



AZ-301^{Q&As}

Microsoft Azure Architect Design

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QUESTION 1

You plan to store data in Azure Blob storage for many years. The stored data will be accessed rarely.

You need to ensure that the data in Blob storage is always available for immediate access. The solution must minimize storage costs.

Which storage tier should you use?

- A. Cool
- B. Archive
- C. Hot

Correct Answer: A

Azure cool tier is equivalent to the Amazon S3 Infrequent Access (S3-IA) storage in AWS that provides a low cost high performance storage for infrequently access data.

Note: Azure's cool storage tier, also known as Azure cool Blob storage, is for infrequently-accessed data that needs to be stored for a minimum of 30 days. Typical use cases include backing up data before tiering to archival systems, legal data, media files, system audit information, datasets used for big data analysis and more. The storage cost for this Azure cold storage tier is lower than that of hot storage tier. Since it is expected that the data stored in this tier will be accessed less frequently, the data access charges are high when compared to hot tier. There are

no additional changes required in your applications as these tiers can be accessed using APIs in the same manner that you access Azure storage. Incorrect Answers:

B: Even though Azure archive storage offers the lowest cost in terms of data storage, its data retrieval charges are higher than that of hot and cool tiers. In fact, the data in the archive tier remains offline until the tier of the data is changed using a process called hydration. The process of hydrating data in the archive storage tier and moving it to either hot or cool tier could take up to 15 hours and, hence, it is only intended for data that can afford that kind of access delay.

C: The storage cost for this Azure cold storage tier is lower than that of hot storage tier.

Reference: <https://cloud.netapp.com/blog/low-cost-storage-options-on-azure>

QUESTION 2

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while

others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have an Azure Storage account that contains two 1-GB data files named File1 and File2. The data files are set to use the archive access tier.



You need to ensure that File1 is accessible immediately when a retrieval request is initiated.

Solution: For File1, you set Access tier to Hot.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

The hot access tier has higher storage costs than cool and archive tiers, but the lowest access costs. Example usage scenarios for the hot access tier include:

1.

Data that's in active use or expected to be accessed (read from and written to) frequently.

2.

Data that's staged for processing and eventual migration to the cool access tier.

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

QUESTION 3

You develop a new Azure Web App that uses multiple Azure blobs and static content. The Web App uses a large number of JavaScript files and cascading style sheets. Some of these files contain references to other files. Users are geographically dispersed.

You need to minimize the time to load individual pages.

What should you do?

A. Migrate the Web App to Azure Service Fabric

B. Use an Azure Content Delivery Network (CDN)

C. Implement an Azure Redis Cache

D. Create a services layer by using an Azure-hosted ASP.NET web API

E. Enable the Always On feature of the Web App

Correct Answer: B

QUESTION 4

You have a .NET web service named Service1 that has the following requirements:

1.



Must read and write temporary files to the local file system.

2.

Must write to the Windows Application event log.

You need to recommend a solution to host Service1 in Azure. The solution must meet the following requirements:

1.

Minimize maintenance overhead.

2.

Minimize costs.

What should you include in the recommendation?

A. an Azure virtual machine scale set

B. an Azure function

C. an App Service Environment

D. an Azure web app

Correct Answer: A

QUESTION 5

You need to recommend a backup solution for the data store of the payment processing system. What should you include in the recommendation?

A. Microsoft System Center Data Protection Manager (DPM)

B. Azure SQL long-term backup retention

C. Azure Backup Server

D. a Recovery Services vault

E. Azure Managed Disks

Correct Answer: B

Reference: <https://docs.microsoft.com/en-us/azure/sql-database/sql-database-long-term-backup-retention-configure>

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