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1. **1 / 1 point**

Which of the following are benefits of Azure cloud-based data storage solutions?

Select all options that apply.

- [x] Automated backup and Recovery

Correct
Automated backup and recovery mitigate the risk of losing your data if there is any unforeseen failure or interruption.

- [x] Multiple Data Types

Correct
Azure can store almost any type of data you need. It can handle video files, text files, and even large binary files like virtual hard disks. It also has many options for your relational and NoSQL data.

- [ ] Increased Capital Expenditure
- [x] Global Replication

Correct
Replication across the globe copies your data to protect it against any planned or unplanned events, such as scheduled maintenance or hardware failures. You can choose to replicate your data at multiple locations across the globe.

2. Which of the following statements is true of Resource Groups, Storage Accounts, and Azure Cosmos DB? **1 / 1 point**

- ( ) Azure Cosmos DB can be included in an Azure Storage Account in an Azure Resource Group
- (•) Azure Cosmos DB can be included in an Azure Resource Group but cannot be included in an Azure Storage Account.

Correct
A storage account is an Azure resource and is included in a resource group. Data services like Azure SQL and Azure Cosmos DB are managed as independent Azure resources and can be included in an Azure Resource Group but cannot be included in a storage account.

3. Transactions are often defined by a set of four requirements, referred to as ACID guarantees. **1 / 1 point**

What does ACID stand for?

Select all options that apply.

- [x] Isolation

Correct
Isolation ensures that one transaction is not impacted by another transaction.

- [x] Atomicity

Correct
Atomicity means a transaction must execute exactly once and must be atomic; either all of the work is done, or none of it is. Operations within a transaction usually share a common intent and are interdependent.

- [x] Consistency

Correct
Consistency ensures that the data is consistent both before and after the transaction.

- [x] Durability

✓ **Correct**
Durability means that the changes made due to the transaction are permanently saved in the system. Committed data is saved by the system so that even in the event of a failure and system restart, the data is available in its correct state.

- [ ] Dynamic
- [ ] Automatic
- [ ] Concurrent

4. A storage account is an Azure resource and must therefore be included in which of the following? **1 / 1 point**

- ( ) Azure AD Group
- (•) Resource Group
- ( ) Management Group

✓ **Correct**
A storage account is an Azure resource and is included in a resource group.

5. Azure Storage offers several types of storage accounts. What is the recommended storage type for block blobs and append blobs? **1 / 1 point**

- [ ] Standard General purpose v2
- [x] Premium Storage

✓ **Correct**
Premium Blob Storage provides lower and more consistent storage latency, providing low and consistent storage response times for both read and write operations across a range of object sizes

6. In Azure Storage, clients can use a shared key or shared secret for authentication and to restrict access to resources. A Shared key is supported by which of the following storage models? **1 / 1 point**

Select all options that apply.

- [x] Files

✓ **Correct**
Clients can use a shared key or shared secret as an authentication option and is one of the easiest to use. It supports files.

- [x] Queues

✓ **Correct**
Clients can use a shared key or shared secret as an authentication option and is one of the easiest to use. It supports queues.

- [x] Tables

✓ **Correct**
Clients can use a shared key or shared secret as an authentication option and is one of the easiest to use. It supports tables.

- [ ] Disks
- [x] Blobs

✓ **Correct**
Clients can use a shared key or shared secret as an authentication option and is one of the easiest to use. It supports Blobs.

7. Which of the following are features of the Azure Queue service? **1 / 1 point**

Select all options that apply.

- [x] Queues are used to store lists of messages to be processed asynchronously.

✓ **Correct**
Queues are used to store lists of messages to be processed asynchronously.

- [x] Queue messages can be up to 64 kilobytes in size, and a queue can contain millions of messages.

✓ **Correct**
Queue messages can be up to 64 kilobytes in size, and a queue can contain millions of messages.

- [x] It can store and retrieve messages.

✓ **Correct**
The Azure Queue service is used to store and retrieve messages.

- [ ] Queues are used to store lists of messages to be processed synchronously.

8. Azure File Storage exposes file shares using what protocol? **1 / 1 point**

- (•) Server Message Block 3.0
- ( ) HTTPS
- ( ) Server Message Block 2.0

✓ **Correct**
Azure File Storage exposes file shares using the Server Message Block 3.0 (SMB) protocol. This is the same file-sharing protocol used by many existing on-premises applications.

9. Azure Storage provides a REST API to work with the containers and data stored in each storage account. **1 / 1 point**

What would the following HTTP command return?

GET https://[url-for-service-account]/?comp=list&include=metadata

- ( ) A List of all Files
- (•) A list of all Blobs
- ( ) A list of all tables

✓ **Correct**
The Storage REST APIs are accessible from anywhere on the Internet, by any app that can send an HTTP/HTTPS request and receive an HTTP/HTTPS response. To list all the blobs in a container, you would send something like this command.

10. Which of the following scenarios are suitable for Blob Storage solutions? **1 / 1 point**

Select all options that apply.

- [x] Storing data for analysis by an on-premises or Azure-hosted service

✓ **Correct**
Blob Storage is ideal for storing data for analysis by an on-premises or cloud service.

- [x] Storing data for backup and restore, disaster recovery, and archiving

✓ **Correct**
Blob Storage is ideal for storing data for backup and restore, disaster recovery, and archiving.

- [x] Serving images or documents directly to a browser

✓ **Correct**
Blob Storage is ideal for serving images or documents directly to a browser.

- [ ] Storing data that is queried frequently

11. When connecting an app to multiple storage accounts, what will your app require? **1 / 1 point**

- ( ) A Shared Access Key
- (•) An Access key for each storage account
- ( ) A single Access key to gain access to all storage accounts

✓ **Correct**

Each storage account has two unique access keys that are used to secure it. If your app needs to connect to multiple storage accounts, your app will require an access key for each storage account.

12. By default, storage accounts accept connections from clients on any network. To limit access to selected networks you must first change this default action. **1 / 1 point**

Which of the following can you use to restrict access to selected networks?

- [x] Specific IP Addresses

✓ **Correct**
You can restrict access to specific IP Addresses.

- [x] Ranges of Ip addresses

✓ **Correct**
You can restrict access to a range of IP Addresses.

- [ ] Resource Group
- [x] Virtual Networks

✓ **Correct**
You can restrict access to a Virtual Network.

13. Azure Storage supports Azure Active Directory and role-based access control (or RBAC) for both resource management and data operations. You can assign RBAC roles that are scoped to which of the following? **1 / 1 point**

Select all options that apply.

- [x] A subscription,

✓ **Correct**
Azure Storage supports Azure Active Directory and role-based access control (or RBAC) for both resource management and data operations. you can assign RBAC roles that are scoped to an individual container, An individual queue, the storage account, the resource group, the subscription, and a management group.

- [x] An individual container or queue

✓ **Correct**
Azure Storage supports Azure Active Directory and role-based access control (or RBAC) for both resource management and data operations. you can assign RBAC roles that are scoped to an individual container, An individual queue, the storage account, the resource group, the subscription, and a management group.

- [x] A Resource group

✓ **Correct**
Azure Storage supports Azure Active Directory and role-based access control (or RBAC) for both resource management and data operations. you can assign RBAC roles that are scoped to an individual container, An individual queue, the storage account, the resource group, the subscription, and a management group.

- [x] A storage account

✓ **Correct**
Azure Storage supports Azure Active Directory and role-based access control (or RBAC) for both resource management and data operations. you can assign RBAC roles that are scoped to an individual container, An individual queue, the storage account, the resource group, the subscription, and a management group.

- [ ] Table

14. You can use a service-level SAS to allow access to specific resources in a storage account. What can you use this type of SAS to do? **1 / 1 point**

Select all options that apply.

- [x] To allow an app to download a file.

✓ **Correct**
You can use a service-level SAS to manage access to specific resources in a storage account. You can use this type of SAS, for example, to allow an app to download a file.

- [x] To allow an app to retrieve a list of files in a file system.

✓ **Correct**

You can use a service-level SAS to manage access to specific resources in a storage account. You can use this type of SAS, for example, to allow an app to retrieve a list of files in a file system.

- [ ] To allow an app or user to create file systems

15. **1 / 1 point**

Which of the following statements is true of storage accounts and blob containers?

- ○ Every blob lives inside a blob container. You can only store a limited number of blobs in a container and a limited number of containers in a storage account.
- ○ Every blob lives inside a blob container. You can store a limited number of blobs in a container and an unlimited number of containers in a storage account.
- ◉ Every blob lives inside a blob container. You can store an unlimited number of blobs in a container and an unlimited number of containers in a storage account.

✓ **Correct**

Every blob lives inside a blob container. You can store an unlimited number of blobs in a container and an unlimited number of containers in a storage account.