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

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Quiz Summary

2. QUESTION

You have an existing Azure subscription that has the following Azure Storage accounts.

Name	Kind	Performance

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tdaccount1	General-purpose V2	Standard
tdaccount2	General-purpose V2	Premium
tdaccount3	General-purpose V1	Premium
tdaccount4	BlobStorage	Standard

There is a requirement to identify the storage accounts that can be converted to zone-redundant storage (ZRS) replication. This must be done only through a live migration from Azure Support.

Which of the following accounts can you convert to ZRS?

☐ tdaccount2

☐ tdaccount1

☐ tdaccount4

☐ tdaccount3

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Correct

Azure Storage always stores multiple copies of your data so that it is protected from planned and unplanned events, including transient hardware failures, network or power outages, and massive natural disasters.

Redundancy ensures that your storage account meets its availability and durability targets even in the face of failures.

When deciding which redundancy option is best for your scenario, consider the tradeoffs between lower costs and higher availability. The factors that help determine which redundancy option you should choose to include are:

- How your data is replicated in the primary region.
- Whether your data is replicated to a second region that is geographically distant to the primary region, to protect against regional disasters.
- Whether your application requires read access to the replicated data in the

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secondary region if the primary region becomes unavailable for any reason.


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.

You can switch a storage account from one type of replication to any other type, but some scenarios are more straightforward than others. If you want to add or remove geo-replication or read access to the secondary region, you can use the Azure portal, PowerShell, or Azure CLI to update the replication setting. However, if you want to change how data is replicated in the primary region, by moving from LRS to ZRS or vice versa, then you must perform a manual migration.

The following table provides an overview of how to switch from each type of replication to another:

Azure Storage Type Migration				
Switching From	...to LRS	...to GRS/RA-GRS	...to ZRS	...to GZRS/RA-GZRS
LRS	N/A	Use Azure portal, PowerShell, or CLI to change the replication setting	Perform a manual migration OR Request a live migration	Perform a manual migration OR Switch to GRS/RA-GRS first and then request a live migration
GRS/RA-GRS	Use Azure portal, PowerShell, or CLI to change the replication setting	N/A	Perform a manual migration OR Switch to LRS first and then request a live migration	Perform a manual migration OR Request a live migration
ZRS	Perform a manual migration	Perform a manual migration	N/A	Use Azure portal, PowerShell, or CLI to change the replication setting
GZRS/RA-GZRS	Perform a manual migration	Perform a manual migration	Use Azure portal, PowerShell, or CLI to change the replication setting	N/A

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To request a live migration to ZRS, GZRS, or RA-GZRS, you need to migrate your storage account from LRS to ZRS in the primary region with no application downtime. To migrate from LRS to GZRS or RA-GZRS, first switch to GRS or RA-GRS and then request a live migration. Similarly, you can request a live migration from GRS or RA-GRS to GZRS or RA-GZRS. To migrate from GRS or RA-GRS to ZRS, first switch to LRS, then request a live migration.

Live migration is supported only for storage accounts that use LRS or GRS replication. If your account uses RA-GRS then you need to first change your account's replication type to either LRS or GRS before proceeding. This intermediary step removes the secondary read-only endpoint provided by RA-GRS before migration.

Hence, the correct answer is:

tdaccount1.

tdaccount2 is incorrect because you need to first change your account's replication type to either LRS or GRS before you change to zone-redundant storage (ZRS). The requirement states that you must only request live migration.

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tdaccount3 is incorrect because a general-purpose V1 storage account type does not support zone-redundant storage (ZRS) as its replication option. Only General-purpose V2, FileStorage, and BlockBlobStorage support ZRS.

tdaccount4 is incorrect because a BlobStorage account type does not support zone-redundant storage (ZRS) as its replication option. Only General-purpose V2, FileStorage, and BlockBlobStorage support ZRS.

References:

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

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

Check out these Azure Cheat Sheets:

<https://tutorialsdodo.com/azure-storage-overview/>

<https://tutorialsdodo.com/locally-redundant-storage-lrs-vs-zone-redundant-storage-zrs/>

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