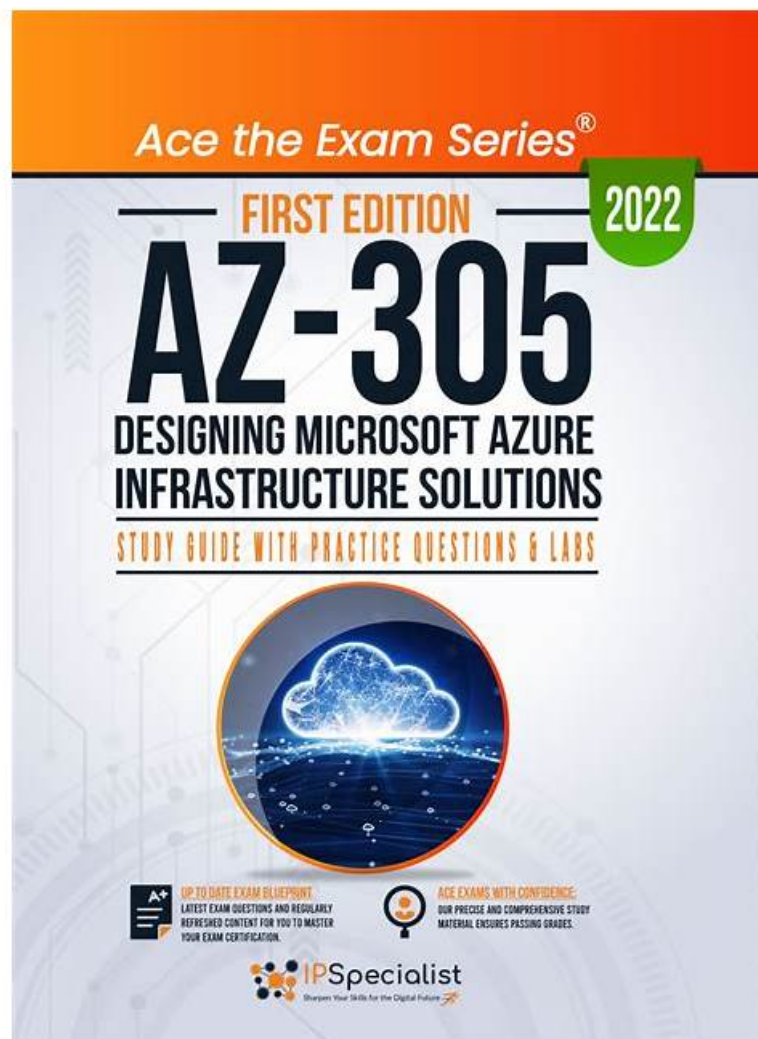


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Microsoft Designing Microsoft Azure Infrastructure Solutions Sample Questions (Q288-Q293):

NEW QUESTION # 288

You have an on-premises file server that stores 2 TB of data files.

You plan to move the data files to Azure Blob storage in the Central Europe region.

You need to recommend a storage account type to store the data files and a replication solution for the storage account. The solution must meet the following requirements:

Be available if a single Azure datacenter fails.

Support storage tiers.

Minimize cost.

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

NOTE: Each correct selection is worth one point.

Account type:

▼
Blob storage
Storage (general purpose v1)
StorageV2 (general purpose v2)

Replication solution:

▼
Geo-redundant storage (GRS)
Zone-redundant storage (ZRS)
Locally-redundant storage (LRS)
Read-access geo-redundant storage (RA-GRS)

Answer:

Explanation:

Account type:	<table border="1"><tr><td>Microsoft ▼</td></tr><tr><td>Blob storage</td></tr><tr><td>Storage (general purpose v1)</td></tr><tr><td>StorageV2 (general purpose v2)</td></tr></table>	Microsoft ▼	Blob storage	Storage (general purpose v1)	StorageV2 (general purpose v2)	
Microsoft ▼						
Blob storage						
Storage (general purpose v1)						
StorageV2 (general purpose v2)						
Replication solution:	<table border="1"><tr><td>▼</td></tr><tr><td>Geo-redundant storage (GRS)</td></tr><tr><td>Zone-redundant storage (ZRS)</td></tr><tr><td>Locally-redundant storage (LRS)</td></tr><tr><td>Read-access geo-redundant storage (RA-GRS)</td></tr></table>	▼	Geo-redundant storage (GRS)	Zone-redundant storage (ZRS)	Locally-redundant storage (LRS)	Read-access geo-redundant storage (RA-GRS)
▼						
Geo-redundant storage (GRS)						
Zone-redundant storage (ZRS)						
Locally-redundant storage (LRS)						
Read-access geo-redundant storage (RA-GRS)						

NEW QUESTION # 289

Your company has an app named App1 that uses data from the on-premises Microsoft SQL Server databases shown in the following table.

Name	Size
DB1	450 GB
DB2	250 GB
DB3	300 GB
DB4	50 GB

App1 and the data are used on the first day of the month only. The data is not expected to grow more than 3% each year. The company is rewriting App1 as an Azure web app and plans to migrate all the data to Azure. You need to migrate the data to Azure SQL Database. The solution must minimize costs. Which service tier should you use?

- A. vCore-based Business Critical
- B. vCore-based General Purpose
- **C. DTU-based Standard**
- D. DTU-based Basic

Answer: C

Explanation:

DTU-based Standard supports databases up to 1 TB in size.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/service-tiers-dtu>

NEW QUESTION # 290

Your company deploys an Azure App Service Web App.

During testing the application fails under load. The application cannot handle more than 100 concurrent user sessions. You enable the Always On feature. You also configure auto-scaling to increase counts from two to 10 based on HTTP queue length.

You need to improve the performance of the application.

Which solution should you use for each application scenario? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Scenario  **Solution**

Store content close to end users.

	▼
Azure Redis Cache	
Azure Traffic Manager	
Azure Content Delivery Network	
Azure Application Gateway	

Store content close to the application.

	▼
Azure Redis Cache	
Azure Traffic Manager	
Azure Content Delivery Network	
Azure Application Gateway	

Answer:

Explanation:

Scenario	Solution
Store content close to end users.	<div><div></div><div>Azure Redis Cache</div><div>Azure Traffic Manager</div><div>Azure Content Delivery Network</div><div>Azure Application Gateway</div></div>
Store content close to the application.	<div><div></div><div>Azure Redis Cache</div><div>Azure Traffic Manager</div><div>Azure Content Delivery Network</div><div>Azure Application Gateway</div></div>

Reference:

<https://docs.microsoft.com/en-us/azure/azure-cache-for-redis/cache-overview>

NEW QUESTION # 291

You need to recommend an Azure Storage Account configuration for two applications named Application1 and Applications. The configuration must meet the following requirements:

- * Storage for Application1 must provide the highest possible transaction rates and the lowest possible latency.
- * Storage for Application2 must provide the lowest possible storage costs per GB.
- * Storage for both applications must be optimized for uploads and downloads.
- * Storage for both applications must be available in an event of datacenter failure.

What should you recommend ? To answer, select the appropriate options in the answer area NOTE: Each correct selection is worth one point

Answer Area

Application1:

BlobStorage with Standard performance, Hot access tier, and Read-access geo-redundant storage (RA-GRS) replication

BlockBlobStorage with Premium performance and Zone-redundant storage (ZRS) replication

General purpose v1 with Premium performance and Locally-redundant storage (LRS) replication

General purpose v2 with Standard performance, Hot access tier, and Locally-redundant storage (LRS) replication

Application2:

BlobStorage with Standard performance, Cool access tier, and Geo-redundant storage (GRS) replication

BlockBlobStorage with Premium performance and Zone-redundant storage (ZRS) replication

General purpose v1 with Standard performance and Read-access geo-redundant storage (RA-GRS) replication

General purpose v2 with Standard performance, Cool access tier, and Read-access geo-redundant storage (RA-GRS) replication

Answer:

Explanation:

Answer Area

Application1:

BlobStorage with Standard performance, Hot access tier, and Read-access geo-redundant storage (RA-GRS) replication
BlockBlobStorage with Premium performance and Zone-redundant storage (ZRS) replication
General purpose v1 with Premium performance and Locally-redundant storage (LRS) replication
General purpose v2 with Standard performance, Hot access tier, and Locally-redundant storage (LRS) replication

Application2:

BlobStorage with Standard performance, Cool access tier, and Geo-redundant storage (GRS) replication
BlockBlobStorage with Premium performance and Zone-redundant storage (ZRS) replication
General purpose v1 with Standard performance and Read-access geo-redundant storage (RA-GRS) replication
General purpose v2 with Standard performance, Cool access tier, and Read-access geo-redundant storage (RA-GRS) replication

Explanation

Graphical user interface, text, application Description automatically generated

BlobStorage with Standard performance, Hot access tier, and Read-access geo-redundant storage (RA-GRS) replication
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Application2:

BlobStorage with Standard performance, Cool access tier, and Geo-redundant storage (GRS) replication
BlockBlobStorage with Premium performance and Zone-redundant storage (ZRS) replication
General purpose v1 with Standard performance and Read-access geo-redundant storage (RA-GRS) replication
General purpose v2 with Standard performance, Cool access tier, and Read-access geo-redundant storage (RA-GRS) replication

Box 1: BlobStorage with Premium performance and Zone-redundant storage (ZRS) replication.

BlockBlobStorage accounts: Storage accounts with premium performance characteristics for block blobs and append blobs.

Recommended for scenarios with high transactions rates, or scenarios that use smaller objects or require consistently low storage

latency.

Premium: optimized for high transaction rates and single-digit consistent storage latency.

Box 2: General purpose v2 with Standard performance..

General-purpose v2 accounts: Basic storage account type for blobs, files, queues, and tables. Recommended for most scenarios using Azure Storage.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-account-overview>

<https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy>

NEW QUESTION # 292

You are planning an Azure IoT Hub solution that will include 50,000 IoT devices.

Each device will stream data, including temperature, device ID, and time data. Approximately 50,000 records will be written every second. The data will be visualized in near real time.

You need to recommend a service to store and query the data.

Which two services can you recommend? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- **A. Azure Cosmos DB SQL API**
- B. Azure Event Grid
- **C. Azure Time Series Insights**
- D. Azure Table Storage

Answer: A,C

Explanation:

D: Time Series Insights is a fully managed service for time series data. In this architecture, Time Series Insights performs the roles of stream processing, data store, and analytics and reporting. It accepts streaming data from either IoT Hub or Event Hubs and stores, processes, analyzes, and displays the data in near real time.

C: The processed data is stored in an analytical data store, such as Azure Data Explorer, HBase, Azure Cosmos DB, Azure Data Lake, or Blob Storage.

Reference:

<https://docs.microsoft.com/en-us/azure/architecture/data-guide/scenarios/time-series>

NEW QUESTION # 293

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