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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 contains an administrative unit named MarketingAU. MarketingAU contains 100 users.

You create two users named User1 and User2.

You need to ensure that the users can perform the following actions in MarketingAU:

- User1 must be able to create user accounts.
- User2 must be able to reset user passwords.

Which role should you assign to each user? To answer, drag the appropriate roles to the correct users. Each role 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.

## Roles

## Answer Area

User1:

User2:

## Answer Area

Correct Answer:

User1

User2

## 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**

Storage:   
Certificate  
Key  
Secret

Access:   
An API token  
A managed service identity (MSI)  
A service principal

**Answer Area****Correct Answer:**

Storage:   
Certificate  
Key  
Secret

Access:   
An API token  
A managed service identity (MSI)  
A service principal

## Question #55

Topic 1

## DRAG DROP

You have two app registrations named App1 and App2 in Azure AD. App1 supports role-based access control (RBAC) and includes a role named Writer.

You need to ensure that when App2 authenticates to access App1, the tokens issued by Azure AD include the Writer role claim.

Which blade should you use to modify each app registration? To answer, drag the appropriate blades to the correct app registrations. Each blade 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.

## Blades

## Answer Area

API permissions

App roles

Token configuration

App1:

Blade

App2:

Blade

## Correct Answer:

## Blades

## Answer Area

API permissions

App roles

Token configuration

App1:

App roles

App2:

Token configuration

## Question #56

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. Application Insights

B. Azure Arc

C. Azure Log Analytics Most Voted

D. Azure Monitor metrics

## Correct Answer: C

*Community vote distribution*

C (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 deployments in your Azure subscription.

What should you include in the recommendation?

A. Application Insights

B. Azure Analysis Services

C. Azure Advisor Most Voted

D. Azure Activity Log Most Voted

**Correct Answer: D**

*Community vote distribution*

D (61%)

C (39%)

## Question #59

Topic 1

HOTSPOT

## 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 to 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

Minimum number of Azure AD tenants:

0
1
2
3
4

Minimum number of conditional access policies to create:

0
1
2
3
4

### Answer Area

Minimum number of Azure AD tenants:

0
1
2
3
4

Minimum number of conditional access policies to create:

0
1
2
3
4

Correct Answer:

## Question #60

Topic 1

You have an Azure subscription that contains 10 web apps. The apps are integrated with Azure AD and are accessed by users on different project teams.

The users frequently move between projects.

You need to recommend an access management solution for the web apps. The solution must meet the following requirements:

- The users must only have access to the app of the project to which they are assigned currently.
- Project managers must verify which users have access to their project's app and remove users that are no longer assigned to their project.
- Once every 30 days, the project managers must be prompted automatically to verify which users are assigned to their projects.

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:

▼

- DepoIfNotExists
- 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

**Answer Area**

Set available effects to:

▼

- DepoIfNotExists
- EnforceRegoPolicy
- Modify

Correct Answer:

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	Type	Description
App1	Azure App Service app	None
Workspace1	Log Analytics workspace	Configured to use a pay-as-you-go pricing tier
App1 Logs	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

Resource:  ▼  
App1  
App1Logs  
Workspace1

Modification:  ▼  
Change to a commitment pricing tier.  
Change to the Basic Logs data plan.  
Set a daily cap.

### Answer Area

Correct Answer: Resource:  ▼  
App1  
App1Logs  
Workspace1

Modification:  ▼  
Change to a commitment pricing tier.  
Change to the Basic Logs data plan.  
Set a daily cap.

## Question #64

Topic 1

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

**Answer Area**

To trigger the compliance scans, use:

An Azure template  
**The Azure Command-Line Interface (CLI)**  
The Azure portal

**Correct Answer:**

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

**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

Correct Answer:

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

**Answer Area**

To forward the logs:

☐ A linked storage account for the Log Analytics workspace

☒ An Azure Monitor data collection endpoint

☐ A service endpoint

Correct Answer:

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:

Correct Answer:

	▼
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.
- ☞ 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:

	▼
BlobStorage	
BlockBlobStorage	
FileStorage	
StorageV2 with Premium performance	
StorageV2 with Standard performance	

Storage service:

	▼
Blob	
File	
Table	

Correct Answer:

## Answer Area

Storage account type:

	▼
BlobStorage	
BlockBlobStorage	
FileStorage	
StorageV2 with Premium performance	
StorageV2 with Standard performance	

Storage service:

	▼
Blob	
File	
Table	

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	Type	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 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 SQL 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: 

	▼
Basic	
Business Critical	
General Purpose	
Hyperscale	
Premium	
Standard	

### Answer Area

Service: 

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

Correct Answer:

Service tier: 

	▼
Basic	
Business Critical	
General Purpose	
Hyperscale	
Premium	
Standard	

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-vs-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

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: 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.	<input type="radio"/>	<input type="radio"/>
When you enable auditing for SQLdb2, you can store the audit information to storage2.	<input type="radio"/>	<input type="radio"/>
When you enable auditing for SQLdb3, you can store the audit information to storage2.	<input type="radio"/>	<input type="radio"/>

Correct Answer:

### Answer Area

Statements	Yes	No
When you enable auditing for SQLdb1, you can store the audit information to storage1.	<input checked="" type="radio"/>	<input type="radio"/>
When you enable auditing for SQLdb2, you can store the audit information to storage2.	<input type="radio"/>	<input checked="" type="radio"/>
When you enable auditing for SQLdb3, you can store the audit information to storage2.	<input type="radio"/>	<input checked="" type="radio"/>

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:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/auditing-overview#auditing-limitations>

## 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 database	An Azure Cosmos DB account that uses the SQL API

What should you recommend using to migrate the data? To answer, drag the appropriate tools to the correct data sources. Each tool may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

**Tools****Answer Area**

From the SQL Server 2012 database:

From the table in the SQL Server 2014 database:

**Correct Answer:****Tools****Answer Area**

From the SQL Server 2012 database:

From the table in the SQL Server 2014 database:

Box 1: Data Migration Assistant -

The Data Migration Assistant (DMA) helps you upgrade to a modern data platform by detecting compatibility issues that can impact database functionality in your new version of SQL Server or Azure SQL Database. DMA recommends performance and reliability improvements for your target environment and allows you to move your schema, data, and uncontained objects from your source server to your target server.

Incorrect:

AzCopy is a command-line utility that you can use to copy blobs or files to or from a storage account.

Box 2: Azure Cosmos DB Data Migration Tool

Azure Cosmos DB Data Migration Tool can be used 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/cosmos-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 TB 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 file 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.

Hot Area:

### Answer Area

Storage account type:

General purpose v2 with Archive access tier for 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

Correct Answer:

### Answer Area

Storage account type:

General purpose v2 with Archive access tier for 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

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 ingested data:

<input type="checkbox"/>	Azure Blob Storage
<input type="checkbox"/>	Azure Data Lake Storage Gen2
<input type="checkbox"/>	Azure Files
<input type="checkbox"/>	Azure NetApp Files

Data store for the data warehouse:

<input type="checkbox"/>	Azure Cosmos DB Cassandra API
<input type="checkbox"/>	Azure Cosmos DB SQL API
<input type="checkbox"/>	Azure SQL Database Hyperscale
<input type="checkbox"/>	Azure Synapse Analytics dedicated SQL pools

Correct Answer:

**Answer Area**

Data store for the ingested data:

<input type="checkbox"/>	Azure Blob Storage
<input checked="" type="checkbox"/>	Azure Data Lake Storage Gen2
<input type="checkbox"/>	Azure Files
<input type="checkbox"/>	Azure NetApp Files

Data store for the data warehouse:

<input type="checkbox"/>	Azure Cosmos DB Cassandra API
<input type="checkbox"/>	Azure Cosmos DB SQL API
<input checked="" type="checkbox"/>	Azure SQL Database Hyperscale
<input type="checkbox"/>	Azure Synapse Analytics dedicated SQL pools

**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

**Answer Area**

Correct Answer:

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

**Answer Area**

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

Correct Answer:

▼

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

## 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

## Topic 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 of 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 content.

NOTE: Each correct answer is worth one point.

**Services**

Azure Blob storage

Azure Cosmos DB

Azure SQL Database

Azure Table storage

**Answer Area**

Image storage:

Customer accounts:

**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

**Answer Area****Correct Answer:**

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	Type
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

Phone numbers:

▼

Always Encrypted  
Column encryption  
Dynamic data masking  
Transparent Data Encryption (TDE)

Social security numbers:

▼

Always Encrypted  
Column encryption  
Dynamic data masking  
Transparent Data Encryption (TDE)

### Answer Area

Phone numbers:

▼

Always Encrypted  
Column encryption  
**Dynamic data masking**  
Transparent Data Encryption (TDE)

Correct Answer:

Social security numbers:

▼

**Always Encrypted**  
Column encryption  
Dynamic data masking  
Transparent Data Encryption (TDE)



## 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

**Answer Area**

For storage and interactive analytics:

▼

Azure Data Explorer  
**Azure Data Lake Analytics**  
Log Analytics

Correct Answer:

Query language:

▼

KQL  
Transact-SQL  
**U-SQL**

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