



AZ-304^{Q&As}

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QUESTION 1

You are developing a sales application that will contain several Azure cloud services and will handle different components of a transaction. Different cloud services will process customer orders, billing, payment, inventory, and shipping.

You need to recommend a solution to enable the cloud services to asynchronously communicate transaction information by using REST messages.

What would you include in the recommendation?

- A. Azure Traffic Manager
- B. Azure Data Lake
- C. Azure Blob storage
- D. Azure Service Bus
- E. Azure Application Gateway

Correct Answer: D

Asynchronous messaging can be implemented in a variety of different ways. With queues, topics, and subscriptions, Azure Service Bus supports asynchronism via a store and forward mechanism.

Reference: <https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-async-messaging>

QUESTION 2

HOTSPOT

Your company has three branch offices and an Azure subscription. Each branch office contains a Hyper-V host that hosts application servers.

You need to recommend a storage solution for the branch offices. The solution must ensure that the application servers can connect to a central storage device by using iSCSI connections. Data saved to the iSCSI storage device from the

application servers must be uploaded to Azure automatically.

Which components should you include in the recommendation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

Branch office Hyper-V hosts:

| | |
|-------------------------------------|---|
| | ▼ |
| Azure File Sync agent | |
| Azure Site Recovery agent | |
| Azure StorSimple Virtual Array | |
| Distributed File System Replication | |

Azure subscription:

| | |
|---------------------------|---|
| | ▼ |
| Azure file share | |
| Azure File Sync | |
| Azure Site Recovery vault | |
| Azure Storage account | |

Correct Answer:

Answer Area

Branch office Hyper-V hosts:

| | |
|-------------------------------------|---|
| | ▼ |
| Azure File Sync agent | |
| Azure Site Recovery agent | |
| Azure StorSimple Virtual Array | |
| Distributed File System Replication | |

Azure subscription:

| | |
|---------------------------|---|
| | ▼ |
| Azure file share | |
| Azure File Sync | |
| Azure Site Recovery vault | |
| Azure Storage account | |

Reference: <https://docs.microsoft.com/en-us/azure/storsimple/storsimple-ova-overview>

QUESTION 3

Note: This question is a part of series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.



Your company has an on-premises data center and an Azure subscription. The on-premises data center contains a Hardware Security Module (HSM).

Your network contains an Active Directory domain that is synchronized to an Azure Active Directory (Azure AD) tenant.

The company is developing an application named Application1. Application1 will be hosted in Azure by using 10 virtual machines that run Windows Server 2016. Five virtual machines will be in the West Europe Azure region and five virtual machines will be in the East US Azure region. The virtual machines will store sensitive company information. All the virtual machines will use managed disks.

You need to recommend a solution to encrypt the virtual machine disks by using BitLocker Drive Encryption (BitLocker).

Solution: Export a security key from the on-premises HSM. Create one Azure AD service principal. Configure the virtual machines to use Azure Storage Service Encryption.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

We use the Azure Premium Key Vault with Hardware Security Modules (HSM) backed keys. The Key Vault has to be in the same region as the VM that will be encrypted.

Reference: <https://www.ciraltos.com/azure-disk-encryption-v2/>

QUESTION 4

HOTSPOT

You are designing an Azure web app.

You plan to deploy the web app to the North Europe Azure region and the West Europe Azure region.

You need to recommend a solution for the web app. The solution must meet the following requirements:

1.

Users must always access the web app from the North Europe region, unless the region fails.

2.

The web app must be available to users if an Azure region is unavailable.

3.

Deployment costs must be minimized.

What should you include in the recommendation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



Hot Area:

Answer Area

Request routing method:

| | |
|---------------------------|---|
| | ▼ |
| A Traffic Manager profile | |
| Azure Application Gateway | |
| Azure Load Balancer | |

Request routing configuration:

| | |
|-------------------------------|---|
| | ▼ |
| Cookie-based session affinity | |
| Performance traffic routing | |
| Priority traffic routing | |
| Weighted traffic routing | |

Correct Answer:

Answer Area

Request routing method:

| | |
|---------------------------|---|
| | ▼ |
| A Traffic Manager profile | |
| Azure Application Gateway | |
| Azure Load Balancer | |

Request routing configuration:

| | |
|-------------------------------|---|
| | ▼ |
| Cookie-based session affinity | |
| Performance traffic routing | |
| Priority traffic routing | |
| Weighted traffic routing | |



QUESTION 5

HOTSPOT

You have two on-premises file servers named Server1 and Server2. The servers contain data files in the folders shown in the following table.

| Name | Server | Path |
|---------|---------|----------------------|
| Folder1 | Server1 | D:\Data\Folder1 |
| Folder2 | Server1 | D:\Data\Sub\Folder2 |
| Folder3 | Server2 | D:\Documents\Folder3 |

You have resources in an Azure Storage account named storage1 as shown in the following table.

| Name | Type |
|------------|----------------|
| container1 | Blob container |
| container2 | Blob container |
| share1 | File share |

You plan to use Azure Data Factory to copy the data files to the folders shown in the following table.

| Folder | Azure resource |
|---------|----------------|
| Folder1 | container1 |
| Folder2 | container2 |
| Folder3 | share1 |

You need to identify the minimum number of connections and datasets that you must create in Data Factory. The solution must prevent other data files in the subfolders of D:\Data from being copied to Azure.

How many connections and datasets should you identify? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

Connections

| | ▼ |
|---|---|
| 2 | |
| 3 | |
| 4 | |
| 6 | |

Datasets

| | ▼ |
|---|---|
| 2 | |
| 3 | |
| 4 | |
| 6 | |

Correct Answer:



Answer Area

Connections

| | ▼ |
|---|---|
| 2 | |
| 3 | |
| 4 | |
| 6 | |

Datasets

| | ▼ |
|---|---|
| 2 | |
| 3 | |
| 4 | |
| 6 | |

Box 1: 2

The Azure Storage and Azure SQL Database linked services contain connection strings that Data Factory uses at runtime to connect to your Azure Storage and Azure SQL Database, respectively.

Box 2: 3

A dataset is a named view of data that simply points or references the data you want to use in your activities as inputs and outputs.

Datasets identify data within different data stores, such as tables, files, folders, and documents. For example, an Azure Blob dataset specifies the blob container and folder in Blob storage from which the activity should read the data.

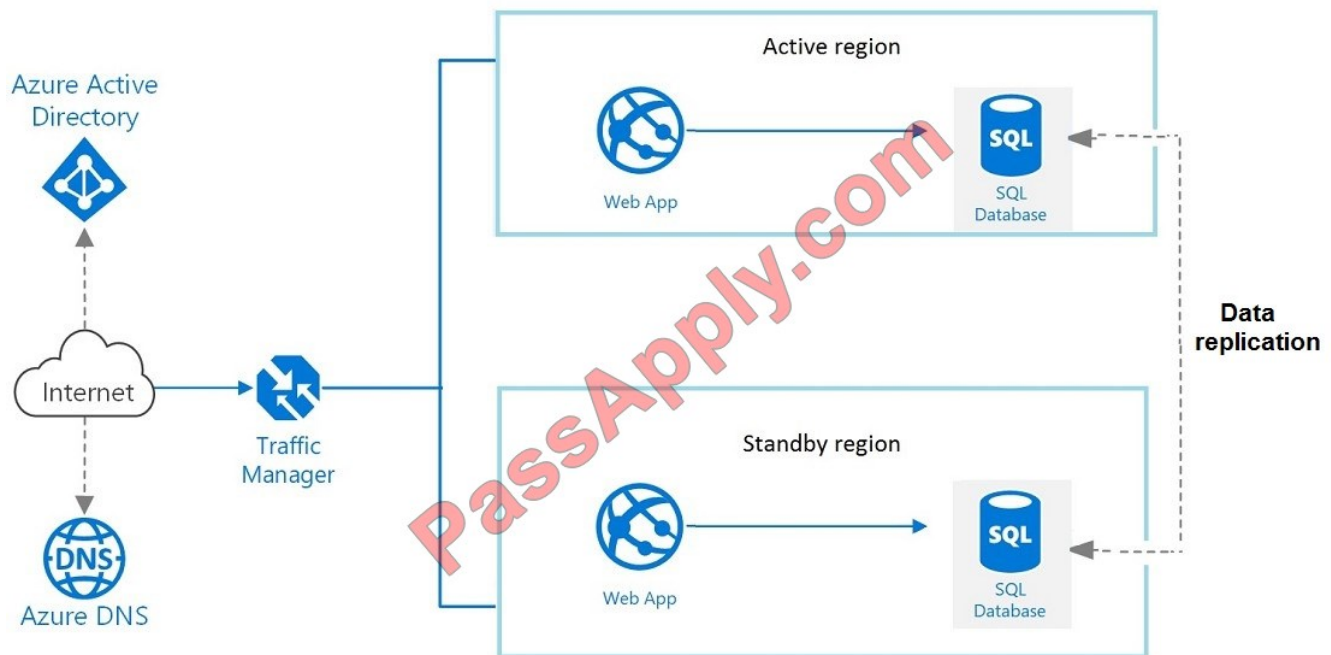
Reference:

<https://docs.microsoft.com/en-us/azure/data-factory/concepts-datasets-linked-services>

QUESTION 6

HOTSPOT

You have the application architecture shown in the following exhibit.



Use the drop-down menus to select choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

Hot Area:

To change the front end to an active/active architecture in which both regions process incoming connections, you must **[answer choice]**.

- add a load balancer to each region
- add an Azure Application Gateway to each region
- add an Azure content delivery network (CDN)
- modify the Traffic Manager routing method

To control the threshold for failing over the front end to the standby region, you must configure the **[answer choice]**.

- an Application Insights availability test
- Azure SQL Database failover groups
- Connection Monitor in Azure Network Watcher
- Endpoint monitor settings in Traffic Manager

Correct Answer:



To change the front end to an active/active architecture in which both regions process incoming connections, you must **[answer choice]**.

| | |
|---|---|
| | ▼ |
| add a load balancer to each region | |
| add an Azure Application Gateway to each region | |
| add an Azure content delivery network (CDN) | |
| modify the Traffic Manager routing method | |

To control the threshold for failing over the front end to the standby region, you must configure the **[answer choice]**.

| | |
|--|---|
| | ▼ |
| an Application Insights availability test | |
| Azure SQL Database failover groups | |
| Connection Monitor in Azure Network Watcher | |
| Endpoint monitor settings in Traffic Manager | |

Box 1: Modify the Azure Traffic Manager routing

Azure Traffic Manager supports six traffic-routing methods to determine how to route network traffic to the various service endpoints.

Box 2: Endpoint monitor settings in the Azure Traffic Manager

Azure Traffic Manager includes built-in endpoint monitoring and automatic endpoint failover. This feature helps you deliver high-availability applications that are resilient to endpoint failure, including Azure region failures.

To configure endpoint monitoring, you must specify the following settings on your Traffic Manager profile: Protocol, Port, Path, custom header settings, etc.

Reference:

<https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-routing-methods>

<https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-monitoring>

QUESTION 7

You have a hybrid deployment of Azure Active Directory (Azure AD).

You need to recommend a solution to ensure that the Azure AD tenant can be managed only from the computers on your on-premises network.

What should you include in the recommendation?

- A. Azure AD roles and administrators
- B. a conditional access policy
- C. Azure AD Application Proxy
- D. Azure AD Privileged Identity Management

Correct Answer: B



QUESTION 8

You need to recommend a solution for protecting the content of the back-end tier of the payment processing system. What should you include in the recommendations?

- A. Always Encrypted with deterministic encryption
- B. Transparent Data Encryption (TDE)
- C. Azure Storage Service Encryption
- D. Always Encrypted with randomized encryption

Correct Answer: A

QUESTION 9

A company has deployed several applications across Windows and Linux Virtual machines in Azure. Log Analytics are being used to send the required data for alerting purposes for the Virtual Machines.

You need to recommend which tables need to be queried for security related queries.

Which of the following would you query for events from Windows Event Logs?

- A. Azure Activity
- B. Azure Diagnostics
- C. Event
- D. Syslog

Correct Answer: C

This is also given in the Microsoft documentation, wherein you would use the Event Table for the queries on events from Windows Virtual machines



Log queries with Windows Events

The following table provides different examples of log queries that retrieve Windows Event records.

| Query | Description |
|---|--|
| Event | All Windows events. |
| Event where EventLevelName == "error" | All Windows events with severity of error. |
| Event summarize count() by Source | Count of Windows events by source. |
| Event where EventLevelName == "error" summarize count() by Source | Count of Windows error events by source. |

Since this is clearly mentioned, all other options are incorrect For more information on collecting event data from windows virtual machines, please go ahead and visit the below URL.

Reference: <https://docs.microsoft.com/en-us/azure/azure-monitor/platform/data-sources-windows-events>

QUESTION 10

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen. You have an Azure Storage account that contains two 1-GB data files named File1 and File2.

The data files are set to use the archive access tier. You need to ensure that File1 is accessible immediately when a retrieval request is initiated. Solution: You add a new file share to the storage account.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

QUESTION 11

You need to recommend a notification solution for the IT Support distribution group. What should you include in the recommendation?

A. a SendGrid account with advanced reporting

B. Azure AD Connect Health

C. Azure Network Watcher

D. an action group

Correct Answer: B

Reference: <https://docs.microsoft.com/en-us/azure/active-directory/hybrid/how-to-connect-health-operations>

QUESTION 12

You have 100 Standard_F2s_v2 Azure virtual machines. Each virtual machine has two network adapters.

You need to increase the network performance of the workloads running on the virtual machines. The solution must meet the following requirements:

1.

The CPU-to-memory ratio must remain the same.

2.

The solution must minimize costs. What should you do?

A. Configure NIC teaming

B. Enable RDMA over InfiniBand

C. Enable Accelerated Networking.

D. Install an additional network adapter

Correct Answer: C

Accelerated networking enables single root I/O virtualization (SR-IOV) to a VM, greatly improving its networking performance. This high-performance path bypasses the host from the datapath, reducing latency, jitter, and CPU utilization, for use with the most demanding network workloads on supported VM types.

Reference: <https://docs.microsoft.com/en-us/azure/virtual-network/create-vm-accelerated-networking-cli>

QUESTION 13

You need to ensure that all the virtual machines in the resource groups are available in one region during platform updates. What should you modify?

NOTE: To answer this question, sign in to the Azure portal and explore the Azure resource groups.

A. the number of update domains

B. the number of virtual machines in the availability set

C. the replication settings of the storage account

D. the number of fault domains



Correct Answer: A

Update Domain When you created VMs on the IaaS service model, then Microsoft is not responsible for automatic system updates. You have complete control over that. The planned maintenance event comes in this phase, where we planned for server or virtual machine updating.

Sometimes we need to update some own software, or some updates come from Microsoft due to performance, security, etc. it is not automatically updated your virtual machine, then we need to plan it for updates. So how is that done without taking your service offline? Update Domains.

References: <https://azure.codefari.com/2018/12/what-are-availability-set-fault-domain.html>

QUESTION 14

HOTSPOT

To meet the authentication requirements of Fabrikam, what should you include in the solution? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

Minimum number of Azure AD tenants:

| |
|---|
| 0 |
| 1 |
| 2 |
| 3 |
| 4 |

Minimum number of custom domains to add:

| |
|---|
| 0 |
| 1 |
| 2 |
| 3 |
| 4 |

Minimum number of conditional access policies to create:

| |
|---|
| 0 |
| 1 |
| 2 |
| 3 |
| 4 |

Correct Answer:



Answer Area

Minimum number of Azure AD tenants:

| |
|---|
| 0 |
| 1 |
| 2 |
| 3 |
| 4 |

Minimum number of custom domains to add:

| |
|---|
| 0 |
| 1 |
| 2 |
| 3 |
| 4 |

Minimum number of conditional access policies to create:

| |
|---|
| 0 |
| 1 |
| 2 |
| 3 |
| 4 |

Box 1: 2 The network contains two Active Directory forests named corp.fabrikam.com and rd.fabrikam.com. There are no trust relationships between the forests. Box 2: 1 Box 3: 1 Scenario:

1.

Users access to the Azure portal mu on the on-premises network must be able to authenticate to corp.fabrikam.com if an Internet link fails.

2.

Administrators must be able authenticate to the Azure portal by using their corp.fabrikam.com credentials.

3.

All administrativest be secured by using multi-factor authentication.

Note:

Users must always authenticate by using their corp.fabrikam.com UPN identity.

The network contains two Active Directory forests named corp.fabrikam.com and rd.fabrikam.com. There are no trust relationships between the forests.



Corp.fabrikam.com is a production forest that contains identities used for internal user and computer authentication.

Rd.fabrikam.com is used by the research and development (RandD) department only.

QUESTION 15

You need to design a solution that will execute custom C# code in response to an event routed to Azure Event Grid. The solution must meet the following requirements:

The executed code must be able to access the private IP address of a Microsoft SQL Server instance that runs on an Azure virtual machine.

Costs must be minimized.

What should you include in the solution?

- A. Azure Logic Apps in the integrated service environment
- B. Azure Functions in the Dedicated plan and the Basic Azure App Service plan
- C. Azure Logic Apps in the Consumption plan
- D. Azure Functions in the Consumption plan

Correct Answer: D

When you create a function app in Azure, you must choose a hosting plan for your app. There are three basic hosting plans available for Azure Functions: Consumption plan, Premium plan, and Dedicated (App Service) plan.

For the Consumption plan, you don't have to pay for idle VMs or reserve capacity in advance.

Connect to private endpoints with Azure Functions

As enterprises continue to adopt serverless (and Platform-as-a-Service, or PaaS) solutions, they often need a way to integrate with existing resources on a virtual network. These existing resources could be databases, file storage, message

queues or event streams, or REST APIs.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-scale> <https://techcommunity.microsoft.com/t5/azure-functions/connect-to-private-endpoints-with-azure-functions/ba-p/1426615>



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