

# Microsoft

## Exam Questions AZ-305

Designing Microsoft Azure Infrastructure Solutions



## NEW QUESTION 1

- (Exam Topic 5)

You have an Azure subscription that contains a storage account.

An application sometimes writes duplicate files to the storage account.

You have a PowerShell script that identifies and deletes duplicate files in the storage account. Currently, the script is run manually after approval from the operations manager.

You need to recommend a serverless solution that performs the following actions:

- Runs the script once an hour to identify whether duplicate files exist
- Processes an email response from the operations manager specifying whether the deletion was approved
- Runs the script if the deletion was approved

What should you include in the recommendation?

- A. Azure Logic Apps and Azure Functions
- B. Azure Pipelines and Azure Service Fabric
- C. Azure Logic Apps and Azure Event Grid
- D. Azure Functions and Azure Batch

**Answer: A**

### Explanation:

You can schedule a powershell script with Azure Logic Apps.

When you want to run code that performs a specific job in your logic apps, you can create your own function by using Azure Functions. This service helps you create Node.js, C#, and F# functions so you don't have to build a complete app or infrastructure to run code. You can also call logic apps from inside Azure functions. Azure Functions provides serverless computing in the cloud and is useful for performing tasks such as these examples:

Reference:

<https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-azure-functions>

## NEW QUESTION 2

- (Exam Topic 5)

You plan to deploy the backup policy shown in the following exhibit.

Policy1

Associated items
Delete
Save
Discard

Backup frequency

Daily

6:00 PM

(UTC) Coordinated Universal Time

Retention range

☒ Retention of daily backup point.

\* At

6:00 PM

For

90

Day(s)

☒ Retention of weekly backup point.

\* On

Sunday

\* At

6:00 PM

For

26

Week(s)

☒ Retention of monthly backup point.

\* On

First

\* Day

Sunday

\* At

6:00 PM

For

36

Month(s)

☐ Retention of yearly backup point.

Not Configured

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

NOTE: Each correct selection is worth one point.

## Answer Area

Virtual machines that are backed up by using the policy can be recovered for up to a maximum of [answer choice]:

	▼
90 days	
26 weeks	
36 months	
45 months	

The minimum recovery point objective (RPO) for virtual machines that are backed up by using the policy is [answer choice]:

	▼
1 hour	
1 day	
1 week	
1 month	
1 year	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

<https://docs.microsoft.com/en-us/azure/backup/backup-azure-vm-backup-faq#what-s-the-minimum-rpo-and-rto>

### NEW QUESTION 3

- (Exam Topic 5)

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

**Answer:** D

**Explanation:**

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> Reference:

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-scale#hosting-plans-comparison>

### NEW QUESTION 4

- (Exam Topic 5)

You have an application that is used by 6,000 users to validate their vacation requests. The application manages its own credential

Users must enter a username and password to access the application. The application does NOT support identity providers.

You plan to upgrade the application to use single sign-on (SSO) authentication by using an Azure Active Directory (Azure AD) application registration.

Which SSO method should you use?

- A. password-based
- B. OpenID Connect
- C. header-based
- D. SAML

**Answer:** D

### NEW QUESTION 5

- (Exam Topic 5)

You architect a solution that calculates 3D geometry from height-map data. You have the following requirements:

Perform calculations in Azure.

Each node must communicate data to every other node.

Maximize the number of nodes to calculate multiple scenes as fast as possible.  
Require the least amount of effort to implement. You need to recommend a solution.  
Which two actions should you recommend? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Create a render farm that uses Azure Batch.
- B. Enable parallel file systems on Azure.
- C. Enable parallel task execution on compute nodes.
- D. Create a render farm that uses virtual machine (VM) scale sets.
- E. Create a render farm that uses virtual machines (VMs).

**Answer:** AC

#### NEW QUESTION 6

- (Exam Topic 5)

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.

Your company plans to deploy various Azure App Service instances that will use Azure SQL databases. The App Service instances will be deployed at the same time as the Azure SQL databases.

The company has a regulatory requirement to deploy the App Service instances only to specific Azure regions. The resources for the App Service instances must reside in the same region.

You need to recommend a solution to meet the regulatory requirement.

Solution: You recommend using an Azure policy to enforce the resource group location. Does this meet the goal?

- A. Yes
- B. No

**Answer:** A

#### Explanation:

Azure Resource Policy Definitions can be used which can be applied to a specific Resource Group with the App Service instances.

Reference:

<https://docs.microsoft.com/en-us/azure/governance/policy/overview>

#### NEW QUESTION 7

- (Exam Topic 5)

Your company has an app named App1 that uses data from the on-premises Microsoft SQL Server databases shown in the following table.

Name	Size
DB1	450 GB
DB2	250 GB
DB3	300 GB
DB4	50 GB

App1 and the data are used on the first day of the month only. The data is not expected to grow more than 3% each year.

The company is rewriting App1 as an Azure web app and plans to migrate all the data to Azure. You need to migrate the data to Azure SQL Database. The solution must minimize costs. Which service tier should you use?

- A. vCore-based Business Critical
- B. vCore-based General Purpose
- C. DTU-based Standard
- D. DTU-based Basic

**Answer:** C

#### Explanation:

DTU-based Standard supports databases up to 1 TB in size. Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/service-tiers-dtu>

#### NEW QUESTION 8

- (Exam Topic 5)

You plan to deploy the backup policy shown in the following exhibit.

Policy1

Associated items

Delete

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Discard

Backup frequency

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Retention range

Retention of daily backup point.

At

For

Day(s)

6:00 PM90

Retention of weekly backup point.

On

At

For

Week(s)

Sunday6:00 PM26

Retention of monthly backup point.

Week Based

Day Based

On

Day

At

For

Month(s)

FirstSunday6:00 PM36

Retention of yearly backup point.

Not Configured

Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.  
NOTE: Each correct selection is worth one point.

Virtual machines that are backed up using the policy can be recovered for up to a maximum of [answer choice].

90 days

26 weeks

36 months

45 months

The minimum recovery point objective (RPO) for virtual machines that are backed up by using the policy is [answer choice].

1 hour

1 day

1 week

1 month

1 year

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:  
Graphical user interface, text, application Description automatically generated

NEW QUESTION 9  
- (Exam Topic 5)

A company named Contoso, Ltd. has an Azure Active Directory (Azure AD) tenant that is integrated with Microsoft Office 365 and an Azure subscription. Contoso has an on-premises identity infrastructure. The infrastructure includes servers that run Active Directory Domain Services (AD DS), and Azure AD Connect. Contoso has a partnership with a company named Fabrikam, Inc. Fabrikam has an Active Directory forest and an Office 365 tenant. Fabrikam has the same on-premises identity infrastructure as Contoso. A team of 10 developers from Fabrikam will work on an Azure solution that will be hosted in the Azure subscription of Contoso. The developers must be added to the Contributor role for a resource in the Contoso subscription. You need to recommend a solution to ensure that Contoso can assign the role to the 10 Fabrikam developers. The solution must ensure that the Fabrikam developers use their existing credentials to access resources. What should you recommend?

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- A. Configure a forest trust between the on-premises Active Directory forests of Contoso and Fabrikam.
- B. Configure an organization relationship between the Office 365 tenants of Fabrikam and Contoso.
- C. In the Azure AD tenant of Contoso, use MIM to create guest accounts for the Fabrikam developers.
- D. Configure an AD FS relying party trust between the fabrikam and Contoso AD FS infrastructures.

**Answer:** A

**Explanation:**

Trust configurations - Configure trust from managed forests(s) or domain(s) to the administrative forest

- A one-way trust is required from production environment to the admin forest.
- Selective authentication should be used to restrict accounts in the admin forest to only logging on to the appropriate production hosts.

References:

<https://docs.microsoft.com/en-us/windows-server/identity/securing-privileged-access/securing-privileged-access>

**NEW QUESTION 10**

- (Exam Topic 5)

You plan to archive 10 TB of on-premises data files to Azure.

You need to recommend a data archival solution. The solution must minimize the cost of storing the data files. Which Azure Storage account type should you include in the recommendation?

- A. Standard StorageV2 (general purpose v2)
- B. Standard Storage (general purpose v1)
- C. Premium StorageV2 (general purpose v2)
- D. Premium Storage (general purpose v1)

**Answer:** A

**Explanation:**

Standard StorageV2 supports the Archive access tier, which would be the cheapest solution. Reference:

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

**NEW QUESTION 10**

- (Exam Topic 5)

You have the resources shown in the following table.

Name	Type
AS1	Azure Synapse Analytics instance
CDB1	Azure Cosmos DB SQL API account

CDB1 hosts a container that stores continuously updated operational data

You are designing a solution that will use AS1 to analyze the operational data dairy.

You need to recommend a solution to analyze the data without affecting the performance of the operational data store.

What should you include in the recommendation?

- A. Azure Data Factory with Azure Cosmos DB and Azure Synapse Analytics connectors
- B. Azure Synapse Analytics with PolyBase data loading
- C. Azure Cosmos DB change feed

**Answer:** B

**NEW QUESTION 15**

- (Exam Topic 5)

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.

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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 that displays cost broken down by department.

Solution: Create a separate resource group for each department. Place the resources for each department in its respective resource group.

Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

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

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>

**NEW QUESTION 16**

- (Exam Topic 5)

Your company, named Contoso, Ltd, implements several Azure logic apps that have HTTP triggers: The logic apps provide access to an on-premises web service.

Contoso establishes a partnership with another company named Fabrikam, Inc.

Fabrikam does not have an existing Azure Active Directory (Azure AD) tenant and uses third-party OAuth 2.0 identity management to authenticate its users.

Developers at Fabrikam plan to use a subset of the logics apps to build applications that will integrate with the on-premises web service of Contoso.

You need to design a solution to provide the Fabrikam developers with access to the logic apps. The solution must meet the following requirements:

- Requests to the logic apps from the developers must be limited to lower rates than the requests from the users at Contoso.
- The developers must be able to rely on their existing OAuth 2.0 provider to gain access to the logic apps.
- The solution must NOT require changes to the logic apps.
- The solution must NOT use Azure AD guest accounts.

What should you include in the solution?

- A. Azure AD business-to-business (B2B)
- B. Azure Front Door
- C. Azure API Management
- D. Azure AD Application Proxy

**Answer: C**

**Explanation:**

API Management helps organizations publish APIs to external, partner, and internal developers to unlock the potential of their data and services.

You can secure API Management using the OAuth 2.0 client credentials flow. Reference:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-key-concepts> <https://docs.microsoft.com/en-us/azure/api-management/api-management-features> <https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-protect-backend-with-aad#ena>

**NEW QUESTION 19**

- (Exam Topic 5)

You have an Azure subscription.

You need to deploy an Azure Kubernetes Service (AKS) solution that will use Linux nodes. The solution must meet the following requirements:

- Minimize the time it takes to provision compute resources during scale-out operations.
- Support autoscaling of Linux containers.
- Minimize administrative effort.

Which scaling option should you recommend?

- A. Virtual Kubelet
- B. cluster autoscaler
- C. horizontal pod autoscaler
- D. AKS virtual nodes

**Answer: D**

**Explanation:**

<https://docs.microsoft.com/en-us/azure/aks/virtual-nodes>

**NEW QUESTION 21**

- (Exam Topic 5)

Your company has 300 virtual machines hosted in a VMware environment. The virtual machines vary in size and have various utilization levels.

You plan to move all the virtual machines to Azure.

You need to recommend how many and what size Azure virtual machines will be required to move the current workloads to Azure. The solution must minimize administrative effort.

What should you use to make the recommendation?

- A. Azure Cost Management
- B. Azure Pricing calculator
- C. Azure Migrate
- D. Azure Advisor

**Answer: C**

**Explanation:**

<https://docs.microsoft.com/en-us/azure/migrate/migrate-appliance#collected-data---vmware>

"Metadata discovered by the Azure Migrate appliance helps you to figure out whether servers are ready for migration to Azure, right-size servers, plans costs, and analyze application dependencies".

<https://docs.microsoft.com/en-us/learn/modules/design-your-migration-to-azure/2-plan-your-azure-migration>

**NEW QUESTION 24**

- (Exam Topic 5)

You plan to deploy an Azure App Service web app that will have multiple instances across multiple Azure regions.

You need to recommend a load balancing service for the planned deployment. The solution must meet the following requirements:

- Maintain access to the app in the event of a regional outage.
- Support Azure Web Application Firewall (WAF).
- Support cookie-based affinity.
- Support URL routing.

What should you include in the recommendation?

- A. Azure Front Door
- B. Azure Load Balancer
- C. Azure Traffic Manager
- D. Azure Application Gateway

**Answer: B**

**Explanation:**

Azure Traffic Manager performs the global load balancing of web traffic across Azure regions, which have a regional load balancer based on Azure Application Gateway. This combination gets you the benefits of Traffic Manager many routing rules and Application Gateway’s capabilities such as WAF, TLS termination, path-based routing, cookie-based session affinity among others.  
 Reference:  
<https://docs.microsoft.com/en-us/azure/application-gateway/features>

**NEW QUESTION 26**

- (Exam Topic 5)  
 You plan to develop a new app that will store business critical data. The app must meet the following requirements:

- Prevent new data from being modified for one year.
- Maximize data resiliency.
- Minimize read latency.

What storage solution should you recommend for the app? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

**Answer Area**

Storage Account type:

Standard general-purpose v1  
 Standard general-purpose v2  
 Premium block blobs

These are the selections for Storage Account type.

Redundancy:

Zone-redundant storage (ZRS)  
 Locally-redundant storage (LRS)  
 Read-access geo-redundant storage (RA-GRS)

- A. Mastered  
 B. Not Mastered

**Answer: A**

**Explanation:**

**Answer Area**

Storage Account type:

Standard general-purpose v1  
 Standard general-purpose v2  
 Premium block blobs

These are the selections for Storage Account type.

Redundancy:

Zone-redundant storage (ZRS)  
 Locally-redundant storage (LRS)  
 Read-access geo-redundant storage (RA-GRS)

**NEW QUESTION 27**

- (Exam Topic 5)  
 You have the Azure resources shown in the following table.

Name	Type	Description
VNET1	Virtual network	Connected to an on-premises network by using ExpressRoute
VM1	Virtual machine	Configured as a DNS server
SQLDB1	Azure SQL Database	Single instance
PE1	Private endpoint	Provides connectivity to SQLDB1
contoso.com	Private DNS zone	Linked to VNET1 and contains an A record for PE1
contoso.com	Public DNS zone	Contains a CNAME record for SQLDB1

You need to design a solution that provides on-premises network connectivity to SQLDB1 through PE1. How should you configure name resolution? To answer, select the appropriate options in the answer area.



Azure configuration:

Configure VM1 to forward contoso.com to the public DNS zone.  
 Configure VM1 to forward contoso.com to the Azure-provided DNS at 168.63.129.16.  
 In VNet1, configure a custom DNS server set to the Azure-provided DNS at 168.63.129.16.

On-premises DNS configuration:

Forward contoso.com to VM1.  
 Forward contoso.com to the public DNS zone.  
 Forward contoso.com to the Azure-provided DNS at 168.63.129.16.

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Azure configuration:

Configure VM1 to forward contoso.com to the public DNS zone.  
 Configure VM1 to forward contoso.com to the Azure-provided DNS at 168.63.129.16.  
 In VNet1, configure a custom DNS server set to the Azure-provided DNS at 168.63.129.16.

On-premises DNS configuration:

Forward contoso.com to VM1.  
 Forward contoso.com to the public DNS zone.  
 Forward contoso.com to the Azure-provided DNS at 168.63.129.16.

#### NEW QUESTION 32

- (Exam Topic 5)

You store web access logs data in Azure Blob storage. You plan to generate monthly reports from the access logs.

You need to recommend an automated process to upload the data to Azure SQL Database every month. What should you include in the recommendation?

- A. Azure Data Factory
- B. Data Migration Assistant
- C. Microsoft SQL Server Migration Assistant (SSMA)
- D. AzCopy

**Answer: A**

**Explanation:**

Azure Data Factory is the platform that solves such data scenarios. It is the cloud-based ETL and data integration service that allows you to create data-driven workflows for orchestrating data movement and transforming data at scale. Using Azure Data Factory, you can create and schedule data-driven workflows (called pipelines) that can ingest data from disparate data stores. You can build complex ETL processes that transform data visually with data flows or by using compute services such as Azure HDInsight Hadoop, Azure Databricks, and Azure SQL Database.

Reference:

<https://docs.microsoft.com/en-gb/azure/data-factory/introduction>

#### NEW QUESTION 37

- (Exam Topic 5)

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Your company plans to deploy various Azure App Service instances that will use Azure SQL databases. The App Service instances will be deployed at the same time as the Azure SQL databases.

The company has a regulatory requirement to deploy the App Service instances only to specific Azure regions. The resources for the App Service instances must reside in the same region.

You need to recommend a solution to meet the regulatory requirement.

Solution: You recommend creating resource groups based on locations and implementing resource locks on the resource groups.

Does this meet the goal?

- A. Yes
- B. No

**Answer: B**

**Explanation:**

Resource locks are not used for compliance purposes. Resource locks prevent changes from being made to resources.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/lock-resources>

#### NEW QUESTION 39

- (Exam Topic 5)

You have an on-premises network that uses an IP address space of 172.16.0.0/16. You plan to deploy 25 virtual machines to a new Azure subscription. You identify the following technical requirements.

- All Azure virtual machines must be placed on the same subnet, subnet1.
- All the Azure virtual machines must be able to communicate with all on-premises servers.
- The servers must be able to communicate between the on-premises network and Azure by using a site-to-site VPN.

You need to recommend a subnet design that meets the technical requirements.

What should you include in the recommendation? To answer, drag the appropriate network addresses to the correct subnet. Each network address 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.

Network Addresses	Answer Area
172.16.0.0/16	Subnet1: <input type="text" value="Network address"/>
172.16.1.0/28	
192.168.0.0/24	Gateway subnet: <input type="text" value="Network address"/>
192.168.1.0/28	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Graphical user interface, application Description automatically generated

#### NEW QUESTION 43

- (Exam Topic 5)

You have an Azure web app named App1 and an Azure key vault named KV1. App1 stores database connection strings in KV1.

App1 performs the following types of requests to KV1:

- Get
- List
- Wrap
- Delete
- Unwrap
- Backup
- Decrypt
- Encrypt

You are evaluating the continuity of service for App1.

You need to identify the following if the Azure region that hosts KV1 becomes unavailable:

- To where will KV1 fail over?
- During the failover, which request type will be unavailable?

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

NOTE: Each correct selection is worth one point.

To where will KV1 fail over?

A server in the same Availability Set

A server in the same fault domain

A server in the same paired region

A virtual machine in a scale set

During the failover, which request type will be unavailable?

Backup

Decrypt

Delete

Encrypt

Get

List

Unwrap

Wrap

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Table Description automatically generated

Box 1: A server in the same paired region

The contents of your key vault are replicated within the region and to a secondary region at least 150 miles away, but within the same geography to maintain high durability of your keys and secrets.

Box 2: Delete

During failover, your key vault is in read-only mode. Requests that are supported in this mode are:

- > List certificates
- > Get certificates
- > List secrets
- > Get secrets
- > List keys
- > Get (properties of) keys
- > Encrypt
- > Decrypt
- > Wrap
- > Unwrap
- > Verify
- > Sign
- > Backup

Reference:

<https://docs.microsoft.com/en-us/azure/key-vault/general/disaster-recovery-guidance>

NEW QUESTION 45

- (Exam Topic 5)

You have an Azure subscription that contains a custom application named Application1. Application1 was developed by an external company named fabric, Ltd. Developers at Fabrikam were assigned role-based access control (RBAC) permissions to the Application1 components. All users are licensed for the Microsoft 365 E5 plan. You need to recommend a solution to verify whether the Faricak developers still require permissions to Application1. The solution must the following requirements.

- \* To the manager of the developers, send a monthly email message that lists the access permissions to Application1.
- \* If the manager does not verify access permission, automatically revoke that permission.
- \* Minimize development effort. What should you recommend?

- A. In Azure Active Directory (AD) Privileged Identity Management, create a custom role assignment for the Application1 resources
- B. Create an Azure Automation runbook that runs the Get-AzureADUserAppRoleAssignment cmdlet
- C. Create an Azure Automation runbook that runs the Get-AzureRmRoleAssignment cmdlet
- D. In Azure Active Directory (Azure AD), create an access review of Application1

Answer: D

Explanation:

<https://docs.microsoft.com/en-us/azure/active-directory/governance/manage-user-access-with-access-reviews> Azure Active Directory (Azure AD) access reviews enable organizations to efficiently manage group memberships, access to enterprise applications, and role assignments. User's access can be reviewed on a regular basis to make sure only the right people have continued access. Have reviews recur periodically: You can set up recurring access reviews of users at set frequencies such as weekly, monthly, quarterly or annually, and the reviewers will be notified at the start of each review. Reviewers can approve or deny access with a friendly interface and with the help of smart recommendations.

Why are access reviews important?

"Azure AD enables you to collaborate with users from inside your organization and with external users. Users can join groups, invite guests, connect to cloud apps, and work remotely from their work or personal devices. The convenience of using self-service has led to a need for better access management capabilities."

#### NEW QUESTION 48

- (Exam Topic 5)

You are designing an Azure Cosmos DB solution that will host multiple writable replicas in multiple Azure regions.

You need to recommend the strongest database consistency level for the design. The solution must meet the following requirements:

- Provide a latency-based Service Level Agreement (SLA) for writes.
- Support multiple regions.

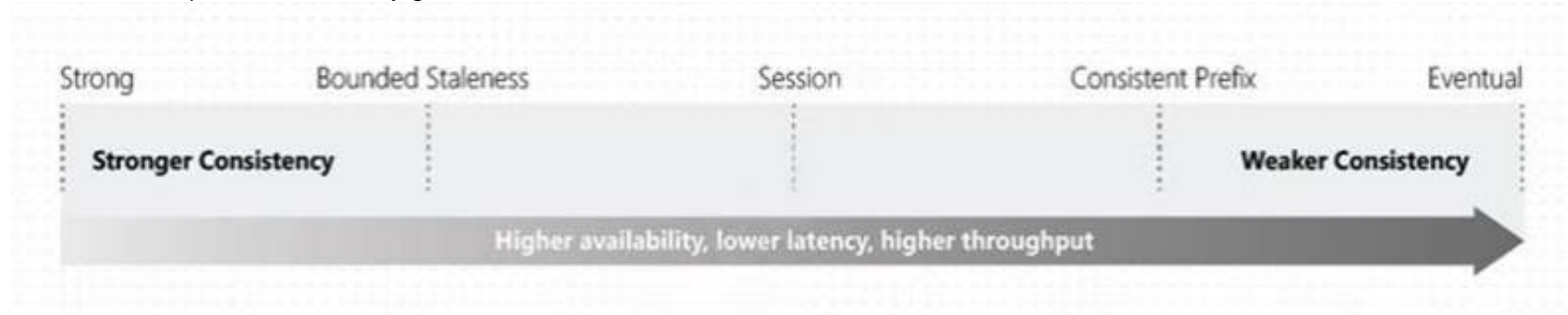
Which consistency level should you recommend?

- A. bounded staleness
- B. strong
- C. session
- D. consistent prefix

**Answer: A**

#### Explanation:

Each level provides availability and performance tradeoffs. The following image shows the different consistency levels as a spectrum. Timeline Description automatically generated



Note: The service offers comprehensive 99.99% SLAs which covers the guarantees for throughput, consistency, availability and latency for the Azure Cosmos DB Database Accounts scoped to a single Azure region configured with any of the five Consistency Levels or Database Accounts spanning multiple Azure regions, configured with any of the four relaxed Consistency Levels.

Reference:

[https://azure.microsoft.com/en-us/support/legal/sla/cosmos-db/v1\\_3/](https://azure.microsoft.com/en-us/support/legal/sla/cosmos-db/v1_3/)

<https://docs.microsoft.com/en-us/azure/cosmos-db/consistency-levels#consistency-levels-and-latency>

#### NEW QUESTION 52

- (Exam Topic 5)

You have 100 servers that run Windows Server 2012 R2 and host Microsoft SQL Server 2012 R2 instances. The instances host databases that have the following characteristics:

- The largest database is currently 3 TB. None of the databases will ever exceed 4 TB.
- Stored procedures are implemented by using CLR.

You plan to move all the data from SQL Server to Azure.

You need to recommend an Azure service to host the databases. The solution must meet the following requirements:

- Whenever possible, minimize management overhead for the migrated databases.
- Minimize the number of database changes required to facilitate the migration.
- Ensure that users can authenticate by using their Active Directory credentials.

What should you include in the recommendation?

- A. Azure SQL Database single databases
- B. Azure SQL Database Managed Instance
- C. Azure SQL Database elastic pools
- D. SQL Server 2016 on Azure virtual machines

**Answer: B**

#### Explanation:

References:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-managed-instance>

SQL Managed Instance allows existing SQL Server customers to lift and shift their on-premises applications to the cloud with minimal application and database changes. At the same time, SQL Managed Instance preserves all PaaS capabilities (automatic patching and version updates, automated backups, high availability) that drastically reduce management overhead and TCO.

<https://docs.microsoft.com/en-us/azure/azure-sql/managed-instance/transact-sql-tsql-differences-sql-server#clr> <https://docs.microsoft.com/en-gb/azure/azure-sql/database/transact-sql-tsql-differences-sql-server#transact-sql-s>

#### NEW QUESTION 56

- (Exam Topic 5)

You are designing an Azure web app.



You plan to deploy the web app to the North Europe Azure region and the West Europe Azure region. You need to recommend a solution for the web app. The solution must meet the following requirements:

- Users must always access the web app from the North Europe region, unless the region fails.
- The web app must be available to users if an Azure region is unavailable.
- Deployment costs must be minimized.

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.

Request routing method:

▼

A Traffic Manager profile

Azure Application Gateway

Azure Load Balancer

Request routing configuration:

▼

Cookie-based session affinity

Performance traffic routing

Priority traffic routing

Weighted traffic routing

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Graphical user interface, text, application, chat or text message Description automatically generated  
<https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-routing-methods#priority-traffic-routing>

**NEW QUESTION 61**

- (Exam Topic 5)

The developers at your company are building a containerized Python Django app.

You need to recommend platform to host the app. The solution must meet the following requirements:

- Support autoscaling.
- Support continuous deployment from an Azure Container Registry.
- Provide built-in functionality to authenticate app users by using Azure Active Directory (Azure AD). Which platform should you include in the recommendation?

- A. Azure Container instances
- B. an Azure App Service instance that uses containers
- C. Azure Kubernetes Service (AKS)

**Answer: C**

**Explanation:**

To keep up with application demands in Azure Kubernetes Service (AKS), you may need to adjust the number of nodes that run your workloads. The cluster autoscaler component can watch for pods in your cluster that can't be scheduled because of resource constraints. When issues are detected, the number of nodes in a node pool is increased to meet the application demand.

Azure Container Registry is a private registry for hosting container images. It integrates well with orchestrators like Azure Container Service, including Docker Swarm, DC/OS, and the new Azure Kubernetes service.

Moreover, ACR provides capabilities such as Azure Active Directory-based authentication, webhook support, and delete operations.

Reference:

<https://docs.microsoft.com/en-us/azure/aks/cluster-autoscaler>

<https://medium.com/velotio-perspectives/continuous-deployment-with-azure-kubernetes-service-azurecontainer-registry-jenkins-ca337940151b>

**NEW QUESTION 65**

- (Exam Topic 5)

Your company has the divisions shown in the following table.

Division	Azure subscription	Azure AD tenant
East	Sub1	Contoso.com
West	Sub2	Fabrikam.com

Sub1 contains an Azure App Service web app named App1. App1 uses Azure AD for single-tenant user authentication. Users from contoso.com can authenticate to App1. You need to recommend a solution to enable users in the fabrikam.com tenant to authenticate to App1. What should you recommend?

- A. Enable Azure AD pass-through authentication and update the sign-in endpoint
- B. Configure the Azure AD provisioning service.

- C. Configure assignments for the fabnkam.com users by using Azure AD Privileged Identity Management (PIM).
- D. Use Azure AD entitlement management to govern external users.

**Answer:** A

#### NEW QUESTION 67

- (Exam Topic 5)

You have .NET web service named service1 that has the following requirements.

- Must read and write to the local file system.
- 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:

- Minimize maintenance overhead.
- Minimize costs.

What should you include in the recommendation?

- A. an Azure App Service web app
- B. an Azure virtual machine scale set
- C. an App Service Environment (ASE)
- D. an Azure Functions app

**Answer:** A

#### Explanation:

<https://social.msdn.microsoft.com/Forums/vstudio/en-US/294b9e3e-e89c-4095-b8d0-ee1646e77268/writing-to-l>

#### NEW QUESTION 70

- (Exam Topic 5)

You plan to deploy an app that will use an Azure Storage account.

You need to deploy the storage account. The solution must meet the following requirements:

- Store the data of multiple users.
- Encrypt each user's data by using a separate key.
- Encrypt all the data in the storage account by using Microsoft keys or customer-managed keys. What should you deploy?

- A. files in a general purpose v2 storage account.
- B. blobs in an Azure Data Lake Storage Gen2 account.
- C. files in a premium file share storage account.
- D. blobs in a general purpose v2 storage account

**Answer:** B

#### NEW QUESTION 73

- (Exam Topic 5)

Your company, named Contoso, Ltd., implements several Azure logic apps that have HTTP triggers. The logic apps provide access to an on-premises web service.

Contoso establishes a partnership with another company named Fabrikam. IncL

Fabrikam does not have an existing Azure Active Directory (Azure AD) tenant and uses third-party OAuth 2.0 identity management to authenticate its users.

I Developers at Fabrikam plan to use a subset of the logic apps to build applications that will integrate with the on-premises web service of Contoso.

You need to design a solution to provide the Fabrikam developers with access to the logic apps. The solution must meet the following requirements:

- Requests to the logic apps from the developers must be limited to lower rates than the requests from the users at Contoso.
- The developers must be able to rely on their existing OAuth 2.0 provider to gain access to the logic apps.
- The solution must NOT require changes to the logic apps.
- The solution must NOT use Azure AD guest accounts. What should you include in the solution?

- A. Azure AD business-to-business (B2B)
- B. Azure AD Application Proxy
- C. Azure Front Door
- D. Azure API Management

**Answer:** D

#### Explanation:

API Management helps organizations publish APIs to external, partner, and internal developers to unlock the potential of their data and services.

You can secure API Management using the OAuth 2.0 client credentials flow. Reference:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-key-concepts> <https://docs.microsoft.com/en-us/azure/api-management/api-management-features> <https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-protect-backend-with-aad#ena>

#### NEW QUESTION 74

- (Exam Topic 5)

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 Cool.

Does this meet the goal?

- A. Yes
- B. No

**Answer:** A

**Explanation:**

The data in the cool tier is "considered / intended to be stored for 30 days". But this is not a must. You can store data indefinitely in the cool tier. The mentioned reference (see below) even gives an example of large scientific or otherwise large data which is stored for long duration in the cool tier.  
<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers?tabs=azure-portal>

**NEW QUESTION 77**

- (Exam Topic 5)

You have an Azure subscription that contains a Basic Azure virtual WAN named Virtual/WAN1 and the virtual hubs shown in the following table.

Name	Azure region
Hub1	US East
Hub2	US West

You have an ExpressRoute circuit in the US East region.

You need to create an ExpressRoute association to VirtualWAN1. What should you do first?

- A. Upgrade VirtualWAN1 to Standard.
- B. Create a gateway on Hub1.
- C. Create a hub virtual network in US East.
- D. Enable the ExpressRoute premium add-on.

**Answer:** A

**Explanation:**

US East and US West are in the same geopolitical region so there is no need for enabling ExpressRoute premium add-on <https://docs.microsoft.com/en-us/azure/virtual-wan/virtual-wan-about#basicstandard>

The current config of virtual WAN is only Basic as given, so it can connect to only site to site VPN, to connect to express route it needs to be upgraded from basic to standard.

<https://docs.microsoft.com/en-us/azure/virtual-wan/virtual-wan-about>

<https://docs.microsoft.com/en-us/azure/virtual-wan/virtual-wan-about>

**NEW QUESTION 79**

- (Exam Topic 5)

You are designing a microservices architecture that will support a web application. The solution must meet the following requirements:

- Allow independent upgrades to each microservice
- Deploy the solution on-premises and to Azure
- Set policies for performing automatic repairs to the microservices
- Support low-latency and hyper-scale operations

You need to recommend a technology. What should you recommend?

- A. Azure Service Fabric
- B. Azure Container Service
- C. Azure Container Instance
- D. Azure Virtual Machine Scale Set

**Answer:** A

**Explanation:**

<https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-overview>

**NEW QUESTION 84**

- (Exam Topic 5)

You plan to deploy multiple instances of an Azure web app across several Azure regions.

You need to design an access solution for the app. The solution must meet the following replication requirements:

- Support rate limiting
  - Balance requests between all instances.
  - Ensure that users can access the app in the event of a regional outage
- Solution: You use Azure Load Balancer to provide access to the app. Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

**NEW QUESTION 88**

- (Exam Topic 5)

You need to design an architecture to capture the creation of users and the assignment of roles. The captured data must be stored in Azure Cosmos DB.

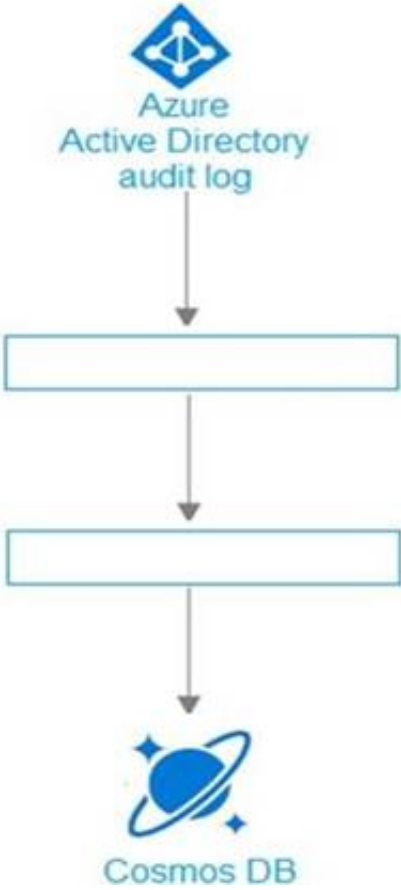
Which Azure services should you include in the design? To answer, drag the appropriate services to the correct targets. Each service may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Azure Services

Answer Area

- Azure Event Grid
- Azure Event Hubs
- Azure Functions
- Azure Log Analytics
- Azure Notification Hubs



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Diagram Description automatically generated  
 \* 1. AAD audit log -> Event Hub (other two choices, LAW, storage, but not available in this question) <https://docs.microsoft.com/en-us/azure/active-directory/reports-monitoring/tutorial-azure-monitor-stream-logs-t>  
 \* 2. Azure function has the Event hub trigger and Cosmos output binding  
 \* a. Event Hub trigger for function  
<https://docs.microsoft.com/en-us/azure/azure-functions/functions-bindings-event-hubs-trigger?tabs=csharp>

NEW QUESTION 90

- (Exam Topic 5)  
 You plan to migrate on-premises Microsoft SQL Server databases to Azure.  
 You need to recommend a deployment and resiliency solution that meets the following requirements:

- > Supports user-initiated backups
- > Supports multiple automatically replicated instances across Azure regions
- > Minimizes administrative effort to implement and maintain business continuity

What should you recommendation? To answer, select the appropriate options in the answer area.  
 NOTE: Each correct selection is worth one point.

Deployment solution:

- Azure SQL Managed Instance
- SQL Server on Azure Virtual Machines
- An Azure SQL Database single database

Resiliency solution:

- Auto-failover group
- Active geo-replication
- Zone-redundant deployment

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Graphical user interface, text, application, chat or text message Description automatically generated  
 Box 1: An Azure SQL Database single database.  
 SQL Server Managed instance versus SQL Server Virtual Machines Active geo-replication is not supported by Azure SQL Managed Instance. Box 2: Active geo-replication  
 Active geo-replication is a feature that lets you to create a continuously synchronized readable secondary database for a primary database. The readable secondary database may be in the same Azure region as the primary, or, more commonly, in a different region. This kind of readable secondary databases are also known as geo-secondaries, or geo-replicas.



Reference:  
<https://docs.microsoft.com/en-us/azure/azure-sql/database/active-geo-replication-overview>

### NEW QUESTION 93

- (Exam Topic 5)

You need to design a highly available Azure SQL database that meets the following requirements:

- \* Failover between replicas of the database must occur without any data loss.
- \* The database must remain available in the event of a zone outage.
- \* Costs must be minimized.

Which deployment option should you use?

- A. Azure SQL Database Premium
- B. Azure SQL Database Hyperscale
- C. Azure SQL Database Basic
- D. Azure SQL Managed Instance Business Critical

**Answer: D**

### NEW QUESTION 95

- (Exam Topic 5)

You deploy two instances of an Azure web app. One instance is in the East US Azure region and the other instance is in the West US Azure region. The web app uses Azure Blob storage to deliver large files to end users.

You need to recommend a solution for delivering the files to the users. The solution must meet the following requirements:

- Ensure that the users receive files from the same region as the web app that they access.
- Ensure that the files only need to be updated once.
- Minimize costs.

What should you include in the recommendation?

- A. Azure File Sync
- B. Distributed File System (DFS)
- C. read-access geo-redundant storage (RA-GRS)
- D. geo-redundant storage (GRS)

**Answer: C**

### NEW QUESTION 97

- (Exam Topic 5)

You have an on-premises network that uses an IP address space of 172.16.0.0/16. You plan to deploy 25 virtual machines to a new Azure subscription. You identify the following technical requirements:

- All Azure virtual machines must be placed on the same subnet named Subnet1.
- All the Azure virtual machines must be able to communicate with all on-premises servers.
- The servers must be able to communicate between the on-premises network and Azure by using a site-to-site VPN.

You need to recommend a subnet design that meets the technical requirements.

What should you include in the recommendation? To answer, drag the appropriate network addresses to the correct subnets. Each network address 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.

#### Network Addresses

172.16.0.0/16

172.16.1.0/27

192.168.0.0/24

192.168.1.0/27

#### Answer Area

Subnet1: Network address

Gateway subnet: Network address

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

#### Network Addresses

172.16.0.0/16

172.16.1.0/27

192.168.0.0/24

192.168.1.0/27

#### Answer Area

Subnet1: 192.168.0.0/24

Gateway subnet: 192.168.1.0/27

## NEW QUESTION 98

- (Exam Topic 5)

You have an Azure subscription that contains an Azure SQL database.

You are evaluating whether to use Azure reservations on the Azure SQL database. Which tool should you use to estimate the potential savings?

- A. The Purchase reservations blade in the Azure portal
- B. The Advisor blade in the Azure portal
- C. The SQL database blade in the Azure portal

**Answer: A**

### Explanation:

Buy reserved capacity

- Sign in to the Azure portal.
- Select All services > Reservations.
- Select Add and then in the Purchase Reservations pane, select SQL Database to purchase a new reservation for SQL Database.
- Fill in the required fields. Existing databases in SQL Database and SQL Managed Instance that match the attributes you select qualify to get the reserved capacity discount. The actual number of databases or managed instances that get the discount depends on the scope and quantity selected.

Graphical user interface, text Description automatically generated

**Select the product you want to purchase**

SQL Reserved vCores provide a significant discount over pay-as-you-go prices by allowing you to pre-pay for the future use of compute capacity for your Azure SQL Database (PaaS) deployments. Additional software costs will still apply. For SQL Server on Azure VMs (IaaS), purchase Reserved Virtual Machines Instances. [Learn More](#)

\* Scope: Single resource group \* Subscription: Finance App - Test \* Resource Group: cloud-shell-storage-westus

Filter by name... Region: West US 2 Term: One Year Add Filter Reset filters

PERFORMANCE TIER	REGION	TERM	DEPLOYMENT TYPE
SQL Database Managed Instance Business Critical - Compute Gen4	West US 2	One Year	SQL Database Managed Instance
SQL Database Managed Instance Business Critical - Compute Gen5	West US 2	One Year	SQL Database Managed Instance
SQL Database Managed Instance General Purpose - Compute Gen4	West US 2	One Year	SQL Database Managed Instance
SQL Database Managed Instance General Purpose - Compute Gen5	West US 2	One Year	SQL Database Managed Instance
SQL Database Single/Elastic Pool Business Critical - Compute Gen4	West US 2	One Year	SQL Database Single/Elastic Pool
SQL Database Single/Elastic Pool Business Critical - Compute Gen5	West US 2	One Year	SQL Database Single/Elastic Pool
SQL Database Single/Elastic Pool General Purpose - Compute Gen4	West US 2	One Year	SQL Database Single/Elastic Pool
SQL Database Single/Elastic Pool General Purpose - Compute Gen5	West US 2	One Year	SQL Database Single/Elastic Pool

Select Cancel

Price per unit: <UnitPrice>  
34% Estimated savings

- Review the cost of the capacity reservation in the Costs section. Select Purchase.
- Select View this Reservation to see the status of your purchase.
- Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/reserved-capacity-overview>

## NEW QUESTION 99

- (Exam Topic 5)

You have an app named App1 that uses two on-premises Microsoft SQL Server databases named DB1 and DB2.

You plan to migrate DB1 and DB2 to Azure.

You need to recommend an Azure solution to host DB1 and DB2. The solution must meet the following requirements:

- Support server-side transactions across DB1 and DB2.
- Minimize administrative effort to update the solution. What should you recommend?

- A. two SQL Server databases on an Azure virtual machine
- B. two Azure SQL databases on different Azure SQL Database servers
- C. two Azure SQL databases in an elastic pool
- D. two Azure SQL databases on the same Azure SQL Database managed instance

**Answer: A**

### Explanation:

When both the database management system and client are under the same ownership (e.g. when SQL Server is deployed to a virtual machine), transactions are available and the lock duration can be controlled. Reference: <https://docs.particular.net/nservicebus/azure/understanding-transactionality-in-azure>

## NEW QUESTION 101

- (Exam Topic 5)

You have an Azure subscription that contains the resources shown in the following table.

Name	Type	Kind	Location
storage1	Azure Storage account	Storage	East US
storage2	Azure Storage account	StorageV2	East US
Workspace1	Azure Log Analytics workspace	<i>Not applicable</i>	East US
Workspace2	Azure Log Analytics workspace	<i>Not applicable</i>	East US
Hub1	Azure event hub	<i>Not applicable</i>	East US

You create an Azure SQL database named DB1 that is hosted in the East US region.  
 To DB1, you add a diagnostic setting named Settings1. Settings1 archives SQLInsights to storage1 and sends SQLInsights to Workspace1.  
 For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selections is worth one point.

Statements	Yes	No
You can add a new diagnostic setting that archives SQLInsights logs to storage2.	<input type="radio"/>	<input type="radio"/>
You can add a new diagnostic setting that sends SQLInsights logs to Workspace2.	<input type="radio"/>	<input type="radio"/>
You can add a new diagnostic setting that sends SQLInsights logs to Hub1.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Yes  
 Box 2: Yes  
 Box 3: Yes  
 For more information on Azure SQL diagnostics , you can visit the below link  
<https://docs.microsoft.com/en-us/azure/azure-sql/database/metrics-diagnostic-telemetry-logging-streaming-expo>

**NEW QUESTION 106**

- (Exam Topic 5)  
 Your organization has developed and deployed several Azure App Service Web and API applications. The applications use Azure Key Vault to store several authentication, storage account, and data encryption keys. Several departments have the following requests to support the applications:

Department	Request
Security	<ul style="list-style-type: none"> <li>Review membership of administrative roles and require to provide a justification for continued membership</li> <li>Get alerts about changes in administrator assignments.</li> <li>See a history of administrator activation, including which changes administrators made to Azure resources.</li> </ul>
Development	<ul style="list-style-type: none"> <li>Enable the applications to access Azure Key Vault and retrieve keys for use in code.</li> </ul>
Quality Assurance	<ul style="list-style-type: none"> <li>Receive temporary administrator access to create and configure additional Web and API applications in the test environment.</li> </ul>

You need to recommend the appropriate Azure service for each department request.  
 What should you recommend? To answer, configure the appropriate options in the dialog box in the answer area.  
 NOTE: Each correct selection is worth one point.



Department	Azure Service
Security	<div><div></div><div><div>Azure AD Privileged Identity Management</div><div>Azure AD Managed Service Identity</div><div>Azure AD Connect</div><div>Azure AD Identity Protection</div></div></div>
Development	<div><div></div><div><div>Azure AD Privileged Identity Management</div><div>Azure AD Managed Service Identity</div><div>Azure AD Connect</div><div>Azure AD Identity Protection</div></div></div>
Quality Assurance	<div><div></div><div><div>Azure AD Privileged Identity Management</div><div>Azure AD Managed Service Identity</div><div>Azure AD Connect</div><div>Azure AD Identity Protection</div></div></div>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Text Description automatically generated with medium confidence  
<https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/overview>

NEW QUESTION 108

- (Exam Topic 5)  
You are designing an application that will aggregate content for users.  
You need to recommend a database solution for the application. The solution must meet the following requirements:

- > Support SQL commands.
- > Support multi-master writes.
- > Guarantee low latency read operations. What should you include in the recommendation?

- A. Azure Cosmos DB SQL API
- B. Azure SQL Database that uses active geo-replication
- C. Azure SQL Database Hyperscale
- D. Azure Database for PostgreSQL

Answer: A

Explanation:

With Cosmos DB's novel multi-region (multi-master) writes replication protocol, every region supports both writes and reads. The multi-region writes capability also enables:  
Unlimited elastic write and read scalability.  
\* 99.999% read and write availability all around the world.  
Guaranteed reads and writes served in less than 10 milliseconds at the 99th percentile. Reference:  
<https://docs.microsoft.com/en-us/azure/cosmos-db/distribute-data-globally>

NEW QUESTION 109

- (Exam Topic 5)  
You have an Azure subscription.  
You need to recommend a solution to provide developers with the ability to provision Azure virtual machines. The solution must meet the following requirements:

- Only allow the creation of the virtual machines in specific regions.
- Only allow the creation of specific sizes of virtual machines. What should you include in the recommendation?

- A. Conditional Access policies
- B. role-based access control (RBAC)
- C. Azure Resource Manager (ARM) templates
- D. Azure Policy

Answer: D

Explanation:

<https://docs.microsoft.com/en-us/azure/governance/policy/tutorials/create-and-manage> <https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/manage/azure-server-management/common>

NEW QUESTION 112

- (Exam Topic 5)



You are planning an Azure solution that will host production databases for a high-performance application. The solution will include the following components:

- Two virtual machines that will run Microsoft SQL Server 2016, will be deployed to different data centers in the same Azure region, and will be part of an Always On availability group.
- SQL Server data that will be backed up by using the Automated Backup feature of the SQL Server IaaS Agent Extension (SQLIaaSExtension)

You identify the storage priorities for various data types as shown in the following table.

Data type	Storage priority
Operating system	Speed and availability
Databases and logs	Speed and availability
Backups	Lowest cost

Which storage type should you recommend for each data type? To answer, drag the appropriate storage types to the correct data types. Each storage type 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.

### Storage Types

A geo-redundant storage (GRS) account

A locally-redundant storage (LRS) account

A premium managed disk

A standard managed disk

### Answer Area

Operating system:

Databases and logs:

Backups:

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**  
 Graphical user interface, text, application, email Description automatically generated

**NEW QUESTION 117**  
 - (Exam Topic 5)

You plan to deploy 10 applications to Azure. The applications will be deployed to two Azure Kubernetes Service (AKS) clusters. Each cluster will be deployed to a separate Azure region.  
 The application deployment must meet the following requirements:

- Ensure that the applications remain available if a single AKS cluster fails.
- Ensure that the connection traffic over the internet is encrypted by using SSL without having to configure SSL on each container.

Which service should you include in the recommendation?

- A. AKS ingress controller
- B. Azure Traffic Manager
- C. Azure Front Door
- D. Azure Load Balancer

**Answer:** C

**Explanation:**  
 "Azure Front Door, which focuses on global load-balancing and site acceleration, and Azure CDN Standard, which offers static content caching and acceleration. The new Azure Front Door brings together security with CDN technology for a cloud-based CDN with threat protection and additional capabilities. "

**NEW QUESTION 120**  
 - (Exam Topic 5)

You need to recommend an Azure Storage Account configuration for two applications named Application1 and Applications. The configuration must meet the following requirements:

- Storage for Application1 must provide the highest possible transaction rates and the lowest possible latency.
- Storage for Application2 must provide the lowest possible storage costs per GB.
- Storage for both applications must be optimized for uploads and downloads.
- Storage for both applications must be available in an event of datacenter failure.

What should you recommend ? To answer, select the appropriate options in the answer area NOTE: Each correct selection is worth one point

**Answer Area**

Application1:

BlobStorage with Standard performance, Hot access tier, and Read-access geo-redundant storage (RA-GRS) replication

BlockBlobStorage with Premium performance and Zone-redundant storage (ZRS) replication

General purpose v1 with Premium performance and Locally-redundant storage (LRS) replication

General purpose v2 with Standard performance, Hot access tier, and Locally-redundant storage (LRS) replication

Application2:

BlobStorage with Standard performance, Cool access tier, and Geo-redundant storage (GRS) replication

BlockBlobStorage with Premium performance and Zone-redundant storage (ZRS) replication

General purpose v1 with Standard performance and Read-access geo-redundant storage (RA-GRS) replication

General purpose v2 with Standard performance, Cool access tier, and Read-access geo-redundant storage (RA-GRS) replication

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Graphical user interface, text, application Description automatically generated  
 Box 1: BlobStorage with Premium performance and Zone-redundant storage (ZRS) replication.  
 BlockBlobStorage accounts: Storage accounts with premium performance characteristics for block blobs and append blobs. Recommended for scenarios with high transactions rates, or scenarios that use smaller objects or require consistently low storage latency.  
 Premium: optimized for high transaction rates and single-digit consistent storage latency. Box 2: General purpose v2 with Standard performance..  
 General-purpose v2 accounts: Basic storage account type for blobs, files, queues, and tables. Recommended for most scenarios using Azure Storage.  
 Reference:  
<https://docs.microsoft.com/en-us/azure/storage/common/storage-account-overview>  
<https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy>

**NEW QUESTION 125**

- (Exam Topic 5)  
 Your company has an app named App1 that uses data from the on-premises Microsoft SQL Server databases shown in the following table.

Name	Size
DB1	450 GB
DB2	250 GB
DB3	300 GB
DB4	50 GB

App1 and the data are used on the first day of the month only. The data is not expected to grow more than 3% each year.  
 The company is rewriting App1 as an Azure web app and plans to migrate all the data to Azure. You need to migrate the data to Azure SQL Database. The solution must minimize costs. Which service tier should you use?

- A. vCore-based Business Critical
- B. vCore-based General Purpose
- C. DTU-based Standard
- D. DTU-based Basic

**Answer:** C

**Explanation:**

DTU-based Standard supports databases up to 1 TB in size. Reference:  
<https://docs.microsoft.com/en-us/azure/azure-sql/database/service-tiers-dtu>

**NEW QUESTION 130**

- (Exam Topic 5)

You plan to create an Azure Storage account that will host file shares. The shares will be accessed from on-premises applications that are transaction-intensive. You need to recommend a solution to minimize latency when accessing the file shares. The solution must provide the highest-level of resiliency for the selected storage tier.

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.

Storage tier:	<div>Hot</div> <div>Premium</div> <div>Transaction optimized</div>
Resiliency:	<div>Geo-redundant storage (GRS)</div> <div>Zone-redundant storage (ZRS)</div> <div>Locally-redundant storage (LRS)</div>

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Premium

Premium: Premium file shares are backed by solid-state drives (SSDs) and provide consistent high performance and low latency, within single-digit milliseconds for most IO operations, for IO-intensive workloads.

Box 2: Zone-redundant storage (ZRS):

Premium Azure file shares only support LRS and ZRS.

Zone-redundant storage (ZRS): With ZRS, three copies of each file stored, however these copies are physically isolated in three distinct storage clusters in different Azure availability zones.

Reference:

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

**NEW QUESTION 135**

- (Exam Topic 5)

Your company deploys several Linux and Windows virtual machines (VMs) to Azure. The VMs are deployed with the Microsoft Dependency Agent and the Microsoft Monitoring Agent installed by using Azure VM extensions. On-premises connectivity has been enabled by using Azure ExpressRoute.

You need to design a solution to monitor the VMs.

Which Azure monitoring services should you use? To answer, select the appropriate Azure monitoring services in the answer area.

NOTE: Each correct selection is worth one point.

Scenario	Azure Monitoring Service
Analyze Network Security Group (NSG) flow logs for VMs attempting internet access.	<div>Azure Network Watcher</div> <div>Azure ExpressRoute Monitor</div> <div>Azure Service Endpoint Monitor</div> <div>Azure DNS Analytics</div>
Visualize the VMs with their different processes and dependencies on other computers and external processes.	<div>Azure Service Map</div> <div>Azure Activity Log</div> <div>Azure Service Health</div> <div>Azure Advisor</div>

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Graphical user interface, text, application, email Description automatically generated

Box 1: Azure Network Watcher

Traffic Analytics is a cloud-based solution that provides visibility into user and application activity in cloud networks. Traffic analytics analyzes Network Watcher network security group (NSG) flow logs to provide

insights into traffic flow in your Azure cloud. With traffic analytics, you can:

- Identify security threats to, and secure your network, with information such as open-ports, applications attempting internet access, and virtual machines (VM) connecting to rogue networks.
  - Visualize network activity across your Azure subscriptions and identify hot spots.
  - Understand traffic flow patterns across Azure regions and the internet to optimize your network deployment for performance and capacity.
  - Pinpoint network misconfigurations leading to failed connections in your network.
- Box 2: Azure Service Map



Service Map automatically discovers application components on Windows and Linux systems and maps the communication between services. With Service Map, you can view your servers in the way that you think of them: as interconnected systems that deliver critical services. Service Map shows connections between servers, processes, inbound and outbound connection latency, and ports across any TCP-connected architecture, with no configuration required other than the installation of an agent.

Reference:

<https://docs.microsoft.com/en-us/azure/network-watcher/traffic-analytics> <https://docs.microsoft.com/en-us/azure/azure-monitor/insights/service-map>

#### NEW QUESTION 140

- (Exam Topic 5)

You have to deploy an Azure SQL database named db1 for your company. The databases must meet the following security requirements

When IT help desk supervisors query a database table named customers, they must be able to see the full number of each credit card

When IT help desk operators query a database table named customers, they must only see the last four digits of each credit card number

A column named Credit Card rating in the customers table must never appear in plain text in the database system. Only client applications must be able to decrypt the information that is stored in this column

Which of the following can be implemented for the Credit Card rating column security requirement?

- A. Always Encrypted
- B. Azure Advanced Threat Protection
- C. Transparent Data Encryption
- D. Dynamic Data Masking

**Answer:** A

**Explanation:**

<https://docs.microsoft.com/en-us/sql/relational-databases/security/encryption/always-encrypted-database-engine>

#### NEW QUESTION 144

- (Exam Topic 5)

You need to design a highly available Azure SQL database that meets the following requirements:

\* Failover between replicas of the database must occur without any data loss.

\* The database must remain available in the event of a zone outage.

\* Costs must be minimized.

Which deployment option should you use?

- A. Azure SQL Database Business Critical
- B. Azure SQL Database Managed Instance Business Critical
- C. Azure SQL Database Hyperscale
- D. Azure SQL Database Standard

**Answer:** D

**Explanation:**

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/service-tier-business-critical>

#### NEW QUESTION 149

- (Exam Topic 5)

You have an on-premises network and an Azure subscription. The on-premises network has several branch offices.

A branch office in Toronto contains a virtual machine named VM1 that is configured as a file server. Users access the shared files on VM1 from all the offices.

You need to recommend a solution to ensure that the users can access the shares files as quickly as possible if the Toronto branch office is inaccessible.

What should you include in the recommendation?

- A. a Recovery Services vault and Azure Backup
- B. an Azure file share and Azure File Sync
- C. Azure blob containers and Azure File Sync
- D. a Recovery Services vault and Windows Server Backup

**Answer:** B

**Explanation:**

Use Azure File Sync to centralize your organization's file shares in Azure Files, while keeping the flexibility, performance, and compatibility of an on-premises file server. Azure File Sync transforms Windows Server into a quick cache of your Azure file share.

You need an Azure file share in the same region that you want to deploy Azure File Sync. Reference:

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

#### NEW QUESTION 151

- (Exam Topic 3)

You are evaluating whether to use Azure Traffic Manager and Azure Application Gateway to meet the connection requirements for App1.

What is the minimum numbers of instances required for each service? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



Answer Area

Azure Traffic Manager:

1

2

3

6

Azure Application Gateway:

1

2

3

6

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:  
Answer Area

Azure Traffic Manager:

1

2

3

6

Azure Application Gateway:

1

2

3

6

NEW QUESTION 156

- (Exam Topic 1)  
You plan to migrate App1 to Azure.  
You need to recommend a high-availability solution for App1. The solution must meet the resiliency requirements.  
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.

Number of host groups:

▼

1

2

3

6

Number of virtual machine scale sets:

▼

0

1

3

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:  
Graphical user interface, text, application, email Description automatically generated  
Box 1: 3  
Scenario: App1 must meet the following requirements:  
➤ Be hosted in an Azure region that supports availability zones.  
➤ Maintain availability if two availability zones in the local Azure region fail.  
A host group is a resource that represents a collection of dedicated hosts. You create a host group in a region and an availability zone, and add hosts to it.  
Use Availability Zones for fault isolation  
Availability zones are unique physical locations within an Azure region. Each zone is made up of one or more datacenters equipped with independent power, cooling, and networking. A host group is created in a single availability zone. Once created, all hosts will be placed within that zone. To achieve high availability across zones, you need to create multiple host groups (one per zone) and spread your hosts accordingly.  
Box 2: 1  
Scenario: App1 must meet the following requirements:

➤ Be hosted on Azure virtual machines that support automatic scaling.

An Azure virtual machine scale set can automatically increase or decrease the number of VM instances that run your application. This automated and elastic behavior reduces the management overhead to monitor and optimize the performance of your application.

Reference:

<https://docs.microsoft.com/en-us/azure/virtual-machines/dedicated-hosts>

<https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/virtual-machine-scale-sets-autoscale-overview>

#### NEW QUESTION 160

- (Exam Topic 1)

You plan to migrate App1 to Azure.

You need to recommend a storage solution for App1 that meets the security and compliance requirements. Which type of storage should you recommend, and how should you recommend configuring the storage? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

#### Answer Area

Storage account type:

	▼
Premium page blobs	
Premium file shares	
Standard general-purpose v2	

Configuration:

	▼
NFSv3	
Large file shares	
Hierarchical namespace	

- A. Mastered
- B. Not Mastered

**Answer: A**

#### Explanation:

Text, table Description automatically generated

Box 1: Standard general-purpose v2

Standard general-purpose v2 supports Blob Storage.

Azure Storage provides data protection for Blob Storage and Azure Data Lake Storage Gen2. Scenario:

Litware identifies the following security and compliance requirements:

- Once App1 is migrated to Azure, you must ensure that new data can be written to the app, and the modification of new and existing data is prevented for a period of three years.
- On-premises users and services must be able to access the Azure Storage account that will host the data in App1.
- Access to the public endpoint of the Azure Storage account that will host the App1 data must be prevented.
- All Azure SQL databases in the production environment must have Transparent Data Encryption (TDE) enabled.
- App1 must NOT share physical hardware with other workloads. Box 2: NFSv3

Scenario: Plan: Migrate App1 to Azure virtual machines.

Blob storage now supports the Network File System (NFS) 3.0 protocol. This support provides Linux file system compatibility at object storage scale and prices and enables Linux clients to mount a container in Blob storage from an Azure Virtual Machine (VM) or a computer on-premises.

Reference:

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

#### NEW QUESTION 161

- (Exam Topic 1)

You migrate App1 to Azure. You need to ensure that the data storage for App1 meets the security and compliance requirement  
What should you do?

- A. Create an access policy for the blob
- B. Modify the access level of the blob service.
- C. Implement Azure resource locks.
- D. Create Azure RBAC assignments.

**Answer: A**

#### Explanation:

Scenario: Once App1 is migrated to Azure, you must ensure that new data can be written to the app, and the modification of new and existing data is prevented for a period of three years.

As an administrator, you can lock a subscription, resource group, or resource to prevent other users in your organization from accidentally deleting or modifying critical resources. The lock overrides any permissions the user might have.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/lock-resources>

NEW QUESTION 166

- (Exam Topic 1)

How should the migrated databases DB1 and DB2 be implemented in Azure?

Database:

	▼
A single Azure SQL database	
Azure SQL Managed Instance	
An Azure SQL Database elastic pool	

Service tier:

	▼
Hyperscale	
Business Critical	
General Purpose	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Table Description automatically generated

Box 1: SQL Managed Instance

Scenario: Once migrated to Azure, DB1 and DB2 must meet the following requirements:

- Maintain availability if two availability zones in the local Azure region fail.
- Fail over automatically.
- Minimize I/O latency.

The auto-failover groups feature allows you to manage the replication and failover of a group of databases on a server or all databases in a managed instance to another region. It is a declarative abstraction on top of the existing active geo-replication feature, designed to simplify deployment and management of geo-replicated databases at scale. You can initiate a geo-failover manually or you can delegate it to the Azure service based on a user-defined policy. The latter option allows you to automatically recover multiple related databases in a secondary region after a catastrophic failure or other unplanned event that results in full or partial loss of the SQL Database or SQL Managed Instance availability in the primary region.

Box 2: Business critical

SQL Managed Instance is available in two service tiers:

General purpose: Designed for applications with typical performance and I/O latency requirements. Business critical: Designed for applications with low I/O latency requirements and minimal impact of underlying maintenance operations on the workload.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/auto-failover-group-overview> <https://docs.microsoft.com/en-us/azure/azure-sql/managed-instance/sql-managed-instance-paas-overview>

NEW QUESTION 171

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