



70-663^{Q&As}

Pro: Designing and Deploying Messaging Solutions with Microsoft Exchange Server 2010

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QUESTION 1

You have an Exchange Server 2010 organization that contains two Client Access servers.

You deploy a Microsoft Internet Security and Acceleration (ISA) Server.

You need to recommend a high availability solution for the Client Access servers. The solution must meet the following requirements:

Ensure that Outlook Web App (OWA) connections are available if a single Client Access server fails
Ensure that client access services are available if a single service fails on a Client Access server

What should you recommend?

- A. Deploy a hardware load balancer.
- B. Deploy Windows Network Load Balancing.
- C. Publish each Client Access server in a separate publishing rule.
- D. Publish both Client Access servers in a single publishing rule as a Web server farm.

Correct Answer: D

QUESTION 2

You have an Exchange Server 2010 Service Pack 1 (SP1) organization.

You need to recommend tools that can be used to monitor the Exchange organization.

Which tool or cmdlet should you use to perform each task?

To answer, drag the appropriate tool or cmdlet to the correct task in the answer area.

Select and Place:



Tool/Cmdlet	Answer Area
Get-LogonStatistics	Tool/ Identify the largest mailboxes in the organization.
Get-Mailbox	Tool/ Identify the last time users accessed their Personal Archive.
Get-MailboxDatabase	Tool/ Identify the space available on the hard disks that contain the mailbox database.
Get-MailboxStatistics	
Performance Monitor	
Queue Viewer	
the Microsoft Exchange Troubleshooting Assistant	

Correct Answer:

Tool/Cmdlet	Answer Area
	Get-MailboxStatistics Identify the largest mailboxes in the organization.
Get-Mailbox	Get-LogonStatistics Identify the last time users accessed their Personal Archive.
Get-MailboxDatabase	Queue Viewer Identify the space available on the hard disks that contain the mailbox database.
Performance Monitor	
the Microsoft Exchange Troubleshooting Assistant	

QUESTION 3

You need to recommend a solution to minimize the number of remote SMTP hosts that identify email messages sent by A. Datum users as spam. What should you include in the recommendation?



- A. a service location (SRV) record in the public DNS zone of the liware.com domain
- B. a sender policy framework (SPF) record in the internal DNS zone of the litwareinc.com domain
- C. a sender policy framework (SPF) record in the public DNS zone of the litwareinc.com domain
- D. a sender policy framework (SPF) record in the public DNS zone of the adatum.com domain
- E. a sender policy framework (SPF) record in the internal DNS zone of the adatum.com domain
- F. a service location (SRV) record in the public DNS zone of the adatum.com domain

Correct Answer: D

QUESTION 4

Your network contains an Active Directory forest named contoso.com and two Active Directory sites named Site1 and Site2.

You plan to deploy an Exchange Server 2010 Service Pack 1 (SP1) organization. An independent consultant recommends a design for the Exchange Server 2010 SP1 deployment as shown in the following table.

Server name	Server role	Database name	Site name
DC1	Domain controller Global catalog Certification authority (CA) DNS	Not applicable	Site1
DC2	Domain controller Global catalog	Not applicable	Site2
EX1	Mailbox Client Access Hub Transport	Mailbox Database 1	Site1
EX2	Mailbox	Mailbox Database 2	Site1
EX3	Mailbox Client Access Hub Transport	Mailbox Database 3	Site2
EX4	Mailbox	Mailbox Database 4	Site2

You are evaluating the implementation of a Network Load Balancing cluster on the Exchange servers.

You need to identify which potential Exchange server configuration will prevent the implementation of the Network Load Balancing cluster.

What should you identify?

- A. DNS round robin on DC1 and DC2
- B. a database availability group (DAG)
- C. an activation preference for a database



- D. shadow redundancy
- E. EdgeSync synchronization
- F. a single copy cluster (SCC)
- G. Edge Transport server cloned configuration
- H. local continuous replication (LCR) on EX1, EX2, EX3, and EX4
- I. a Hosts file on EX1, EX2, EX3, and EX4
- J. Datacenter Activation Coordination (DAC) mode
- K. a DNS server on DC2
- L. delayed acknowledgments (ACKs)

Correct Answer: B

Before we continue, we need to discuss an important design consideration regarding the load balancing of the Client Access Server role. In the configuration presented above, the Client Access Server role is coexisting on the same servers as the Mailbox server role. Since the mailbox servers are part of a DAG, which itself uses Windows Failover Clustering, it is not possible to implement Windows Network Load Balancing (WNLB) as the high availability mechanism for the Client Access Server role. As explained in the Exchange 2010 product documentation, under the section titled "Two-member DAG in Single Datacenter/Active Directory Site", this is because WNLB and Windows Failover Clustering cannot be installed on the same server. Therefore, in this particular configuration, an external load balancing solution will be required, although that particular facet of configuration is outside the scope of this article.

<http://www.simple-talk.com/sysadmin/exchange/exchange-2010-dag-creation-and-configuration- part-1/>

QUESTION 5



Default mailbox database cache sizes

Server physical memory (RAM)	Database cache size: (Mailbox role only)
2GB	512 MB
4GB	1 GB
8GB	3.6 GB
16GB	10.4 GB
24GB	17.6 GB
32GB	24.4 GB
48GB	39.2 GB
64GB	53.6 GB
96GB	82.4 GB
128GB	111.2 GB

You are designing an Exchange organization for a company named Contoso, Ltd. All servers in the organization will have Exchange Server 2010 Service Pack 1 (SP1) installed.

Contoso has a partner company named Fabrikam, Inc. Fabrikam has an Exchange organization that contains only Exchange Server 2010 SP1 servers.

You plan to configure a federation trust between Fabrikam and Contoso.

You need to recommend a certificate for the federation trust.

Which of the following certificates is the best recommendation? (More than one answer choice may achieve the goal. Select the BEST answer.)

- A. a certificate from a third-party certification authority (CA)
- B. the self-signed certificate automatically generated by the Exchange 2010 Setup wizard
- C. the self-signed certificate automatically generated by the New Federation Trust wizard
- D. a certificate from an internal certification authority (CA)

Correct Answer: C



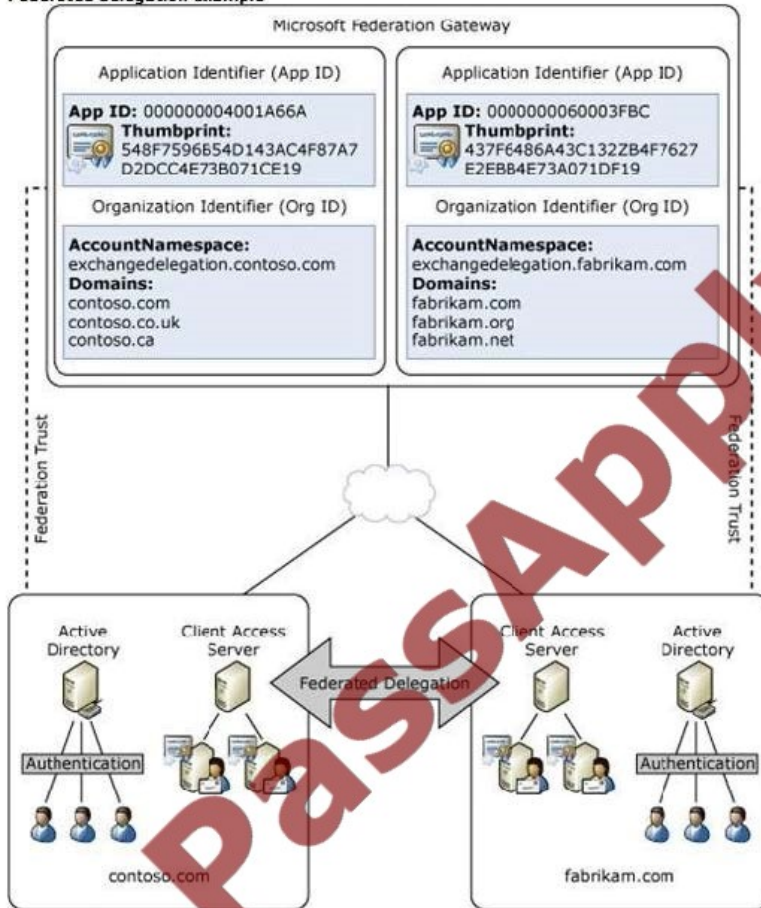
Federation Example

Two Exchange organizations, Contoso, Ltd. and Fabrikam, Inc., want their users to be able to share free/busy information with each other. Each organization creates a federation trust and configures its account namespace to include the domain used for its user's e-mail address domain.

Contoso employees use one of the following e-mail address domains: contoso.com, contoso.co.uk, or contoso.ca. Fabrikam employees use one of the following e-mail address domains: fabrikam.org, or fabrikam.net. Both organizations make sure that all accepted e-mail domains are included in the account namespace for their federation trust via requiring a complex Active Directory forest or domain trust configuration between the two organizations, both organizations configure an organization relationship.

The following figure illustrates the federation configuration between Contoso, Ltd. and Fabrikam, Inc.

Federated delegation example



Certificate Requirements for Federation

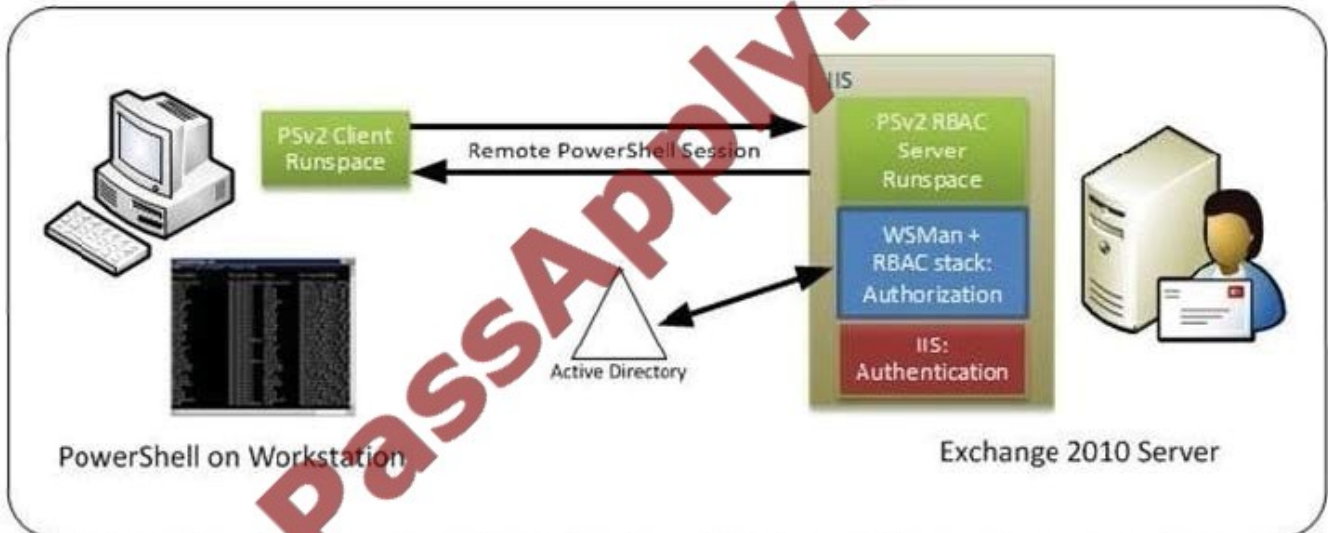
To establish a federation trust with the Microsoft Federation Gateway, either a self-signed certificate or an X.509 certificate signed by a certification authority (CA) server used to create the trust. We recommend using a self-signed certificate, which can be automatically created and installed using the New Federation Trust wizard and encrypt delegation tokens used for federated delegation. Only one certificate is required for the federation trust. Exchange 2010 automatically distributes the certificate to the Client Access Servers in the organization.

QUESTION 6



To start off, you first need to be aware that in Exchange 2010, all management is done via Remote PowerShell, even when opening the ManagementTools on an Exchange server. Where this differs from Exchange 2007 is that there is now a much larger dependency on IIS, as Remote PowerShell requests are sent via the HTTP protocol and use IIS as the mechanism for connections. IIS works with the WinRM (Windows Remote Management) service, and the WSMAN (Web Services for Management) protocol to initiate the connection.

When you click on the Exchange Management Shell shortcut, a Remote PowerShell session is opened. Instead of simply loading the Exchange snap-in (as we did with Exchange 2007), PowerShell connects using IIS to the closest Exchange 2010 server via WinRM. WinRM then performs authentication checks, creates the remote session and presents to you the cmdlets that you have access to via RBAC (Role Based Access Control).



Since all Remote PowerShell connections go through IIS, we have identified some of the most common errors that may be exhibited when attempting to open the Exchange Management tools along with the most common causes of those errors and how to address these issues. We have attempted to list these in order of frequency.

Your network contains two Active Directory site. The sites connect to each other by using a WAN link.

You plan to deploy two Exchange Server 2010 Mailbox servers and two Client Access servers in each site. Each site will contain a Client Access array.

You need to recommend a solution to deploy Hub Transport servers.

The solution must meet the following requirements: Continue to deliver e-mail messages to users in other sites if a single Hub Transport server fails Support the planned Client Access array deployment Minimize the number of Exchange servers

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

- A. Add the Hub Transport server role to each Mailbox server.
- B. Add the Hub Transport server role to each Client Access server.
- C. Deploy two Hub Transport servers on two new servers in each site.
- D. Deploy one Hub Transport server on a new server and then install the SMTP service on each Client Access server.

Correct Answer: AB



QUESTION 7

You need to recommend changes to the Exchange organization of Litware. The changes must support the SMTP domains of A. Datum. The solution must meet the security requirements of A. Datum. What should you recommend?

- A. Create an accepted domain for each A. Datum SMTP domain and configure the new domains as external relay domains.
- B. Create an accepted domain for each A. Datum SMTP domain and configure the new domains as internal relay domains.
- C. Create a remote domain for each A. Datum SMTP domain.
- D. Create an accepted domain for each A. Datum SMTP domain and configure the new domains as authoritative domains.

Correct Answer: B

QUESTION 8

You have an Exchange Server 2010 organization.

You need to recommend a client access solution that meets the following requirements:

Reduces the time required for users to reconnect to user mailboxes if a single Client Access server fails
Prevents users from being prompted for authentication if a single Client Access server fails

What should you recommend?

- A. Client Access server array and hardware load balancer
- B. database availability group (DAG) and hardware load-balancer
- C. failover clustering and database availability group (DAG)
- D. Windows Network Load Balancing and failover clustering

Correct Answer: A

Understanding Load Balancing in Exchange 2010 Load balancing is a way to manage which of your servers receive traffic. Load balancing provides failover redundancy to ensure your users continue to receive Exchange service in case of computer failure. It also enables your deployment to handle more traffic than one server can process while offering a single host name for your clients. In addition to load balancing, Microsoft Exchange Server 2010 provides several solutions for switchover and failover redundancy. These solutions include the following: High availability and site resilience

You can deploy two Active Directory sites in separate geographic locations, keep the mailbox data synchronized between the two, and have one of the sites take on the entire load if the other fails. Exchange 2010 uses database availability groups (DAGs) to keep multiple copies of your mailboxes on different servers synchronized. Online mailbox moves In an online mailbox move, end users can access their e-mail accounts during the move. Users are only locked out of their accounts for a brief time at the end of the process, when the final synchronization occurs. Online mailbox moves are supported between Exchange 2010 databases and between Exchange Server 2007 Service Pack 3 (SP3) or a later version of Exchange 2007 and Exchange 2010 databases. You can perform online mailbox moves across forests



or in the same forest.

Shadow redundancy Shadow redundancy protects the availability and recoverability of messages while they're in transit. With shadow redundancy, the deletion of a message from the transport databases is delayed until the transport server verifies that all the next hops for that message have completed. If any of the next hops fail before reporting successful delivery, the message is resubmitted for delivery to the hop that didn't complete. Load balancing serves two primary purposes. It reduces the impact of a single Client Access server failure within one of your Active Directory sites. In addition, load balancing ensures that the load on your Client Access server and Hub Transport computers is evenly distributed. Architectural Changes in Exchange 2010

Load Balancing Several changes in Exchange 2010 make load balancing important for your organization. The Exchange RPC Client Access service and the Exchange Address Book service on the Client Access server role improve the user's experience during Mailbox failovers by moving the connection endpoints for mailbox access from Outlook and other MAPI clients to the Client Access server role instead of to the Mailbox server role. In earlier versions of Exchange, Outlook connected directly to the Mailbox server hosting the user's mailbox, and directory connections were either proxied through the Mailbox server role or referred directly to a particular Active Directory global catalog server. Now that these connections are handled by the Client Access server role, both external and internal Outlook connections must be load balanced across the array of Client Access servers in a deployment to achieve fault tolerance. A load-balanced array of Client Access servers is recommended for each Active Directory site and for each version of Exchange. It isn't possible to share one load-balanced array of Client Access servers for multiple Active Directory sites or to mix different versions of Exchange or service pack versions of Exchange within the same array. When you install Exchange 2010 within your existing organization and configure a legacy namespace for coexistence with previous versions of Exchange, your clients will automatically connect to the Exchange 2010 Client Access server or server array. The Exchange 2010 Client Access server or Client Access server array will then proxy or redirect client requests for mailboxes on older Exchange versions to either Exchange 2003 front-end servers or Exchange 2007 Client Access servers that match the mailbox version

QUESTION 9

You need to recommend changes to the mailboxes to meet the user requirements for the portable computers. What should you include in the recommendation?

- A. message classifications
- B. message size limits
- C. Personal Archives
- D. disabled Cached Exchange Mode
- E. folder redirection

Correct Answer: C

QUESTION 10

You have an Exchange Server 2010 organization.

You need to recommend a solution that prevents the permanent deletion of e-mail messages from the mailboxes of employee who have been dismissed from the company.



What should you recommend?

- A. Implement managed folders.
- B. Implement a legal hold for each mailbox.
- C. Implement a Retention Policy for each mailbox.
- D. Implement an Outlook Protection Rule for each mailbox.

Correct Answer: B

QUESTION 11

You have an Exchange Server 2010 organization. Your company's legal department sends compliance e-mail messages by adding recipients to the blind carbon copy (Bcc) field.

The company's compliance policy includes the following requirements:

All e-mail messages sent to external recipients must be archived in a central repository. Compliance officers must be able to identify all the recipients of archived e-mail messages.

You need to recommend a solution to meet the compliance policy requirements. What should you recommend?

- A. journal rules
- B. message tracking
- C. Personal Archives
- D. transport rules

Correct Answer: A

Journaling is the ability to record all communications, including e-mail communications, in an organization for use in the organization's e-mail retention or archival strategy. To meet an increasing number of regulatory and compliance requirements, many organizations must maintain records of communications that occur when employees perform daily business tasks. Archiving refers to backing up the data, removing it from its native environment, and storing it elsewhere, therefore reducing the strain of data storage. You may use Exchange journaling as a tool in your e-mail retention or archival strategy. Although journaling may not be required by a specific regulation, compliance may be achieved through journaling under certain regulations. For example, corporate officers in some financial sectors may be held liable for the claims made by their employees to their customers. To verify that the claims are accurate, a corporate officer may set up a system where managers review some part of employee-to-client communications regularly. Every quarter, the managers verify compliance and approve their employees' conduct. After all managers report approval to the corporate officer, the corporate officer reports compliance, on behalf of the company, to the regulating body. In this example, e-mail messages might be one type of the employee-to-client communications that managers must review; therefore, journaling can be used to collect all e-mail messages sent by client-facing employees. Other client communication mechanisms may include faxes and telephone conversations, which may also be subject to regulation. The ability to journal all classes of data in an enterprise is a valuable functionality of the IT architecture.

QUESTION 12

A corporate environment includes Active Directory Domain Services (AD DS). The environment consists of an internal



network and a perimeter network. AD DS is deployed only on the internal network.

The company intends to utilize a service providers cloud-based Exchange Server 2010 SP1 email service. You have the following requirements:

Maximize the security of the design.

Use the minimum permissions required to perform directory synchronization.

You need to recommend a solution for directory synchronization between the corporate environment and the service providers environment.

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

Choose two.)

- A. Install the directory synchronization tool on a computer in the perimeter network.
- B. Install the directory synchronization tool on a computer on the internal network.
- C. Create a directory synchronization service account with membership in the Domain Users group.
- D. Create a directory synchronization service account with membership in the Domain Admins group.

Correct Answer: BC

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