

Exam Questions AZ-301

Microsoft Azure Architect Design

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NEW QUESTION 1

- (Exam Topic 1)

You need to recommend a solution to meet the database retention requirement. What should you recommend?

- A. Configure a long-term retention policy for the database.
- B. Configure Azure Site Recovery.
- C. Configure geo replication of the database.
- D. Use automatic Azure SQL Database backups.

Answer: A

NEW QUESTION 2

- (Exam Topic 1)

You design a solution for the web tier of WebApp1 as shown in the exhibit.



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

Statements	Yes	No
The design supports the technical requirements for redundancy.	<input type="radio"/>	<input type="radio"/>
The design supports autoscaling.	<input type="radio"/>	<input type="radio"/>
The design requires a manual configuration if an Azure region fails.	<input checked="" type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
The design supports the technical requirements for redundancy.	<input checked="" type="radio"/>	<input type="radio"/>
The design supports autoscaling.	<input type="radio"/>	<input checked="" type="radio"/>
The design requires a manual configuration if an Azure region fails.	<input checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION 3

- (Exam Topic 1)

You are evaluating the components of the migration to Azure that require you to provision an Azure Storage account.

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Statements	Yes	No
You must provision an Azure Storage account for the SQL Server database migration.	<input type="radio"/>	<input type="radio"/>
You must provision an Azure Storage account for the Web site content storage.	<input type="radio"/>	<input type="radio"/>
You must provision an Azure Storage account for the Database metric monitoring.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

Statements	Yes	No
You must provision an Azure Storage account for the SQL Server database migration.	<input checked="" type="radio"/>	<input type="radio"/>
You must provision an Azure Storage account for the Web site content storage.	<input type="radio"/>	<input checked="" type="radio"/>
You must provision an Azure Storage account for the Database metric monitoring.	<input checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION 4

- (Exam Topic 1)

What should you include in the identity management strategy to support the planned changes?

- A. Move all the domain controllers from corp.fabrikam.com to virtual networks in Azure.
B. Deploy domain controllers for corp.fabrikam.com to virtual networks in Azure.
C. Deploy a new Azure AD tenant for the authentication of new R&D projects.
D. Deploy domain controllers for the rd.fabrikam.com forest to virtual networks in Azure.

Answer: B

Explanation:

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. (This requires domain controllers in Azure)

Users on the on-premises network must be able to authenticate to corp.fabrikam.com if an Internet link fails. (This requires domain controllers on-premises)

NEW QUESTION 5

- (Exam Topic 2)

You have an Azure subscription for used for testing and development purposes only. The subscription contains Azure virtual machines that unmanaged, standard

hard disk drives (HDD).

You need to recommend a recovery strategy for the virtual machines if an Azure region fails for a sustained period. The recovery time objective (WTO) can be up to seven days. The solution must minimize costs.

What should you include in the recommendation?

- A. Store the disks in a Standard_LRS storage account
- B. Configure Azure site Recover
- C. If a failure occurs, initiate a manual failure over.
- D. Store the disks in a Standard_GRS storage account
- E. Configure Azure Recover
- F. If a failure occurs, initiate a manual failover.
- G. Store the disks in a Standard_LRS storage account
- H. If a disaster occurs, manually create the virtual machines by using Azure Resource Manager templates.
- I. Store the disks in a Standard_GRS storage account
- J. If a disaster occurs, manually create the virtual machines by using Azure Resource Manager templates.

Answer: B

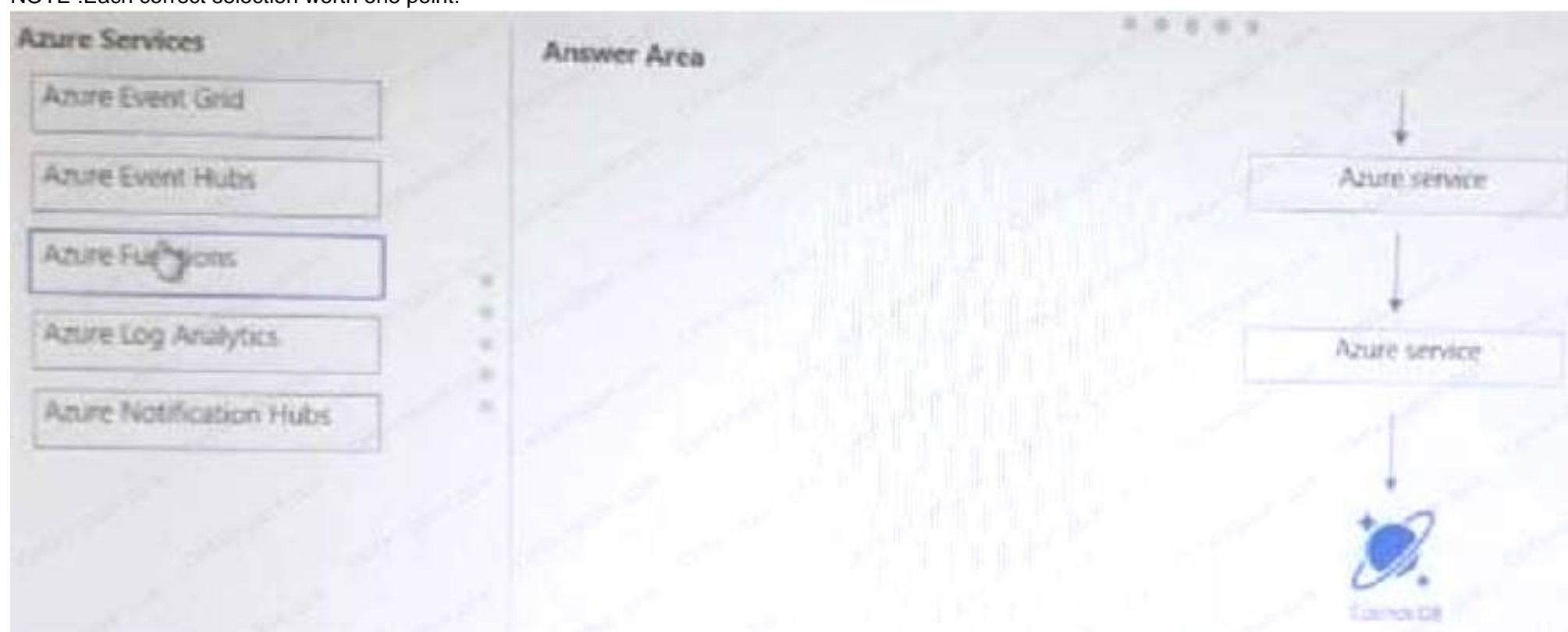
NEW QUESTION 6

- (Exam Topic 2)

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

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

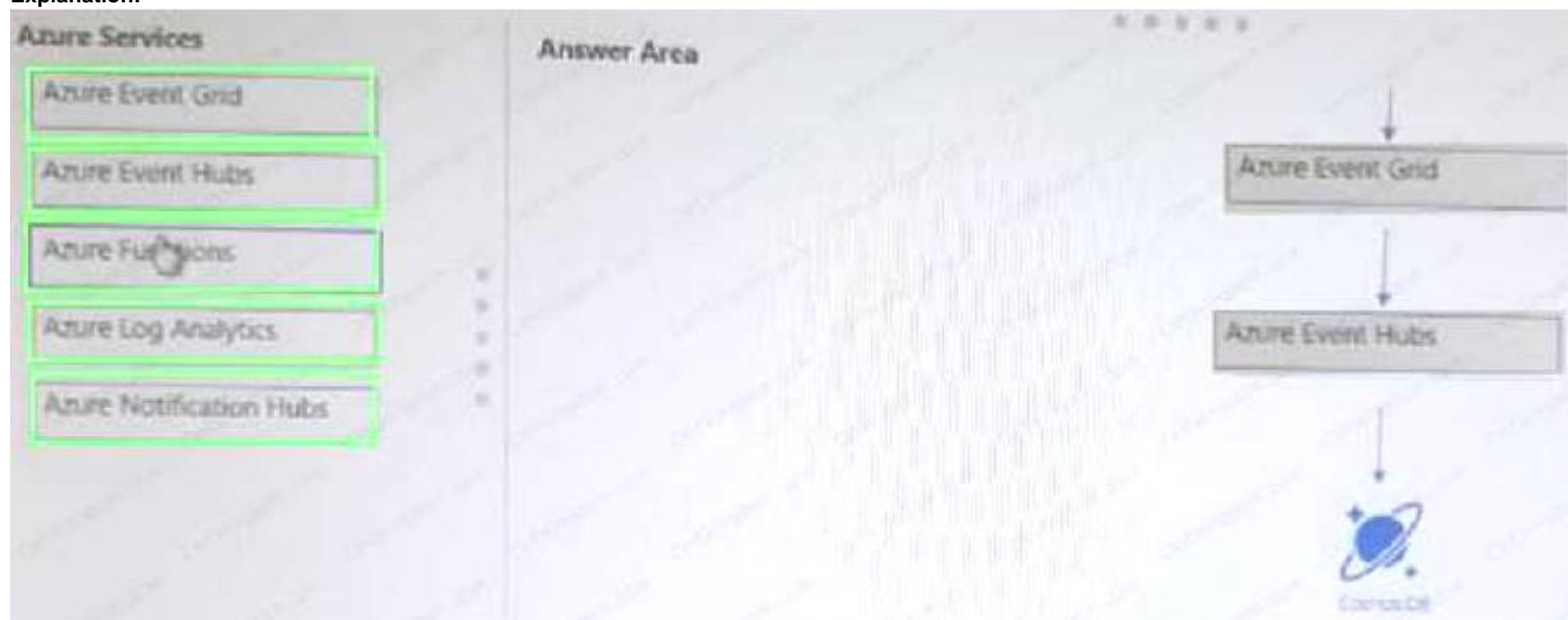
NOTE .Each correct selection worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 7

- (Exam 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?

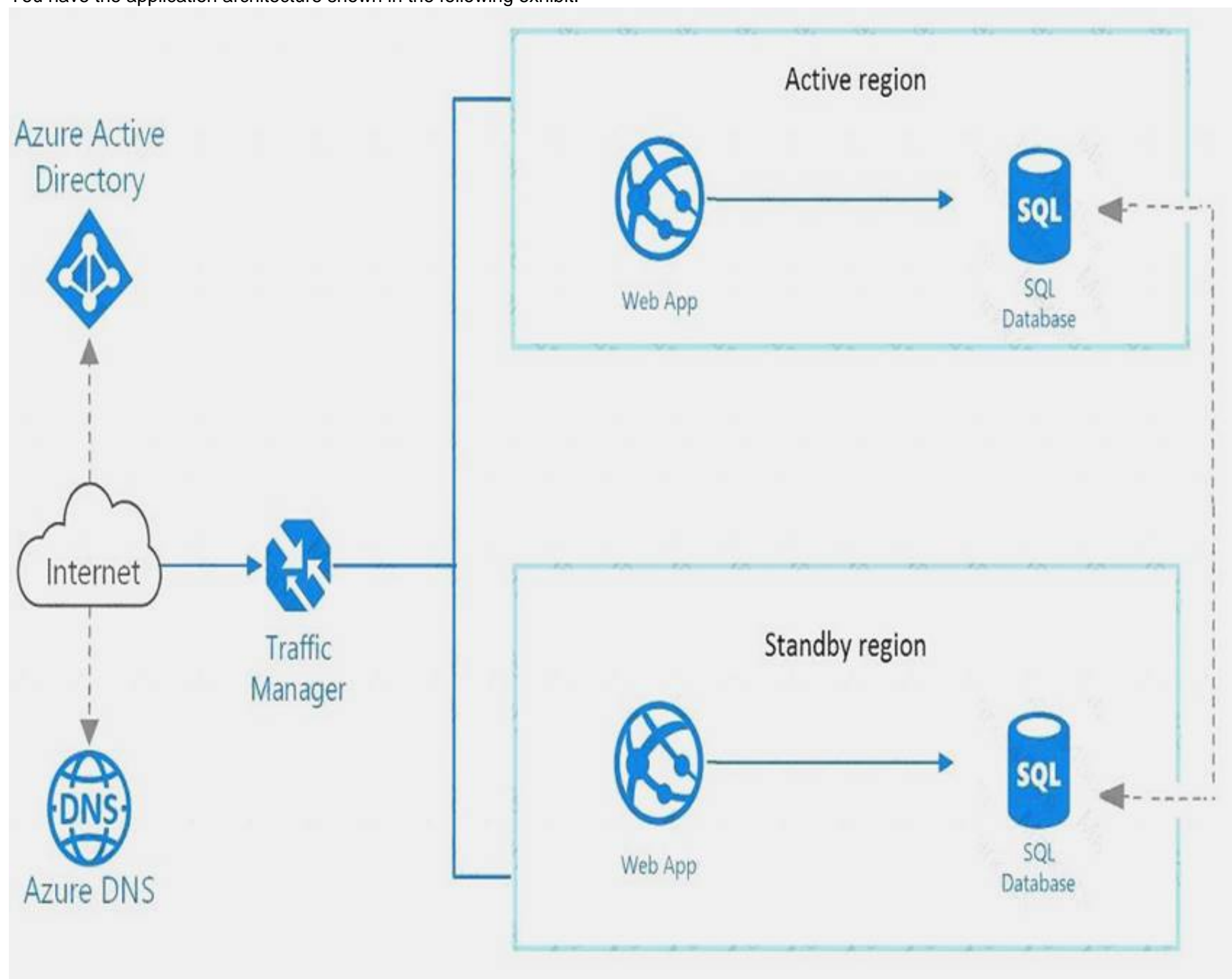
- A. Microsoft SQL Server Migration Assistant (SSMA)
- B. Azure Data Factory
- C. Data Migration Assistant
- D. AzCopy

Answer: C

NEW QUESTION 8

- (Exam Topic 2)

You have the application architecture shown in the following exhibit.



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

NOTE: Each correct selection is worth one point.

To change the front end to an active/active architecture in which both regions process incoming connections, you must **[answer choice]**.

- add a load balancer to each region
- add an Azure Application Gateway to each region
- add an Azure content delivery network (CDN)
- modify the Traffic Manager routing method

To control the threshold for failing over the front end to the standby region, you must configure the **[answer choice]**.

- an Application Insights availability test
- Azure SQL Database failover groups
- Connection Monitor in Azure Network Watcher
- Endpoint monitor settings in Traffic Manager

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

References:

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

NEW QUESTION 9

- (Exam Topic 2)

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

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

Ensure that the users receive files from the same region as the web app that they access.

Ensure that the files only need to be updated once.

Minimize costs.

What should you include in the recommendation?

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

Answer: C

NEW QUESTION 10

- (Exam Topic 2)

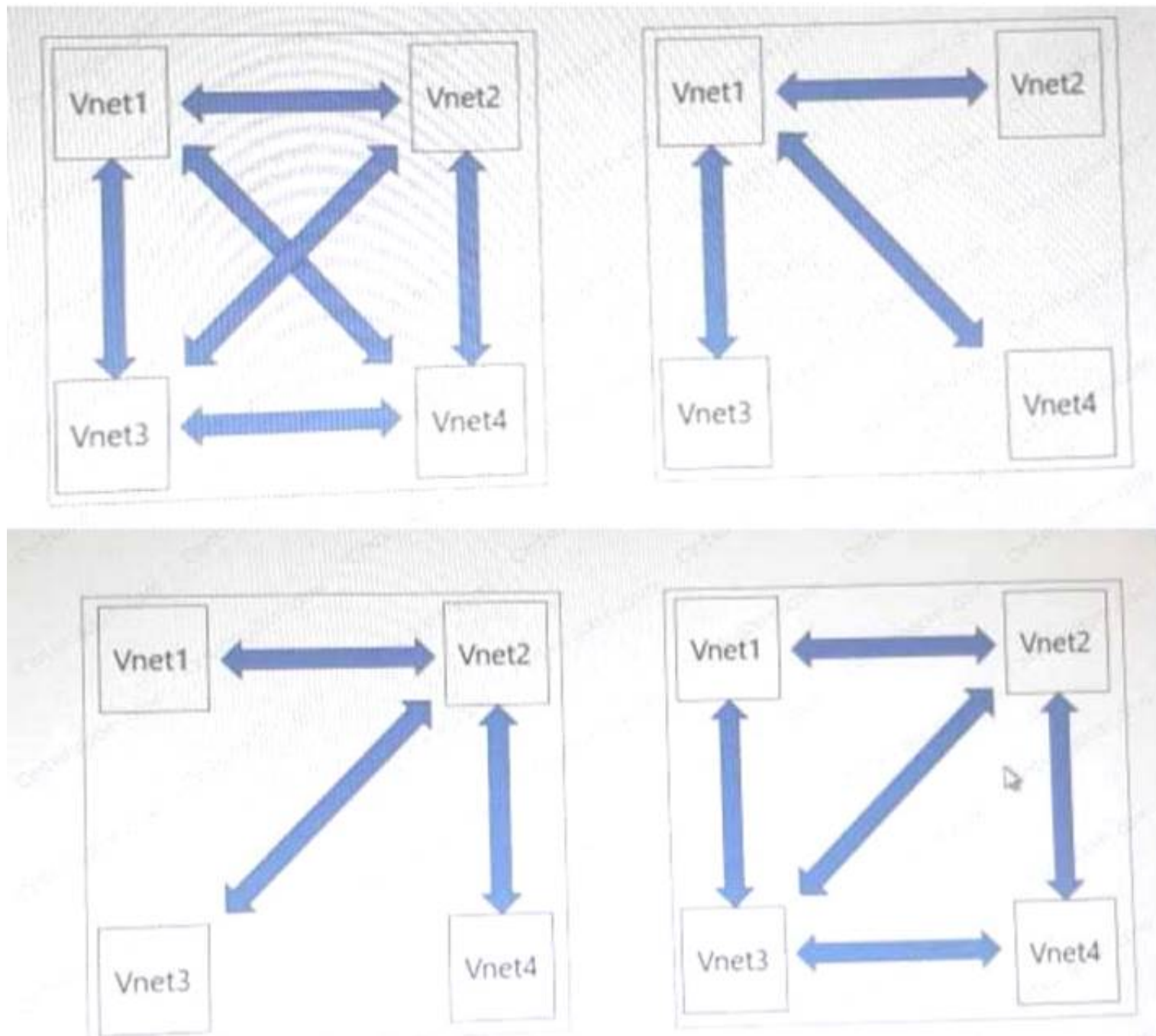
You have an Azure environment that contains the Azure subscription and the virtual networks shown in the following table.

Virtual network name	Subscription name	Virtual network type
Vnet1	Subscription1	Classic mode
Vnet2	Subscription1	Resource Manager
Vnet3	Subscription1	Resource Manager
Vnet4	Subscription2	Resource Manager

You need to recommend a virtual network peering solution to ensure that the resources connected to any other virtual network. The solution must minimize administrative effort.

Which virtual network peering topology should you recommend? To answer, select the appropriate topology in the answer area.

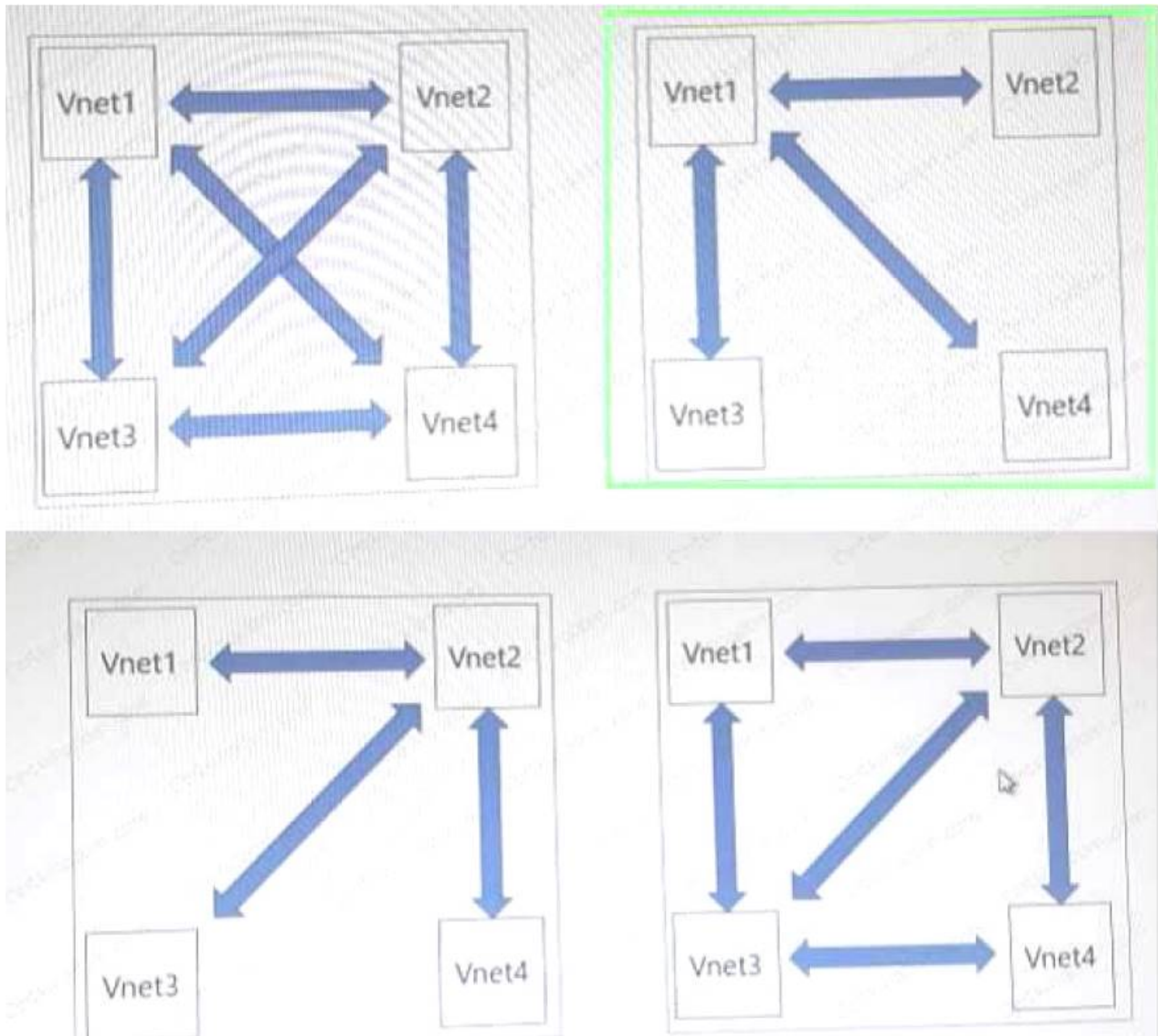
NOTE: Each correct selection is worth one point,



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 10

- (Exam Topic 2)

You have an on premises Active Directory forest and an Azure Active Directory (Azure AD) tenant. All Azure AD users are assigned a Premium P1 license.

You deploy Azure AD Connect.

Which two features are available in this environment that can reduce operational overhead to your company's help desk? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. self-service password reset
- B. access review
- C. password writeback
- D. Azure AD Privileged Identity Management policies
- E. Microsoft Cloud App Security Conditional Access App Control

Answer: AD

NEW QUESTION 13

- (Exam Topic 2)

You plan to deploy a payroll system to Azure. The payroll system will use Azure virtual machines that run SUSE Linux Enterprise Server and Windows.

You need to recommend a business continuity solution for the payroll system. The solution must meet the following requirements:

Minimize costs.

Provide business continuity if an Azure region fails.

Provide a recovery time objective (RTO) of 30 minutes.

Provide a recovery point objective (RPO) of five minutes.

What should you include in the recommendation?

- A. Microsoft System Center Data Protection Manager (DPM)
- B. unmanaged disks that use geo-redundant storage (GRS)
- C. Azure Site Recovery
- D. Azure Backup

Answer: C

NEW QUESTION 16

- (Exam Topic 2)

You manage a single-domain, on-premises Active Directory for named contoso.com. The forest functional level is window Server 2016.

You have several on-premises applications that depend on Active Directory. You plan to migrate the applications to Azure.

You need to recommend an identity solution for the appkcatkms. The solution must meet the following requirements:

- Eliminate the need for hybrid network connectivity
- Minimize management overhead for Active Directory. What should you recommend?

- A. In Azure, deploy additional domain controllers for the contoso.com domain
- B. In Azure, deploy an additional child domain to the contoso.com forest.
- C. Implement Azure Active Directory Domain Services (Azure AD DS).
- D. Implement a new Active Directory forest in Azure.

Answer: A

NEW QUESTION 19

- (Exam Topic 2)

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

You plan to move all the virtual machines to Azure.

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

What should you use to make the recommendation?

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

Answer: A

NEW QUESTION 21

- (Exam Topic 2)

You have an Azure Contoso DB account named Account1 that has one write region and four read regions. You need to recommend a solution to ensure that, by default, any reads containers in Account1 will never see out writes. The solution must minimize costs.

What should you recommend?

- A. Configure Account1 to use the Strong consistency level.
- B. Create all the containers in Account1 as fixed.
- C. Create all the containers in Account1 as unlimited.
- D. Configure Account 1 to use the Consistent Prefix consistency level

Answer: A

NEW QUESTION 26

- (Exam Topic 2)

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

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

You have an Azure subscription named Project1. Only a group named Project1admins is assigned roles in the Project1 subscription. The Project1 subscription contains all the resources for an application named Application1.

Your company is developing a new application named Application2. The members of the Application2 development team belong to an Azure Active Directory (Azure AD) group named App2Dev.

You identify the following requirements for Application2:

The members of App2Dev must be prevented from changing the role assignments in Azure.

The members of App2Dev must be able to create new Azure resources required by Application2.

All the required role assignments for Application2 will be performed by the members of Project1admins.

You need to recommend a solution for the role assignments of Application2.

Solution: Create a new Azure subscription named Project2. Assign Project1admins the Owner role for the Project2 subscription. Assign App2Dev the Contributor role for the Project2 subscription.

Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 27

- (Exam Topic 2)

You are planning to deploy an application by using the Azure Kubernetes Services (AKS)> the application will rely on having access to an encryption key that will be used to ... transmit files

What should you use to provide the encryption key AKS security?

- A. secrets
- B. Azure Storage Service Encryption
- C. a Kubernetes deployment YAML file

D. ConfigureMap

Answer: C

NEW QUESTION 29

- (Exam Topic 2)

You are designing a data protection strategy for Azure virtual machines. All the virtual machines are in the Standard tier and use managed disks.

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

The use of encryption keys is audited.

All the data is encrypted at rest always.

You manage the encryption keys, not Microsoft.

What should you include in the recommendation?

A. BitLocker Drive Encryption (BitLocker)

B. Azure Storage Service Encryption

C. client-side encryption

D. Azure Disk Encryption

Answer: D

Explanation:

References:

<https://docs.microsoft.com/en-us/azure/security/azure-security-disk-encryption-overview>

NEW QUESTION 33

- (Exam Topic 2)

You plan to create an Azure Cosmos DB account that uses the SQL API. The account will contain data added by a web application. The web application will send data daily.

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

Sends email notification when data is received from IoT devices.

Minimizes compute cost.

What should you include in the recommendation?

A. Deploy an Azure logic app that has the Azure Cosmos DB connector configured to use a SendGrid action.

B. Deploy a function app that is configured to use the Consumption plan and a SendGrid binding.

C. Deploy an Azure logic app that has a SendGrid connector configured to use an Azure Cosmos DB action.

D. Deploy a function app that is configured to use the Consumption plan and an Azure Event Hubs binding.

Answer: B

NEW QUESTION 36

- (Exam Topic 2)

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

Must read and write to the local file system.

Must write to the Windows Application event log.

You need to recommend a solution to host Service1 in Azure .

The solution must meet the following requirements:

Minimize maintenance overhead.

Minimize costs.

What should you include in the recommendation?

A. an Azure web app

B. Azure function

C. an App service Environment

D. an Azure virtual machine scale set

Answer: B

NEW QUESTION 41

- (Exam Topic 2)

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 to two Azure regions, and you deploy an Azure Application Gateway.

Does this meet the goal?

A. Yes

B. No

Answer: B

NEW QUESTION 44

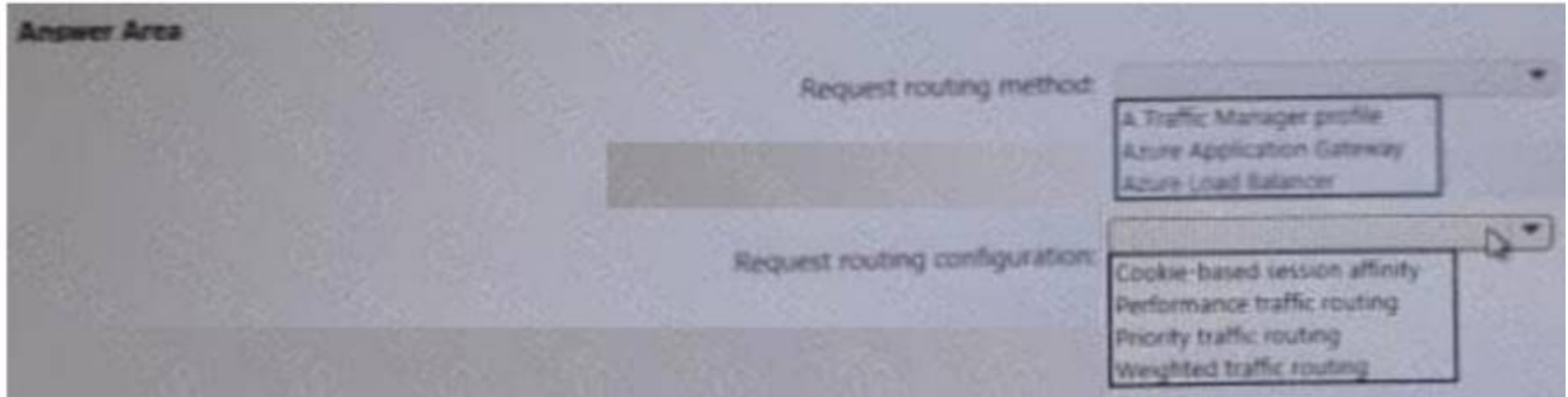
- (Exam Topic 2)

You are designing an Azure web app. You plan to deploy the web app to the Europe Azure region and the West Europe region.

You need to recommend a solution for the web app. The solution must the following requirements: Users must always access the web app from the North region, unless the region fails.

The web app must be available to users if an Azure region is unavailable. Deployment costs must be minimized.

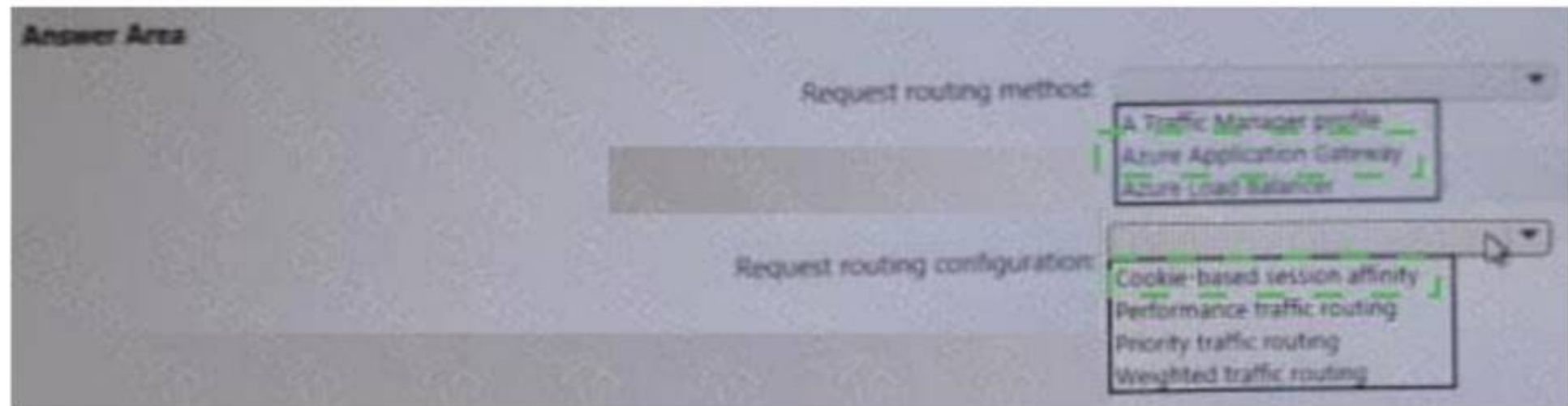
What should you include in the recommendation? To answer, select the appropriate options in the area. NOTE: Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 45

- (Exam Topic 2)

You configure the Diagnostics settings for an Azure SQL database as shown in the following exhibit.

Save Discard Delete

Name
 Diags

☐ Archive to a storage account

☐ Stream to an event hub

☒ Send to Log Analytics

Log Analytics
 OMSWorkspace1

LOG

☒ SQLInsights

☒ Automatic Tuning

☒ QueryStoreRuntimeStatistics

☒ QueryStoreWaitStatistics

☒ Errors

☒ DatabaseWaitStatistics

☒ Timeouts

☒ Blocks

☒ Deadlocks

☒ Audit

☒ SQLSecurityAuditEvents

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

To perform real-time reporting by using Microsoft Power BI, you must first [answer choice]

Diagnostics data can be reviewed in [answer choice]

clear Send to Log Analytics
 clear SQLInsights
 select Archive to a storage account
 select Stream to an event hub

Azure Analysis Services
 Azure Application Insights
 Azure SQL Analytics
 Microsoft SQL Server Analysis Services (SSAS)
 SQL Health Check

- A. Mastered
 B. Not Mastered

Answer: A

Explanation:

To perform real-time reporting by using Microsoft Power BI, you must first [answer choice]

Diagnostics data can be reviewed in [answer choice]

clear Send to Log Analytics
 clear SQLInsights
 select Archive to a storage account
 select Stream to an event hub

Azure Analysis Services
 Azure Application Insights
 Azure SQL Analytics
 Microsoft SQL Server Analysis Services (SSAS)
 SQL Health Check

NEW QUESTION 48

- (Exam Topic 2)

You need to recommend a solution to generate a monthly report of all the new Azure Resource Manager resource deployment in your subscription. What should you include in the recommendation?

- A. Azure Activity Log
- B. Azure Monitor action groups
- C. Azure Advisor
- D. Azure Monitor metrics

Answer: B

NEW QUESTION 53

- (Exam Topic 2)

Your company has an on-premises Windows HPC cluster. The cluster runs an intrinsically parallel, compute-intensive workload that performs financial risk modelling.

You plan to migrate the workload to Azure Batch.

You need to design a solution that will support the workload. The solution must meet the following requirements:

Support the large-scale parallel execution of Azure Batch jobs.

Minimize cost.

What should you include in the solution?

- A. Basic A-series virtual machines
- B. low-priority virtual machines
- C. burstable virtual machines
- D. Azure virtual machine sizes that support the Message Passing Interface (MPI) API

Answer: B

Explanation:

References:

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

NEW QUESTION 55

- (Exam Topic 2)

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

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

What would you include in the recommendation?

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

Answer: D

NEW QUESTION 60

- (Exam Topic 2)

You are designing a container solution in Azure that will include two containers. One container will host a web API that will be available to the public. The other container will perform health monitoring of the web API and will remain private. The two containers will be deployed together as a group.

You need to recommend a compute service for the containers. The solution must minimize costs and maintenance overhead.

What should you include in the recommendation?

- A. Azure container instances
- B. Azure container Service
- C. Azure Kubernetes service (AKS)
- D. Azure service fabric

Answer: A

Explanation:

References:

<https://docs.microsoft.com/en-us/azure/container-instances/container-instances-container-groups>

NEW QUESTION 62

- (Exam Topic 3)

You need to recommend a high-availability solution for the middle tier of the payment processing system. What should you include in the recommendation?

- A. availability zones
- B. an availability set
- C. the Premium App Service plan
- D. the Isolated App Service plan

Answer: A

NEW QUESTION 65

- (Exam Topic 3)

You need to design a solution for securing access to the historical transaction data.

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.

The Azure Cosmos DB account will be used to:

▼
Create users and generate resource tokens
Create users and request resource tokens
Generate resource tokens and perform authentication
Request resource tokens and perform authentication

The .NET web service will be used to:

▼
Create users and generate resource tokens
Create users and request resource tokens
Generate resource tokens and perform authentication
Request resource tokens and perform authentication

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

The Azure Cosmos DB account will be used to:

▼
Create users and generate resource tokens
Create users and request resource tokens
Generate resource tokens and perform authentication
Request resource tokens and perform authentication

The .NET web service will be used to:

▼
Create users and generate resource tokens
Create users and request resource tokens
Generate resource tokens and perform authentication
Request resource tokens and perform authentication

NEW QUESTION 69

- (Exam Topic 3)

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

- A. Azure Kubernetes Service (AKS)
- B. virtual machine scale sets
- C. availability sets
- D. App Service Environments (ASEs)

Answer: B

NEW QUESTION 70

- (Exam Topic 3)

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

- A. Always On Failover Cluster Instances
- B. active geo-replication
- C. Azure Site Recovery
- D. an auto-failover group

Answer: D

Explanation:
References:
<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-auto-failover-group>

NEW QUESTION 73

- (Exam Topic 3)
You need to recommend a solution for configuring the Azure Multi-Factor Authentication (MFA) settings. 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.

Azure AD license:

▼

Free

Basic

Premium P1

Premium P2

Access control for the sign-in risk policy:

▼

Allow access and require multi-factor authentication

Block access and require multi-factor authentication

Allow access and require Azure MFA registration

Block access

Access control for the multi-factor authentication registration policy:

▼

Allow access and require multi-factor authentication

Block access and require multi-factor authentication

Allow access and require Azure MFA registration

Block access

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:
References:
<https://docs.microsoft.com/en-us/azure/active-directory/identity-protection/howto-sign-in-risk-policy> <https://docs.microsoft.com/en-us/azure/active-directory/identity-protection/howto-mfa-policy>

NEW QUESTION 74

- (Exam Topic 3)
You need to recommend a solution for protecting the content of the back-end tier of the payment processing system. What should you include in the recommendations?

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

Answer: A

NEW QUESTION 78

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