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QUIZ 13 OF 16 November 14, 2026



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

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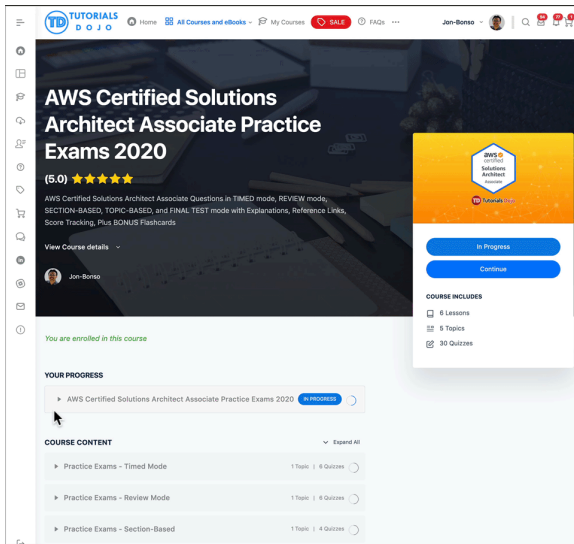
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6 ✓ 7 ✓ 8 ✓ 9 ✓ 10 ✓

✓ Answered    For Review

## 1. QUESTION

Your company has an Azure Storage account named `TutorialsDojo1`.


You have to copy your files hosted on your on-premises network to `TutorialsDojo1` using AzCopy.

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What Azure Storage services will you be able to copy your data into?

☐ Blob and File only

☐ Table and Queue only

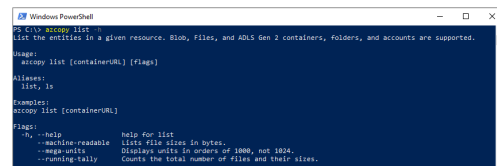
☐ Blob, Table, and File only

☒ Blob, File, Table, and Queue

## Incorrect

The Azure Storage platform is Microsoft's cloud storage solution for modern data storage scenarios. Core storage services offer a massively scalable object store for data objects, disk storage for Azure virtual machines (VMs), a file system service for the cloud, a messaging store for reliable messaging, and a NoSQL store.

**AzCopy** is a command-line utility that you can use to copy blobs or files to or from a storage account.



```
Windows PowerShell
PS C:\> azcopy list -h
list the entities in a given resource. Blob, files, and ADLS Gen 2 containers, folders, and accounts are supported.

Usage:
  azcopy list [containerURL] [flags]

Aliases:
  list, ls

Examples:
  azcopy list [containerURL]

Flags:
  -h, --help                help for list
  --recursive-readable      lists file sizes in bytes.
  --mega-units              Displays units in orders of 1000, not 1024.
  --counting-blobs          Counts the total number of files and their sizes.
```

**Azure Blob** storage is Microsoft's object storage solution for the cloud. Blob storage is optimized for storing massive amounts of unstructured data. Unstructured

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data is data that doesn't adhere to a particular data model or definition, such as text or binary data.

Blob storage is designed for:

- Serving images or documents directly to a browser.
- Storing files for distributed access.
- Streaming video and audio.
- Writing to log files.
- Storing data for backup and restore disaster recovery, and archiving.
- Storing data for analysis by an on-premises or Azure-hosted service.

**Azure Files** enables you to set up highly available network file shares that can be accessed by using the standard Server Message Block (SMB) protocol. That means that multiple VMs can share the same files with both read and write access. You can also read the files using the REST interface or the storage client libraries.

One thing that distinguishes Azure Files from files on a corporate file share is that you can access the files from anywhere in the world using a URL that points to the file and includes a shared access

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signature (SAS) token. You can generate SAS tokens; they allow specific access to a private asset for a specific amount of time.

File shares can be used for many common scenarios:

- Many on-premises applications use file shares. This feature makes it easier to migrate those applications that share data to Azure. If you mount the file share to the same drive letter that the on-premises application uses, the part of your application that accesses the file share should work with minimal, if any, changes.

- Configuration files can be stored on a file share and accessed from multiple VMs. Tools and utilities used by multiple developers in a group can be stored on a file share, ensuring that everybody can find them and that they use the same version.

- Diagnostic logs, metrics, and crash dumps are just three examples of data that can be written to a file share and processed or analyzed later.

Hence, the correct answers are:  
**Blob and File only.**

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The option that says: **Table and Queue only** is incorrect because Table and Queue are not supported services by AzCopy.

The option that says: **Blob, Table, and File only** is incorrect because Table is not a supported service by AzCopy. The AzCopy command-line utility can only copy blobs or files to or from a storage account.

The option that says: **Blob, File, Table, and Queue** is incorrect.

Although Blob and File types are supported by AzCopy, the Table and Queue services are not supported.

## References:

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

<https://docs.microsoft.com/en-us/azure/storage/common/storage-use-azcopy-v10>

## Check out this Azure Storage Overview Cheat Sheet:

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

## Azure Blob vs. Disk vs. File Storage:

## 2. QUESTION

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

Name	Kind	Performance
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

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(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

## 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:



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– 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 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.

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## 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.

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.

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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

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.

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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.

**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>

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**Check out these Azure Cheat Sheets:**

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

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

## 3. QUESTION

You have an Azure subscription that contains several virtual machines deployed to a virtual network named

TDVnet1 .

You created an Azure storage account named `tdstorageaccount1` as shown in the following exhibit:

Allow access from

☐ All networks ☒ Selected networks [Learn more](#)

Configure network security for your storage accounts. [Learn more](#)

Virtual networks

+ Add existing virtual network + Add new virtual network

Virtual Network	Subnet	Address range	Endpoint Status	Resource Group	Subscription	
TDVnet1	1			TutorialsDojo	TutorialsDojo	...
	TDSubnet1	20.2.0.0/24	✓ Enabled	TutorialsDojo	TutorialsDojo	...

Firewall

Add IP ranges to allow access from the internet or your on-premises networks. [Learn more](#)

☐ Add your client IP address (49 )

Address range

IP address or CIDR

Resource instances

Specify resource instances that will have access to your storage account based on their system-assigned managed identity. Rules created by other tenants can only be modified by the creator.

Resource type

Select a resource type

Instance name

Select one or more instances

Exceptions

☐ Allow trusted Microsoft services to access this storage account

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

Your virtual machines deployed to the `20.2.1.0/24` subnet will have access to the file shares in

tdstorageaccount1 .


Never

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The unmanaged disks of the virtual machines can be backed up to

tdsotrageaccount1 by using

Azure Backup.

Always

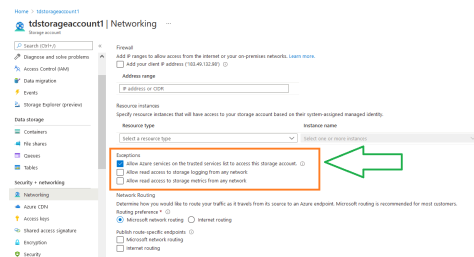
(Never)

**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.



**Virtual Network service endpoint**

allows administrators to create network rules that allow traffic only from selected VNets and subnets, creating a secure network boundary for their data. Service endpoints extend your

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VNet private address space and identity to the Azure services, over a direct connection. This allows you to secure your critical service resources to only your virtual networks, providing private connectivity to these resources and fully removing Internet access. You need to explicitly specify which subnets can access your storage account.

Azure Backup can access your storage account in the same subscription for running backups and restores of unmanaged disks in virtual machines. To enable this, you need to tick the ***"Allow trusted Microsoft Services to access this storage account"*** box.

Take note that in the screenshot presented in the scenario, the following observations can be made:

1. There are two subnets inside `TDVnet1` , `20.2.0.0/24` and `20.2.1.0/24` . The only subnet included in the lists of allowed subnets to `tdstorageaccount1` is `20.2.0.0/24` . The virtual machines deployed to the subnet `20.2.1.0/24` will never have access to `tdstorageaccount1` .

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2. The "Allow trusted Microsoft Services to access this storage account" is not enabled.

This means that Azure Backup will never have the capability to backup the unmanaged disks of the virtual machines to

`tdstorageaccount1`.

Therefore, your virtual machines in

`20.2.1.0/24` will **Never** have

access to the file shares in

`tdstorageaccount1`.

Conversely, Azure Backup will **Never** be able to backup unmanaged disks of the virtual machines.

## References:

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

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

**Check out this Azure Storage Overview Cheat Sheet:**

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

## 4. QUESTION

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You have an Azure subscription that contains a storage account named

`tdstorageaccount1`.

You have 14 TB of files you need to migrate to `tdstorageaccount1` using Azure Import/Export service.

You need to identify the two files you need to create before the preparation of the drives for journal file.

Which files should you create? (Select TWO.)



Dataset CSV File



PowerShell PS1 file



ARM template



Driveset CSV file



WAImportExport file

## Incorrect

**Azure Import/Export** service is used to securely import large amounts of data to Azure Blob storage and Azure Files by shipping disk drives to an Azure datacenter. This service can also be used to transfer data from Azure Blob storage to disk drives

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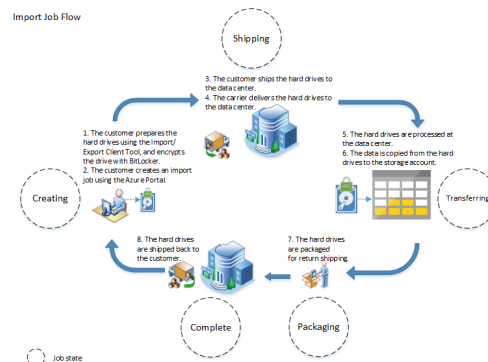
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and ship to your on-premises sites. Data from one or more disk drives can be imported either to Azure Blob storage or Azure Files.

Consider using Azure Import/Export service when uploading or downloading data over the network is too slow or getting additional network bandwidth is cost-prohibitive. Use this service in the following scenarios:

- Data migration to the cloud: Move large amounts of data to Azure quickly and cost-effectively.
- Content distribution: Quickly send data to your customer sites.
- Backup: Take backups of your on-premises data to store in Azure Storage.
- Data recovery: Recover large amount of data stored in storage and have it delivered to your on-premises location.



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The first step of an import job is the preparation of the drives. This is where you need to generate a journal file. The following files are needed before you create a journal file:

## – The Dataset CSV File

– Dataset CSV file is the value of /dataset flag is a CSV file that contains a list of directories and/or a list of files to be copied to target drives. The first step to creating an import job is to determine which directories and files you are going to import.

– This can be a list of directories, a list of unique files, or a combination of those two. When a directory is included, all files in the directory and its subdirectories will be part of the import job.

## – The Driveset CSV file

– The value of the /InitialDriveSet or /AdditionalDriveSet flag is a CSV file that contains the list of

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disks to which the drive letters are mapped so that the tool can correctly pick the list of disks to be prepared.

Hence, the correct answers are:

- Dataset CSV File
- Driveset CSV file

The following options are incorrect because an Azure Import/Export journal file only requires a driveset CSV file and dataset CSV File during the preparation of your drives.

- ARM template
- PowerShell PS1 file
- WAImportExport file

## References:

<https://docs.microsoft.com/en-us/azure/import-export/storage-import-export-service>

<https://docs.microsoft.com/en-us/azure/import-export/storage-import-export-data-to-files>

**Check out this Azure Storage Overview Cheat Sheet:**

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

## 5. QUESTION

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

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

- 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 st

(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

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

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

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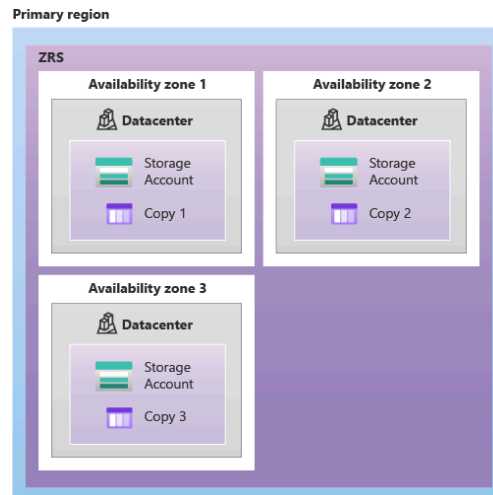
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with high transaction rates, or scenarios that use smaller objects or require consistently low storage latency. Supports LRS, ZRS replication options

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:

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## 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.

## 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.



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

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.

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## References:

<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/>

## 6. QUESTION

Note: This item is part of a series of case study questions with the exact same scenario but has a different technical requirement. Each one in the series has a unique solution that may or may not comply with the requirements specified in the scenario.

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Overview

Existing

Environment

Planned

Changes

Technical

Requirements

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## Question

What should you do?



Use file explorer to copy the files by mapping a drive using an Azure storage account access key for authorization.



Use Azure Import/Export service to copy the files.



Use Azure Storage Explorer to copy the files.




Use file explorer to copy the files by mapping a drive using a shared access signature (SAS) in the Azure storage account to grant temporary access.

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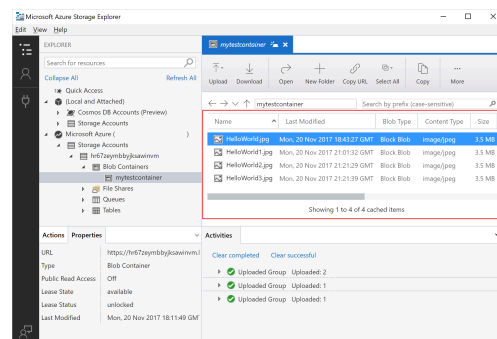


## Incorrect

**Azure Blob** storage is Microsoft's object storage solution for the cloud. Blob storage is optimized for storing massive amounts of unstructured data. Unstructured data is data that doesn't adhere to a particular data model or definition, such as text or binary data.

Blob storage is designed for:

- Serving images or documents directly to a browser.
- Storing files for distributed access.
- Streaming video and audio.
- Writing to log files.
- Storing data for backup and restore disaster recovery, and archiving.
- Storing data for analysis by an on-premises or Azure-hosted service.



Microsoft Azure Storage Explorer is a standalone app that is accessible, intuitive, feature-rich

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graphical user interface (GUI) for full management of cloud storage resources and makes it easy to work with Azure Storage data on Windows, macOS, and Linux. You can upload, download, and manage Azure blobs, files, queues, and tables, as well as Azure Cosmos DB and Azure Data Lake Storage entities.

The requirements to be considered for this scenario are:

- Migrate the media files to Azure over the Internet.
- The media files must be stored in a Blob container and cached via Content Delivery Network.

Hence, the correct answer is: **Use Azure Storage Explorer to copy the files.**

The option that says: **Use Azure Import/Export service to copy the files** is incorrect. Azure Import/Export service is primarily used to securely import large amounts of data to Azure Blob storage and Azure Files by shipping disk drives to an Azure datacenter. The requirement states that the transfer of the media files must be done over the Internet.

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The following options are incorrect because you cannot mount a Blob container using file explorer. Take note that the requirement states that the media files must be stored in a Blob container.

- Use file explorer to copy the files by mapping a drive using a shared access signature (SAS) in the Azure storage account to grant temporary access.

- Use file explorer to copy the files by mapping a drive using an Azure storage account access key for authorization.

## References:

<https://azure.microsoft.com/en-us/features/storage-explorer/>

<https://docs.microsoft.com/en-us/azure/vs-azure-tools-storage-manage-with-storage-explorer>

**Check out this Azure Blob Storage Cheat Sheet:**

<https://tutorialsdodojo.com/azure-blob-storage/>

## 7. QUESTION

You have an Azure subscription that contains a sync group named

`TDSync1` which has an associated

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cloud endpoint called `TDCloud1` .

The file `tutorials.docx` is included in the cloud endpoint.

You have the following on-premises Windows Server 2019 file servers that you want to synchronize to Azure:

Name	Share Contents
FileServer1	tutorials.docx
FileServer2	dojo.mp4

You first registered `FileServer1` as a server endpoint to `TDSync1` and then registered `FileServer2` as a server endpoint to `TDSync1` .

For each of the following items, choose Yes if the statement is true or choose No if the statement is false. Take note that each correct item is worth one point.

Questions

Yes

No

`dojo.mp4` will be synced to

`FileServer1`



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Questions

Yes

No

tutorials.docx

on TDCloud1 will be overwritten by

tutorials.docx

from

FileServer1

tutorials.docx

on FileServer1 will be overwritten by

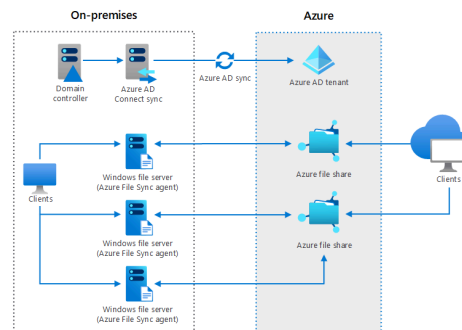
tutorials.docx

from TDCloud1

**Correct**

**3 / 3 Points**

**Azure Files** enables you to set up highly available network file shares that can be accessed by using the standard Server Message Block (SMB) protocol. That means that multiple VMs can share the same files with both read and write access. You can also read the files using the REST interface or the storage client libraries.





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Remember that whenever you make changes to any cloud endpoint or server endpoint in the sync group, it will be synced to the other endpoints in the sync group. If you make a change to the cloud endpoint (Azure file share) directly, changes first need to be discovered by an Azure File Sync change detection job. A change detection job is only initiated for a cloud endpoint once every 24 hours.

Take note that Azure does not overwrite any files in your sync group. Instead, it will keep both changes to files that are changed in two endpoints at the same time. The most recently written change keeps the original file name.

The older file (determined by LastWriteTime) has the endpoint name and the conflict number appended to the filename. For server endpoints, the endpoint name is the name of the server. For cloud endpoints, the endpoint name follows this taxonomy:

–

```
<FileNameWithoutExtension>–
```

```
<endpointName>[-#].
```

```
<ext>
```

– For example,

```
tutorials–
```

```
FileServer1.docx
```

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Azure File Sync supports 100 conflict files per file. Once the maximum number of conflict files has been reached, the file will fail to sync until the number of conflict files is less than 100.

Hence, this statement is correct:

`dojo.mp4` will be synced to `FileServer1`.

The following statements are incorrect because Azure File Sync will not overwrite any files in your endpoints. It will simply append a conflict number to the filename of the older file, while the most recent change will retain the original file name.

- `tutorials.docx` on `FileServer1` will be overwritten by `tutorials.docx` from `TDCloud1`.
- `tutorials.docx` on `TDCloud1` will be overwritten by `tutorials.docx` from `FileServer1`.

## References:


<https://docs.microsoft.com/en-us/azure/storage/files/storage-files-introduction>

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<https://docs.microsoft.com/en-us/azure/storage/files/storage-sync-files-deployment-guide>

Check out this Azure Files Cheat Sheet:

<https://tutorialsdojo.com/azure-file-storage/>

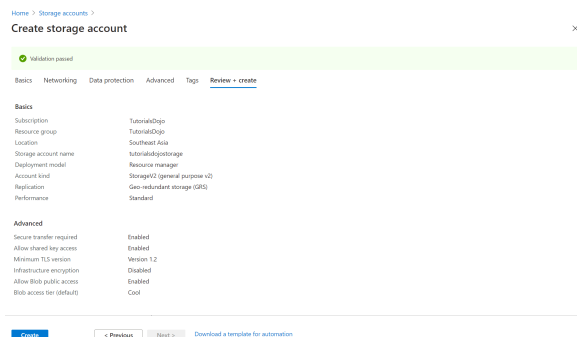
## 8. QUESTION

Your company has an Azure subscription named

`TDSubscription1` .

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

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



Create storage account	
Validation passed	
Basics Networking Data protection Advanced Tags Review + create	
<b>Basics</b>	
Subscription	TutorialDp
Resource group	TutorialDp
Location	Southwest Asia
Storage account name	tutorialsdjostorage
Deployment model	Resource manager
Account kind	StorageV2 (general purpose v2)
Replication	Geo-redundant storage (GRS)
Performance	Standard
<b>Advanced</b>	
Secure transfer required	Enabled
Allow shared key access	Enabled
Minimum TLS version	Version 1.2
Infrastructure encryption	Enabled
Allow Blob public access	Enabled
Blob access tier (default)	Cool

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

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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

tutorialsd DOJ storage 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 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

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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.

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.

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## 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 99.999999999999% (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

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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 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

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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.

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.

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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://tutorialsdodojo.com/azure-storage-overview/>

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



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

## 9. QUESTION

You currently have an on-premises file server that contains a directory named `E:\TutorialsDojoMedia`.

There is a requirement to migrate the folder `E:\TutorialsDojoMedia` and its subdirectories to a public container in an Azure Storage Account named

`TutorialsDojoAccount`.

Which of the following command should you run?

`azcopy copy E:\Tutorials`



`https://TutorialsDojoAcco`  
`--recursive`

`azcopy copy`



`https://TutorialsDojoAcco`  
`E:\TutorialsDojoMedia --r`

`azcopy copy E:\Tutorials`



`https://TutorialsDojoAcco`

`az storage blob copy sta`



`https://TutorialsDojoAcco`

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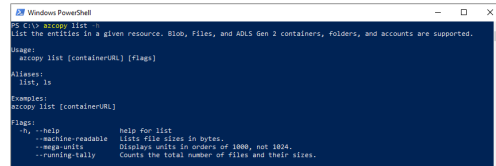
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## Incorrect

**AzCopy** is a command-line utility that you can use to copy blobs or files to or from a storage account. You can also provide authorization credentials on your AzCopy command by using Microsoft Entra ID or by using a Shared Access Signature (SAS) token.



```
Windows PowerShell
PS C:\> azcopy list
list the entities in a given resource. Blob, files, and ADLS Gen 2 containers, folders, and accounts are supported.

Usage:
  azcopy list [containerURL] [flags]

Aliases:
  list, ls

Examples:
  azcopy list [containerURL]

Flags:
  -h, --help                help for list
  --recursive               list file sizes in bytes.
  --recursive-readable      list file sizes in orders of 1000, not 1024.
  --mega-units              Displays units in orders of 1000, not 1024.
  --running-tally           Counts the total number of files and their sizes.
```

The Azure Storage platform is Microsoft's cloud storage solution for modern data storage scenarios. Core storage services offer a massively scalable object store for data objects, disk storage for Azure virtual machines (VMs), a file system service for the cloud, a messaging store for reliable messaging, and a NoSQL store.

**Azure Blob** storage is Microsoft's object storage solution for the cloud. Blob storage is optimized for storing massive amounts of unstructured data. Unstructured data is data that doesn't adhere to a particular data model or definition, such as text or binary data.

Blob storage is designed for:

- Serving images or documents directly to a browser.

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– Storing files for distributed access.

– Streaming video and audio.

– Writing to log files.

– Storing data for backup and restore disaster recovery and archiving.

– Storing data for analysis by an on-premises or Azure-hosted service.

The correct syntax in uploading files is:

```
azcopy copy  
[source] [destination]  
[flags]
```

For example:

```
azcopy copy  
'C:\myDirectory\myTextFile.txt'  
'https://mystorageaccount.blob.core'
```

Hence, the correct answer is:

```
azcopy copy  
E:\TutorialsDojoMedia  
https://TutorialsDojoAccount.blob.core  
--recursive
```

The option that says: **azcopy copy**

```
https://TutorialsDojoAccount.blob.core  
E:\TutorialsDojoMedia --  
recursive
```

is incorrect because this command only downloads the contents from the storage account and not the folder. Remember that in order to upload a file to a storage account, you need to

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follow this syntax: `azcopy copy`  
`[source] [destination]`  
`[flags]` .

The option that says: `azcopy`  
`copy`

`E:\TutorialsDojoMedia`

`https://TutorialsDojoAccount.blob.core`

is incorrect because the command will not include the subdirectories of the folder. You need to append the `--recursive` flag to upload files in all subdirectories.

The option that says: `az`

`storage blob copy start-batch`

`E:\TutorialsDojoMedia`

`https://TutorialsDojoAccount.blob.core`

incorrect because this command simply copies multiple blob files from a source container to the destination container.

## References:

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

<https://docs.microsoft.com/en-us/azure/storage/common/storage-use-azcopy-v10>


Check out this Azure Blob Storage Cheat Sheet:

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<https://tutorialsdojo.com/azure-blob-storage/>

## 10. QUESTION

Your company has an Azure subscription that contains an Azure Storage account named

tutorialsdojoaccount.

There is a requirement to copy a virtual machine image to a container named tdimage from your on-premises datacenter. You need to provision an Azure Container instance to host the container image.

Which AzCopy command should you run?

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

AzCopy Copy (Make)

"https://tutorialsdojoaccount.\_\_\_\_.core

blob

**Incorrect**

**1 / 2 Points**

The Azure Storage platform is Microsoft's cloud storage solution for modern data storage

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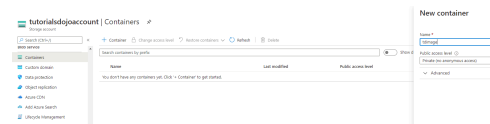


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scenarios. Core storage services offer a massively scalable object store for data objects, disk storage for Azure virtual machines (VMs), a file system service for the cloud, a messaging store for reliable messaging, and a NoSQL store.



**Azure Blob** storage is Microsoft's object storage solution for the cloud. Blob storage is optimized for storing massive amounts of unstructured data. Unstructured data is data that doesn't adhere to a particular data model or definition, such as text or binary data.

Blob storage is designed for:

- Serving images or documents directly to a browser.
- Storing files for distributed access.
- Streaming video and audio.
- Writing to log files.
- Storing data for backup and restore disaster recovery, and archiving.
- Storing data for analysis by an on-premises or Azure-hosted service.

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A container organizes a set of blobs, similar to a directory in a file system. A storage account can include an unlimited number of containers, and a container can store an unlimited number of blobs. VHD files can be used to create custom images that can be stored in an Azure Blob container, which are used to provision virtual machines.

**AzCopy** is a command-line utility that you can use to copy blobs or files to or from a storage account. The `azcopy make` command is commonly used to create a container or a file share.

The correct syntax in creating a blob container is:

```
azcopy make  
"https://[account-  
name].blob.core.windows.net/[top-  
level-resource-  
name]"
```

For example:

```
azcopy make  
"https://myaccount.blob.core.windo
```

Therefore, the correct answers are:

**AzCopy = Make**

**https://tutorialsdjoaccount.\_\_\_\_.core.windows.ne  
= Blob**

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**Copy** is incorrect because it simply copies source data to a destination location.

**Sync** is incorrect because it only replicates the source location to the destination location.

**File** is incorrect because when you execute this command, it will create a file share. Take note that it is mentioned in the scenario that container images and instances are used.

**Table** is incorrect because this is just a NoSQL data store that accepts authenticated calls from inside and outside the Azure cloud which allows you to store large amounts of structured data.

**Queue** is incorrect because this simply provides cloud messaging between application components that allows you to decouple your applications so that they can scale independently.

## References:

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

<https://docs.microsoft.com/en-us/azure/storage/common/storage-ref-azcopy-make>



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Check out this [Azure Storage Overview Cheat Sheet](#):

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

Azure Blob vs Disk vs File Storage:

<https://tutorialsdojo.com/azure-blob-vs-disk-vs-file-storage/>

## 11. QUESTION

You have an Azure subscription that contains an Azure Storage account named `TD1`.

You export `TD1` as an Azure Resource Manager template. The template contains the following sections.

```
2  "rules": [
3  {
4    "enabled": true,
5    "name": "Tutorials Dojo Rules",
6    "type": "Lifecycle",
7    "definition": {
8      "actions": {
9        "version": {
10         "delete": {"daysAfterCreationGreaterThan": 60}
11       },
12       "baseBlob": {
13         "tierToCool": {"daysAfterModificationGreaterThan": 90},
14         "tierToArchive": {"daysAfterModificationGreaterThan": 365},
15         "delete": {"daysAfterModificationGreaterThan": 1000}
16       }
17     },
18     "filters": {
19       "blobTypes": [
20         "blockBlob"
21       ],
22       "prefixMatch": [
23         "TDaccount/TD1"
24       ]
25     }
26   }
27 ]
```

For each of the following items, choose Yes if the statement is true or choose No if the statement is false. Take note that each correct item is worth one point.

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Questions

Yes

No

Previous versions will be deleted 60 days after creation.



Blob data will be tiered to archive tier 1000 days after last modification.



Blob data will be tiered to cool tier 365 days after last modification.



**Incorrect**

**2 / 3 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.

Data sets have unique lifecycles. Early in the lifecycle, people access some data often. But the

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need for access often drops drastically as the data ages. Some data remains idle in the cloud and is rarely accessed once stored.

Some data sets expire days or months after creation, while other data sets are actively read and modified throughout their lifetimes. Azure Storage lifecycle management offers a rule-based policy that you can use to transition blob data to the appropriate access tiers or to expire data at the end of the data lifecycle.

```
2  "rules": [
3  {
4    "enabled": true,
5    "name": "Tutorials Dojo Rules",
6    "type": "Lifecycle",
7    "definition": {
8      "actions": {
9        "version": {
10         "delete": {"daysAfterCreationGreaterThan": 60}
11       },
12       "baseBlob": {
13         "tierToCool": {"daysAfterModificationGreaterThan": 90},
14         "tierToArchive": {"daysAfterModificationGreaterThan": 365},
15         "delete": {"daysAfterModificationGreaterThan": 1000}
16       }
17     },
18     "filters": {
19       "blobTypes": [
20         "blockBlob"
21       ],
22       "prefixMatch": [
23         "TDaccount/TD1"
24       ]
25     }
26   }
27 ]
```

Based on the image above, the following will happen:

- Previous versions will be deleted 60 days after creation.
- Blob data will be tiered to cool tier 90 days after last modification.
- Blob data will be tiered to archive tier 365 days after last modification.
- Blob data deleted 1000 days after last modification.

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Hence, this statement is correct:

**Previous versions will be deleted 60 days after creation.**

The statement that says: **Blob data will be tiered to archive tier 1000 days after last modification** is incorrect. Blob data will be tiered to archive tier 365 days after last modification.

The statement that says: **Blob data will be tiered to cool tier 365 days after last modification** is incorrect. Blob data will be tiered to cool tier 90 days after last modification.

## References:

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

<https://docs.microsoft.com/en-us/azure/storage/blobs/lifecycle-management-overview>

**Check out this Azure Storage Overview Cheat Sheet:**

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

## 12. QUESTION

*Note: This item is part of a series of case study questions with the exact same scenario but has a different technical requirement. Each one in*

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*the series has a unique solution that may or may not comply with the requirements specified in the scenario.*

Overview

Existing

Environment

Planned

Changes

Technical

Requirements

Contoso Limited is an online learning portal for technology-related topics that empowers its users to upgrade their skills and career. Contoso Limited has users from all over the world, ranging from the United States, Europe, and Asia.

## Question

Which of the following services fulfills this requirement?



Azure Blob



Azure Table



Azure Disk



Azure Files

**Correct**

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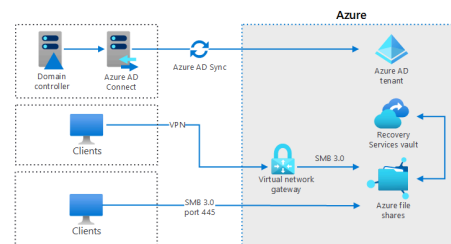


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**Azure Files** offers fully managed file shares in the cloud that are accessible via the industry standard Server Message Block (SMB) protocol or Network File System (NFS) protocol. Azure Files SMB file shares are accessible from Windows, Linux, and macOS clients. Azure Files NFS file shares are accessible from Linux or macOS clients. Additionally, Azure Files SMB file shares can be cached on Windows Servers with Azure File Sync for fast access near where the data is being used.



The requirements in the scenario are:

- Move the existing file server to a more efficient service.
- Ensure that the file server can be mounted from Azure and on-premises data center.

Among the given options, only Azure Files can satisfy the given requirements. Azure file shares can be mounted concurrently on the cloud or on-premises deployments. Azure Files can be

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used to completely replace or supplement traditional on-premises file servers or NAS devices. Azure File SMB file shares can also be replicated with Azure File Sync to Windows Servers, either on-premises or in the cloud, for performance and distributed caching of the data where it's being used.

Hence, the correct answer is:

**Azure Files.**

**Azure Blob** is incorrect because this service can't be mounted concurrently on the cloud and on-premises data center. Instead of using Azure Blob, you should use Azure Files.

**Azure Table** is incorrect because this service simply stores structured NoSQL data. You can't mount this storage service to your on-premises data center.

**Azure Disk** is incorrect because this storage service can only be used on Azure resources. If you need to move your existing file server to the cloud, you can use Azure Files.

## References:


<https://docs.microsoft.com/en-us/azure/storage/files/storage-files-introduction>

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Section-Based – Manage Azure Identities

Section-Based – Implement and Manage Azure Storage

Section-Based – Deploy and Manage Azure Virtual Machines

Section-Based – Implement and Manage Azure Networking

Section-Based – Monitor and Maintain Azure

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<https://azure.microsoft.com/en-us/services/storage/files/>

**Check out this Azure Files Cheat Sheet:**

<https://tutorialsdojo.com/azure-file-storage/>

**Azure Blob vs Disk vs File Storage:**

<https://tutorialsdojo.com/azure-blob-vs-disk-vs-file-storage/>