to configure monitoring for the solution.

Which three actions should you perform? Each correct answer present part of the solution.

- A. install the SCOM agent on Monitor01.
- B. Run watchernode.msi on Monitor01.
- C. Run watchernode.msi on SCOM01.
- D. Install the Skype for Business Server 2015 core components on Monitor01.
- E. Install the Skype for Business Server 2015 core components on SCOM1

Answer: A, B, D

Question: 3

HOTSPOT

You need to move all users to the new Skype for Business Server 2015 infrastructure.

How should you configure the relevant Skype for Business Management Shell cmdlet? To answer, configure the appropriate command in the answer area.

| | | | | | |
|-----------------|---|--|---------------|----------------|----------------------|
| Get-CsUser | ▼ | | ▼ | ▼ | ▼ |
| -Identity all | | | Move-CsUser | -Target | fepool1.litware.com |
| -OnlyLyncServer | | | Set-CsUser | -RegistrarPool | pool1.litware.com |
| -UnassignedUser | | | Enable-CsUser | -ProxyPool | SfB13 01 litware.com |

Answer:

| | | | |
|-----------------|---------------|----------------|----------------------|
| ▼ | ▼ | ▼ | ▼ |
| -Identity all | Move-CsUser | -Target | fepool1.litware.com |
| -OnlyLyncServer | Set-CsUser | -RegistrarPool | pool1.litware.com |
| -UnassignedUser | Enable-CsUser | -ProxyPool | SfB13 01 litware.com |

Question: 4

You need to recommend a solution to resolve the privacy issue that users report. What should you recommend?

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

Answer: C

Case Study: A. Datum

Overview

General Overview

A.Datum is an international logistic company that has 12.000 employees. The company has a sales department, a marketing department, a human resources department. a finance department, and an operations department.

Physical Locations

A.Datum has four offices located throughout the world.

A.Datum has two data centers. The data centers are located in New York and Toronto. All communications are routed through the New York and Toronto data centers.

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

| Office location | Number of users |
|-----------------|-----------------|
| New York | 8,000 |
| Toronto | 1,500 |
| Stockholm | 500 |
| Sydney | 2,000 |

Existing Environment

Active Directory environment

A.Datum has an Active Directory Domain Services (AD DS) forest named adatum.com. The forest contains a single domain. All domain controllers run Windows Server 2012 R2.

Each office contains redundant domain controllers. Each office is configured as an AD DS site.

Lync Server environment

A.Datum has a Lync Server 2013 infrastructure that contains Two pools. There is one pool in the New York data center and one pool in the Toronto data center. These pools are in pairing relationship for site resiliency.

In preparation for the Skype for Business Server update, you install the required prerequisite components on all Lync Server 2013 servers.

There is a dedicated management computer named NYCMGMT1 in the New York office that has Lync Server 2013 administrative tools installed.

All company users are evenly distributed across the New York and Toronto pools.

The servers are configured as shown in the following tables:

New York data centers:

| Server name | Role |
|-------------|--|
| NYCFE01 | Enterprise Edition Front End server |
| NYCFE02 | Enterprise Edition Front End server |
| NYCFE03 | Enterprise Edition Front End server |
| NYCBE01 | Enterprise Edition Back End server |
| NYCBE02 | Enterprise Edition Back End server |
| NYCBE03 | Enterprise Edition Back End witness server |
| NYCOWAS01 | Office Web Apps server |
| NYCOWAS02 | Office Web Apps server |
| NYCEDGE01 | Edge Server |
| NYCEDGE02 | Edge Server |

Toronto data centers:

| Server name | Role |
|-------------|--|
| TORFE01 | Enterprise Edition Front End server |
| TORFE02 | Enterprise Edition Front End server |
| TORFE03 | Enterprise Edition Front End server |
| TORBE01 | Enterprise Edition Back End server |
| TORBE02 | Enterprise Edition Back End server |
| TORBE03 | Enterprise Edition Back End witness server |
| TOROWAS01 | Office Web Apps server |
| TOROWAS02 | Office Web Apps server |
| TOREDGE01 | Edge Server |
| TOREDGE02 | Edge Server |

Both data centers have a complete set of redundant load balancers and reverse proxies.

Internal and external URLs

The Lync Server 2013 Web Services and Office Web Apps Server 2013 farm for both New York and Toronto pools use the following internal and external URLs:

| Location | Component | URL |
|----------|---|-------------------------------------|
| New York | Internal Lync Server 2013 Web Services | https://nycpool01-WebInt.adatum.com |
| | External Lync Server 2013 Web Services | https://nycpool01-WebExt.adatum.com |
| | Internal Office Web Apps Server 2013 Farm | https://nycowas-int.adatum.com |
| | External Office Web Apps Server 2013 Farm | https://nycowas-ext.adatum.com |
| Toronto | Internal Lync Server 2013 Web Services | https://torpool01-WebInt.adatum.com |
| | External Lync Server 2013 Web Services | https://torpool01-WebExt.adatum.com |
| | Internal Office Web Apps Server 2013 Farm | https://torowas-int.adatum.com |
| | External Office Web Apps Server 2013 Farm | https://torowas-ext.adatum.com |

ReverseProxy Rules

You use the following reverse proxy rules to publish external access for the New York pool:

| URL | Listening Port | Target Port |
|-----------------------------|----------------|-------------|
| nycpool01-webext.adatum.com | 443 | 4443 |
| nycowas-ext.adatum.com | 443 | 4443 |
| meet.adatum.com | 443 | 4443 |
| dialin.adatum.com | 443 | 4443 |
| lyncdiscover.adatum.com | 443 | 4443 |

Unused servers

The Sydney and Stockholm offices each have a server room. The following is the list of unused servers in the server rooms:

| Server name | Operating system |
|-------------|------------------------|
| SYDSERVER01 | Windows Server 2012 R2 |
| SYDSERVER02 | Windows Server 2012 R2 |
| SYDSERVER03 | Windows Server 2012 R2 |
| SYDSERVER04 | Windows Server 2012 R2 |
| SYDSERVER05 | Windows Server 2012 R2 |

Stockholm server room:

| Server name | Operating system |
|-------------|------------------------|
| SHSERVER01 | Windows Server 2008 R2 |
| SHSERVER02 | Windows Server 2008 R2 |
| SHSERVER03 | Windows Server 2008 R2 |
| SHSERVER04 | Windows Server 2008 R2 |
| SHSERVER05 | Windows Server 2008 R2 |

SIPdomain and firewall

The SIP domain is adatum.com

A.Datum has a Microsoft Office 365 subscription. The company recently completed an upgrade to Exchange Server 2013. In-Place hold is not in use.

A.Datum is federated with Fabrikam. Inc. The configuration information is shown below:

| SIP Domain | Federation Type | Access Edge FQDN | IP Address |
|--------------|-----------------|---------------------|--------------|
| Fabrikam.com | Direct | Access.fabrikam.com | 209.10.15.15 |

Firewall configuration on the edge firewall facing to the Internet from both perimeter network in New York and Toronto allows connection to Any IP addresses in the Internet on port TCP/5061.

Problem statements

All external users that are homed in the New York pool reported that they have issues with uploading PowerPoint presentations during conferences.

The PowerPoint upload issue is affecting all internal users that are homed in the Toronto pool.

Users in the Sydney office report poor audio and video quality during conferences. Desktop sharing during conferences also exhibits poor performance.

Business requirements

The company has identified the following business requirements:

- 1) The Sales and marketing departments have the ability to interact with various suppliers and customers that use Skype Consumer. To enhance the capability, users from sales and marketing departments would like to be able to look up additional Skype Consumer contact details.
- 2) The company wants to improve the conferencing experience for users in the Sydney office.
- 3) A.Datum recently acquired a local logistic company in Australia and is planning to rebrand the business in the Asia pacific market. The rebranded business with operate under the name Wide World Importer.
- 4) The acquired company has an existing video teleconferencing (VTC) solution from Cisco/Tandberg.
- 5) A.Datum wants to minimize the cost of any changes to the infrastructure.
- 6) A consultant that works from the Stockholm office will oversee the deployment of any new services.

Technical requirements

The company has identified the following technical requirements:

- 1) Any new infrastructure must be deployed to support high availability.
- 2) All users in Sydney will use the new email and SIP domain.
- 3) All federation traffic for the SIM domain wideworldimporters.com must route through the infrastructure in the Sydney office.
- 4) All conferencing capabilities must be available in the event of wide area network (WAN) link failure.
- 5) Only users in the sales and marketing departments must be able to federate with Skype consumer.
- 6) A.Datum uses third party identity providers to federate with Azure Active Directory.
- 7) You must integrate Microsoft Exchange with Skype for Business to archive Skype for Business data in user mailboxes.
- 8) You must use wideworldimporters.com as the email and SIP domain for rebranded business.
- 9) You must implement archiving for all skype for business users. You must not make changes to existing Microsoft exchange functionality.

Question: 1

Fabrikam, Inc, changes their Access Edge fully qualified domain name (FQDN). This resulted in a broken federation relationship. You need to correct the issue and reduce further administrative overhead. What should you do?

- A. Modify the SRV record_sipfederationtls._tcp.adatum.com to point to the new Fabrikam Access Edge FQDN on port TCP/5061.
- B. Modify the federation configuration to enable Open Federation.
- C. Allow outbound connection on port TCP/5061 from Edge Server to any IP address on the Internet.
- D. Modify the SRV record_sipfederationtls._tcp.wideworldimporters.com to point to the new Fabrikam Access Edge FQDN on port TCP/5061.

Answer: B

Question: 2

You need to identify the additional components that must be added to the Skype for Business Server 2015 topology.

Which three additional components are required for the updated topology? Each correct answer presents a part of the solution.

- A. Skype for Business Server 2015 Standard Edition Front End Servers
- B. Skype for Business Server 2015 Video Interop Server pools
- C. Skype for Business Server 2015 Enterprise Edition Front End pools
- D. Shared Components - SQL Server stores
- E. Shared Components - Office Web Apps servers

Answer: B,C,D

Question: 3

HOTSPOT

You need to recommend the topology for the solution.

How many additional instances of each type of component should you deploy? To answer, select the appropriate number of additional Edge Servers, federation routes, SIP domains, and sites in the answer area.

| Component | Number of Instances |
|-------------------|--|
| Edge Servers | <div><div></div><div>0</div><div>1</div><div>2</div><div>3</div></div> |
| Federation routes | <div><div></div><div>0</div><div>1</div><div>2</div><div>3</div></div> |
| SIP Domains | <div><div></div><div>0</div><div>1</div><div>2</div><div>3</div></div> |
| Sites | <div><div></div><div>0</div><div>1</div><div>2</div><div>3</div></div> |

Answer:

Edge Servers

| | |
|---|---|
| | ▼ |
| 0 | |
| 1 | |
| 2 | |
| 3 | |

Federation routes

| | |
|---|---|
| | ▼ |
| 0 | |
| 1 | |
| 2 | |
| 3 | |

SIP Domains

| | |
|---|---|
| | ▼ |
| 0 | |
| 1 | |
| 2 | |
| 3 | |

Sites

| | |
|---|---|
| | ▼ |
| 0 | |
| 1 | |
| 2 | |
| 3 | |

Question: 4

DRAG DROP

You need to upgrade the New York pool to Skype for Business Server 2015.

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

| Actions | | Steps to Perform in Sequence | |
|--|---|------------------------------|---|
| Back up all databases and ensure that all services that need an upgrade are running. | | | |
| Install all prerequisite components on the existing servers. | | | |
| Update the Active Directory schema. | | | |
| Upgrade and publish the topology file by using the Topology Builder. | ➤ | | ⬆ |
| Start an In-Place Upgrade on each Front End server. | ⬅ | | ⬇ |
| Stop all services on each Front End server. | | | |

Answer:

Steps to Perform in Sequence

Back up all databases and ensure that all services that need an upgrade are running.

Upgrade and publish the topology file by using the Topology Builder.

Stop all services on each Front End server.

➤ Start an In-Place Upgrade on each Front End server. ⬆

⬅ ⬇

Question: 5

You need to correct the reverse proxy configuration to resolve the PowerPoint upload issue. What should you do?

A. Add a reverse proxy rule forTORPOOLOI-WebExt.adatum.com thatlistens on port 443 and targets port 4443.

- B. Change the target port for reverse proxy rule meet.adatum.com to 443.
- C. Change the target port for reverse proxy rule NYCOWAS-Ext.adatum.com to 443.
- D. Add a reverse proxy rule forTOROWAS-Ext.adatum.com thatlistens on port 443 and targets port 4443.
- E. Change the target port for reverse proxy rule NYCPOOLOI-WebExt.adatum.com to 443.

Answer: C

Question: 6

You need to enable archiving for all Skype for Business users.
Which Skype for Business Management Shell cmdlet should you use?

- A. Set-CsClientPolicy
- B. Set-CsArchivingPolicy
- C. Set-CsUser
- D. Set-CsUserServicesPolicy
- E. Set-CsArchivingConfiguration

Answer: E

Explanation:
<https://technet.microsoft.com/en-us/library/dn951399.aspx>

Question: 7

You need to integrate Skype for Business with Microsoft Exchange.
Which two actions should you perform? Each correct response presents part of the solution.

- A. Run the following Skype for Business Management Shell cmdlet:New-CsPartnerApplication
- B. Run the following Skype for Business Management Shell cmdlet:New-CsTrustedApplicationPool
- C. Assign a certificate of type WsFedTokenTransfer.
- D. Assign a certificate of type OAuthTokenIssuer.

Answer: A,D

Explanation:
<https://technet.microsoft.com/en-us/library/jj204628.aspx>
<https://technet.microsoft.com/en-us/library/jj721919.aspx>

Question: 8

HOTSPOT

You need to configure federation for the Sydney office.
What should you do? To answer, select the appropriate action from each list in the answer area.

Answer Area

Create the following DNS SRV record:

| | |
|--|---|
| | ▼ |
| <input type="checkbox"/> _sipfederationtls._tcp.adatum.com | |
| <input type="checkbox"/> _sipfederationtls._tcp.wideworldimporters.com | |
| <input type="checkbox"/> _sip._tls.adatum.com | |
| <input type="checkbox"/> _sip._tls.wideworldimporters.com | |

Configure the topology - step one:

| | |
|---|---|
| | ▼ |
| <input type="checkbox"/> Define the Edge pool. | |
| <input type="checkbox"/> Define the federation route. | |

Configure the topology - step two:

| | |
|---|---|
| | ▼ |
| <input type="checkbox"/> Define the Edge pool. | |
| <input type="checkbox"/> Define the federation route. | |

Answer:

Answer Area

Create the following DNS SRV record:

| | |
|---|---|
| | ▼ |
| <input type="checkbox"/> _sipfederationtls._tcp.adatum.com | |
| <input checked="" type="checkbox"/> _sipfederationtls._tcp.wideworldimporters.com | |
| <input type="checkbox"/> _sip._tls.adatum.com | |
| <input type="checkbox"/> _sip._tls.wideworldimporters.com | |

Configure the topology - step one:

| | |
|---|---|
| | ▼ |
| <input checked="" type="checkbox"/> Define the Edge pool. | |
| <input type="checkbox"/> Define the federation route. | |

Configure the topology - step two:

| | |
|--|---|
| | ▼ |
| <input type="checkbox"/> Define the Edge pool. | |
| <input checked="" type="checkbox"/> Define the federation route. | |

References: [https://technet.microsoft.com/en-us/library/jj688121\(v=ocs.15\).aspx](https://technet.microsoft.com/en-us/library/jj688121(v=ocs.15).aspx)

Question: 9

You configure Skype Directory Search after you upgrade all pools to Skype for Business Server 2015. Sales and marketing users report that they cannot search Skype consumer contact details. You need to resolve the issue. Which outbound connections should you allow?

- A. on port TCP/443 from the Front End Servers to any IP address on the internet
- B. on port TCP/80 from the Edge Server to any IP address on the internet
- C. on port TCP/4443 from the Front End Servers to any IP address on the internet
- D. on port TCP/443 from the Edge Server to any IP address on the internet

Answer: D

Explanation:
<https://ucmart.uk/tag/skype-directory-search/>

Question: 10

You need to identify the computers that you can use to upgrade the topology to support Skype for Business Server 2015. What are two possible ways to achieve the goal? Each correct answer presents a complete solution.

- A. On NYCMGMT1, uninstall the Lync Server administrative tools, and install Skype for Business Server 2015 administrative tools.
- B. On SYDSERVER01, install the Lync Server 2013 administrative tools and upgrade to the latest cumulative update.
- C. On SHSERVER01, install the Skype for Business Server 2015 administrative tools.
- D. On NYCMGMT1, upgrade the Administrative tools to the latest Lync Server 2013 cumulative update.

Answer: B,D

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