AZ-301^{Q&As}

Microsoft Azure Architect Design

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QUESTION 1

DRAG DROP

A company named Contoso, Ltd. has an Azure Active Directory (Azure AD) tenant that uses the Basic license.

You plan to deploy two applications to Azure. The application has the requirements shown in the following table.

Application name	Requirement
Customer	Users must authenticate by using a personal Microsoft account and multi-factor authentication.
Reporting	Users must authenticate by using either Contoso credentials or a personal Microsoft account. You must be able to manage the accounts from Azure AD.

Which authentication Strategy should you recommend for each application? To answer, drag the appropriate authentication strategies to the correct applications. Each authentication strategy may be used once, more than once, or not at all.

You need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Authentication Strategies

An Azure AD B2C tenant	An Azure AD v2.0 endpoint
An Azure AD v1.0 endpoint	

Answer Area

Customer: [ ]

Reporting: [ ]

Correct Answer:

Authentication Strategies

An Azure AD v1.0 endpoint	

Answer Area

Customer: An Azure AD v2.0 endpoint

Reporting: An Azure AD B2C tenant

Box 1: Azure AD V2.0 endpoint

Microsoft identity platform is an evolution of the Azure Active Directory (Azure AD) developer platform. It allows developers to build applications that sign in all Microsoft identities and get tokens to call Microsoft APIs, such as Microsoft Graph,

or APIs that developers have built. The Microsoft identity platform consists of:

OAuth 2.0 and OpenID Connect standard-compliant authentication service that enables developers to authenticate any Microsoft identity, including:

Work or school accounts (provisioned through Azure AD)

Personal Microsoft accounts (such as Skype, Xbox, and Outlook.com)

Social or local accounts (via Azure AD B2C)

Box 2: Azure AD B2C tenant

Azure Active Directory B2C provides business-to-customer identity as a service. Your customers use their preferred social, enterprise, or local account identities to get single sign-on access to your applications and APIs.

Azure Active Directory B2C (Azure AD B2C) integrates directly with Azure Multi-Factor Authentication so that you can add a second layer of security to sign-up and sign-in experiences in your applications.

Reference:

https://docs.microsoft.com/en-us/azure/active-directory-b2c/active-directory-b2c-reference-mfa

https://docs.microsoft.com/en-us/azure/active-directory/develop/v2-overview

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QUESTION 2

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 3

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

A. Microsoft System Center Data Protection Manager (DPM)

B. long-term retention

C. a Recovery Services vault

D. Azure Backup Server

Correct Answer: B

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

QUESTION 4

Note: This question is a part of 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 are designing an Azure solution for a company that has four departments. Each department will deploy several Azure app services and Azure SQL databases.

You need to recommend a solution to report the costs for each department to deploy the app services and the databases. The solution must provide a consolidated view for cost reporting.

Solution: Create a new subscription for each department.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead, create a resources group for each resource type. Assign tags to each resource

Note: Tags enable you to retrieve related resources from different resource groups. This approach is helpful when you need to organize resources for billing or management.

Reference: https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-using-tags

QUESTION 5

You plan to deploy a payroll system to Azure. The payroll system will use Azure virtual machines that run SUSE Linux Enterprise Server and Windows. You need to recommend a business continuity solution for the payroll system. The solution must meet the following requirements:

1.

 Minimize costs.

2.

 Provide business continuity if an Azure region fails.

3.

 Provide a recovery time objective (RTO) of 30 minutes.

4.

 Provide a recovery point objective (RPO) of five minutes. What should you include in the recommendation?

A. Microsoft System Center Data Protection Manager (DPM)

B. Azure Site Recovery

C. unmanaged disks that use geo-redundant storage (GRS)

D. Azure Backup

Correct Answer: C

If your storage account has GRS enabled, then your data is durable even in the case of a complete regional outage or a disaster in which the primary region isn\\\'t recoverable.

Note: The recovery time objective (RTO) is the targeted duration of time and a service level within which a business process must be restored after a disaster (or disruption) in order to avoid unacceptable consequences associated with a break in business continuity.

Incorrect Answers:

B: Azure Site Recovery would not protect against an Azure region failure. Azure Site Recovery guarantees a two-hour Recovery Time Objective. Reference:

https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy-grs https://azure.microsoft.com/en-us/support/legal/sla/site-recovery/v1_0/