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

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Quiz Summary

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5. QUESTION

You are planning to migrate your on-premises media files to Azure.

You need to create a storage account named TutorialsDojoMedia that must meet the following requirements:

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- It must be able to tolerate the failure of a single datacenter in an Azure Region.

- Replication must be synchronous.

How would you configure the storage account?

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

Account Type

General-purpose V2

Azure App Service

Read-access geo-zone-redundant stc

(Zone-redundant storage (ZRS))

Incorrect   **1 / 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 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.

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Azure Storage offers several types of storage accounts. Each type supports different features and has its own pricing model. Consider these differences before you create a storage account to determine the type of account that is best for your applications. The types of storage accounts are:

1. **General-purpose v2 accounts:** Basic storage account type for blobs, files, queues, and tables. Recommended for most scenarios using Azure Storage. It supports LRS, GRS, RA-GRS, ZRS, GZRS, RA-GZRS replication options.

2. **General-purpose v1 accounts:** Legacy account type for blobs, files, queues, and tables. Use general-purpose v2 accounts instead when possible. Supports LRS, GRS, RA-GRS replication options

3. **BlockBlobStorage accounts:** Storage accounts with premium performance characteristics for block blobs and append blobs. Recommended for scenarios with high transaction rates, or scenarios that use smaller objects or require consistently low storage latency. Supports LRS, ZRS replication options

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4. **FileStorage accounts:** Files-only storage accounts with premium performance characteristics. Recommended for enterprise or high-performance scale applications. Supports LRS, ZRS replication options

5. **BlobStorage accounts:** Legacy Blob-only storage accounts. Use general-purpose v2 accounts instead when possible. Supports LRS, GRS, RA-GRS replication options
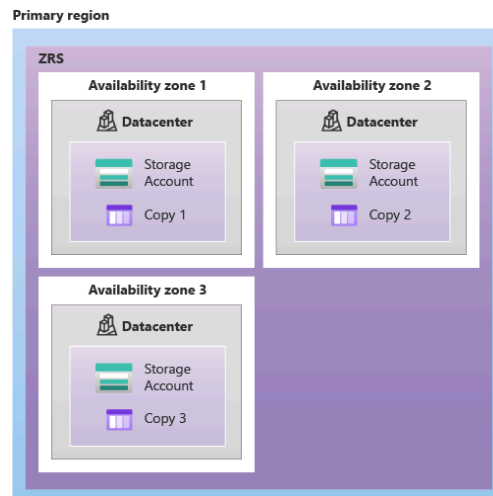
Data in an Azure Storage account is always replicated three times in the primary region. Azure Storage offers four options for how your data is replicated:

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

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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.

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.

Therefore, you have to use the **General-purpose V2** as your account type as it supports Zone-redundant storage (ZRS).

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Microsoft recommends that you use the General-purpose v2 option for new storage accounts.

Conversely, to achieve the fault-tolerance requirements, you need to utilize **Zone-redundant storage (ZRS)** as it copies your data synchronously across three Azure availability zones in the primary region.

The options that say: **General-purpose V1** and **Blob Storage** are incorrect because these account types do not support Zone-redundant storage (ZRS).

The option that says: **Locally redundant storage (LRS)** is incorrect because it only copies your data synchronously three times within a single physical location in the primary region.

The options that say: **Geo-zone-redundant storage (GZRS)** and **Read-access geo-zone-redundant storage (RA-GZRS)** are incorrect because these exceed the requirements. Take note that the requirement is that your storage account must tolerate a single data center failure.

References:

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

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

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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