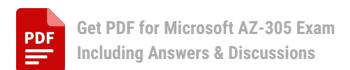


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Question #51 Topic 1

You need to recommend a solution to generate a monthly report of all the new Azure Resource Manager (ARM) resource deployments in your Azure subscription.

What should you include in the recommendation?

- A. Azure Monitor action groups
- B. Azure Arc
- C. Azure Monitor metrics
- D. Azure Activity Log Most Voted

Correct Answer: D

Community vote distribution

D (100%)

Question #52				Topic 1
DRAG DROP				
You have an Azure AD tenant that conta	ains an administrativ	e unit named Marketing,	AU. MarketingAU contains 10	00 users.
You create two users named User1 and	l User2.			
You need to ensure that the users can p	perform the following	actions in MarketingAL	:	
User1 must be able to create user acc User2 must be able to reset user pass				
Which role should you assign to each u once, or not at all. You may need to dra				may be used once, more than
NOTE: Each correct selection is worth o	one point.			
Roles		Answer Area		
Helpdesk Administrator for Marketi	ingAU	User1:	Role	
Helpdesk Administrator for the tena	ant	User2:	Role	
User Administrator for MarketingAl				
User Administrator for the tenant				
Answer Area				
Correct Answer: User1 User A	Administrator for Marke	tingAU		
User2 Helpd	lesk Administrator for M	arketing		

Question #53 Topic 1

You need to recommend a solution to generate a monthly report of all the new Azure Resource Manager (ARM) resource deployments in your Azure subscription.

What should you include in the recommendation?

- A. Azure Arc
- B. Azure Log Analytics Most Voted
- C. Application insights
- D. Azure Monitor action groups

Correct Answer: B

Community vote distribution

B (100%)

Question #54 Topic 1

HOTSPOT

_

You are designing an app that will be hosted on Azure virtual machines that run Ubuntu. The app will use a third-party email service to send email messages to users. The third-party email service requires that the app authenticate by using an API key.

You need to recommend an Azure Key Vault solution for storing and accessing the API key. The solution must minimize administrative effort.

What should you recommend using to store and access the key? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area





Question #55			Topic 1
DRAG DROP			
You have two app Writer.	registrations named App1	and App2 in Azure AD. App1 supports role-base	ed access control (RBAC) and includes a role named
You need to ensu	e that when App2 authenti	cates to access App1, the tokens issued by Azu	re AD include the Writer role claim.
		app registration? To answer, drag the appropria all. You may need to drag the split bar betweer	te blades to the correct app registrations. Each blade n panes or scroll to view content.
NOTE: Each corre	ct selection is worth one po	oint.	
Blades	Answer Area		
API permissions	App1:	Blade	
App roles	App2:	Blade	
Token configuration	on		
	Blades A	Answer Area	
0	API permissions	App1: App roles	
Correct Answer:	App roles	App2: Token configuration	
	Token configuration		
Question #56			Topic 1
You need to recor	_	te a monthly report of all the new Azure Resou	rce Manager (ARM) resource deployments in your
What should you	nclude in the recommenda	tion?	
A. Application	Insights		
B. Azure Arc			
	Analytics Most Voted		
D. Azure Mon	tor metrics		
Correct Answer:	С		
Community vot	e distribution C (100%)		
1	0 (100%)		

Question #57	Topic 1
You have an Azure subscription.	
You plan to deploy a monitoring solution that will include the following:	
Azure Monitor Network Insights	
Application Insights	
Microsoft Sentinel	
• VM insights	
The monitoring solution will be managed by a single team.	
What is the minimum number of Azure Monitor workspaces required?	
A. 1 Most Voted	
B. 2	
C. 3	
D. 4	
Correct Answer: C	
Community vote distribution	
A (90%) 8%	
Question #58	Topic 1
You need to recommend a solution to generate a monthly report of all the new Azure Resource Manager (ARM) resource deployme	nts in vour
Azure subscription.	
What should you include in the recommendation?	
A. Application Insights	

D. Azure Activity Log Most Voted Correct Answer: D Community vote distribution D (61%) C (39%)

Question #59 Topic 1

HOTSPOT

B. Azure Analysis ServicesC. Azure Advisor Most Voted

Case Study

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

Overview

Fabrikam, Inc. is an engineering company that has offices throughout Europe. The company has a main office in London and three branch offices in Amsterdam, Berlin, and Rome.

Existing Environment: Active Directory Environment

The network contains two Active Directory forests named corp.fabrikam.com and rd.fabrikam.com. There are no trust relationships between the forests.

Corp.fabrikam.com is a production forest that contains identities used for internal user and computer authentication.

Rd.fabrikam.com is used by the research and development (R&D) department only. The R&D department is restricted to using on-premises resources only.

Existing Environment: Network Infrastructure

Each office contains at least one domain controller from the corp.fabrikam.com domain. The main office contains all the domain controllers for the rd.fabrikam.com forest.

All the offices have a high-speed connection to the internet.

An existing application named WebApp1 is hosted in the data center of the London office. WebApp1 is used by customers to place and track

orders. WebApp1 has a web tier that uses Microsoft Internet Information Services (IIS) and a database tier that runs Microsoft SQL Server 2016. The web tier and the database tier are deployed to virtual machines that run on Hyper-V.

The IT department currently uses a separate Hyper-V environment to test updates to WebApp1.

Fabrikam purchases all Microsoft licenses through a Microsoft Enterprise Agreement that includes Software Assurance.

Existing Environment: Problem Statements

The use of WebApp1 is unpredictable. At peak times, users often report delays. At other times, many resources for WebApp1 are underutilized.

Requirements: Planned Changes

-

Fabrikam plans to move most of its production workloads to Azure during the next few years, including virtual machines that rely on Active Directory for authentication.

As one of its first projects, the company plans to establish a hybrid identity model, facilitating an upcoming Microsoft 365 deployment.

All R&D operations will remain on-premises.

Fabrikam plans to migrate the production and test instances of WebApp1 to Azure.

Requirements: Technical Requirements

Fabrikam identifies the following technical requirements:

- Website content must be easily updated from a single point.
- User input must be minimized when provisioning new web app instances.
- Whenever possible, existing on-premises licenses must be used to reduce cost.
- Users must always authenticate by using their corp.fabrikam.com UPN identity.
- Any new deployments to Azure must be redundant in case an Azure region fails.
- Whenever possible, solutions must be deployed to Azure by using the Standard pricing tier of Azure App Service.
- An email distribution group named IT Support must be notified of any issues relating to the directory synchronization services.
- In the event that a link fails between Azure and the on-premises network, ensure that the virtual machines hosted in Azure can authenticate to Active Directory.
- Directory synchronization between Azure Active Directory (Azure AD) and corp.fabrikam.com must not be affected by a link failure between Azure and the on-premises network.

Requirements: Database Requirements

Fabrikam identifies the following database requirements:

- Database metrics for the production instance of WebApp1 must be available for analysis so that database administrators can optimize the performance settings.
- To avoid disrupting customer access, database downtime must be minimized when databases are migrated.
- Database backups must be retained for a minimum of seven years to meet compliance requirements.

Requirements: Security Requirements

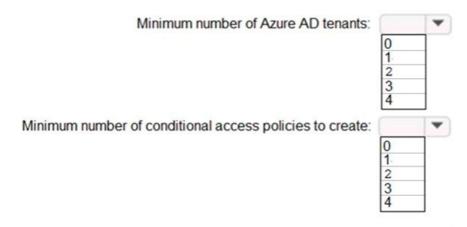
Fabrikam identifies the following security requirements:

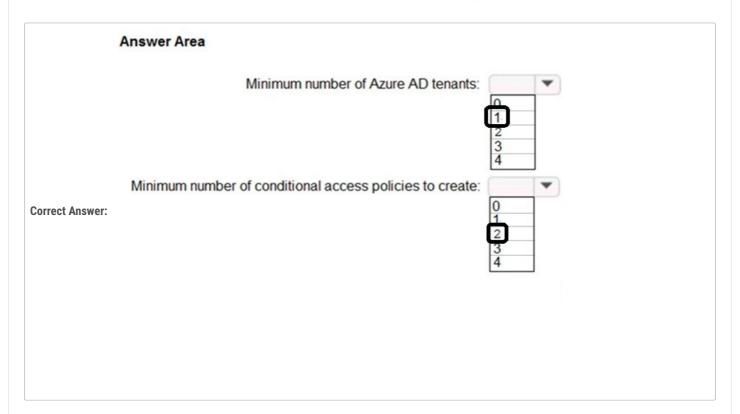
- Company information including policies, templates, and data must be inaccessible to anyone outside the company.
- · Users on the on-premises network must be able to authenticate to corp.fabrikam.com if an internet link fails.
- · Administrators must be able authenticate to the Azure portal by using their corp.fabrikam.com credentials.
- · All administrative access to the Azure portal must be secured by using multi-factor authentication (MFA).
- The testing of WebApp1 updates must not be visible to anyone outside the company.

To meet the authentication requirements of Fabrikam, what should you include in the solution? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area





What should you include in the recommendation?

- A. Azure AD Identity Protection
- B. Microsoft Defender for Identity
- C. Microsoft Entra Permissions Management
- D. Azure AD Identity Governance Most Voted

Correct Answer: D

Community vote distribution

D (100%)

Question #61 Topic 1

HOTSPOT

-

You have an Azure subscription that contains 50 Azure SQL databases.

You create an Azure Resource Manager (ARM) template named Template1 that enables Transparent Data Encryption (TDE).

You need to create an Azure Policy definition named Policy1 that will use Template1 to enable TDE for any noncompliant Azure SQL databases.

How should you configure Policy1? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Set available effects to:

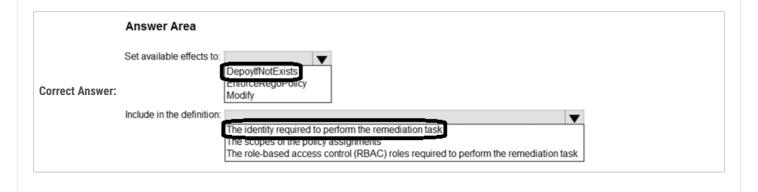
DepoylfNotExists EnforceRegoPolicy Modify

Include in the definition:

The identity required to perform the remediation task

The scopes of the policy assignments

The role-based access control (RBAC) roles required to perform the remediation task



Question #62 Topic 1

You have an Azure subscription. The subscription contains a tiered app named App1 that is distributed across multiple containers hosted in Azure Container Instances.

You need to deploy an Azure Monitor monitoring solution for App. The solution must meet the following requirements:

- Support using synthetic transaction monitoring to monitor traffic between the App1 components.
- · Minimize development effort.

What should you include in the solution?

- A. Network insights
- B. Application Insights Most Voted
- C. Container insights
- D. Log Analytics Workspace insights

Correct Answer: B

Community vote distribution

B (100%)

Question #63 Topic 1

HOTSPOT

_

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

Name	Туре	Description
App1	Azure App Service app	None
Workspace1	Log Analytics workspace	Configured to use a pay-as-you-go pricing tier
App1Logs	Log Analytics table	Hosted in Workspace1
		Configured to use the Analytics Logs data plan

Log files from App1 are registered to App1Logs. An average of 120 GB of log data is ingested per day.

You configure an Azure Monitor alert that will be triggered if the App1 logs contain error messages.

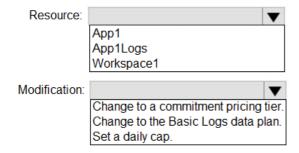
You need to minimize the Log Analytics costs associated with App1. The solution must meet the following requirements:

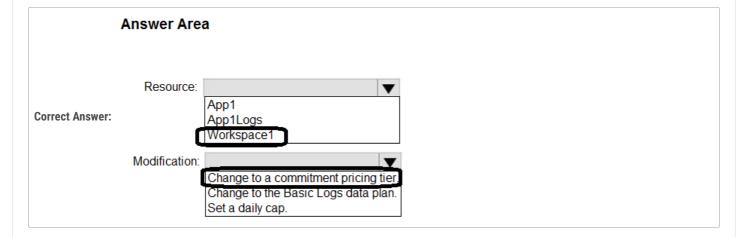
- Ensure that all the log files from App1 are ingested to App1Logs.
- Minimize the impact on the Azure Monitor alert.

Which resource should you modify, and which modification should you perform? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area





You have 12 Azure subscriptions and three projects. Each project uses resources across multiple subscriptions.

You need to use Microsoft Cost Management to monitor costs on a per project basis. The solution must minimize administrative effort.

Which two components should you include in the solution? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. budgets Most Voted

B. resource tags Most Voted

C. custom role-based access control (RBAC) roles

D. management groups

E. Azure boards

Correct Answer: BD

Community vote distribution

AB (80%) BD (20%)

Question #65 Topic 1

HOTSPOT

-

You have an Azure subscription that contains multiple storage accounts.

You assign Azure Policy definitions to the storage accounts.

You need to recommend a solution to meet the following requirements:

- Trigger on-demand Azure Policy compliance scans.
- Raise Azure Monitor non-compliance alerts by querying logs collected by Log Analytics.

What should you recommend for each requirement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

To trigger the compliance scans, use:

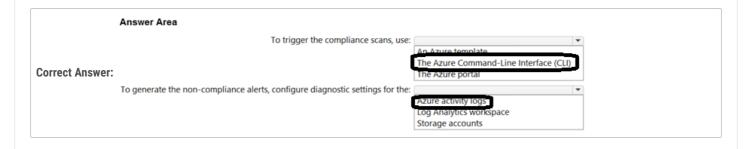
An Azure template

The Azure Command-Line Interface (CLI)

The Azure portal

To generate the non-compliance alerts, configure diagnostic settings for the:

Azure activity logs Log Analytics workspace Storage accounts



Question #66 Topic 1

HOTSPOT

-

You have an Azure subscription.

You plan to deploy five storage accounts that will store block blobs and five storage accounts that will host file shares. The file shares will be accessed by using the SMB protocol.

You need to recommend an access authorization solution for the storage accounts. The solution must meet the following requirements:

- · Maximize security.
- · Prevent the use of shared keys.
- · Whenever possible, support time-limited access.

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

NOTE: Each correct selection is worth one point.

Answer Area

For the blobs:

A user delegation shared access signature (SAS) only

A shared access signature (SAS) and a stored access policy

A user delegation shared access signature (SAS) and a stored access policy

For the file shares:

Azure AD credentials

A user delegation shared access signature (SAS) only

A user delegation shared access signature (SAS) and a stored access policy



•

Question #67 Topic 1

HOTSPOT

-

You have an Azure subscription. The subscription contains 100 virtual machines that run Windows Server 2022 and have the Azure Monitor Agent installed

You need to recommend a solution that meets the following requirements:

- Forwards JSON-formatted logs from the virtual machines to a Log Analytics workspace
- Transforms the logs and stores the data in a table in the Log Analytics workspace

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.

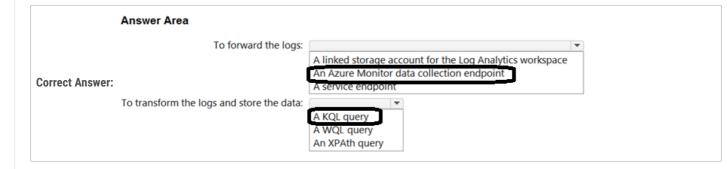
Answer Area

To forward the logs:

A linked storage account for the Log Analytics workspace An Azure Monitor data collection endpoint A service endpoint

To transform the logs and store the data:

A KQL query
A WQL query
An XPAth query



Question #68 Topic 1

HOTSPOT

_

You have five Azure subscriptions. Each subscription is linked to a separate Azure AD tenant and contains virtual machines that run Windows Server 2022.

You plan to collect Windows security events from the virtual machines and send them to a single Log Analytics workspace.

You need to recommend a solution that meets the following requirements:

- · Collects event logs from multiple subscriptions
- · Supports the use of data collection rules (DCRs) to define which events to collect

What should you recommend for each requirement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

To collect the event logs:

Azure Event Grid Azure Lighthouse Azure Purview

To support the DCRs:

The Log Analytics agent
The Azure Monitor agent
The Azure Connected Machine agent

Answer Area To collect the event logs: Azure Event Grid Azure Lighthouse Azure Purview To support the DCRs: The Log Analytics agent The Azure Monitor agent The Azure Connected Machine agent

Topic 2 - Question Set 2

Question #1 Topic 2

You have 100 servers that run Windows Server 2012 R2 and host Microsoft SQL Server 2014 instances. The instances host databases that have the following characteristics:

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

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

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

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

What should you include in the recommendation?

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

Correct Answer: B

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.

Reference:

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

Community vote distribution

B (100%)

Question #2 Topic 2

You have an Azure subscription that contains an Azure Blob Storage account named store1.

You have an on-premises file server named Server1 that runs Windows Server 2016. Server1 stores 500 GB of company files.

You need to store a copy of the company files from Server1 in store1.

Which two possible Azure services achieve this goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. an Azure Logic Apps integration account

- B. an Azure Import/Export job Most Voted
- C. Azure Data Factory Most Voted
- D. an Azure Analysis services On-premises data gateway
- E. an Azure Batch account

Correct Answer: BC

B: You can use the Azure Import/Export service to securely export large amounts of data from Azure Blob storage. The service requires you to ship empty drives to the Azure datacenter. The service exports data from your storage account to the drives and then ships the drives back.

C: Big data requires a service that can orchestrate and operationalize processes to refine these enormous stores of raw data into actionable business insights.

Azure Data Factory is a managed cloud service that's built for these complex hybrid extract-transform-load (ETL), extract-load-transform (ELT), and data integration projects.

Reference:

https://docs.microsoft.com/en-us/azure/storage/common/storage-import-export-data-from-blobs https://docs.microsoft.com/en-us/azure/data-factory/introduction

Community vote distribution

BC (97%)

Question #3 Topic 2

You have an Azure subscription that contains two applications named App1 and App2. App1 is a sales processing application. When a transaction in App1 requires shipping, a message is added to an Azure Storage account queue, and then App2 listens to the queue for relevant transactions. In the future, additional applications will be added that will process some of the shipping requests based on the specific details of the transactions.

You need to recommend a replacement for the storage account queue to ensure that each additional application will be able to read the relevant transactions.

What should you recommend?

- A. one Azure Data Factory pipeline
- B. multiple storage account queues
- C. one Azure Service Bus queue
- D. one Azure Service Bus topic Most Voted

Correct Answer: D

A queue allows processing of a message by a single consumer. In contrast to queues, topics and subscriptions provide a one-to-many form of communication in a publish and subscribe pattern. It's useful for scaling to large numbers of recipients. Each published message is made available to each subscription registered with the topic. Publisher sends a message to a topic and one or more subscribers receive a copy of the message, depending on filter rules set on these subscriptions.

Reference:

https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-queues-topics-subscriptions

Community vote distribution

D (92%)

8%

Question #4 Topic 2

HOTSPOT -

You need to design a storage solution for an app that will store large amounts of frequently used data. The solution must meet the following requirements:

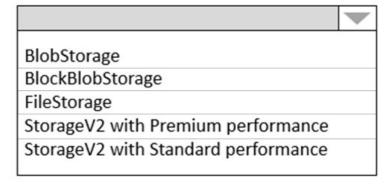
- → Maximize data throughput.
- Prevent the modification of data for one year.
- $\mathrel{\mathrel{\circ}\!\!\!>}$ Minimize latency for read and write operations.

Which Azure Storage account type and storage service should you recommend? To answer, select the appropriate options in the answer area.

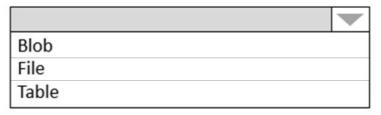
NOTE: Each correct selection is worth one point. Hot Area:

Answer Area

Storage account type:



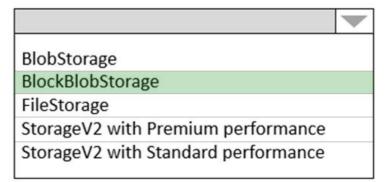
Storage service:



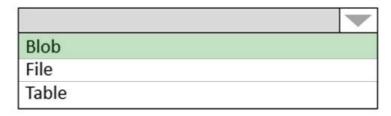
Correct Answer:

Answer Area

Storage account type:



Storage service:



Box 1: BlockBlobStorage -

Block Blob is a premium storage account type 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.

Box 2: Blob -

The Archive tier is an offline tier for storing blob data that is rarely accessed. The Archive tier offers the lowest storage costs, but higher data retrieval costs and latency compared to the online tiers (Hot and Cool). Data must remain in the Archive tier for at least 180 days or be subject

to an early deletion charge.

Question #5 Topic 2

HOTSPOT -

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

Name	Туре	Performance
storage1	StorageV2	Standard
storage2	StorageV2	Premium
storage3	BlobStorage	Standard
storage4	FileStorage	Premium

You plan to implement two new apps that have the requirements shown in the following table.

Name	Requirement
App1	Use lifecycle management to migrate app data between storage tiers
App2	Store app data in an Azure file share

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

Hot Area:

Answer Area

App1:	
	Storage1
	Storago1

Ann1.

Storage1 and storage2 only
Storage1 and storage3 only
Storage1, storage2, and storage3 only
Storage1, storage2, storage3, and storage4

App2:

	-
Storage4 only	
Storage1 and storage4 only	
Storage1, storage2, and storage4 only	
Storage1, storage2, storage3, and storage4	

Answer Area

App1:

Storage1 and storage2 only

Storage1 and storage3 only

Storage1, storage2, and storage3 only

Storage1, storage2, storage3, and storage4

Correct Answer:

App2:

Storage4 only

Storage1 and storage4 only

Storage1, storage2, and storage4 only

Storage1, storage2, storage3, and storage4

Box 1: Storage1 and storage3 only

Need to use Standard accounts.

Data stored in a premium block blob storage account cannot be tiered to hot, cool, or archive using Set Blob Tier or using Azure Blob Storage lifecycle management

Box 2: Storage1 and storage4 only

Azure File shares requires Premium accounts. Only Storage1 and storage4 are premium.

Reference:

https://docs.microsoft.com/en-us/azure/storage/blobs/access-tiers-overview#feature-support https://docs.microsoft.com/en-us/azure/storage/files/storage-how-to-create-file-share?tabs=azure-portal#basics

Question #6 Topic 2

You are designing an application that will be hosted in Azure.

The application will host video files that range from 50 MB to 12 GB. The application will use certificate-based authentication and will be available to users on the internet.

You need to recommend a storage option for the video files. The solution must provide the fastest read performance and must minimize storage costs

What should you recommend?

- A. Azure Files
- B. Azure Data Lake Storage Gen2
- C. Azure Blob Storage Most Voted
- D. Azure SQL Database

Correct Answer: C

Blob Storage: Stores large amounts of unstructured data, such as text or binary data, that can be accessed from anywhere in the world via HTTP or HTTPS. You can use Blob storage to expose data publicly to the world, or to store application data privately.

Max file in Blob Storage. 4.77 TB.

Reference:

https://docs.microsoft.com/en-us/azure/architecture/solution-ideas/articles/digital-media-video

Community vote distribution

C (100%)

Question #7 Topic 2

You are designing a SQL database solution. The solution will include 20 databases that will be 20 GB each and have varying usage patterns.

You need to recommend a database platform to host the databases. The solution must meet the following requirements:

- → The solution must meet a Service Level Agreement (SLA) of 99.99% uptime.
- The compute resources allocated to the databases must scale dynamically.
- → The solution must have reserved capacity.

Compute charges must be minimized.

.

What should you include in the recommendation?

- A. an elastic pool that contains 20 Azure SQL databases Most Voted
- B. 20 databases on a Microsoft SQL server that runs on an Azure virtual machine in an availability set
- C. 20 databases on a Microsoft SQL server that runs on an Azure virtual machine
- D. 20 instances of Azure SOL Database serverless

Correct Answer: A

The compute and storage redundancy is built in for business critical databases and elastic pools, with a SLA of 99.99%.

Reserved capacity provides you with the flexibility to temporarily move your hot databases in and out of elastic pools (within the same region and performance tier) as part of your normal operations without losing the reserved capacity benefit.

Reference:

https://azure.microsoft.com/en-us/blog/understanding-and-leveraging-azure-sql-database-sla/

Community vote distribution

A (100%)

Question #8 Topic 2

HOTSPOT -

You have an on-premises database that you plan to migrate to Azure.

You need to design the database architecture to meet the following requirements:

- → Support scaling up and down.
- ⇒ Support geo-redundant backups.
- Support a database of up to 75 TB.
- ⇒ Be optimized for online transaction processing (OLTP).

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Service:

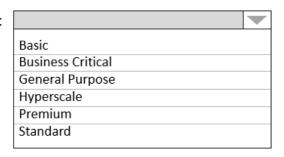
Azure SQL Database

Azure SQL Managed Instance

Azure Synapse Analytics

SQL Server on Azure Virtual Machines

Service tier:



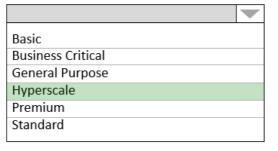
Answer Area

Service:

Azure SQL Database
Azure SQL Managed Instance
Azure Synapse Analytics
SQL Server on Azure Virtual Machines

Correct Answer:

Service tier:



Box 1: Azure SQL Database -

Azure SQL Database:

Database size always depends on the underlying service tiers (e.g. Basic, Business Critical, Hyperscale).

It supports databases of up to 100 TB with Hyperscale service tier model.

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.

Azure SQL Database and SQL Managed Instance enable you to dynamically add more resources to your database with minimal downtime.

Box 2: Hyperscale -

Incorrect Answers:

- → SQL Server on Azure VM: geo-replication not supported.
- → Azure Synapse Analytics is not optimized for online transaction processing (OLTP).
- Azure SQL Managed Instance max database size is up to currently available instance size (depending on the number of vCores).

Max instance storage size (reserved) - 2 TB for 4 vCores

- 8 TB for 8 vCores

- 16 TB for other sizes

Reference:

https://docs.microsoft.com/en-us/azure/azure-sql/database/active-geo-replication-overview https://medium.com/awesome-azure/azure-difference-between-azure-sql-database-and-sql-server-on-vm-comparison-azure-sql-server-vm-cf02578a1188

Question #9 Topic 2

You are planning an Azure IoT Hub solution that will include 50,000 IoT devices.

Each device will stream data, including temperature, device ID, and time data. Approximately 50,000 records will be written every second. The data will be visualized in near real time.

You need to recommend a service to store and query the data.

Which two services can you recommend? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Azure Table Storage
- B. Azure Event Grid
- C. Azure Cosmos DB SQL API Most Voted
- D. Azure Time Series Insights Most Voted

Correct Answer: *CD*

- D: Time Series Insights is a fully managed service for time series data. In this architecture, Time Series Insights performs the roles of stream processing, data store, and analytics and reporting. It accepts streaming data from either IoT Hub or Event Hubs and stores, processes, analyzes, and displays the data in near real time.
- C: The processed data is stored in an analytical data store, such as Azure Data Explorer, HBase, Azure Cosmos DB, Azure Data Lake, or Blob Storage.

Reference:

https://docs.microsoft.com/en-us/azure/architecture/data-guide/scenarios/time-series

Community vote distribution

CD (90%)

10%

Question #10 Topic 2

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 Most Voted
- B. Azure SQL Database that uses active geo-replication
- C. Azure SQL Database Hyperscale
- D. Azure Database for PostgreSQL

Correct Answer: A

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

Community vote distribution

A (100%)

Question #11 Topic 2

HOTSPOT -

You have an Azure subscription that contains the SQL servers on Azure shown in the following table.

Name	Resource group	Location
SQLsvr1	RG1	East US
SQLsvr2	RG2	West US

The subscription contains the storage accounts shown in the following table.

Name	Resource group	Location	Account kind
storage1	RG1	East US	StorageV2 (general purposev2)
storage2	RG2	Central US	BlobStorage

You create the Azure SQL databases shown in the following table.

Name	Resource group	Server	Pricing tier
SQLdb1	RG1	SQLsvr1	Standard
SQLdb2	RG1	SQLsvr1	Standard
SQLdb3	RG2	SQLsvr2	Premium

or each of the following statements, select Yes if the statement is true. Otherwise, select No. IOTE: Each correct selection is worth one point.		
Hot Area:		
Answer Area		
Statements	Yes	No
When you enable auditing for SQLdb1, you can store the audit information to storage1.	\bigcirc	0
When you enable auditing for SQLdb2, you can store the audit information to storage2.	\bigcirc	\circ
When you enable auditing for SQLdb3, you can store the audit information to storage2.	\bigcirc	0
Correct Answer:		
Answer Area		
Statements	Yes	No
When you enable auditing for SQLdb1, you can store the audit information to storage1.		\bigcirc
When you enable auditing for SQLdb2, you can store the audit information to storage2.	\bigcirc	
When you enable auditing for SQLdb3, you can store the audit information to storage2.	\bigcirc	
Box 1: Yes - Auditing works fine for a Standard account.		
Box 2: No - Auditing limitations: Premium storage is currently not supported.		
Box 3: No -		
Auditing limitations: Premium storage is currently not supported. Reference:		
Reference.		

Question #12 Topic 2

DRAG DROP -

You plan to import data from your on-premises environment to Azure. The data is shown in the following table.

On-premises source	Azure target
A Microsoft SQL Server 2012 database	An Azure SQL database
A table in a Microsoft SQL Server 2014 An Azure Cosmos DB accou	
database	uses the SQL API

database	uses the SQL API	
What should you recommend using to migrate	e the data? To answer, drag the appropriate tools to the correct da	ta sources. Each tool may be used
once, more than once, or not at all. You may n	need to drag the split bar between panes or scroll to view content.	
NOTE: Each correct selection is worth one poi	int.	
Select and Place:		
Tools	Answer Area	
AzCopy		
Azure Cosmos DB Data Migration Tool	From the SQL Server 2012 database:	Tool
Data Management Gateway		
Data Migration Assistant	From the table in the SQL Server 2014 database:	Tool
	I	
Correct Answer:		
Tools	Answer Area	
AzCopy	111111111111111111111111111111111111111	
Azure Cosmos DB Data Migration Tool		
Data Management Gateway	From the SQL Server 2012 database: Data Migration Assistant	
Data Migration Assistant	From the table in the SQL Server 2014 database: Azure C	osmos DB Data Migration Tool
Box 1: Data Migration Assistant -	ou upgrade to a modern data platform by detecting compatibility	iccups that can impact database
, , , , ,	ver or Azure SQL Database. DMA recommends performance and r	•
	your schema, data, and uncontained objects from your source ser	
Incorrect:	your sonema, data, and uncontained objects from your source ser	ver to your target server.
	in use to copy blobs or files to or from a storage account.	
Box 2: Azure Cosmos DB Data Migration Too		
	ised to migrate a SQL Server Database table to Azure Cosmos.	
Reference:	-	
https://docs.microsoft.com/en-us/sql/dma/	dma-overview	
https://docs.microsoft.com/en-us/azure/cos	smos-db/cosmosdb-migrationchoices	

Question #13 Topic 2

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

Correct Answer: D

You can create Data Factory pipelines that copies data from Azure Blob Storage to Azure SQL Database. The configuration pattern applies to copying from a file- based data store to a relational data store.

Required steps:

Create a data factory.

Create Azure Storage and Azure SQL Database linked services.

Create Azure Blob and Azure SQL Database datasets.

Create a pipeline contains a Copy activity.

Start a pipeline run.

Monitor the pipeline and activity runs.

Reference:

https://docs.microsoft.com/en-us/azure/data-factory/tutorial-copy-data-dot-net

Community vote distribution

D (100%)

Question #14 Topic 2

You have an Azure subscription.

Your on-premises network contains a file server named Server1. Server1 stores 5 I¢I' of company files that are accessed rarely.

You plan to copy the files to Azure Storage.

You need to implement a storage solution for the files that meets the following requirements:

- → The files must be available within 24 hours of being requested.
- ⇒ Storage costs must be minimized.

Which two possible storage solutions achieve this goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Create an Azure Blob Storage account that is configured for the Cool default access tier. Create a blob container, copy the files to the blob container, and set each file to the Archive access tier. Most Voted
- B. Create a general-purpose v1 storage account. Create a blob container and copy the files to the blob container.
- C. Create a general-purpose v2 storage account that is configured for the Cool default access tier. Create a file share in the storage account and copy the files to the file share.
- D. Create a general-purpose v2 storage account that is configured for the Hot default access tier. Create a blob container, copy the files to the blob container, and set each file to the Archive access tier. Most Voted
- E. Create a general-purpose v1 storage account. Create a fie share in the storage account and copy the files to the file share.

Correct Answer: AD

To minimize costs: The Archive tier is optimized for storing data that is rarely accessed and stored for at least 180 days with flexible latency requirements (on the order of hours).

Reference:

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

Community vote distribution

AD (94%)

6%

Question #15 Topic 2

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

Correct Answer: B

Elastic database transactions for Azure SQL Database and Azure SQL Managed Instance allow you to run transactions that span several databases.

SQL Managed Instance enables system administrators to spend less time on administrative tasks because the service either performs them for you or greatly simplifies those tasks.

Reference:

https://docs.microsoft.com/en-us/azure/azure-sql/database/elastic-transactions-overview?view=azuresql

Community vote distribution

B (100%)

Question #16 Topic 2

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 Hyperscale
- B. Azure SQL Database Premium Most Voted
- C. Azure SQL Database Basic
- D. Azure SQL Managed Instance General Purpose

Correct Answer: B

Azure SQL Database Premium tier supports multiple redundant replicas for each database that are automatically provisioned in the same datacenter within a region. This design leverages the SQL Server AlwaysON technology and provides resilience to server failures with 99.99% availability SLA and RPO=0.

With the introduction of Azure Availability Zones, we are happy to announce that SQL Database now offers built-in support of Availability Zones in its Premium service tier.

Incorrect:

Not A: Hyperscale is more expensive than Premium.

Not C: Need Premium for Availability Zones.

Not D: Zone redundant configuration that is free on Azure SQL Premium is not available on Azure SQL Managed Instance.

Reference:

https://azure.microsoft.com/en-us/blog/azure-sql-database-now-offers-zone-redundant-premium-databases-and-elastic-pools/

Community vote distribution

B (100%)

Question #17 Topic 2

HOTSPOT -

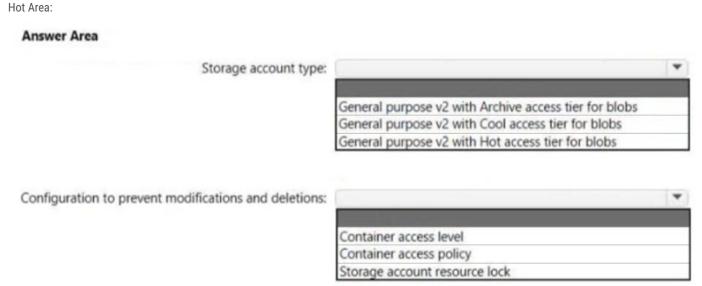
You are planning an Azure Storage solution for sensitive data. The data will be accessed daily. The dataset is less than 10 GB.

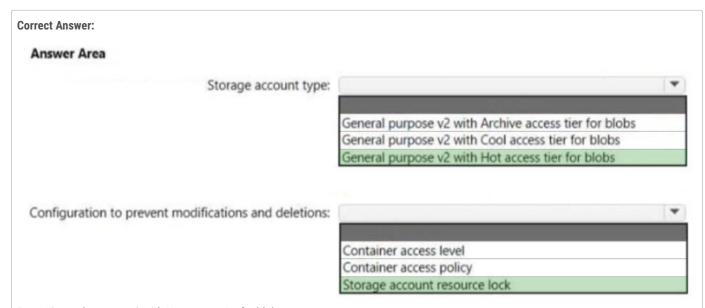
You need to recommend a storage solution that meets the following requirements:

- All the data written to storage must be retained for five years.
- Once the data is written, the data can only be read. Modifications and deletion must be prevented.
- After five years, the data can be deleted, but never modified.
- → Data access charges must be minimized.

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

NOTE: Each correct selection is worth one point.





Box 1: General purpose v2 with Hot access tier for blobs

Note

- * All the data written to storage must be retained for five years.
- * Data access charges must be minimized

Hot tier has higher storage costs, but lower access and transaction costs.

Incorrect:

Not Archive: Lowest storage costs, but highest access, and transaction costs.

Not Cool: Lower storage costs, but higher access and transaction costs.

Box 2: Storage account resource lock

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:

 $https://docs.microsoft.com/en-us/azure/storage/blobs/access-tiers-overview\ https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/lock-resources$

Question #18 Topic 2

HOTSPOT -

You are designing a data storage solution to support reporting.

The solution will ingest high volumes of data in the JSON format by using Azure Event Hubs. As the data arrives, Event Hubs will write the data to storage. The solution must meet the following requirements:

- → Organize data in directories by date and time.
- Allow stored data to be queried directly, transformed into summarized tables, and then stored in a data warehouse.
- 🖙 Ensure that the data warehouse can store 50 TB of relational data and support between 200 and 300 concurrent read operations.

Which service should you recommend for each type of data store? To answer, select the appropriate options in the answer area.

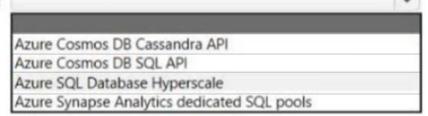
NOTE: Each correct selection is worth one point.

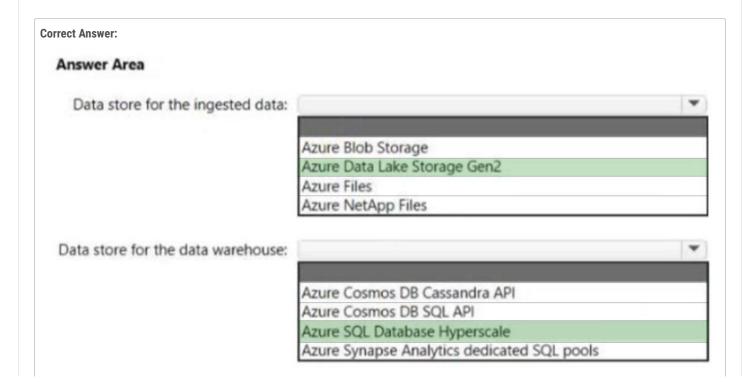
Hot Area:

Answer Area



Data store for the data warehouse:





Box 1: Azure Data Lake Storage Gen2

Azure Data Explorer integrates with Azure Blob Storage and Azure Data Lake Storage (Gen1 and Gen2), providing fast, cached, and indexed access to data stored in external storage. You can analyze and query data without prior ingestion into Azure Data Explorer. You can also query across ingested and uningested external data simultaneously.

Azure Data Lake Storage is optimized storage for big data analytics workloads.

Use cases: Batch, interactive, streaming analytics and machine learning data such as log files, IoT data, click streams, large datasets Box 2: Azure SQL Database Hyperscale

Azure SQL Database Hyperscale is optimized for OLTP and high throughput analytics workloads with storage up to 100TB.

A Hyperscale database supports up to 100 TB of data and provides high throughput and performance, as well as rapid scaling to adapt to the workload requirements. Connectivity, query processing, database engine features, etc. work like any other database in Azure SQL Database.

Hyperscale is a multi-tiered architecture with caching at multiple levels. Effective IOPS will depend on the workload.

Compare to:

General purpose: 500 IOPS per vCore with 7,000 maximum IOPS Business critical: 5,000 IOPS with 200,000 maximum IOPS

Incorrect:

* Azure Synapse Analytics Dedicated SQL pool.

Max database size: 240 TB -

A maximum of 128 concurrent queries will execute and remaining queries will be queued.

Reference:

https://docs.microsoft.com/en-us/azure/data-explorer/data-lake-query-data https://docs.microsoft.com/en-us/azure/azure-sql/database/service-tier-hyperscale https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-service-capacity-limits

Question #19 Topic 2

You have an app named App1 that uses an on-premises Microsoft SQL Server database named DB1.

You plan to migrate DB1 to an Azure SQL managed instance.

You need to enable customer managed Transparent Data Encryption (TDE) for the instance. The solution must maximize encryption strength.

Which type of encryption algorithm and key length should you use for the TDE protector?

- A. RSA 3072 Most Voted
- B. AES 256
- C. RSA 4096
- D. RSA 2048

Correct Answer: A

Community vote distribution

A (90%)

10%

Question #20 Topic 2

You are planning an Azure IoT Hub solution that will include 50,000 IoT devices.

Each device will stream data, including temperature, device ID, and time data. Approximately 50,000 records will be written every second. The data will be visualized in near real time.

You need to recommend a service to store and query the data.

Which two services can you recommend? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Azure Table Storage
- B. Azure Event Grid
- C. Azure Cosmos DB for NoSQL Most Voted
- D. Azure Time Series Insights Most Voted

Correct Answer: CD

Community vote distribution

CD (100%

Question #21 Topic 2

HOTSPOT

-

You are planning an Azure Storage solution for sensitive data. The data will be accessed daily. The dataset is less than 10 GB.

You need to recommend a storage solution that meets the following requirements:

- All the data written to storage must be retained for five years.
- Once the data is written, the data can only be read. Modifications and deletion must be prevented.
- · After five years, the data can be deleted, but never modified.
- · Data access charges must be minimized.

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

NOTE: Each correct selection is worth one point.

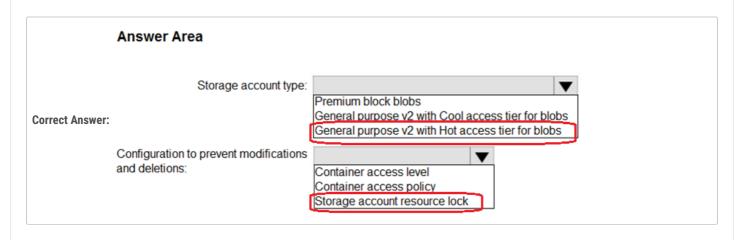
Answer Area

Storage account type:

Premium block blobs
General purpose v2 with Cool access tier for blobs
General purpose v2 with Hot access tier for blobs

Configuration to prevent modifications and deletions:

Container access level
Container access policy
Storage account resource lock



Question #22 Topic 2

HOTSPOT

-

You are designing a data analytics solution that will use Azure Synapse and Azure Data Lake Storage Gen2.

You need to recommend Azure Synapse pools to meet the following requirements:

- Ingest data from Data Lake Storage into hash-distributed tables.
- · Implement query, and update data in Delta Lake.

What should you recommend for each requirement? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Ingest data from Data Lake Storage into hash-distributed tables:

A dedicated SQL pool
A serverless Apache Spark pool
A serverless SQL pool

Implement, query, and update data in Delta Lake:

A dedicated SQL pool A serverless Apache Spark pool A serverless SQL pool



Ingest data from Data Lake Storage into hash-distributed tables:

Correct Answer:

Implement, query, and update data in Delta Lake:

A dedicated SQL pool
A serverless Apache Spark pool
A serverless SQL pool

A dedicated SQL pool A serverless Apache Spark pool A serverless SQL pool

Question #23	Topic 2
You have an on-premises storage solution.	
You need to migrate the solution to Azure. The solution must support Hadoop Distributed File System (HDFS).	
What should you use?	
A. Azure Data Lake Storage Gen2 Most Voted	
B. Azure NetApp Files	
C. Azure Data Share	
D. Azure Table storage	
Correct Answer: A	
Community vote distribution	
A (100%)	

Question #24	opic 2
DRAG DROP	
You have an on-premises app named App1.	
Customers use App1 to manage digital images.	
You plan to migrate App1 to Azure.	
You need to recommend a data storage solution for App1. The solution must meet the following image storage requirements:	
 Encrypt images at rest. Allow files up to 50 MB. Manage access to the images by using Azure Web Application Firewall (WAF) on Azure Front Door. 	
The solution must meet the following customer account requirements:	
 Support automatic scale out of the storage. Maintain the availability of App1 if a datacenter fails. Support reading and writing data from multiple Azure regions. 	
Which service should you include in the recommendation for each type of data? To answer, drag the appropriate services to the correct type data. 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 conte	
NOTE: Each correct answer is worth one point.	
Azure Blob storage Azure Cosmos DB Image storage: Azure SQL Database Azure Table storage	
Answer Area	
Correct Answer: Image storage: Azure Blob storage Customer accounts: Azure Cosmos DB	

Question #25 Topic 2

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 for NoSQL Most Voted
- B. Azure SQL Database that uses active geo-replication
- C. Azure SQL Database Hyperscale
- D. Azure Cosmos DB for PostgreSQL

Correct Answer: A

Community vote distribution

A (100%)

Question #26 Topic 2

You plan to migrate on-premises MySQL databases to Azure Database for MySQL Flexible Server.

You need to recommend a solution for the Azure Database for MySQL Flexible Server configuration. The solution must meet the following requirements:

- The databases must be accessible if a datacenter fails.
- · Costs must be minimized.

Which compute tier should you recommend?

- A. Burstable
- B. General Purpose Most Voted
- C. Memory Optimized

Correct Answer: A

Community vote distribution

B (90%)

10%

Question #27	Topic 2
You are designing an app that will use Azure Cosmos DB to collate sales from multiple countries.	
You need to recommend an API for the app. The solution must meet the following requirements:	
• Support SQL queries.	
• Support geo-replication.	
Store and access data relationally.	
Which API should you recommend? A. Apache Cassandra	
B. PostgreSQL Most Voted	
C. MongoDB	
D. NoSQL	
Correct Answer: B	
Community vote distribution	
B (100%)	

Question #28 Topic 2

HOTSPOT

-

You have an app that generates 50,000 events daily.

You plan to stream the events to an Azure event hub and use Event Hubs Capture to implement cold path processing of the events. The output of Event Hubs Capture will be consumed by a reporting system.

You need to identify which type of Azure storage must be provisioned to support Event Hubs Capture, and which inbound data format the reporting system must support.

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

NOTE: Each correct selection is worth one point.

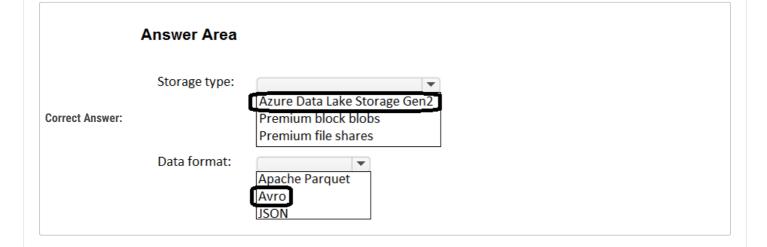
Answer Area

Storage type:

Azure Data Lake Storage Gen2 Premium block blobs Premium file shares

Data format:

Apache Parquet
Avro
JSON



Question #29 Topic 2

You have the resources shown in the following table.

Name	Туре
AS1	Azure Synapse Analytics instance
CDB1	Azure Cosmos DB for NoSQL 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 daily.

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 Synapse Link for Azure Cosmos DB Most Voted
- D. Azure Cosmos DB change feed

Correct Answer: C

Community vote distribution

C (100%)

Question #30 Topic 2

HOTSPOT

_

You have an Azure subscription. The subscription contains an Azure SQL managed instance that stores employee details, including social security numbers and phone numbers.

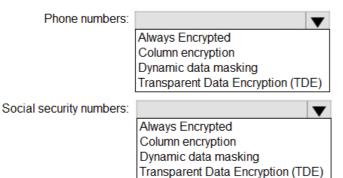
You need to configure the managed instance to meet the following requirements:

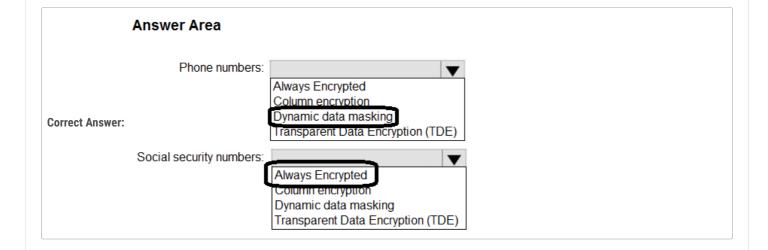
- The helpdesk team must see only the last four digits of an employee's phone number.
- Cloud administrators must be prevented from seeing the employee's social security numbers.

What should you enable for each column in the managed instance? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area





Question #31	Topic 2
You plan to use an Azure Storage account to store data assets.	
You need to recommend a solution that meets the following requirements:	
 Supports immutable storage Disables anonymous access to the storage account Supports access control list (ACL)-based Azure AD permissions What should you include in the recommendation?	
A. Azure Files	
B. Azure Data Lake Storage Most Voted	
C. Azure NetApp Files	
D. Azure Blob Storage Most Voted	
Correct Answer: C	
Community vote distribution B (64%) D (36%)	

Question #32 Topic 2

HOTSPOT

_

You are designing a storage solution that will ingest, store, and analyze petabytes (PBs) of structured, semi-structured, and unstructured text data. The analyzed data will be offloaded to Azure Data Lake Storage Gen2 for long-term retention.

You need to recommend a storage and analytics solution that meets the following requirements:

- · Stores the processed data
- Provides interactive analytics
- · Supports manual scaling, built-in autoscaling, and custom autoscaling

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.

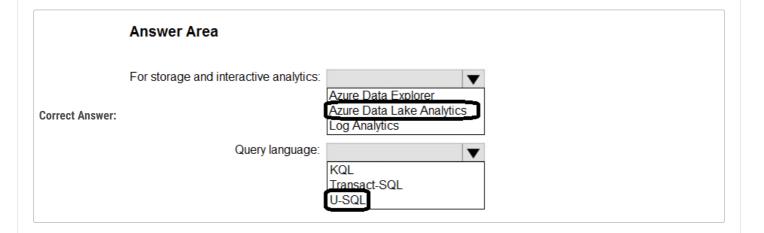
Answer Area

For storage and interactive analytics:

Azure Data Explorer
Azure Data Lake Analytics
Log Analytics

Query language:

KQL
Transact-SQL
U-SQL



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