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Question #33

Topic 2

HOTSPOT

You plan to use Azure SQL as a database platform.

You need to recommend an Azure SQL product and service tier that meets the following requirements:

- Automatically scales compute resources based on the workload demand
- Provides per second billing

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

NOTE: Each correct selection is worth one point.

Answer Area

Azure SQL product:

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

Service tier:

Basic
Business Critical
General Purpose
Hyperscale
Standard

Answer Area

Azure SQL product:

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

Correct Answer:

Service tier:

Basic
Business Critical
General Purpose
Hyperscale
Standard

Question #34

Topic 2

HOTSPOT

You have an Azure subscription.

You need to deploy a solution that will provide point-in-time restore for blobs in storage accounts that have blob versioning and blob soft delete enabled.

Which type of blob should you create, and what should you enable for the accounts? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Blob type:

Append

Block

Page

Enable:

A stored access policy

Immutable blob storage

Object replication

The change feed

Answer Area

Correct Answer:

Blob type:

Append

Block

Page

Enable:

A stored access policy

Immutable blob storage

Object replication

The change feed

Question #35

Topic 2

HOTSPOT

Your company, named Contoso, Ltd., has an Azure subscription that contains the following resources:

- An Azure Synapse Analytics workspace named contosoworkspace1

- An Azure Data Lake Storage account named contosolake1
- An Azure SQL database named contososql1

The product data of Contoso is copied from contososql1 to contosolake1.

Contoso has a partner company named Fabrikam Inc. Fabrikam has an Azure subscription that contains the following resources:

- A virtual machine named FabrikamVM1 that runs Microsoft SQL Server 2019
- An Azure Storage account named fabrikamsa1

Contoso plans to upload the research data on FabrikamVM1 to contosolake1. During the upload, the research data must be transformed to the data formats used by Contoso.

The data in contosolake1 will be analyzed by using contosoworkspace1.

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

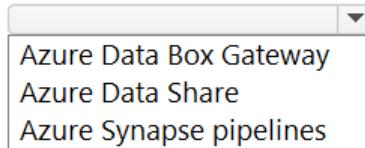
- Upload and transform the FabrikamVM1 research data.
- Provide Fabrikam with restricted access to snapshots of the data in contosoworkspace1.

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

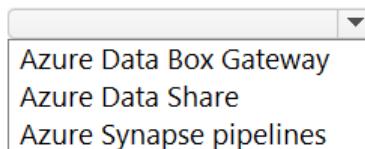
NOTE: Each correct selection is worth one point.

Answer Area

Upload and transform the data:

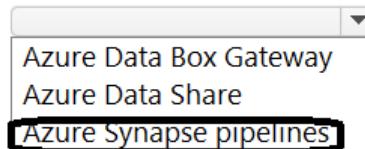


Provide restricted access:



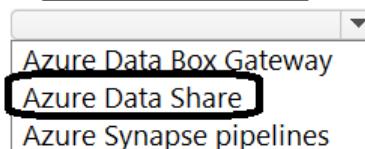
Answer Area

Upload and transform the data:



Correct Answer:

Provide restricted access:



Question #36

Topic 2

HOTSPOT

You are designing a data pipeline that will integrate large amounts of data from multiple on-premises Microsoft SQL Server databases into an analytics platform in Azure. The pipeline will include the following actions:

- Database updates will be exported periodically into a staging area in Azure Blob storage.
- Data from the blob storage will be cleansed and transformed by using a highly parallelized load process.
- The transformed data will be loaded to a data warehouse.
- Each batch of updates will be used to refresh an online analytical processing (OLAP) model in a managed serving layer.
- The managed serving layer will be used by thousands of end users.

You need to implement the data warehouse and serving layers.

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

NOTE: Each correct selection is worth one point.

Answer Area

To implement the data warehouse:

- An Apache Spark pool in Azure Synapse Analytics
- An Azure Synapse Analytics dedicated SQL pool
- Azure Data Lake Analytics

To implement the serving layer:

- Azure Analysis Services
- An Apache Spark pool Azure Synapse Analytics
- An Azure Synapse Analytics dedicated SQL pool

Answer Area

To implement the data warehouse:

- An Apache Spark pool in Azure Synapse Analytics
- An Azure Synapse Analytics dedicated SQL pool
- Azure Data Lake Analytics

Correct Answer:

To implement the serving layer:

- Azure Analysis Services
- An Apache Spark pool Azure Synapse Analytics
- An Azure Synapse Analytics dedicated SQL pool

Question #37

Topic 2

HOTSPOT

You have an Azure subscription.

You need to deploy a relational database. The solution must meet the following requirements:

- Support multiple read-only replicas.
- Automatically load balance read-only requests across all the read-only replicas.
- Minimize administrative effort

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

NOTE: Each correct selection is worth one point.

Answer Area**Service**

A single Azure SQL database
An Azure SQL Database elastic pool
Azure SQL Managed Instances

Service tier

Business Critical
Hyperscale
Premium

Answer Area**Service**

A single Azure SQL database
An Azure SQL Database elastic pool
Azure SQL Managed Instances

Correct Answer:**Service tier**

Business Critical
Hyperscale
Premium

Question #38

Topic 2

You have an app named App1 that uses an Azure Blob Storage container named app1data.

App1 uploads a cumulative transaction log file named File1.txt to a block blob in app1data once every hour. File1.txt only stores transaction data from the current day.

You need to ensure that you can restore the last uploaded version of File1.txt from any day for up to 30 days after the file was overwritten. The solution must minimize storage space.

What should you include in the solution?

- A. container soft delete
- B. blob snapshots
- C. blob soft delete
- D. blob versioning Most Voted

Correct Answer: D

Community vote distribution

D (73%) B (27%)

Question #39

Topic 2

You have 12 on-premises data sources that contain customer information and consist of Microsoft SQL Server, MySQL, and Oracle databases.

You have an Azure subscription.

You plan to create an Azure Data Lake Storage account that will consolidate the customer information for analysis and reporting.

You need to recommend a solution to automatically copy new information from the data sources to the Data Lake Storage account by using extract, transform and load (ETL). The solution must minimize administrative effort.

What should you include in the recommendation?

- A. Azure Data Factory Most Voted
- B. Azure Data Explorer
- C. Azure Data Share
- D. Azure Data Studio

Correct Answer: A

Community vote distribution

A (100%)

Topic 3 - Question Set 3

Question #1

Topic 3

You have SQL Server on an Azure virtual machine. The databases are written to nightly as part of a batch process.

You need to recommend a disaster recovery solution for the data. The solution must meet the following requirements:

- ⇒ Provide the ability to recover in the event of a regional outage.
- ⇒ Support a recovery time objective (RTO) of 15 minutes.
- ⇒ Support a recovery point objective (RPO) of 24 hours.
- ⇒ Support automated recovery.
- ⇒ Minimize costs.

What should you include in the recommendation?

- A. Azure virtual machine availability sets
- B. Azure Disk Backup
- C. an Always On availability group
- D. Azure Site Recovery Most Voted

Correct Answer: D

Replication with Azure Site Recover:

- ⇒ RTO is typically less than 15 minutes.
- ⇒ RPO: One hour for application consistency and five minutes for crash consistency.

Incorrect Answers:

B: Too slow.

C: Always On availability group RPO: Because replication to the secondary replica is asynchronous, there's some data loss.

Reference:

<https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-sql>

Community vote distribution

D (83%) C (17%)

Question #2

Topic 3

HOTSPOT -

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

Policy 1

Associated items Delete Save Discard

Backup schedule

*Frequency *Time *Timezone

Daily

6:00 PM

(UTC) Coordinated Univers...

Instant Restore

Retain instant recovery snapshot(s) for

 **Day(s)** 

Retention range

Retention of daily backup point.

*At  For   **Day(s)**

Retention of weekly backup point.

*On  *At  For   **Week(s)**

Retention of monthly backup point.

*On  *Day  *At  For  **Month(s)**

Retention of yearly backup point.

Not Configured

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

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


90 days
26 weeks
36 months
45 months

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


1 hour
1 day
1 week
1 month
1 year

Answer Area

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

90 days
26 weeks
36 months
45 months

Correct Answer:

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

1 hour
1 day
1 week
1 month
1 year

Question #3**Topic 3**

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You need to deploy resources to host a stateless web app in an Azure subscription. The solution must meet the following requirements:

⇒ Provide access to the full .NET framework.

Provide redundancy if an Azure region fails.

▪

⇒ Grant administrators access to the operating system to install custom application dependencies.

Solution: You deploy two Azure virtual machines to two Azure regions, and you create an Azure Traffic Manager profile.

Does this meet the goal?

A. Yes Most Voted

B. No

Correct Answer: A

Azure Traffic Manager is a DNS-based traffic load balancer that enables you to distribute traffic optimally to services across global Azure regions, while providing high availability and responsiveness.

Community vote distribution

A (100%)

Question #4

Topic 3

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You need to deploy resources to host a stateless web app in an Azure subscription. The solution must meet the following requirements:

- ⇒ Provide access to the full .NET framework.
- ⇒ Provide redundancy if an Azure region fails.
- ⇒ Grant administrators access to the operating system to install custom application dependencies.

Solution: You deploy two Azure virtual machines to two Azure regions, and you deploy an Azure Application Gateway.

Does this meet the goal?

A. Yes

B. No Most Voted

Correct Answer: B

App Gateway will balance the traffic between VMs deployed in the same region. Create an Azure Traffic Manager profile instead.

Community vote distribution

B (100%)

Question #5

Topic 3

HOTSPOT -

You plan to create an Azure Storage account that will host file shares. The shares will be accessed from on-premises applications that are transaction intensive.

You need to recommend a solution to minimize latency when accessing the file shares. The solution must provide the highest-level of resiliency for the selected storage tier.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Storage tier:

	▼
Hot	
Premium	
Transaction optimized	

Redundancy:

	▼
Geo-redundant storage (GRS)	
Zone-redundant storage (ZRS)	
Locally-redundant storage (LRS)	

Answer Area**Storage tier:**

Hot	▼
Premium	
Transaction optimized	

Correct Answer:**Redundancy:**

Geo-redundant storage (GRS)	▼
Zone-redundant storage (ZRS)	
Locally-redundant storage (LRS)	

Box 1: Premium -

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

Incorrect Answers:

- ☞ Hot: Hot file shares offer storage optimized for general purpose file sharing scenarios such as team shares. Hot file shares are offered on the standard storage hardware backed by HDDs.
- ☞ Transaction optimized: Transaction optimized file shares enable transaction heavy workloads that don't need the latency offered by premium file shares.

Transaction optimized file shares are offered on the standard storage hardware backed by hard disk drives (HDDs). Transaction optimized has historically been called "standard", however this refers to the storage media type rather than the tier itself (the hot and cool are also "standard" tiers, because they are on standard storage hardware).

Box 2: Zone-redundant storage (ZRS):

Premium Azure file shares only support LRS and ZRS.

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

Reference:

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

Question #6

Topic 3

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You need to deploy resources to host a stateless web app in an Azure subscription. The solution must meet the following requirements:

- ⇒ Provide access to the full .NET framework.
- ⇒ Provide redundancy if an Azure region fails.
- ⇒ Grant administrators access to the operating system to install custom application dependencies.

Solution: You deploy an Azure virtual machine scale set that uses autoscaling.

Does this meet the goal?

A. Yes

B. No Most Voted

Correct Answer: B

Instead, you should deploy two Azure virtual machines to two Azure regions, and you create a Traffic Manager profile.

Note: Azure Traffic Manager is a DNS-based traffic load balancer that enables you to distribute traffic optimally to services across global Azure regions, while providing high availability and responsiveness.

Reference:

<https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-overview>

Community vote distribution

B (100%)

Question #7

Topic 3

HOTSPOT -

You need to recommend an Azure Storage account configuration for two applications named Application1 and Application2. The configuration must meet the following requirements:

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

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

Application1:

- BlobStorage with Standard performance, Hot access tier, and Read-access geo-redundant storage (RA-GRS) replication
- BlockBlobStorage with Premium performance and Zone-redundant storage (ZRS) replication
- General purpose v1 with Premium performance and Locally-redundant storage (LRS) replication
- General purpose v2 with Standard performance, Hot access tier, and Locally-redundant storage (LRS) replication

Application2:

- BlobStorage with Standard performance, Cool access tier, and Geo-redundant storage (GRS) replication
- BlockBlobStorage with Premium performance and Zone-redundant storage (ZRS) replication
- General purpose v1 with Standard performance and Read-access geo-redundant storage (RA-GRS) replication
- General purpose v2 with Standard performance, Cool access tier, and Read-access geo-redundant storage (RA-GRS) replication

Correct Answer:

Answer Area

Application1:

- BlobStorage with Standard performance, Hot access tier, and Read-access geo-redundant storage (RA-GRS) replication
- BlockBlobStorage with Premium performance and Zone-redundant storage (ZRS) replication
- General purpose v1 with Premium performance and Locally-redundant storage (LRS) replication
- General purpose v2 with Standard performance, Hot access tier, and Locally-redundant storage (LRS) replication

Application2:

- BlobStorage with Standard performance, Cool access tier, and Geo-redundant storage (GRS) replication
- BlockBlobStorage with Premium performance and Zone-redundant storage (ZRS) replication
- General purpose v1 with Standard performance and Read-access geo-redundant storage (RA-GRS) replication
- General purpose v2 with Standard performance, Cool access tier, and Read-access geo-redundant storage (RA-GRS) replication

Box 1: BlobStorage with Premium Performance,..

Application1 requires high transaction rates and the lowest possible latency. We need to use Premium, not Standard.

Box 2: General purpose v2 with Standard Performance,..

General Purpose v2 provides access to the latest Azure storage features, including Cool and Archive storage, with pricing optimized for the lowest GB storage prices. These accounts provide access to Block Blobs, Page Blobs, Files, and Queues. Recommended for most scenarios

using Azure Storage.

Reference:

Question #8

Topic 3

HOTSPOT -

You plan to develop a new app that will store business critical data. The app must meet the following requirements:

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

What storage solution should you recommend for the app? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Storage Account type:

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

Redundancy:

Zone-redundant storage (ZRS)
Locally-redundant storage (LRS)

Correct Answer:

Answer Area

Storage Account type:

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

Redundancy:

Zone-redundant storage (ZRS)
Locally-redundant storage (LRS)

Box 1: Standard general-purpose v2

Standard general-purpose v2 supports immutable storage.

In general Standard general-purpose v2 is the preferred Microsoft recommendation.

Box 2: Zone-redundant storage (ZRS)

ZRS is more resilient compared to LRS.

Note: RA-GRS is even more resilient, but it is not an option here.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-immutable-storage>

Question #9

Topic 3

You plan to deploy 10 applications to Azure. The applications will be deployed to two Azure Kubernetes Service (AKS) clusters. Each cluster will be deployed to a separate Azure region.

The application deployment must meet the following requirements:

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

Which service should you include in the recommendation?

A. Azure Front Door Most Voted

B. Azure Traffic Manager

C. AKS ingress controller

D. Azure Load Balancer

Correct Answer: A

Azure Front Door supports SSL.

Azure Front Door, which focuses on global load-balancing and site acceleration, and Azure CDN Standard, which offers static content caching and acceleration.

The new Azure Front Door brings together security with CDN technology for a cloud-based CDN with threat protection and additional capabilities.

Reference:

<https://docs.microsoft.com/en-us/azure/frontdoor/front-door-overview>

Community vote distribution

A (92%)

6%

Question #10

Topic 3

HOTSPOT -

You have an on-premises file server that stores 2 TB of data files.

You plan to move the data files to Azure Blob Storage in the West Europe Azure region.

You need to recommend a storage account type to store the data files and a replication solution for the storage account. The solution must meet the following requirements:

- ⇒ Be available if a single Azure datacenter fails.
- ⇒ Support storage tiers.
- ⇒ Minimize cost.

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:

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

Redundancy:

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

Correct Answer:

Answer Area

Storage Account type:

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

Redundancy:

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

Box 1: Standard general-purpose v2

Standard general-purpose v2 meets the requirements and minimizes the costs.

Box 2: Zone-redundant storage (ZRS)

ZRS protects against a Datacenter failure, while minimizing the costs.

Reference:

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

Question #11

Topic 3

HOTSPOT -

You have an Azure web app named App1 and an Azure key vault named KV1.

App1 stores database connection strings in KV1.

App1 performs the following types of requests to KV1:

- ⇒ Get
- ⇒ List
- ⇒ Wrap
- ⇒ Delete

Unwrap -

- ⇒ Backup

⇒ Decrypt

⇒ Encrypt

You are evaluating the continuity of service for App1.

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

⇒ To where will KV1 fail over?

⇒ During the failover, which request type will be unavailable?

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

To where will KV1 fail over?

- A server in the same availability set
- A server in the same fault domain
- A server in the paired region
- A virtual machine in a scale set

During the failover, which request type will be unavailable?

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

Correct Answer:

Answer Area

To where will KV1 fail over?

- A server in the same availability set
- A server in the same fault domain
- A server in the paired region
- A virtual machine in a scale set

During the failover, which request type will be unavailable?

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

Box 1: A server in the paired region

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

Regions are paired for cross-region replication based on proximity and other factors.

Box 2: Delete -

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

List certificates -

Get certificates -

List secrets -

Get secrets -

List keys -

Get (properties of) keys -

Encrypt -

Decrypt -

Wrap -

Unwrap -

Verify -

Sign -

Backup -

Reference:

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

Question #12

Topic 3

DRAG DROP -

Your company identifies the following business continuity and disaster recovery objectives for virtual machines that host sales, finance, and reporting applications in the company's on-premises data center:

- ⇒ The sales application must be able to fail over to a second on-premises data center.
- ⇒ The reporting application must be able to recover point-in-time data at a daily granularity. The RTO is eight hours.
- ⇒ The finance application requires that data be retained for seven years. In the event of a disaster, the application must be able to run from Azure. The recovery time objective (RTO) is 10 minutes.

You need to recommend which services meet the business continuity and disaster recovery objectives. The solution must minimize costs.

What should you recommend for each application? To answer, drag the appropriate services to the correct applications. Each service may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Services

- Azure Backup only
- Azure Site Recovery and Azure Backup
- Azure Site Recovery only

Answer Area

- | | |
|------------|---------------------|
| Sales: | Service or Services |
| Finance: | Service or Services |
| Reporting: | Service or Services |

Correct Answer:

Services

- Azure Backup only
- Azure Site Recovery and Azure Backup
- Azure Site Recovery only

Answer Area

- | | |
|------------|--------------------------------------|
| Sales: | Azure Site Recovery only |
| Finance: | Azure Site Recovery and Azure Backup |
| Reporting: | Azure Backup only |

Box 1: Azure Site Recovery -

Azure Site Recovery -

Coordinates virtual-machine and physical-server replication, failover, and fallback.

DR solutions have low Recovery point objectives; DR copy can be behind by a few seconds/minutes.

DR needs only operational recovery data, which can take hours to a day. Using DR data for long-term retention is not recommended because of the fine-grained data capture.

Disaster recovery solutions have smaller Recovery time objectives because they are more in sync with the source.

Remote monitor the health of machines and create customizable recovery plans.

Box 2: Azure Site Recovery and Azure Backup

Backup ensures that your data is safe and recoverable while Site Recovery keeps your workloads available when/if an outage occurs.

Box 3: Azure Backup only -

Azure Backup -

Backs up data on-premises and in the cloud

Have wide variability in their acceptable Recovery point objective. VM backups usually one day while database backups as low as 15 minutes.

Backup data is typically retained for 30 days or less. From a compliance view, data may need to be saved for years. Backup data is ideal for archiving in such instances.

Because of a larger Recovery point objective, the amount of data a backup solution needs to process is usually much higher, which leads to a longer Recovery time objective.

Reference:

<https://lighthousemsp.com/whats-the-difference-between-azure-backup-and-azure-site-recovery/>

Question #13

Topic 3

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

Correct Answer: D

General Purpose service tier provides zone redundant availability.

There are two high availability architectural models:

- * Standard availability model that is based on a separation of compute and storage. It relies on high availability and reliability of the remote storage tier. This architecture targets budget-oriented business applications that can tolerate some performance degradation during maintenance activities.
- * Premium availability model that is based on a cluster of database engine processes. It relies on the fact that there is always a quorum of available database engine nodes. This architecture targets mission-critical applications with high IO performance, high transaction rate and guarantees minimal performance impact to your workload during maintenance activities.

Note: Zone-redundant configuration for the general purpose service tier is offered for both serverless and provisioned compute. This configuration utilizes Azure

Availability Zones \rightarrow replicate databases across multiple physical locations within an Azure region. \rightarrow By selecting zone-redundancy, you can make your new and existing serverless and provisioned general-purpose single databases and elastic pools resilient to a much larger set of failures, including catastrophic datacenter outages, without any changes of the application logic.

Incorrect:

Not A: Azure SQL Managed Instance Business Critical is more expensive.

Not B: Premium is more expensive.

Not C: Azure SQL Database Basic, and General purpose provide only locally redundant availability.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/high-availability-sla>

Community vote distribution

B (96%)

Question #14

Topic 3

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 Managed Instance Business Critical

B. Azure SQL Database Premium Most Voted

C. Azure SQL Database Basic

D. Azure SQL Database Hyperscale

Correct Answer: B

Azure SQL Database Premium meets the requirements and is the least expensive.

Note: There are two high availability architectural models:

* Standard availability model that is based on a separation of compute and storage. It relies on high availability and reliability of the remote storage tier. This architecture targets budget-oriented business applications that can tolerate some performance degradation during maintenance activities.

* Premium availability model that is based on a cluster of database engine processes. It relies on the fact that there is always a quorum of available database engine nodes. This architecture targets mission-critical applications with high IO performance, high transaction rate and guarantees minimal performance impact to your workload during maintenance activities.

Note: Zone-redundant configuration for the general purpose service tier is offered for both serverless and provisioned compute. This configuration utilizes Azure

Availability Zones \rightarrow replicate databases across multiple physical locations within an Azure region. \rightarrow By selecting zone-redundancy, you can make your new and existing serverless and provisioned general-purpose single databases and elastic pools resilient to a much larger set of failures, including catastrophic datacenter outages, without any changes of the application logic.

Incorrect:

Not A: Azure SQL Managed Instance Business Critical is more expensive.

Not C: Azure SQL Database Basic, and General purpose provide only locally redundant availability.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/high-availability-sla>

Community vote distribution

B (92%)

8%

Question #15

Topic 3

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You need to deploy resources to host a stateless web app in an Azure subscription. The solution must meet the following requirements:

- ⇒ Provide access to the full .NET framework.
- ⇒ Provide redundancy if an Azure region fails.
- ⇒ Grant administrators access to the operating system to install custom application dependencies.

Solution: You deploy a web app in an Isolated App Service plan.

Does this meet the goal?

A. Yes

B. No Most Voted

Correct Answer: B

Instead: You deploy two Azure virtual machines to two Azure regions, and you create an Azure Traffic Manager profile.

Note: Azure Traffic Manager is a DNS-based traffic load balancer that enables you to distribute traffic optimally to services across global Azure regions, while providing high availability and responsiveness.

Reference:

<https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-overview>

Community vote distribution

B (100%)

Question #16

Topic 3

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 Serverless Most Voted

B. Azure SQL Database Business Critical Most Voted

C. Azure SQL Database Basic

D. Azure SQL Database Standard

Correct Answer: A

Now your new and existing serverless Azure SQL Databases allow for zone redundant configuration. This feature utilizes Azure Availability Zones to replicate databases across multiple physical locations within an Azure region. By selecting zone redundancy, you can make your serverless databases resilient to a much larger set of failures, including catastrophic datacenter outages without any changes of the application logic.

The SQL Database serverless compute tier optimizes price-performance and simplifies performance management for single databases with intermittent, unpredictable usage by auto-scaling compute and billing for compute used per second.

Incorrect:

Not B: Azure SQL Database Business Critical is a more expensive solution.

Not C: Azure SQL Database Basic does not provide zone redundancy.

Not D: Azure SQL Database Standard is a more expensive solution.

Reference:

<https://azure.microsoft.com/en-us/updates/public-preview-zone-redundant-configuration-for-azure-sql-database-serverless-compute-tier/>

Community vote distribution

B (62%)

A (38%)

Question #17

Topic 3

HOTSPOT

-

You have an on-premises Microsoft SQL Server database named SQL1.

You plan to migrate SQL1 to Azure.

You need to recommend a hosting solution for SQL1. The solution must meet the following requirements:

- Support the deployment of multiple secondary, read-only replicas.
- Support automatic replication between primary and secondary replicas.
- Support failover between primary and secondary replicas within a 15-minute recovery time objective (RTO).

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

Azure service or service tier:

Azure SQL Database	▼
Azure SQL managed Instance	▼
The Hyperscale service tier	▼

Replication mechanism:

Active geo-replication	▼
Auto-failover groups	▼
Standard geo-replication	▼

Answer Area

Azure service or service tier:

Azure SQL Database	▼
Azure SQL managed Instance	▼
The Hyperscale service tier	▼

Correct Answer:

Replication mechanism:

Active geo-replication	▼
Auto-failover groups	▼
Standard geo-replication	▼

Question #18

Topic 3

HOTSPOT

You have two on-premises Microsoft SQL Server 2017 instances that host an Always On availability group named AG1. AG1 contains a single database named DB1.

You have an Azure subscription that contains a virtual machine named VM1. VM1 runs Linux and contains a SQL Server 2019 instance.

You need to migrate DB1 to VM1. The solution must minimize downtime on DB1.

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

NOTE: Each correct selection is worth one point.

Prepare for the migration by:

- Adding a secondary replica to AG1
- Creating an Always On availability group on VM1
- Upgrading the on-premises SQL Server instances

Perform the migration by using:

- A distributed availability group
- Azure Migrate
- Log shipping

Prepare for the migration by:

- Adding a secondary replica to AG1
- Creating an Always On availability group on VM1
- Upgrading the on-premises SQL Server instances

Correct Answer:

Perform the migration by using:

- A distributed availability group
- Azure Migrate
- Log shipping

Question #19

Topic 3

HOTSPOT

You are building an Azure web app that will store the Personally Identifiable Information (PII) of employees.

You need to recommend an Azure SQL Database solution for the web app. The solution must meet the following requirements:

- Maintain availability in the event of a single datacenter outage.
- Support the encryption of specific columns that contain PII.
- Automatically scale up during payroll operations.
- Minimize costs.

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

NOTE: Each correct selection is worth one point.

Answer Area

Service tier and computer tier:

Business Critical service tier and Serverless computer tier
General Purpose service tier and Serverless computer tier
Hyperscale service tier and Provisioned compute tier

Encryption method:

Always Encrypted
Microsoft SQL Server and database encryption keys
Transparent Data Encryption (TDE)

Answer Area

Service tier and computer tier:

Business Critical service tier and Serverless computer tier
General Purpose service tier and Serverless computer tier
Hyperscale service tier and Provisioned compute tier

Correct Answer:

Encryption method:

Always Encrypted
Microsoft SQL Server and database encryption keys
Transparent Data Encryption (TDE)

Question #20

Topic 3

You plan to deploy an Azure Database for MySQL flexible server named Server1 to the East US Azure region.

You need to implement a business continuity solution for Server1. The solution must minimize downtime in the event of a failover to a paired region.

What should you do?

- A. Create a read replica.
- B. Store the database files in Azure premium file shares.
- C. Implement Geo-redundant backup. Most Voted
- D. Configure native MySQL replication.

Correct Answer: C

Community vote distribution

C (76%) A (20%)

Question #21

Topic 3

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

Name	Type	Description
VNet1	Virtual Network	<i>None</i>
LB1	Public load balancer	Includes a backend pool name BP1
VMSS1	Azure Virtual Machine Scale Sets	Included in BP1 Connected to VNet1
NVA1	Network Virtual Appliance (NVA)	Connected to VNet1 Performs security filtering of traffic for VMSS1
NVA2	Network Virtual Appliance (NVA)	Connected to VNet1 Performs security filtering of traffic for VMSS1

You need to recommend a load balancing solution that will distribute incoming traffic for VMSS1 across NVA1 and NVA2. The solution must minimize administrative effort.

What should you include in the recommendation?

A. Gateway Load Balancer Most Voted

B. Azure Front Door

C. Azure Application Gateway

D. Azure Traffic Manager

Correct Answer: A

Community vote distribution

A (100%)

Question #22

Topic 3

HOTSPOT

-

You have the Azure subscriptions shown in the following table.

Name	Location	Azure AD tenant
Sub1	East US	contoso.onmicrosoft.com
Sub2	East US	contoso-recovery.onmicrosoft.com

Contoso.onmicrosoft.com contains a user named User1.

You need to deploy a solution to protect against ransomware attacks. The solution must meet the following requirements:

- Ensure that all the resources in Sub1 are backed up by using Azure Backup.
- Require that User1 first be assigned a role for Sub2 before the user can make major changes to the backup configuration.

What should you create in each subscription? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Sub1:

- A Recovery Services vault
- A Resource Guard
- An Azure Site Recovery job
- Microsoft Azure Backup Server (MABS)
- The Microsoft Azure Recovery Services (MARS) agent

Sub2:

- A Recovery Services vault
- A Resource Guard
- An Azure Site Recovery job
- Microsoft Azure Backup Server (MABS)
- The Microsoft Azure Recovery Services (MARS) agent

Answer Area

Sub1:

- A Recovery Services vault**
- A Resource Guard
- An Azure Site Recovery job
- Microsoft Azure Backup Server (MABS)
- The Microsoft Azure Recovery Services (MARS) agent

Correct Answer:

Sub2:

- A Recovery Services vault**
- A Resource Guard**
- An Azure Site Recovery job
- Microsoft Azure Backup Server (MABS)
- The Microsoft Azure Recovery Services (MARS) agent

Question #23

Topic 3

HOTSPOT

You have 10 on-premises servers that run Windows Server.

You need to perform daily backups of the servers to a Recovery Services vault. The solution must meet the following requirements:

- Back up all the files and folders on the servers.
- Maintain three copies of the backups in Azure.
- Minimize costs.

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

NOTE: Each correct selection is worth one point.

Answer Area

On the servers:

- The Azure Site Recovery Mobility service
The Microsoft Azure Recovery Services (MARS) agent
Volume Shadow Copy Service (VSS)

For the storage:

- Geo-redundant storage (GRS)
Locally-redundant storage (LRS)
Zone-redundant storage (ZRS)

Answer Area

On the servers:

- The Azure Site Recovery Mobility service
The Microsoft Azure Recovery Services (MARS) agent
Volume Shadow Copy Service (VSS)

Correct Answer:

For the storage:

- Geo-redundant storage (GRS)**
Locally-redundant storage (LRS)
Zone-redundant storage (ZRS)

Question #24

Topic 3

HOTSPOT

You plan to deploy a containerized web-app that will be hosted in five Azure Kubernetes Service (AKS) clusters. Each cluster will be hosted in a different Azure region.

You need to provide access to the app from the internet. The solution must meet the following requirements:

- Incoming HTTPS requests must be routed to the cluster that has the lowest network latency.
- HTTPS traffic to individual pods must be routed via an ingress controller.
- In the event of an AKS cluster outage, failover time must be minimized.

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 global load balancing:

A dropdown menu containing the following options: Azure Front Door, Azure Traffic Manager, Cross-region load balancing in Azure, and Standard Load Balancer.

As the ingress controller:

A dropdown menu containing the following options: Azure Application Gateway, Azure Standard Load Balancer, and Basic Azure Load Balancer.

Answer Area

For global load balancing:

A dropdown menu containing the following options: Azure Front Door (highlighted with a black box), Azure Traffic Manager, Cross-region load balancing in Azure, and Standard Load Balancer.

Correct Answer:

As the ingress controller:

A dropdown menu containing the following options: Azure Application Gateway (highlighted with a black box), Azure Standard Load Balancer, and Basic Azure Load Balancer.

Question #25

Topic 3

HOTSPOT

You have an Azure subscription.

You create a storage account that will store documents.

You need to configure the storage account to meet the following requirements:

- Ensure that retention policies are standardized across the subscription.
- Ensure that data can be purged if the data is copied to an unauthorized location.

Which two settings should you enable? To answer, select the appropriate settings in the answer area.

NOTE: Each correct selection is worth one point.

Recovery
✓ <input type="checkbox"/> Enable operational backup with Azure Backup
✓ <input type="checkbox"/> Enable point-in-time restore for containers
✓ <input type="checkbox"/> Enable soft delete for blobs
✓ <input type="checkbox"/> Enable soft delete for containers
✓ <input type="checkbox"/> Enable permanent delete for soft deleted items
Tracking
✓ <input type="checkbox"/> Enable versioning for blobs
✓ <input type="checkbox"/> Enable blob change feed
Access control
✓ <input type="checkbox"/> Enable version-level immutability support

Recovery

- ✓ Enable operational backup with Azure Backup
- ✓ Enable point-in-time restore for containers
- ✓ Enable soft delete for blobs
- ✓ **Enable soft delete for containers**
- ✓ **Enable permanent delete for soft deleted items**

Correct Answer:

Tracking

- ✓ Enable versioning for blobs
- ✓ Enable blob change feed

Access control

- ✓ Enable version-level immutability support

Question #26

Topic 3

HOTSPOT

-

You have an Azure subscription.

You are designing a solution for containerized apps. The solution must meet the following requirements:

- Automatically scale the apps by creating additional instances.
- Minimize administrative effort to maintain nodes and clusters.
- Ensure that containerized apps are highly available across multiple availability zones.
- Provide a central location for the lifecycle management and storage of container images.

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

To run the containerized apps:

Azure Container Apps
Azure Container Instances
Azure Container Registry
Azure Kubernetes Service (AKS)

For the lifecycle management and storage of container images:

Azure Container Apps
Azure Container Instances
Azure Container Registry
Azure Service Fabric

Answer Area

To run the containerized apps:

Azure Container Apps
Azure Container Instances
Azure Container Registry
Azure Kubernetes Service (AKS)

Correct Answer:

For the lifecycle management and storage of container images:

Azure Container Apps
Azure Container Instances
Azure Container Registry
Azure Service Fabric

Question #27

Topic 3

DRAG DROP

You plan to use Azure Storage to store data assets.

You need to identify the procedure to fail over a general-purpose v2 account as part of a disaster recovery plan. The solution must meet the following requirements:

- Apps must be able to access the storage account after a failover.
- You must be able to fail back the storage account to the original location.
- Downtime must be minimized.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions

- After a failover, configure geo-redundant storage (GRS) replication for the storage account.
- Initiate a failover.
- Before a failover, configure zone-redundant storage (ZRS) replication for the storage account.
- Before a failover, configure geo-redundant storage (GRS) replication for the storage account.
- After a failover, configure zone-redundant storage (ZRS) replication for the storage account.

Answer Area**Answer Area**

- Before a failover, configure geo-redundant storage (GRS) replication for the storage account.
- Initiate a failover.
- After a failover, configure geo-redundant storage (GRS) replication for the storage account.

Correct Answer:**Topic 4 - Question Set 4**

Question #1

Topic 4

You have an Azure subscription that contains a Basic Azure virtual WAN named VirtualWAN1 and the virtual hubs shown in the following table.

Name	Location
Hub1	US East
Hub2	US West

You have an ExpressRoute circuit in the US East Azure region.

You need to create an ExpressRoute association to VirtualWAN1.

What should you do first?

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

Correct Answer: A

A basic Azure virtual WAN does not support express route. You have to upgrade to standard.

Reference:

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

Community vote distribution

A (100%)

Question #2

Topic 4

You have an Azure subscription that contains a storage account.

An application sometimes writes duplicate files to the storage account.

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

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

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

What should you include in the recommendation?

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

Correct Answer: B

You can schedule a powershell script with Azure Logic Apps.

When you want to run code that performs a specific job in your logic apps, you can create your own function by using Azure Functions. This service helps you create Node.js, C#, and F# functions so you don't have to build a complete app or infrastructure to run code. You can also call logic apps from inside Azure functions.

Reference:

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

Community vote distribution

B (100%)

Question #3

Topic 4

Your company has the infrastructure shown in the following table.

Location	Resource
Azure	<ul style="list-style-type: none">• Azure subscription named Subscription1• 20 Azure web apps
On-premises datacenter	<ul style="list-style-type: none">• Active Directory domain• Server running Azure AD Connect• Linux computer named Server1

The on-premises Active Directory domain syncs with Azure Active Directory (Azure AD).

Server1 runs an application named App1 that uses LDAP queries to verify user identities in the on-premises Active Directory domain.

You plan to migrate Server1 to a virtual machine in Subscription1.

A company security policy states that the virtual machines and services deployed to Subscription1 must be prevented from accessing the on-premises network.

You need to recommend a solution to ensure that App1 continues to function after the migration. The solution must meet the security policy.

What should you include in the recommendation?

- A. Azure AD Application Proxy
- B. the Active Directory Domain Services role on a virtual machine
- C. an Azure VPN gateway
- D. Azure AD Domain Services (Azure AD DS) Most Voted

Correct Answer: D

Azure Active Directory Domain Services (Azure AD DS) provides managed domain services such as domain join, group policy, lightweight directory access protocol (LDAP), and Kerberos/NTLM authentication.

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory-domain-services/overview>

Community vote distribution

D (96%)

Question #4

Topic 4

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

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

What should you include in the solution?

- A. Azure Logic Apps in the Consumption plan
- B. Azure Functions in the Premium plan Most Voted
- C. Azure Functions in the Consumption plan
- D. Azure Logic Apps in the integrated service environment

Correct Answer: B

Virtual connectivity is included in the Premium plan.

Reference:

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

Community vote distribution
B (99%)

Question #5

Topic 4

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

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

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

What should you include in the recommendation?

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

Correct Answer: D

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

Reference:

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

Community vote distribution
D (100%)

Question #6

Topic 4

HOTSPOT -

You have an Azure subscription named Subscription1 that is linked to a hybrid Azure Active Directory (Azure AD) tenant.

You have an on-premises datacenter that does NOT have a VPN connection to Subscription1. The datacenter contains a computer named Server1 that has

Microsoft SQL Server 2016 installed. Server is prevented from accessing the internet.

An Azure logic app resource named LogicApp1 requires write access to a database on Server1.

You need to recommend a solution to provide LogicApp1 with the ability to access Server1.

What should you recommend deploying on-premises and in Azure? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

On-premises:

A Web Application Proxy for Windows Server
An Azure AD Application Proxy connector
An On-premises data gateway
Hybrid Connection Manager

Azure:

A connection gateway resource
An Azure Application Gateway
An Azure Event Grid domain
An enterprise application

Answer Area

On-premises:

A Web Application Proxy for Windows Server
An Azure AD Application Proxy connector
An On-premises data gateway
Hybrid Connection Manager

Correct Answer:

Azure:

A connection gateway resource
An Azure Application Gateway
An Azure Event Grid domain
An enterprise application

Box 1: An on-premises data gateway

For logic apps in global, multi-tenant Azure that connect to on-premises SQL Server, you need to have the on-premises data gateway installed on a local computer and a data gateway resource that's already created in Azure.

Box 2: A connection gateway resource

Reference:

<https://docs.microsoft.com/en-us/azure/connectors/connectors-create-api-sqlazure>

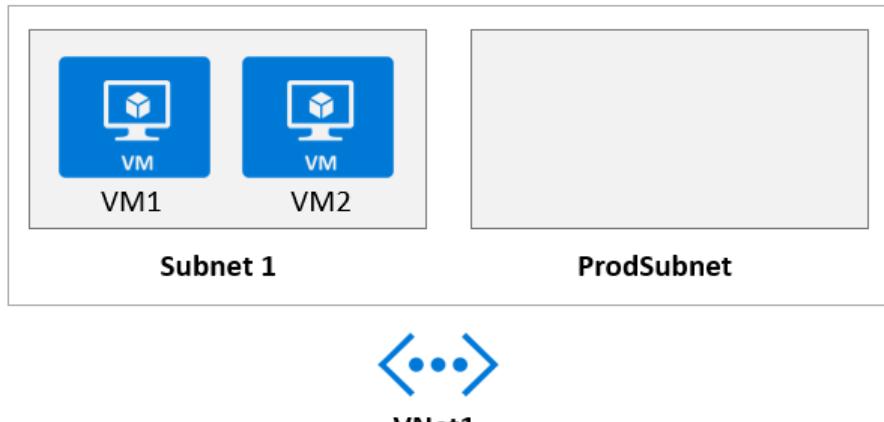
Question #7

Topic 4

HOTSPOT -

Your company develops a web service that is deployed to an Azure virtual machine named VM1. The web service allows an API to access real-time data from VM1.

The current virtual machine deployment is shown in the Deployment exhibit.



The chief technology officer (CTO) sends you the following email message: "Our developers have deployed the web service to a virtual machine named VM1.

Testing has shown that the API is accessible from VM1 and VM2. Our partners must be able to connect to the API over the Internet. Partners will use this data in applications that they develop."

You deploy an Azure API Management (APIM) service. The relevant API Management configuration is shown in the API exhibit.

Virtual network	Off	External	Internal	
Location	Virtual network			Subnet
West Europe	VNet1		ProdSubnet	

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
The API is available to partners over the internet.	<input type="radio"/>	<input checked="" type="radio"/>
The APIM instance can access real-time data from VM1.	<input checked="" type="radio"/>	<input type="radio"/>
A VPN gateway is required for partner access.	<input type="radio"/>	<input checked="" type="radio"/>

Answer Area

Statements	Yes	No
Correct Answer: The API is available to partners over the internet.	<input checked="" type="radio"/>	<input type="radio"/>
The APIM instance can access real-time data from VM1.	<input checked="" type="radio"/>	<input type="radio"/>
A VPN gateway is required for partner access.	<input type="radio"/>	<input checked="" type="radio"/>

Reference:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-using-with-vnet>

Question #8

Topic 4

DRAG DROP -

Your company has an existing web app that runs on Azure virtual machines.

You need to ensure that the app is protected from SQL injection attempts and uses a layer-7 load balancer. The solution must minimize disruptions to the code of the app.

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

NOTE: Each correct selection is worth one point.

Select and Place:

Services Web Application Firewall (WAF) Azure Application Gateway Azure Load Balancer Azure Traffic Manager SSL offloading URL-based content routing**Answer Area**Azure service: ServiceFeature: Service

Correct Answer:**Services****Web Application Firewall (WAF)****Azure Application Gateway****Azure Load Balancer****Azure Traffic Manager****SSL offloading****URL-based content routing****Answer Area**

Azure service:

Azure Application Gateway

Feature:

Web Application Firewall (WAF)**Box 1: Azure Application Gateway**

The Azure Application Gateway Web Application Firewall (WAF) provides protection for web applications. These protections are provided by the Open Web Application Security Project (OWASP) Core Rule Set (CRS).

Box 2: Web Application Firewall (WAF)**Reference:**

<https://docs.microsoft.com/en-us/azure/web-application-firewall/ag/application-gateway-customize-waf-rules-portal>

Question #9

Topic 4

You are designing a microservices architecture that will be hosted in an Azure Kubernetes Service (AKS) cluster. Apps that will consume the microservices will be hosted on Azure virtual machines. The virtual machines and the AKS cluster will reside on the same virtual network.

You need to design a solution to expose the microservices to the consumer apps. The solution must meet the following requirements:

- ⇒ Ingress access to the microservices must be restricted to a single private IP address and protected by using mutual TLS authentication.
- ⇒ The number of incoming microservice calls must be rate-limited.
- ⇒ Costs must be minimized.

What should you include in the solution?

- A. Azure App Gateway with Azure Web Application Firewall (WAF)
- B. Azure API Management Standard tier with a service endpoint
- C. Azure Front Door with Azure Web Application Firewall (WAF)
- D. Azure API Management Premium tier with virtual network connection Most Voted

Correct Answer: D

One option is to deploy APIM (API Management) inside the cluster VNet.

The AKS cluster and the applications that consume the microservices might reside within the same VNet, hence there is no reason to expose the cluster publicly as all API traffic will remain within the VNet. For these scenarios, you can deploy API Management into the cluster VNet. API Management Premium tier supports

VNet deployment.

Reference:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-kubernetes>

Community vote distribution

D (94%) 6%

Question #10

Topic 4

You have a .NET web service named Service1 that performs the following tasks:

- ⇒ Reads and writes temporary files to the local file system.
- ⇒ Writes to the Application event log.

You need to recommend a solution to host Service1 in Azure. The solution must meet the following requirements:

- ⇒ Minimize maintenance overhead.
- ⇒ Minimize costs.

What should you include in the recommendation?

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

Correct Answer: A

Azure Web App meets the requirements and is less expensive compared to VM scale sets.

Reference:

<https://docs.microsoft.com/en-us/azure/app-service/troubleshoot-diagnostic-logs>

Community vote distribution

A (89%) 11%

Question #11

Topic 4

You have the Azure resources shown in the following table.

Name	Type	Location
US-Central-Firewall-policy	Azure Firewall policy	Central US
US-East-Firewall-policy	Azure Firewall policy	East US
EU-Firewall-policy	Azure Firewall policy	West Europe
USEastfirewall	Azure Firewall	Central US
USWestfirewall	Azure Firewall	East US
EUFirewall	Azure Firewall	West Europe

You need to deploy a new Azure Firewall policy that will contain mandatory rules for all Azure Firewall deployments. The new policy will be configured as a parent policy for the existing policies.

What is the minimum number of additional Azure Firewall policies you should create?

- A. 0
- B. 1
- C. 2
- D. 3 Most Voted

Correct Answer: D

Firewall policies work across regions and subscriptions.

Place all your global configurations in the parent policy.

The parent policy is required to be in the same region as the child policy.

Each of the three regions must have a new parent policy.

Reference:

<https://docs.microsoft.com/en-us/azure/firewall-manager/overview>

Community vote distribution

D (79%)

B (21%)

Question #12

Topic 4

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

NAME	SIZE
DB1	400 GB
DB2	250 GB
DB3	300 GB
DB4	50 GB

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

The company is rewriting App1 as an Azure web app and plans to migrate all the data to Azure.

You need to migrate the data to Azure SQL Database and ensure that the database is only available on the first day of each month.

Which service tier should you use?

A. vCore-based General Purpose Most Voted

B. DTU-based Standard

C. vCore-based Business Critical

D. DTU-based Basic

Correct Answer: A

Note: App1 and the data are used on the first day of the month only. See Serverless compute tier below.

The vCore based purchasing model.

The term vCore refers to the Virtual Core. In this purchasing model of Azure SQL Database, you can choose from the provisioned compute tier and serverless compute tier.

* Provisioned compute tier: You choose the exact compute resources for the workload.

* Serverless compute tier: Azure automatically pauses and resumes the database based on workload activity in the serverless tier. During the pause period, Azure does not charge you for the compute resources.

Reference:

<https://www.sqlshack.com/dtu-and-vcore-based-models-for-azure-sql-databases/>

Community vote distribution

A (85%)

D (15%)

Question #13

Topic 4

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

You need to recommend a solution to enable the cloud services to asynchronously communicate transaction information by using XML messages. What should you include in the recommendation?

- A. Azure Service Fabric
- B. Azure Data Lake
- C. Azure Service Bus Most Voted
- D. Azure Traffic Manager

Correct Answer: C

Asynchronous messaging options in Azure include Azure Service Bus, Event Grid, and Event Hubs.

Reference:

<https://docs.microsoft.com/en-us/azure/architecture/guide/technology-choices/messaging>

Community vote distribution
C (100%)

Question #14

Topic 4

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

You plan to move all the virtual machines to Azure.

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

What should you use to make the recommendation?

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

Correct Answer: C

Azure Migrate provides a centralized hub to assess and migrate on-premises servers, infrastructure, applications, and data to Azure. It provides the following:

Unified migration platform: A single portal to start, run, and track your migration to Azure. Range of tools: A range of tools for assessment and migration.

Reference:

<https://docs.microsoft.com/en-us/azure/migrate/migrate-services-overview>

Community vote distribution
C (100%)

Question #15

Topic 4

You plan to provision a High Performance Computing (HPC) cluster in Azure that will use a third-party scheduler.

You need to recommend a solution to provision and manage the HPC cluster node.

What should you include in the recommendation?

A. Azure Automation

B. Azure CycleCloud Most Voted

C. Azure Purview

D. Azure Lighthouse

Correct Answer: B

You can dynamically provision Azure HPC clusters with Azure CycleCloud.

Azure CycleCloud is the simplest way to manage HPC workloads.

Note: Azure CycleCloud is an enterprise-friendly tool for orchestrating and managing High Performance Computing (HPC) environments on Azure. With

CycleCloud, users can provision infrastructure for HPC systems, deploy familiar HPC schedulers, and automatically scale the infrastructure to run jobs efficiently at any scale. Through CycleCloud, users can create different types of file systems and mount them to the compute cluster nodes to support HPC workloads.

Reference:

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

Community vote distribution

B (100%)

Question #16

Topic 4

HOTSPOT -

You are designing an Azure App Service web app.

You plan to deploy the web app to the North Europe Azure region and the West Europe Azure region.

You need to recommend a solution for the web app. The solution must meet the following requirements:

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

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Request routing method:

A Traffic Manager profile
Azure Application Gateway
Azure Load Balancer

Request routing configuration:

Cookie-based session affinity
Performance traffic routing
Priority traffic routing
Weighted traffic routing

Answer Area

Request routing method:

A Traffic Manager profile
Azure Application Gateway
Azure Load Balancer

Correct Answer:

Request routing configuration:

Cookie-based session affinity
Performance traffic routing
Priority traffic routing
Weighted traffic routing

Box 1: A Traffic Manager profile

To support load balancing across the regions we need a Traffic Manager.

Box 2: Priority traffic routing -

Priority traffic-routing method.

Often an organization wants to provide reliability for their services. To do so, they deploy one or more backup services in case their primary goes down. The

'Priority' traffic-routing method allows Azure customers to easily implement this failover pattern.

Reference:

<https://docs.microsoft.com/en-us/azure/architecture/reference-architectures/app-service-web-app/multi-region>

<https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-routing-methods>

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