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Section-Based – Implement and Manage Storage (AZ-104)

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Quiz Summary

8. QUESTION

Your company has an Azure subscription named `TDSubscription1`.

You plan to host your media assets to a storage account.

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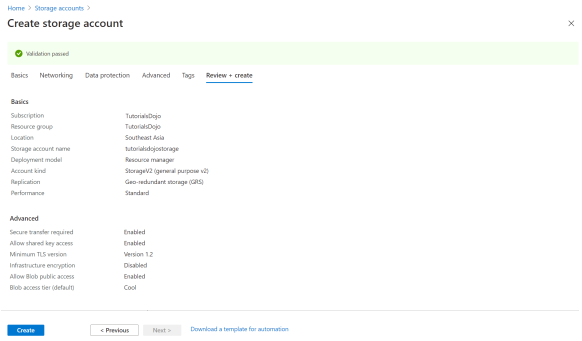
You created an Azure storage account named `tutorialsdojostorage` using the following parameters:



Select the correct answer from the drop-down list of options. Each correct selection is worth one point.

How many copies of your data will be maintained by the Azure storage account at the minimum? 6

The files that you will host in `tutorialsdojostorage` are frequently accessed files. What setting should you modify?

Access tier

Correct **2 / 2 Points**

An Azure storage account contains all of your Azure Storage data objects: blobs, files, queues, tables, and disks. The storage account provides a unique namespace for your Azure Storage

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data that is accessible from anywhere in the world over HTTP or HTTPS. Data in your Azure storage account is durable and highly available, secure, and massively scalable.

Data in an Azure Storage account is always replicated three times in the primary region. Azure Storage offers four options for how your data is replicated:

1. **Locally redundant storage (LRS)** copies your data synchronously three times within a single physical location in the primary region. LRS is the least expensive replication option but is not recommended for applications requiring high availability.
2. **Zone-redundant storage (ZRS)** copies your data synchronously across three Azure availability zones in the primary region for applications requiring high availability.
3. **Geo-redundant storage (GRS)** copies your data synchronously three times within a single physical location in the primary region using LRS. It then copies your data asynchronously to a single physical location in a secondary region that is hundreds of miles away from the primary region.

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4. **Geo-zone-redundant storage (GZRS)** copies your data synchronously across three Azure availability zones in the primary region using ZRS. It then copies your data asynchronously to a single physical location in the secondary region.

Take note that Geo-redundant storage (GRS) maintains six copies total, including three copies in the primary region and three copies in the secondary region.

Azure Blob Storage - Durability and Availability Parameters

Parameter	LRS	ZRS	GRS/RA-GRS	GZRS/RA-GZRS
Percent durability of objects over a given year	at least 99.999999999% (11 9's)	at least 99.9999999999% (12 9's)	at least 99.99999999999999% (16 9's)	at least 99.99999999999999% (16 9's)
Availability for read requests	At least 99.9% (99% for cool access tier)	At least 99.9% (99% for cool access tier)	At least 99.9% (99% for cool access tier) for GRS At least 99.99% (99.9% for cool access tier) for RA-GRS	At least 99.9% (99% for cool access tier) for GZRS At least 99.99% (99.9% for cool access tier) for RA-GZRS
Availability for write requests	At least 99.9% (99% for cool access tier)	At least 99.9% (99% for cool access tier)	At least 99.9% (99% for cool access tier)	At least 99.9% (99% for cool access tier)
Number of copies of data maintained on separate nodes	Three copies within a single region	Three copies across separate availability zones within a single region	Six copies total, including three in the primary region and three in the secondary region	Six copies total, including three across separate availability zones in the primary region and three locally redundant copies in the secondary region

Tutorials Dojo

Azure storage offers different **access tiers**, allowing you to store blob object data in the most cost-effective manner. Available access tiers include:

1. **Hot** – Optimized for storing data that is accessed frequently.
2. **Cool** – Optimized for storing data that is infrequently accessed and stored for at least 30 days.
3. **Cold** – Optimized for storing rarely accessed or modified data that requires quick

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retrieval. Data must be stored for at least 90 days.

4. **Archive** – Optimized for storing data that is rarely accessed and stored for at least 180 days with flexible latency requirements on the order of hours.

Therefore, you will have a total of **6** copies maintained because its replication setting is Geo-redundant storage (GRS). This storage option copies your data asynchronously across 3 Azure availability zones in your primary region and 3 copies in the secondary region, for a total of 6 copies.

Conversely, if you store frequently accessed files, you must modify the **access tier** to the hot tier from the cool tier.

The option that says: **3** is incorrect because only Locally redundant storage (LRS) and Zone-redundant storage (ZRS) maintain a total of 3 copies of data.

The options that says: **4** and **5** are incorrect because there is no Azure Storage redundancy type that maintains 4 and 5 copies of data. Only 3 for LRS and GRS and 6 for GRS and GZRS.

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The option that says: **Account Kind** is incorrect because it simply offers several types of storage accounts, such as StorageV2, Storage, and BlobStorage. Each type supports different features and has its own pricing model.

The option that says: **Versioning** is incorrect because this feature is for automatically maintaining the previous versions of an object. When blob versioning is enabled, you can restore an earlier version of a blob to recover your data if it is erroneously modified or deleted.

The option that says: **Performance** is incorrect because this tiering system is primarily used for determining the speed capability of your storage account. There are two types of performance tiers: Standard, optimized for high capacity/throughput, and Premium, optimized for high transaction rates and single-digit consistent storage latency.

References:

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

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

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

Check out this Azure Storage Overview Cheat Sheet:

https://tutorialsdojo.com/azure-storage-overview/

Locally Redundant Storage (LRS) vs. Zone-Redundant Storage (ZRS) vs Geo-redundant storage (GRS):

https://tutorialsdojo.com/locally-redundant-storage-lrs-vs-zone-redundant-storage-zrs/

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