

AZ-304^{Q&As}

Microsoft Azure Architect Design Exam

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QUESTION 1

HOTSPOT

You need to recommend a solution for the users at Contoso to authenticate to the cloud-based services and the Azure AD-integrated applications.

What should you include in the recommendation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Install Azure AD Connect and set the user sign-in option to:

	▼
Federation with AD FS	
Pass-through Authentication	
Password Synchronization	

Implement load balancing for the components of the authentication solution by using:

	▼
Azure Application Gateway and a Basic Load Balancer	
Azure Application Gateway and a Standard Load Balancer	
Traffic Manager and a Basic Load Balancer	
Traffic Manager and a Standard Load Balancer	

Correct Answer:

Install Azure AD Connect and set the user sign-in option to:

Federation with AD FS
Pass-through Authentication
Password Synchronization

Implement load balancing for the components of the authentication solution by using:

Azure Application Gateway and a Basic Load Balancer
Azure Application Gateway and a Standard Load Balancer
Traffic Manager and a Basic Load Balancer
Traffic Manager and a Standard Load Balancer

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

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 applications have 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 may 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 v1.0 endpoint
- An Azure AD v2.0 endpoint

Answer Area

Customer:

Authentication strategy

Reporting:

Authentication strategy

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>

QUESTION 4

HOTSPOT

You are reviewing the budget for Azure Storage as shown in the exhibit (Click the Exhibit tab.) All the virtual machines in the Azure subscription use Premium storage.

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: correct selection is worth one point.

Hot Area:

Deallocating the virtual machines will [answer choice]

▼
have no impact on storage costs
increase storage costs
reduce storage costs

Shutting down the virtual machines will [answer choice]

▼
have no impact on storage costs
increase storage costs
reduce storage costs

Correct Answer:

Deallocating the virtual machines will [answer choice]

▼
have no impact on storage costs
increase storage costs
reduce storage costs

Shutting down the virtual machines will [answer choice]

▼
have no impact on storage costs
increase storage costs
reduce storage costs

QUESTION 5

Use the following login credentials as needed:

To enter your username, place your cursor in the Sign in box and click on the username below.

To enter your password, place your cursor in the Enter password box and click on the password below.

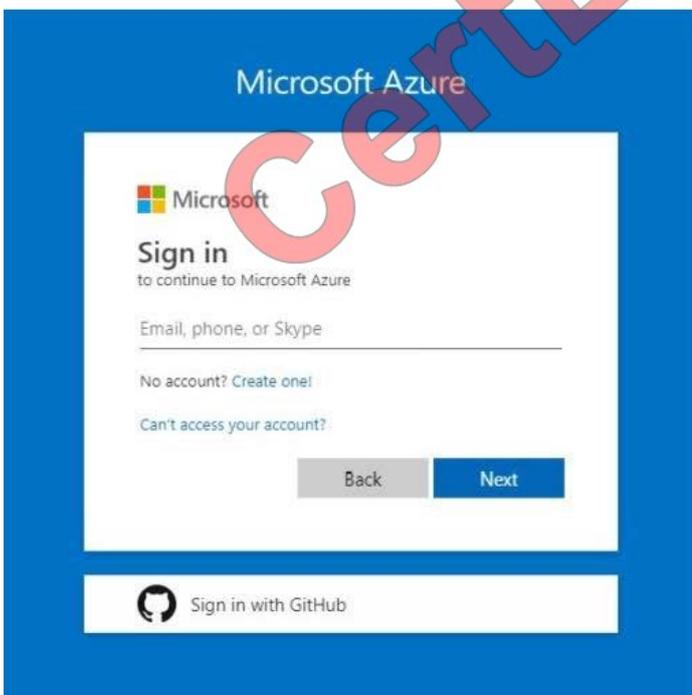
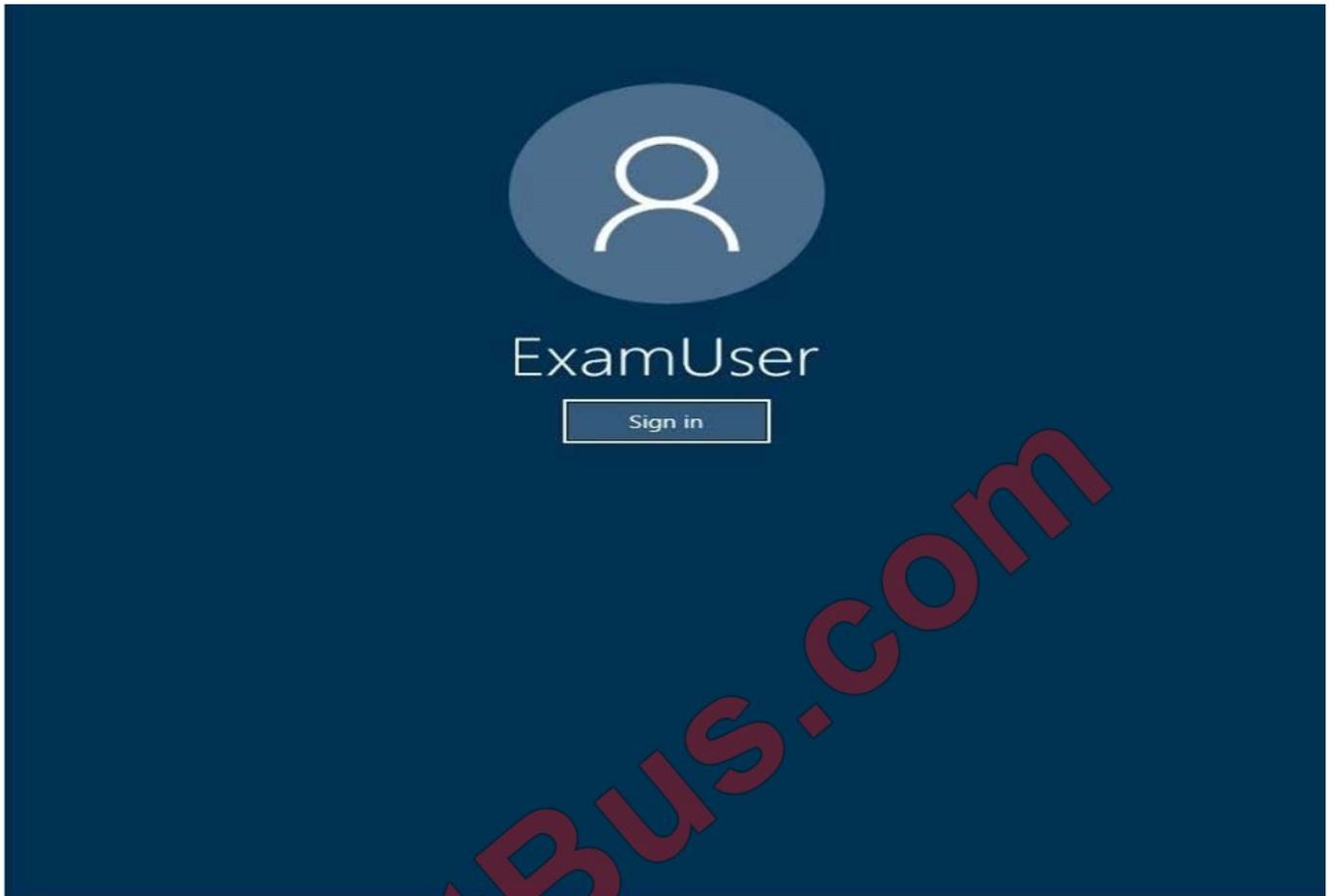
Azure Username: User1-10989444@ExamUsers.com

Azure Password: KJn29!aBBB

If the Azure portal does not load successfully in the browser, press CTRL-K to reload the portal in a new browser tab.

The following information is for technical support purposes only:

Lab Instance: 10989444



You need to recommend a solution to ensure that connections to NWVM1 and NWVM3 are load balanced.

What should you recommend?

NOTE: To answer this question, sign in to the Azure portal and explore an Azure resource group named ResourceGroup1lod10989444.

- A. one Recovery Services vault
- B. one Azure Traffic Manager
- C. one Azure Load Balancer
- D. two Azure Load Balancers

Correct Answer: C

The job of Azure Load Balancer is to direct traffic inside a region.

Incorrect Answers:

B: The job of Azure Traffic Manager is to route traffic globally based on flexible policies, enabling an excellent user experience that aligns with how you've structured your application across the world.

Reference: <https://www.concurrency.com/blog/w/azure-traffic-manager-vs-azure-load-balancer>

QUESTION 6

You have an Azure SQL database named DB1.

An application queries DB1 by using the following SQL query:

```
Select * from Table1 where ID=100
```

You need to monitor how many times the query is executed per hour.

What should you use?

- A. Azure Monitor
- B. Query Performance Insight
- C. Query Store

Correct Answer: B

QUESTION 7

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 120 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/

QUESTION 8

You need to design a solution that will execute custom C# code in response to an event routed to Azure Event Grid. The solution must meet the following requirements:

The executed code must be able to access the private IP address of a Microsoft SQL Server instance that runs on an Azure virtual machine.

Costs must be minimized.

What should you include in the solution?

- A. Azure Logic Apps in the integrated service environment
- B. Azure Functions in the Dedicated plan and the Basic Azure App Service plan
- C. Azure Logic Apps in the Consumption plan

D. Azure Functions in the Consumption plan

Correct Answer: D

When you create a function app in Azure, you must choose a hosting plan for your app. There are three basic hosting plans available for Azure Functions: Consumption plan, Premium plan, and Dedicated (App Service) plan.

For the Consumption plan, you don't have to pay for idle VMs or reserve capacity in advance.

Connect to private endpoints with Azure Functions

As enterprises continue to adopt serverless (and Platform-as-a-Service, or PaaS) solutions, they often need a way to integrate with existing resources on a virtual network. These existing resources could be databases, file storage, message

queues or event streams, or REST APIs.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-scale> <https://techcommunity.microsoft.com/t5/azure-functions/connect-to-private-endpoints-with-azure-functions/ba-p/1426615>

QUESTION 9

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 10

You need to recommend a solution for implementing the back-end tier of the payment processing system in Azure. What should you include in the recommendation?

- A. an Azure SQL Database managed instance
- B. a SQL Server database on an Azure virtual machine
- C. an Azure SQL Database single database
- D. an Azure SQL Database elastic pool

Correct Answer: C

QUESTION 11

Your network contains an on-premises Active Directory forest named contoso.com. The forest is synced to an Azure Active Directory (Azure AD) tenant named contoso.com and an Azure AD Domain Services (Azure AD DS) domain named

contoso-aad.com.

You have an Azure Storage account named Storage1 that contains a file share named Share1.

You configure NTFS permissions on Share1. You plan to deploy a virtual machine that will be used by several users to access Share1.

You need to ensure that the users can access Share1.

Which type virtual machine should you deploy?

- A. a virtual machine that runs Windows Server 2016 and is joined to the contoso.com domain
- B. a virtual machine that runs Windows 10 and is joined to the contoso-add.com domain
- C. a virtual machine that runs Windows 10 and is hybrid Azure AD joined to the contoso.com domain
- D. an Azure virtual machine that runs Windows Server 2016 and is joined to the contoso-add.com domain

Correct Answer: D

You join the Windows Server virtual machine to the Azure AD DS-managed domain, here named contoso-aad.com.

Note: Azure Files supports identity-based authentication over SMB (Server Message Block) (preview) through Azure

Active Directory (Azure AD) Domain Services. Your domain-joined Windows virtual machines (VMs) can access Azure file

shares using Azure AD credentials.

Incorrect Answers:

B, C: Azure AD authentication over SMB is not supported for Linux VMs for the preview release. Only Windows Server VMs are supported.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/files/storage-files-active-directory-enable#mount-a-file-share-from-a-domain-joined-vm>

QUESTION 12

You are developing a sales application that will contain several Azure cloud services and will handle different components of a transaction. Different cloud services will process customer orders, billing, payment, inventory, and shipping.

You need to recommend a solution to enable the cloud services to asynchronously communicate transaction information by using REST messages.

What would you include in the recommendation?

- A. Azure Traffic Manager
- B. Azure Notification Hubs
- C. Azure Blob storage
- D. Azure Queue storage

Correct Answer: D

Asynchronous messaging can be implemented in a variety of different ways. With queues, topics, and subscriptions.

The queue service REST API: The Queue service stores messages that may be read by any client who has access to the storage account.

Incorrect Answers:

B: Azure Notification Hubs provide an easy-to-use and scaled-out push engine that allows you to send notifications to any platform. This communication is not asynchronous, however.

Reference: <https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-async-messaging>
<https://docs.microsoft.com/en-us/rest/api/storageservices/queue-service-rest-api>

QUESTION 13

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

- A. Always Encrypted with deterministic encryption
- B. Always Encrypted with randomized encryption
- C. Transparent Data Encryption (TDE)
- D. Azure Storage Service Encryption

Correct Answer: A

QUESTION 14

DRAG DROP

You are designing a network connectivity strategy for a new Azure subscription. You identify the following requirements:

1.

The Azure virtual machines on a subnet named Subnet1 must be accessible only from the computers in your London office.

2.

Engineers require access to the Azure virtual machines on a subnet named Subnet2 over the Internet on a specific TCP/IP management port.

3.

The Azure virtual machines in the West Europe Azure region must be able to communicate on all ports to the Azure virtual machines in the North Europe Azure region.

4.

Azure virtual machines on Subnet1 and Subnet2 have public IP addresses.

You need to recommend which components must be used to meet the requirements. The solution must minimize costs and administrative effort whenever possible.

What should you include in the recommendation? To answer, drag the appropriate components to the correct requirements. Each component may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Components

An Azure ExpressRoute connection

A network security group (NSG)

A new virtual network

A site-to-site VPN

Virtual network peering

Answer Area

The Azure virtual machines on Subnet1 must be accessible only from the computers in the London office:

Engineers require access to the Azure virtual machines on Subnet2 over the Internet on a specific TCP/IP management port:

The Azure virtual machines in the West Europe region must be able to communicate on all ports to the Azure virtual machines in the North Europe region:

Component

Component

Component

Correct Answer:

Components

An Azure ExpressRoute connection

A new virtual network

Answer Area

The Azure virtual machines on Subnet1 must be accessible only from the computers in the London office:

Engineers require access to the Azure virtual machines on Subnet2 over the Internet on a specific TCP/IP management port:

The Azure virtual machines in the West Europe region must be able to communicate on all ports to the Azure virtual machines in the North Europe region:

A site-to-site VPN

A network security group (NSG)

Virtual network peering

QUESTION 15

Your company has several Azure subscriptions that are part of a Microsoft Enterprise Agreement. The company's compliance team creates automatic alerts by using Azure Monitor.

You need to recommend a solution to automatically recreate the alerts in the new Azure subscriptions that are added to the Enterprise Agreement

What should you include in the recommendation?

- A. Azure Automation runbooks
- B. Azure Log Analytics alerts
- C. Azure Monitor action groups
- D. Azure Resource Manager templates

E. Azure Policy

Correct Answer: E

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