



74-335^{Q&As}

Network Readiness and Assessment for Lync

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QUESTION 1

You need to determine which type of encrypted traffic will be seen across which connections for the pilot project.

Which protocol should you use for each connection? (To answer, drag the appropriate connection type or types to the correct protocol or protocols in the answer area. Each connection type may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

Select and Place:

Connection	Protocol
Session Initiation Protocol (SIP) signaling between Tokyo clients and the Front End Server	Transport Layer Security (TLS)
media traffic between Internet clients and the Edge Server	secure real-time transfer protocol (SRTP)
Session Initiation Protocol (SIP) signaling between the Front End Server and the Edge Server in the New York data center	Mutual Transport Layer Security (MTLS)

Correct Answer:

Connection	Protocol
	Transport Layer Security (TLS)
	secure real-time transfer protocol (SRTP)
	Mutual Transport Layer Security (MTLS)

Session Initiation Protocol (SIP) signaling between Tokyo clients and the Front End Server
media traffic between Internet clients and the Edge Server
Session Initiation Protocol (SIP) signaling between the Front End Server and the Edge Server in the New York data center

Note:

Transport Layer Security (TLS) and Mutual Transport Layer Security (MTLS) protocols provide encrypted communications and endpoint authentication on the Internet. Microsoft Lync Server 2013 uses these two protocols to create the network

of trusted servers and to ensure that all communications over that network are encrypted. All SIP communications between servers occur over MTLS. SIP communications from client to server occur over TLS.



Ref: <http://technet.microsoft.com/en-us/library/dn481133.aspx>

QUESTION 2

Your customer's network includes a main office in Moscow and branch offices in Helsinki and Stockholm. Both branch offices are connected to the main office by WAN links. You complete a Lync network readiness assessment. The relevant portions of the Lync traffic simulation results for each branch office are shown in the following exhibits:

Correct Answer:

Recommendation	Branch office
	Helsinki
	Implement WAN Quality of Service (QoS) prioritization.
	Stockholm
Implement split-tunnel virtual private network (VPN) communication.	Upgrade the WAN link bandwidth.

QUESTION 3

You need to recommend a solution to test instant messaging (IM) communications with the federated company. Which synthetic transaction should you configure?

- A. Test-CsMcsPushNotification
- B. Test-CsMCXP2PIM
- C. Test-CsASConference
- D. Test-CsXmppIM

Correct Answer: D

Note:

Humongous Insurance is federated with Trey Research Corporation, which uses a third-party IM. Users at both companies need to communicate with each other by using their respective IM client.

A third party IM provider will use XMPP.

QUESTION 4

You need to identify the Lync Server 2013 features to employ in order to optimize the quality of audio calls in the Beijing office, even during heavy network load.

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

- A. call Admission Control (CAC)
- B. Mediation Server bypass
- C. call Detail Recording (CDR)
- D. Quality of Service (QoS)
- E. Quality of Experience (QoE)

Correct Answer: ABD

A: Real-time communications are sensitive to the latency and packet loss that can occur on congested networks. Call admission control (CAC) determines, based on available network bandwidth, whether to allow real-time communications

sessions such as voice or video calls to be established. The CAC design in Lync Server 2013 offers four main attributes:

It is simple to deploy and manage without requiring additional equipment, such as specially configured routers.

It addresses critical unified communications use cases, such as roaming users and multiple points of presence. CAC policies are enforced according to where the endpoint is located, not where the user is homed.

In addition to voice calls, it can be applied to other traffic, such as video calls and audio/video conferencing sessions.

Provides the flexibility to enable representation of various kinds of network topologies.

B: In Microsoft Lync Server, we recommend that you configure voice traffic to bypass the Mediation Server when possible. Doing so helps improve call quality by optimizing the media path, reducing latency, minimizing unnecessary transcoding, limiting packet loss, and eliminating potential points of failure.

Mediation Server bypass also provides you bandwidth savings in configurations where a Mediation Server and a PSTN gateway or PBX are at different sites connected by WAN links, especially if bandwidth over the link is limited. Offloading the media processing from the Mediation Server also improves scalability.

D: Quality of Service (QoS) is a networking technology used in some organizations to help provide an optimal end-user experience for audio and video communications. QoS is most- commonly used on networks where bandwidth is limited:

with a large number of network packets competing for a relatively small amount of available bandwidth, Quality of Service provides a way for administrators to assign higher priorities to packets carrying audio or video data. By giving these

packets a higher priority, audio and video communications are likely to complete faster, and with less interruption, than network sessions involving things like file transfers, web browsing, or database backups. That\\'s because network packets

used for file transfers or database backups are assigned a "best effort" priority.



Incorrect:

Not C: Call detail recording (CDR) records usage and diagnostic information about peer-to-peer activities including instance messaging, Voice over Internet Protocol (VoIP) calls, application sharing, file transfer, and meetings. The usage data

can be used to calculate return on investment (ROI) and the diagnostic data can be used to troubleshoot peer-to-peer activities and meetings.

QUESTION 5

You perform a network readiness assessment for Lync deployment. The network includes a main office and 40 branch offices. The main office and 30 of the branch offices are located in North America and use a dedicated 20-megabits per second (Mbps) Multiprotocol Label Switching (MPLS) link.

The remaining 10 branch offices are located in India and are connected to the main office by a virtual private network (VPN) site-to-site link. Each branch office includes 100 clients and two multipurpose servers.

Employees from the branch offices will use the Lync client for peer-to-peer audio communications with employees at the main office.

You need to identify the number of offices required to test Lync readiness.

What is the minimum number of offices you should include?

- A. 2
- B. 3
- C. 40
- D. 41

Correct Answer: B

In practice, this end-to-end approach can be expensive to implement and difficult to maintain. This is why organizations often implement traffic prioritization at the WAN entry point of each location. An Introduction to Network Assessment Concepts: Microsoft Unified Communications

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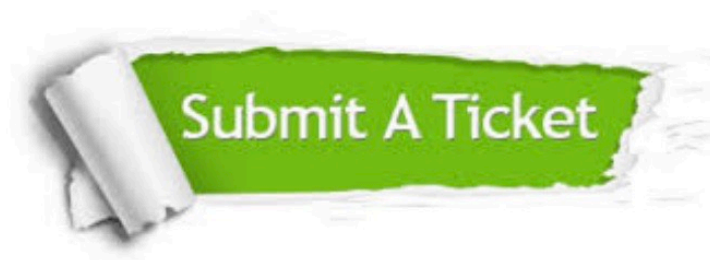
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