



AZ-301^{Q&As}

Microsoft Azure Architect Design

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**QUESTION 1****HOTSPOT**

You need to recommend a solution for the data store of the historical transaction query system.

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:

Sizing requirements:

	▼
A table that has unlimited capacity	
A table that has a fixed capacity	
Multiple tables that have unlimited capacity	
Multiple tables that have fixed capacity	

Resiliency:

	▼
An additional read region	
An availability set	
An availability zone	

Correct Answer:

Sizing requirements:

	▼
A table that has unlimited capacity	
A table that has a fixed capacity	
Multiple tables that have unlimited capacity	
Multiple tables that have fixed capacity	

Resiliency:

	▼
An additional read region	
An availability set	
An availability zone	



QUESTION 2

You need to recommend a data storage strategy for WebApp1. What should you include in the recommendation?

- A. an Azure SQL Database elastic pool
- B. a vCore-based Azure SQL database
- C. an Azure virtual machine that runs SQL Server
- D. a fixed-size DTU Azure SQL database.

Correct Answer: B

QUESTION 3

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 on-premises Hyper-V clusters that hosts 20 virtual machines. Some virtual machines run Windows Server 2016 and some run Linux.

You plan to migrate the virtual machines to an Azure subscription.

You need to recommend a solution to replicate the disks of the virtual machines to Azure. The solution must ensure that the virtual machines remain available during the migration of the disks.

Solution: You recommend implementing an Azure Storage account, and then running AzCopy.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

AzCopy only copy files, not the disks. Instead use Azure Site Recovery.

References: <https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-overview>

QUESTION 4



HOTSPOT

You plan to deploy logical Azure SQL Database servers to the East US Azure region and the West US Azure region. Each server will contain 20 databases. Each database will be accessed by a different user who resides in a different on-premises location. The databases will be configured to use active geo-replication.

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

1.

Restricts user access to each database

2.

Restricts network access to each database based on each user's respective location

3.

Ensures that the databases remain accessible from client applications if the local Azure region fails

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

Configure user access by using:

	▼
Azure PowerShell	
The REST API	
Transact-SQL	

Configure database-level firewall rules by using:

	▼
Azure PowerShell	
The REST API	
Transact-SQL	

Correct Answer:



Answer Area

Configure user access by using:

	▼
Azure PowerShell	
The REST API	
Transact-SQL	

Configure database-level firewall rules by using:

	▼
Azure PowerShell	
The REST API	
Transact-SQL	

QUESTION 5

You manage an application instance. The application consumes data from multiple databases. Application code references database tables using a combination of the server, database, and table name.

You need to migrate the application instance to Azure.

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

NOTE: Each correct selection is worth one point.

- A. SQL Server Stretch Database
- B. SQL Server in an Azure virtual machine
- C. Azure SQL Database
- D. SQL Managed Instance

Correct Answer: AD

A: Access your SQL Server data seamlessly regardless of whether it's on-premises or stretched to the cloud. You set the policy that determines where data is stored, and SQL Server handles the data movement in the background. The entire table is always online and queryable. And, Stretch Database doesn't require any changes to existing queries or applications - the location of the data is completely transparent to the application.

D: The managed instance deployment model is designed for customers looking to migrate a large number of apps from on-premises or IaaS, self-built, or ISV provided environment to fully managed PaaS cloud environment, with as low migration effort as possible. Using the fully automated Data Migration Service (DMS) in Azure, customers can lift and shift their on-premises SQL Server to a managed instance that offers compatibility with SQL Server on-premises and complete isolation of customer instances with native VNet support.

Reference: <https://docs.microsoft.com/en-us/sql/sql-server/stretch-database/stretch-database>



<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-managed-instance>

QUESTION 6

You are designing a container solution in Azure that will include two containers. One container will host a web API that will be available to the public. The other container will perform health monitoring of the web API and will remain private.

The two containers will be deployed together as a group.

You need to recommend a compute service for the containers. The solution must minimize costs and maintenance overhead.

What should you include in the recommendation?

- A. Azure Service Fabric
- B. Azure Container Service
- C. Azure Kubernetes Service (AKS)
- D. Azure Container Instances

Correct Answer: D

Azure Container Instances supports the deployment of multiple containers onto a single host using a container group. A container group is useful when building an application sidecar for logging, monitoring, or any other configuration where a service needs a second attached process.

Reference: <https://docs.microsoft.com/en-us/azure/container-instances/container-instances-multi-container-group>

QUESTION 7

HOTSPOT

You are designing a software as a service (SaaS) application that will enable Azure Active Directory (Azure AD) users to create and publish surveys. The SaaS application will have a front-end web app and a back-end web API. The web app

will rely on the web API to handle updates to customer surveys.

You need to design an authorization flow for the SaaS application. The solution must meet the following requirements:

1.

To access the back-end web API, the web app must authenticate by using OAuth 2 bearer tokens.

2.

The web app must authenticate by using the identities of individual users.

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:

The access tokens will be generated by:

Azure AD
A web app
A web API

Authorization decisions will be performed by:

Azure AD
A web app
A web API

Correct Answer:

The access tokens will be generated by:

Azure AD
A web app
A web API

Authorization decisions will be performed by:

Azure AD
A web app
A web API

Reference: <https://docs.microsoft.com/lb-lu/azure/architecture/multitenant-identity/web-api>

<https://docs.microsoft.com/en-us/azure/active-directory/develop/quickstart-v1-dotnet-webapi>

QUESTION 8

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 SR-IOV
- 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 9

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: For File1, you set Access tier to Cool.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Instead use the hot access tier.

The hot access tier has higher storage costs than cool and archive tiers, but the lowest access costs. Example usage scenarios for the hot access tier include:

1.

Data that's in active use or expected to be accessed (read from and written to) frequently.

2.

Data that's staged for processing and eventual migration to the cool access tier.

References: <https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers>

**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 v2 account named Storage1.

You plan to archive data to Storage1.

You need to ensure that the archived data cannot be deleted for five years. The solution must prevent administrators from deleting the data.

Solution: You create an Azure Blob storage container, and you configure a legal hold access policy.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

Immutable storage for Azure Blob storage enables users to store business-critical data objects in a WORM (Write Once, Read Many) state. This state makes the data non-erasable and non-modifiable for a user-specified interval. For the duration of the retention interval, blobs can be created and read, but cannot be modified or deleted. Immutable storage is available for general-purpose v2 and Blob storage accounts in all Azure regions.

Note: Set retention policies and legal holds

1.

Create a new container or select an existing container to store the blobs that need to be kept in the immutable state. The container must be in a general-purpose v2 or Blob storage account.

2.

Select Access policy in the container settings. Then select Add policy under Immutable blob storage.

Either

3a. To enable legal holds, select Add Policy. Select Legal hold from the drop-down menu.

Or

3b. To enable time-based retention, select Time-based retention from the drop-down menu.

4. Enter the retention interval in days (acceptable values are 1 to 146000 days).

References: <https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-immutable-storage>



<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-immutability-policies-manage>

QUESTION 11

You manage a solution in Azure.

You must collect usage data including MAC addresses from all devices on the network.

You need to recommend a monitoring solution.

What should you recommend?

- A. Activity Log Analytics
- B. Azure Network Security Group Analytics
- C. Network Performance Monitor
- D. Azure Application Gateway Analytics
- E. Azure Wire Data

Correct Answer: B

A network security group (NSG) includes rules that allow or deny traffic to a virtual network subnet, network interface, or both. When you enable diagnostic logging for an NSG, you can log the following categories of information:

Event: Entries are logged for which NSG rules are applied to VMs, based on MAC address. The status for these rules is collected every 60 seconds. Rule counter: Contains entries for how many times each NSG rule is applied to deny or allow traffic.

Reference: <https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-nsg-manage-log>

QUESTION 12

HOTSPOT

You plan to deploy the backup policy shown in the following exhibit.



Policy1

Associated items Delete Save Discard

Backup frequency

Daily 6:00 PM (UTC) Coordinated Universal Time

Retention range

☒ Retention of daily backup point.

* At 6:00 PM For 90 Day(s)

☒ Retention of weekly backup point.

* On Sunday * At 6:00 PM For 26 Week(s)

☒ Retention of monthly backup point.

Week Based Day Based

* On First * Day Sunday * At 6:00 PM For 36 Month(s)

☐ Retention of yearly backup point.

Not Configured

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

NOTE: Each correct selection is worth one point.

Hot Area:



Virtual machines that are backed up using the policy can be recovered for up to a maximum of [answer choice]

▼
90 days
26 weeks
36 months
45 months

The minimum recovery point objective (RPO) for virtual machines that are backed up by using the policy is [answer choice]

▼
1 hour
1 day
1 week
1 month
1 year

Correct Answer:



Virtual machines that are backed up using the policy can be recovered for up to a maximum of [answer choice]

▼
90 days
26 weeks
36 months
45 months

The minimum recovery point objective (RPO) for virtual machines that are backed up by using the policy is [answer choice]

▼
1 hour
1 day
1 week
1 month
1 year

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