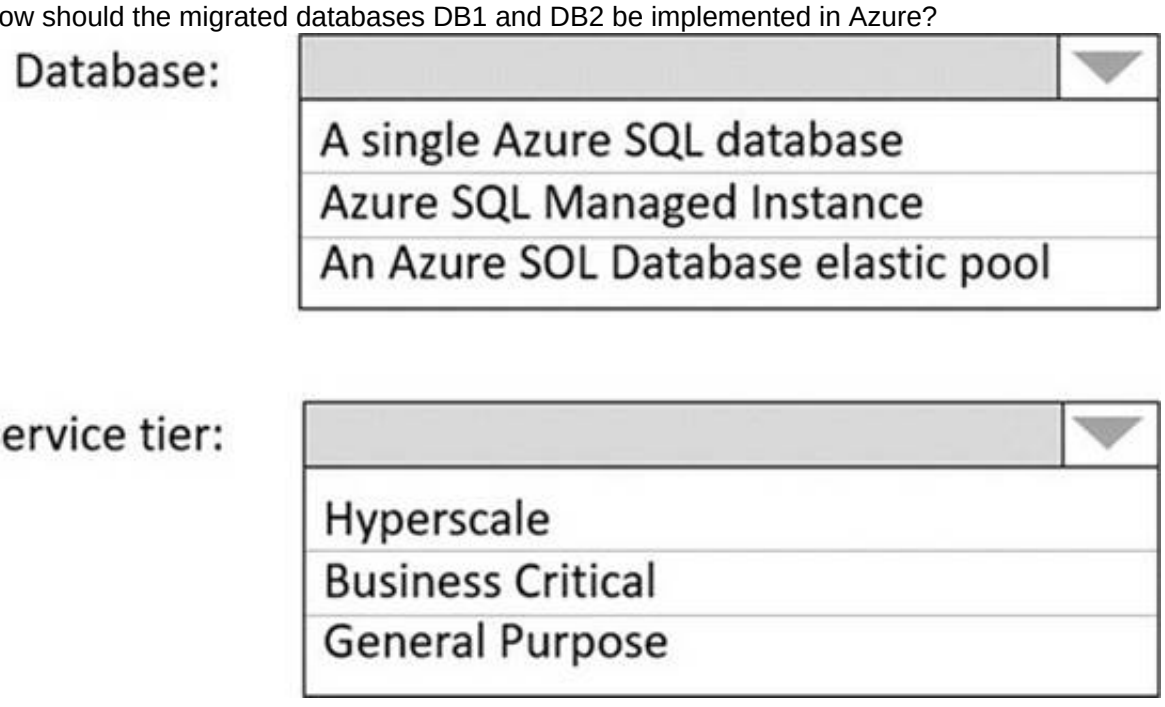
Microsoft

Exam Questions AZ-305

Designing Microsoft Azure Infrastructure Solutions

NEW QUESTION 1
- (Exam Topic 1)
How should the migrated databases DB1 and DB2 be implemented in Azure?



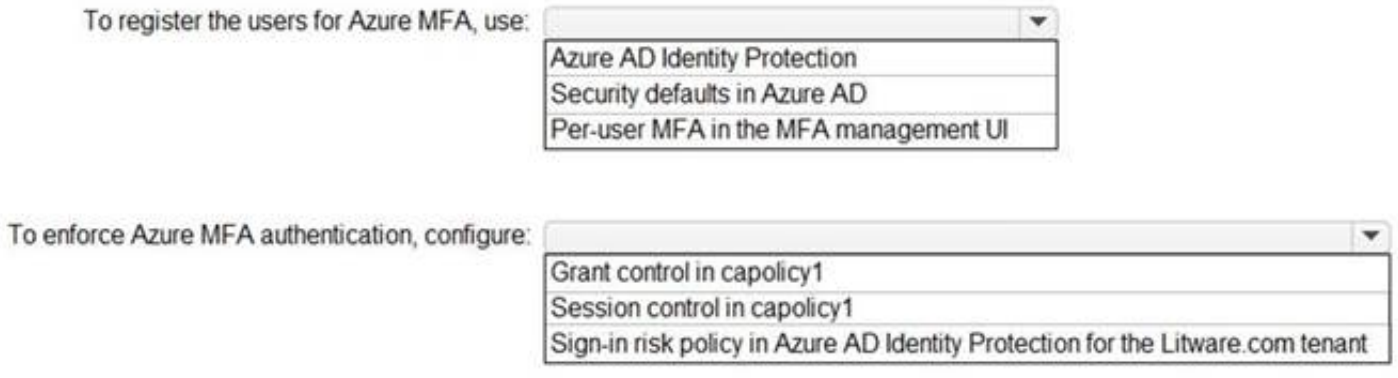
A. Mastered
B. Not Mastered

Answer: A

Explanation:
Table Description automatically generated
Box 1: SQL Managed Instance
Scenario: Once migrated to Azure, DB1 and DB2 must meet the following requirements:
- Maintain availability if two availability zones in the local Azure region fail.
- Fail over automatically.
- Minimize I/O latency.

The auto-failover groups feature allows you to manage the replication and failover of a group of databases on a server or all databases in a managed instance to another region. It is a declarative abstraction on top of the existing active geo-replication feature, designed to simplify deployment and management of geo-replicated databases at scale. You can initiate a geo-failover manually or you can delegate it to the Azure service based on a user-defined policy. The latter option allows you to automatically recover multiple related databases in a secondary region after a catastrophic failure or other unplanned event that results in full or partial loss of the SQL Database or SQL Managed Instance availability in the primary region.
Box 2: Business critical
SQL Managed Instance is available in two service tiers:
General purpose: Designed for applications with typical performance and I/O latency requirements. Business critical: Designed for applications with low I/O latency requirements and minimal impact of
underlying maintenance operations on the workload.
Reference:
https://docs.microsoft.com/en-us/azure/azure-sql/database/auto-failover-group-overview https://docs.microsoft.com/en-us/azure/azure-sql/managed-instance/sql-managed-instance-paas-overview

NEW QUESTION 2
- (Exam Topic 1)
You need to ensure that users managing the production environment are registered for Azure MFA and must authenticate by using Azure MFA when they sign in to the Azure portal. The solution must meet the authentication and authorization requirements.
What should you do? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.



A. Mastered
B. Not Mastered

Answer: A

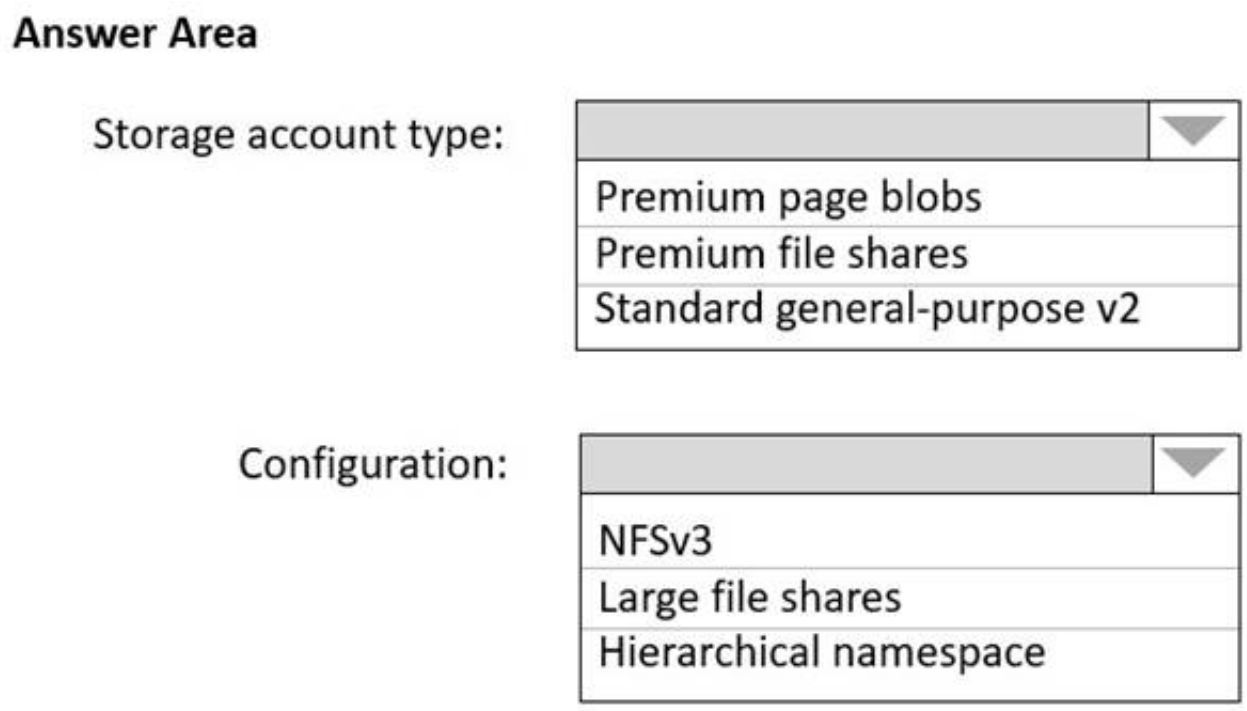
Explanation:
Graphical user interface, text, application Description automatically generated
Box 1: Azure AD Identity Protection
Azure AD Identity Protection helps you manage the roll-out of Azure AD Multi-Factor Authentication (MFA) registration by configuring a Conditional Access policy

to require MFA registration no matter what modern authentication app you are signing in to.
Scenario: Users that manage the production environment by using the Azure portal must connect from a hybrid Azure AD-joined device and authenticate by using Azure Multi-Factor Authentication (MFA).
Box 2: Sign-in risk policy...
Scenario: The Litware.com tenant has a conditional access policy named capolicy1. Capolicy1 requires that when users manage the Azure subscription for a production environment by using the Azure portal, they must connect from a hybrid Azure AD-joined device.
Identity Protection policies we have two risk policies that we can enable in our directory.

- Sign-in risk policy
- User risk policy

Reference:
https://docs.microsoft.com/en-us/azure/active-directory/identity-protection/howto-identity-protection-configure- https://docs.microsoft.com/en-us/azure/active-directory/identity-protection/howto-identity-protection-configure

NEW QUESTION 3
- (Exam Topic 1)
You plan to migrate App1 to Azure.
You need to recommend a storage solution for App1 that meets the security and compliance requirements. Which type of storage should you recommend, and how should you recommend configuring the storage? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.



A. Mastered
B. Not Mastered

Answer: A

Explanation:
Text, table Description automatically generated
Box 1: Standard general-purpose v2
Standard general-purpose v2 supports Blob Storage.
Azure Storage provides data protection for Blob Storage and Azure Data Lake Storage Gen2. Scenario:
Litware identifies the following security and compliance requirements:

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

Scenario: Plan: Migrate App1 to Azure virtual machines.
Blob storage now supports the Network File System (NFS) 3.0 protocol. This support provides Linux file system compatibility at object storage scale and prices and enables Linux clients to mount a container in Blob storage from an Azure Virtual Machine (VM) or a computer on-premises. Reference:
https://docs.microsoft.com/en-us/azure/storage/blobs/data-protection-overview

NEW QUESTION 4
- (Exam Topic 1)
You need to implement the Azure RBAC role assignments for the Network Contributor role. The solution must meet the authentication and authorization requirements.
What is the minimum number of assignments that you must use?

A. 1
B. 2
C. 5
D. 10
E. 15

Answer: A

Explanation:

Scenario: The Network Contributor built-in RBAC role must be used to grant permissions to the network administrators for all the virtual networks in all the Azure subscriptions.
RBAC roles must be applied at the highest level possible.

NEW QUESTION 5
- (Exam Topic 2)
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

Explanation:
https://docs.microsoft.com/en-us/azure/azure-sql/database/long-term-retention-overview
In Azure SQL Database, you can configure a database with a long-term backup retention policy (LTR) to automatically retain the database backups in separate Azure Blob storage containers for up to 10 years

NEW QUESTION 6
- (Exam Topic 3)
You need to recommend a solution that meets the data requirements for App1.
What should you recommend deploying to each availability zone that contains an instance of App1?

A. an Azure Cosmos DB that uses multi-region writes
B. an Azure Storage account that uses geo-zone-redundant storage (GZRS)
C. an Azure Data Lake store that uses geo-zone-redundant storage (GZRS)
D. an Azure SQL database that uses active geo-replication

Answer: A

NEW QUESTION 7
- (Exam Topic 3)
You need to recommend a solution to ensure that App1 can access the third-party credentials and access strings. The solution must meet the security requirements.
What should you include in the recommendation? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Authenticate App1 by using:
- A certificate
- A service principal
- A system-assigned managed identity
- A user-assigned managed identity

Authorize App1 to retrieve Key Vault secrets by using:
- An access policy
- A connected service
- A private link
- A role assignment

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Graphical user interface, text, application, table Description automatically generated
Scenario: Security Requirement
All secrets used by Azure services must be stored in Azure Key Vault.
Services that require credentials must have the credentials tied to the service instance. The credentials must NOT be shared between services.
Box 1: A service principal
A service principal is a type of security principal that identifies an application or service, which is to say, a piece of code rather than a user or group. A service principal's object ID is known as its client ID and acts like its username. The service principal's client secret acts like its password.
Note: Authentication with Key Vault works in conjunction with Azure Active Directory (Azure AD), which is responsible for authenticating the identity of any given security principal.
A security principal is an object that represents a user, group, service, or application that's requesting access to Azure resources. Azure assigns a unique object ID to every security principal.
Box 2: A role assignment
You can provide access to Key Vault keys, certificates, and secrets with an Azure role-based access control.
Reference:
https://docs.microsoft.com/en-us/azure/key-vault/general/authentication

NEW QUESTION 8
- (Exam Topic 3)
What should you recommend to meet the monitoring requirements for App2?

A. Microsoft Sentinel
B. Azure Application Insights
C. Container insights
D. VM insights

Answer: B

NEW QUESTION 9
- (Exam Topic 3)
What should you recommend lo meet the monitoring requirements for App2?

A. Azure Application Insights
B. Container insights
C. Microsoft Sentinel
D. VM insights

Answer: A

NEW QUESTION 10
- (Exam Topic 3)
You need to recommend an App Service architecture that meets the requirements for Appl. The solution must minimize costs.
What should few recommend?

A. one App Service Environment (ASE) per availability zone
B. one App Service plan per availability zone
C. one App Service plan per region
D. one App Service Environment (ASE) per region

Answer: D

NEW QUESTION 10
- (Exam Topic 3)
You need to recommend a solution that meets the data requirements for App1.
What should you recommend deploying to each availability zone that contains an instance of App1?

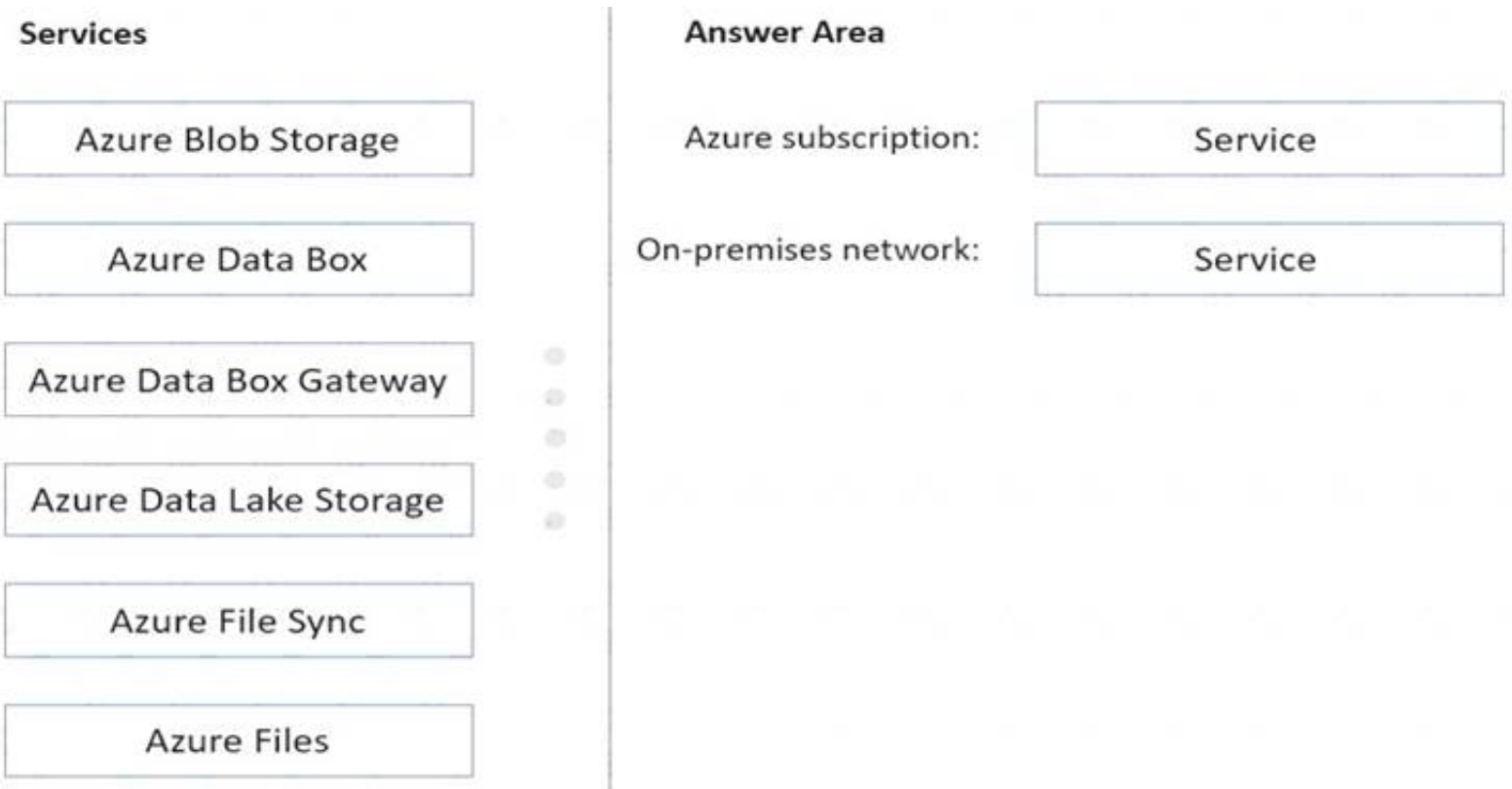
A. an Azure Cosmos DB that uses multi-region writes
B. an Azure Data Lake store that uses geo-zone-redundant storage (GZRS)
C. an Azure SQL database that uses active geo-replication
D. an Azure Storage account that uses geo-zone-redundant storage (GZRS)

Answer: A

Explanation:
Scenario: App1 has the following data requirements:
- Each instance will write data to a data store in the same availability zone as the instance.
- Data written by any App1 instance must be visible to all App1 instances.

Azure Cosmos DB: Each partition across all the regions is replicated. Each region contains all the data partitions of an Azure Cosmos container and can serve reads as well as serve writes when multi-region writes is enabled.
Reference:
https://docs.microsoft.com/en-us/azure/cosmos-db/high-availability

NEW QUESTION 12
- (Exam Topic 3)
You need to recommend a solution that meets the file storage requirements for App2.
What should you deploy to the Azure subscription and the on-premises network? To answer, drag the appropriate services to the correct locations. 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.



A. Mastered
B. Not Mastered

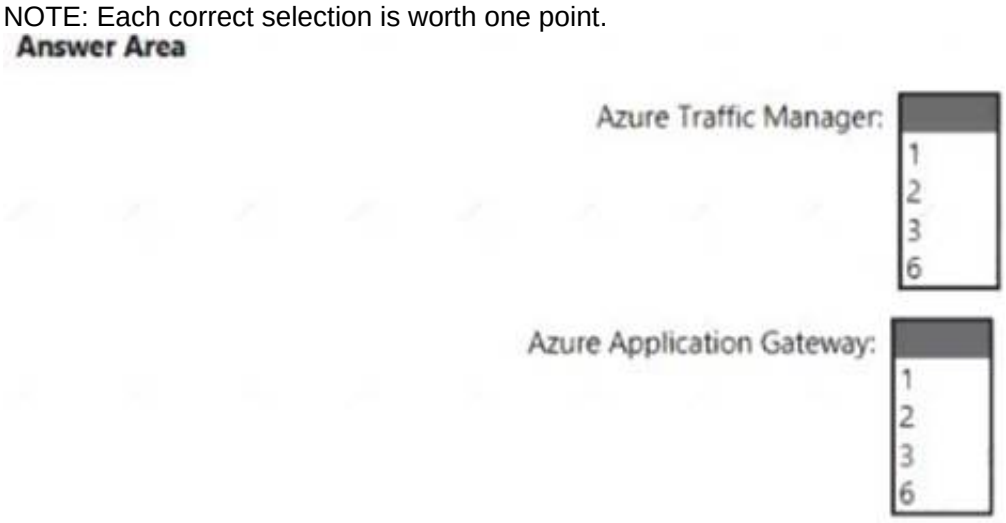
Answer: A

Explanation:
Graphical user interface, application Description automatically generated
Box 1: Azure Files
Scenario: App2 has the following file storage requirements:

- Save files to an Azure Storage account.
- Replicate files to an on-premises location.
- Ensure that on-premises clients can read the files over the LAN by using the SMB protocol.

Box 2: Azure File Sync
Use Azure File Sync to centralize your organization's file shares in Azure Files, while keeping the flexibility, performance, and compatibility of an on-premises file server. Azure File Sync transforms Windows Server into a quick cache of your Azure file share. You can use any protocol that's available on Windows Server to access your data locally, including SMB, NFS, and FTPS. You can have as many caches as you need across the world.
Reference:
https://docs.microsoft.com/en-us/azure/storage/file-sync/file-sync-deployment-guide

NEW QUESTION 17
- (Exam Topic 3)
You are evaluating whether to use Azure Traffic Manager and Azure Application Gateway to meet the connection requirements for App1.
What is the minimum numbers of instances required for each service? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

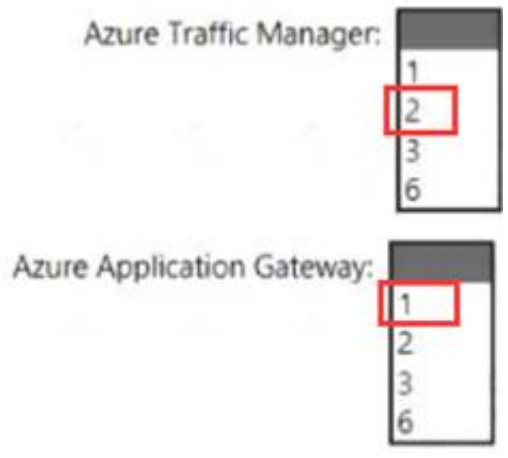


A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area



NEW QUESTION 18
- (Exam Topic 4)
A company is planning on deploying an application onto Azure. The application will be based on the .Net core programming language. The application would be hosted using Azure Web apps. Below is part of the various requirements for the application
Give the ability to correlate Azure resource usage and the performance data with the actual application configuration and performance data
Give the ability to visualize the relationships between application components
Give the ability to track requests and exceptions to specific lines of code from within the application Give the ability to actually analyse how uses return to an application and see how often they only select a particular drop-down value
Which of the following service would be best suited for fulfilling the requirement of
"Give the ability to correlate Azure resource usage and the performance data with the actual application configuration and performance data"

A. Azure Application Insights
B. Azure Service Map
C. Azure Log Analytics
D. Azure Activity Log

Answer: C

NEW QUESTION 23
- (Exam Topic 4)
A company has an on-premises file server cbflserver that runs Windows Server 2019. Windows Admin Center manages this server. The company owns an Azure subscription. You need to provide an Azure solution to prevent data loss if the file server fails.
Solution: You decide to register Windows Admin Center in Azure and then configure Azure Backup. Would this meet the requirement?

A. Yes
B. No

Answer: A

NEW QUESTION 27
- (Exam Topic 5)
You need to design a solution that will execute custom C# code in response to an event routed to Azure Event Grid. The solution must meet the following requirements:
- The executed code must be able to access the private IP address of a Microsoft SQL Server instance that runs on an Azure virtual machine.

Costs must be minimized.
What should you include in the solution?

A. Azure Logic Apps in the integrated service environment
B. Azure Functions in the Dedicated plan and the Basic Azure App Service plan
C. Azure Logic Apps in the Consumption plan
D. Azure Functions in the Consumption plan

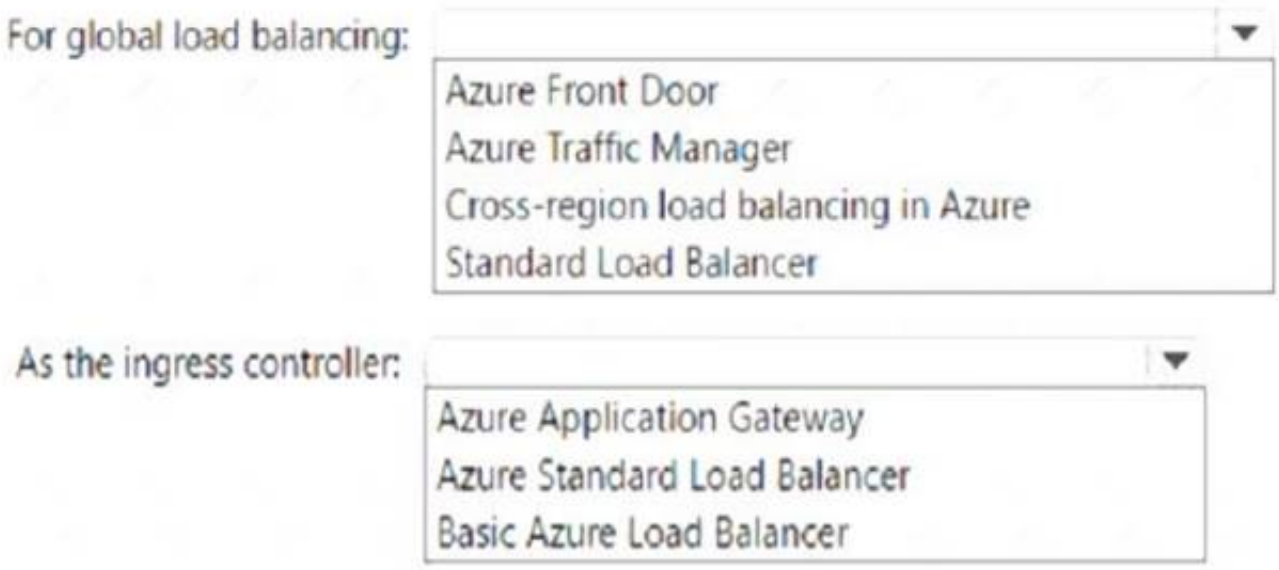
Answer: D

Explanation:
When you create a function app in Azure, you must choose a hosting plan for your app. There are three basic hosting plans available for Azure Functions: Consumption plan, Premium plan, and Dedicated (App Service) plan.
For the Consumption plan, you don't have to pay for idle VMs or reserve capacity in advance. Connect to private endpoints with Azure Functions
As enterprises continue to adopt serverless (and Platform-as-a-Service, or PaaS) solutions, they often need a way to integrate with existing resources on a virtual network. These existing resources could be databases, file storage, message queues or event streams, or REST APIs.
Reference:
https://docs.microsoft.com/en-us/azure/azure-functions/functions-scale https://techcommunity.microsoft.com/t5/azure-functions/connect-to-private-endpoints-with-azure-functions/ba-p

NEW QUESTION 32
- (Exam Topic 5)
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.

Answer Area

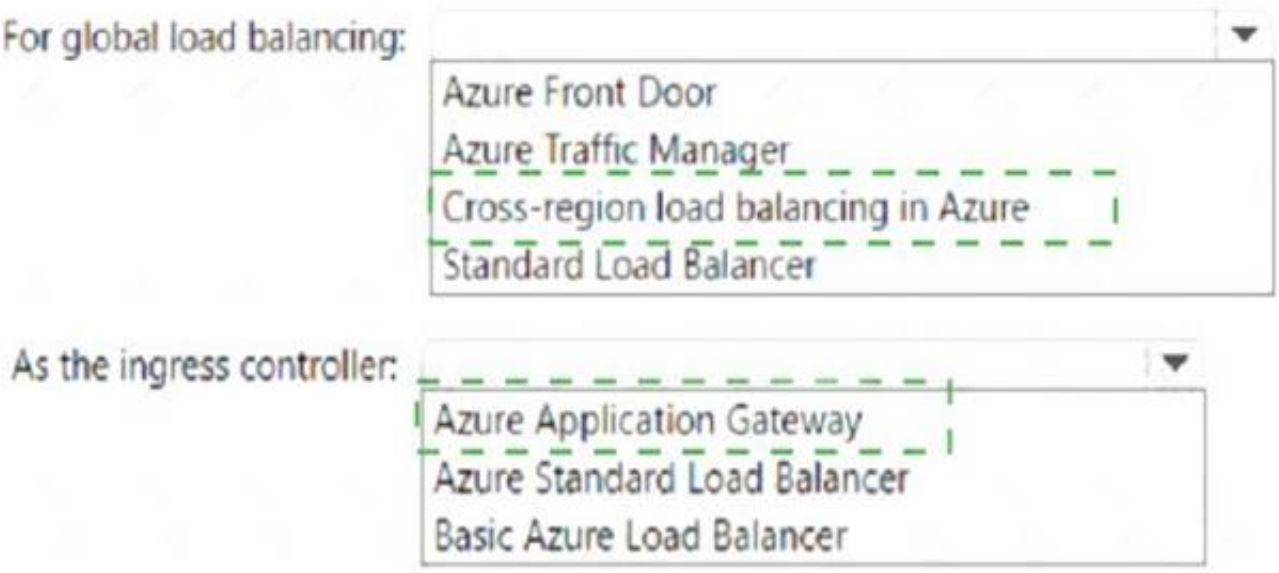


A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area



NEW QUESTION 36
- (Exam Topic 5)
You plan to deploy an application named App1 that will run in containers on Azure Kubernetes Service (AKS) clusters. The AKS clusters will be distributed across four Azure regions.
You need to recommend a storage solution to ensure that updated container images are replicated automatically to all the Azure regions hosting the AKS clusters.
Which storage solution should you recommend?

A. Azure Cache for Redis
B. Premium SKU Azure Container Registry
C. Azure Content Delivery Network (CON)
D. geo-redundant storage (GRS) accounts

Answer: B

NEW QUESTION 40
- (Exam Topic 5)
You have an Azure subscription. The subscription contains an Azure SQL managed instance that stores employee details, including social security numbers and phone numbers.
You need to configure the managed instance to meet the following requirements:
• The helpdesk team must see only the last four digits of an employee's phone number.
• Cloud administrators must be prevented from seeing the employee’s social security numbers.
What should you enable tor each column in the managed instance? To answer select the appropriate options in the answer area.
NOTE; Each correct selection is worth one point

A. Mastered
B. Not Mastered

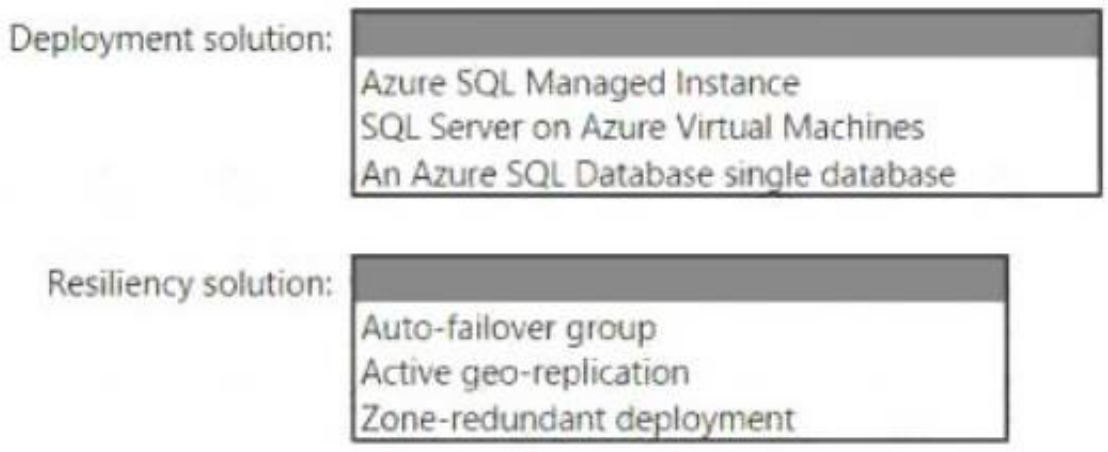
Answer: A

Explanation:

NEW QUESTION 45
- (Exam Topic 5)
You plan to migrate on-premises Microsoft SQL Server databases to Azure.
You need to recommend a deployment and resiliency solution that meets the following requirements:

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

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



A. Mastered
B. Not Mastered

Answer: A

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

NEW QUESTION 48
- (Exam Topic 5)
You have an Azure subscription that contains a Basic Azure virtual WAN named Virtual/WAN1 and the virtual hubs shown in the following table.

Name	Azure region
Hub1	US East
Hub2	US West

You have an ExpressRoute circuit in the US East region.
You need to create an ExpressRoute association to VirtualWAN1. What should you do first?

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

Answer: A

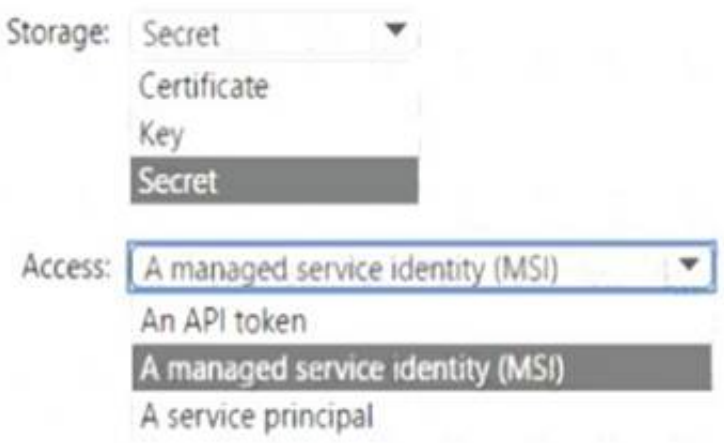
Explanation:
US East and US West are in the same geopolitical region so there is no need for enabling ExpressRoute premium add-on https://docs.microsoft.com/en-us/azure/virtual-wan/virtual-wan-about#basicstandard
The current config of virtual WAN is only Basic as given, so it can connect to only site to site VPN, to connect to express route it needs to be upgraded from basic to standard.
https://docs.microsoft.com/en-us/azure/virtual-wan/virtual-wan-about
https://docs.microsoft.com/en-us/azure/virtual-wan/virtual-wan-about

NEW QUESTION 51
- (Exam Topic 5)
You have an on-premises Microsoft SQL Server 2008 instance that hosts a 50-GB database.
You need to migrate the database to an Azure SQL managed instance. The solution must minimize downtime. What should you use?

A. Azure Migrate
B. WANdisco LiveData Platform for Azure
C. Azure Data Studio
D. SQL Server Management Studio (SSMS)

Answer: C

NEW QUESTION 56
- (Exam Topic 5)
You are designing an app that will be hosted on Azure virtual machines that run Ubuntu. The app will use a third-party email service to send email messages to users. The third-party email service requires that the app authenticate by using an API key.
You need to recommend an Azure Key Vault solution for storing and accessing the API key. The solution must minimize administrative effort.
What should you recommend using to store and access the key? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.
Answer Area

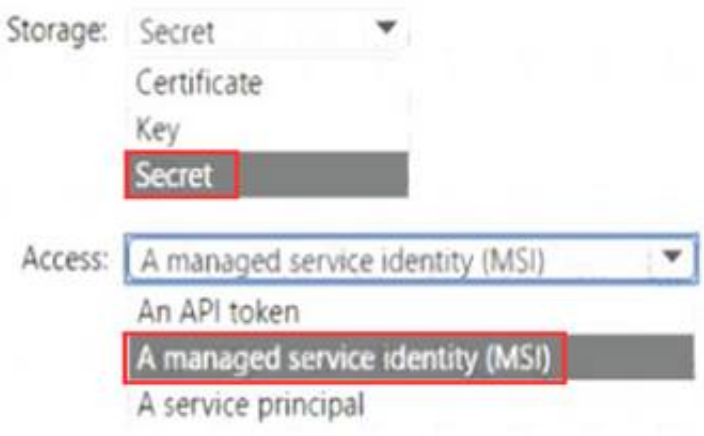


A. Mastered
B. Not Mastered

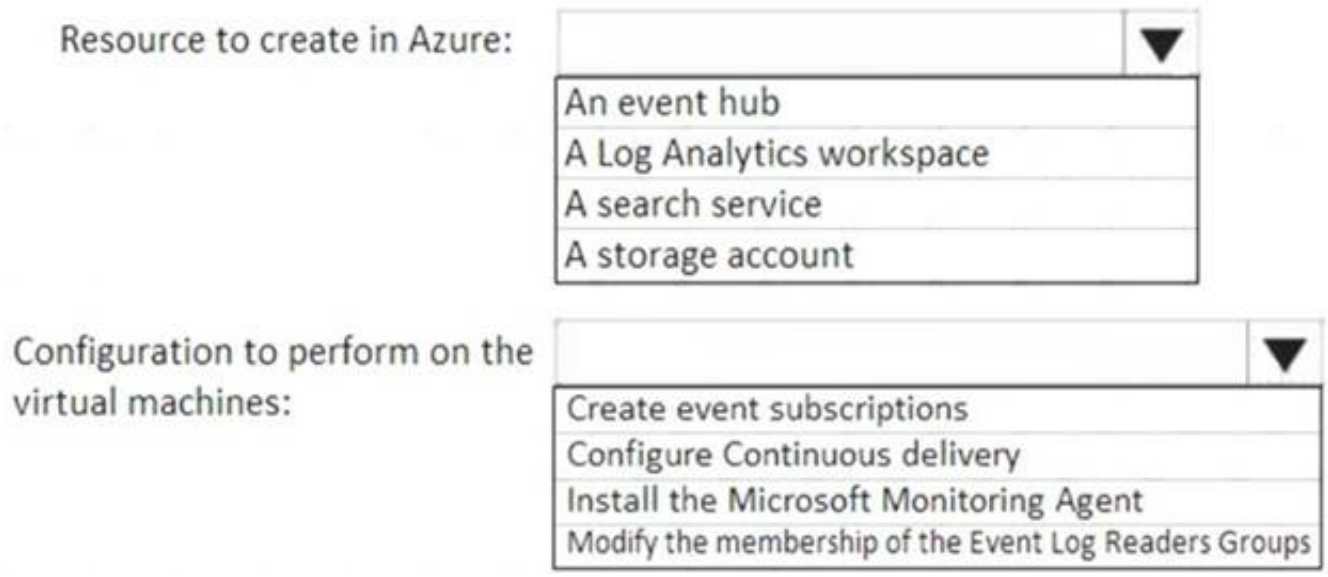
Answer: A

Explanation:

Answer Area



NEW QUESTION 57
- (Exam Topic 5)
You have an Azure subscription that contains 300 Azure virtual machines that run Windows Server 2016. You need to centrally monitor all warning events in the System logs of the virtual machines.
What should you include in the solutions? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.



A. Mastered
B. Not Mastered

Answer: A

Explanation:
Graphical user interface, text, application, email Description automatically generated
References:
https://docs.microsoft.com/en-us/azure/azure-monitor/platform/data-sources-windows-events https://docs.microsoft.com/en-us/azure/azure-monitor/platform/agent-windows

NEW QUESTION 60
- (Exam Topic 5)
You have an Azure subscription that contains the resources shown in the following table.

Name	Type	Description
VNet1	Virtual network	*None*
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
B. Azure Front Door
C. Azure Application Gateway
D. Azure Traffic Manager

Answer: B

NEW QUESTION 65
- (Exam Topic 5)
Your company has offices in the United States, Europe, Asia, and Australia.
You have an on-premises app named App1 that uses Azure Table storage. Each office hosts a local instance of App1.
You need to upgrade the storage for App1. The solution must meet the following requirements:
- Enable simultaneous write operations in multiple Azure regions.
- Ensure that write latency is less than 10 ms.
- Support indexing on all columns.
- Minimize development effort. Which data platform should you use?

A. Azure SQL Database
B. Azure SQL Managed Instance
C. Azure Cosmos DB
D. Table storage that uses geo-zone-redundant storage (GZRS) replication

Answer: D

Explanation:
Azure Cosmos DB Table API has
- Single-digit millisecond latency for reads and writes, backed with <10-ms latency reads and <15-ms latency writes at the 99th percentile, at any scale, anywhere in the world.
- Automatic and complete indexing on all properties, no index management.
- Turnkey global distribution from one to 30+ regions. Support for automatic and manual failovers at any time, anywhere in the world. Reference:
https://docs.microsoft.com/en-us/azure/cosmos-db/table-support

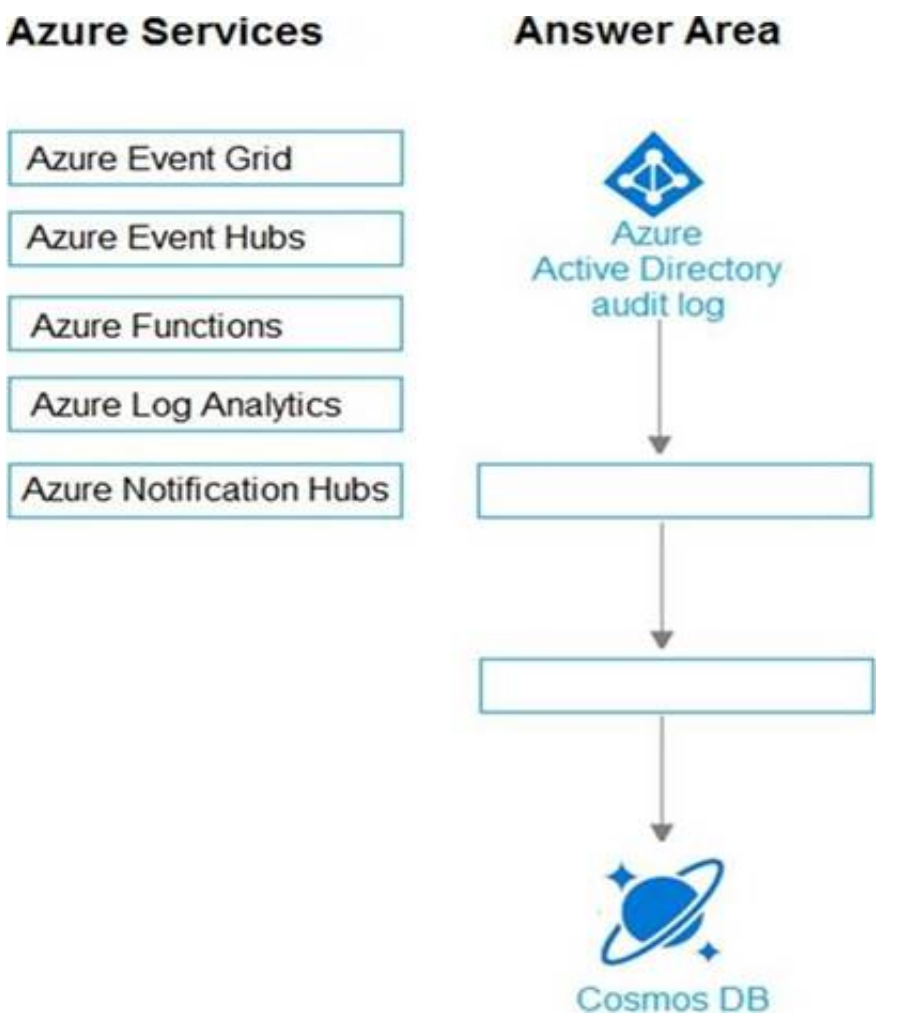
NEW QUESTION 68
- (Exam Topic 5)
You have an Azure subscription.
You need to recommend an Azure Kubernetes service (AKS) solution that will use Linux nodes. The solution must meet the following requirements:
• Minimize the time it takes to provision compute resources during scale-out operations.
• Support autoscaling of Linux containers.
• Minimize administrative effort.
Which scaling option should you recommend?

A. Virtual Kubetet
B. cluster autoscaler
C. virtual nodes
D. horizontal pod autoscaler

Answer: B

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

NEW QUESTION 73
- (Exam Topic 5)
You need to design an architecture to capture the creation of users and the assignment of roles. The captured data must be stored in Azure Cosmos DB.
Which Azure services should you include in the design? To answer, drag the appropriate services to the correct targets. Each service may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.
NOTE: Each correct selection is worth one point.



A. Mastered
B. Not Mastered

Answer: A

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

NEW QUESTION 77
- (Exam Topic 5)
You plan to deploy multiple instances of an Azure web app across several Azure regions.
You need to design an access solution for the app. The solution must meet the following replication requirements:
• Support rate limiting.
• Balance requests between all instances.
• Ensure that users can access the app in the event of a regional outage. Solution: You use Azure Front Door to provide access to the app. Does this meet the goal?

A. Yes
B. No

Answer: A

NEW QUESTION 82
- (Exam Topic 5)
You have a .NET web service named Service! 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 Functions app
B. an App Service Environment (ASE)
C. an Azure virtual machine scale set
D. an Azure App Service web app

Answer: C

NEW QUESTION 87
- (Exam Topic 5)
You have an application named App1. App1 generates log files that must be archived for five years. The log files must be readable by App1 but must not be modified.
Which storage solution should you recommend for archiving?

A. Ingest the log files into an Azure Log Analytics workspace
B. Use an Azure Blob storage account and a time-based retention policy
C. Use an Azure Blob storage account configured to use the Archive access tier
D. Use an Azure file share that has access control enabled

Answer: B

Explanation:
Immutable storage for Azure Blob storage enables users to store business-critical data objects in a WORM (Write Once, Read Many) state.
Immutable storage supports:
Time-based retention policy support: Users can set policies to store data for a specified interval. When a time-based retention policy is set, blobs can be created and read, but not modified or deleted. After the retention period has expired, blobs can be deleted but not overwritten.
Reference:
https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-immutable-storage

NEW QUESTION 89
- (Exam Topic 5)
You need to recommend a solution for the App1 maintenance task. The solution must minimize costs. What should you include in the recommendation?

A. an Azure logic app
B. an Azure function
C. an Azure virtual machine
D. an App Service WebJob

Answer: C

Explanation:
https://learn.microsoft.com/en-us/azure/azure-functions/functions-reference-powershell?tabs=portal https://learn.microsoft.com/en-us/azure/azure-functions/functions-create-scheduled-function#create-a-timer-trig

NEW QUESTION 90
- (Exam Topic 5)
You plan to import data from your on-premises environment to Azure. The data Is shown in the following table.

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

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

Tools

AzCopy
Azure Cosmos DB Data Migration Tool
Data Management Gateway
Data Migration Assistant

Answer Area

From the SQL Server 2012 database: Tool
From the table in the SQL Server 2014 database: Tool

A. Mastered
B. Not Mastered

Answer: A

Explanation:
References:
https://docs.microsoft.com/en-us/azure/dms/tutorial-sql-server-to-azure-sql https://docs.microsoft.com/en-us/azure/cosmos-db/import-data

NEW QUESTION 95
- (Exam Topic 5)
You have an Azure virtual machine named VM1 that runs Windows Server 2019 and contains 500 GB of data files.
You are designing a solution that will use Azure Data Factory to transform the data files, and then load the files to Azure Data Lake Storage
What should you deploy on VM1 to support the design?

A. the self-hosted integration runtime
B. the Azure Pipelines agent
C. the On-premises data gateway
D. the Azure File Sync agent

Answer: A

NEW QUESTION 97
- (Exam Topic 5)
You have an Azure subscription that contains a Basic Azure virtual WAN named Virtual/WAN1 and the virtual hubs shown in the following table.

Name	Azure region
Hub1	US East
Hub2	US West

You have an ExpressRoute circuit in the US East region.
You need to create an ExpressRoute association to VirtualWAN1. What should you do first?

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

Answer: A

Explanation:
US East and US West are in the same geopolitical region so there is no need for enabling ExpressRoute premium add-on https://docs.microsoft.com/en-us/azure/virtual-wan/virtual-wan-about#basicstandard
The current config of virtual WAN is only Basic as given, so it can connect to only site to site VPN, to connect to express route it needs to be upgraded from basic to standard.
https://docs.microsoft.com/en-us/azure/virtual-wan/virtual-wan-about
https://docs.microsoft.com/en-us/azure/virtual-wan/virtual-wan-about

NEW QUESTION 101
- (Exam Topic 5)
You have to deploy an Azure SQL database named db1 for your company. The databases must meet the following security requirements
When IT help desk supervisors query a database table named customers, they must be able to see the full number of each credit card
When IT help desk operators query a database table named customers, they must only see the last four digits of each credit card number
A column named Credit Card rating in the customers table must never appear in plain text in the database system. Only client applications must be able to decrypt the information that is stored in this column
Which of the following can be implemented for the Credit Card rating column security requirement?

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

Answer: A

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

NEW QUESTION 102
- (Exam Topic 5)
You have an Azure AD tenant that contains a management group named MG1. You have the Azure subscriptions shown in the following table.

Name	Management group
Sub1	MG1
Sub2	MG1
Sub3	Tenant Root Group

The subscriptions contain the resource groups shown in the following table.

Name	Subscription
RG1	Sub1
RG2	Sub2
RG3	Sub3

The subscription contains the Azure AD security groups shown in the following table.

Name	Member of
Group1	Group3
Group2	Group3
Group3	*None*

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

Name	Member of
User1	Group1
User2	Group2
User3	Group1, Group2

You perform the following actions:
• Assign User3 the Contributor role for Sub1.
• Assign Group1 the Virtual Machine Contributor role for MG1.
• Assign Group3 the Contributor role for the Tenant Root Group.
For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.
Answer Area

Statements	Yes	No
User1 can create a new virtual machine in RG1.	○	○
User2 can grant permissions to Group2.	○	○
User3 can create a storage account in RG2.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Answer Area

Statements	Yes	No
User1 can create a new virtual machine in RG1.	○	○
User2 can grant permissions to Group2.	○	○
User3 can create a storage account in RG2.	○	○

NEW QUESTION 105
- (Exam Topic 5)
You have an on-premises Microsoft SQL Server database named SQL1. You plan to migrate SQL 1 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).
Answer Area

Azure service or service tier:
- Azure SQL Database
- Azure SQL Managed Instance
- The Hyperscale service tier

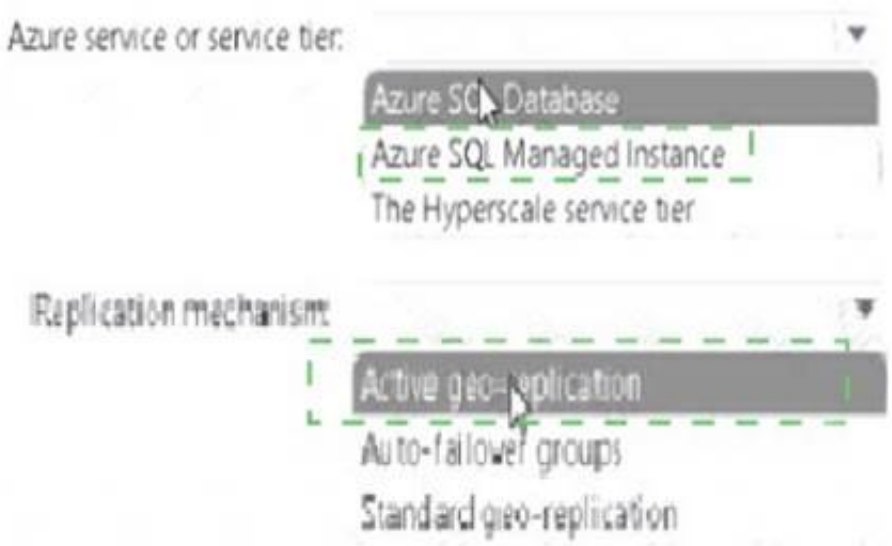
Replication mechanism:
- Active geo-replication
- Auto-failover groups
- Standard geo-replication

A. Mastered
B. Not Mastered

Answer: A

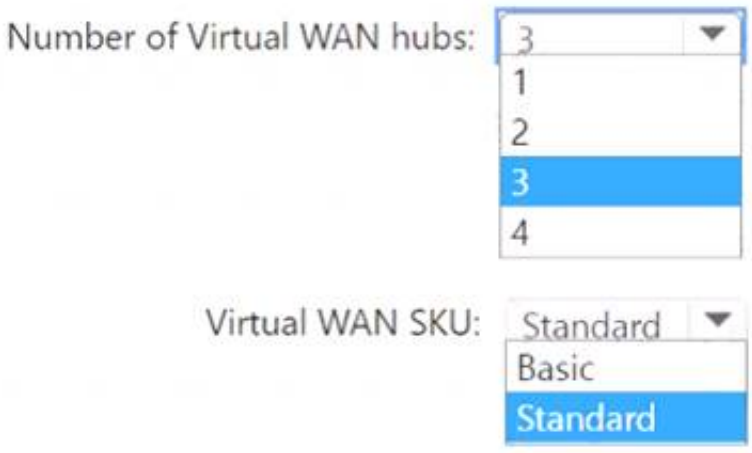
Explanation:

Answer Area



NEW QUESTION 108
- (Exam Topic 5)
Your company has offices in New York City, Sydney, Paris, and Johannesburg. The company has an Azure subscription.
You plan to deploy a new Azure networking solution that meets the following requirements:
• Connects to ExpressRoute circuits in the Azure regions of East US, Southeast Asia, North Europe, and South Africa
• Minimizes latency by supporting connections in three regions
• Supports Site-to-Site VPN connections
• Minimizes costs
You need to identify the minimum number of Azure Virtual WAN hubs that you must deploy, and which virtual WAN SKU to use. What should you identify? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Answer Area

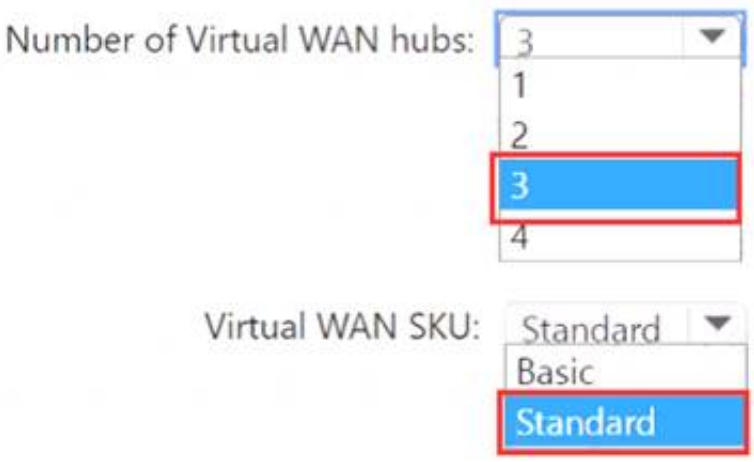


A. Mastered
B. Not Mastered

Answer: A

Explanation:

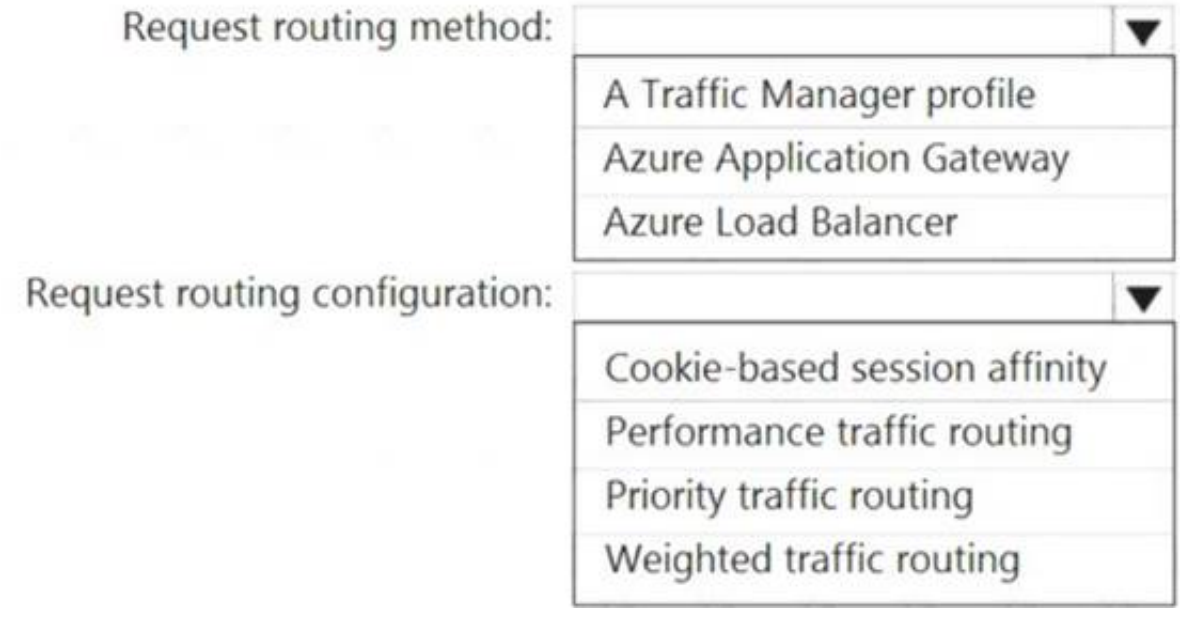
Answer Area



NEW QUESTION 110
- (Exam Topic 5)
You are designing an Azure web app.
You plan to deploy the web app to the North Europe Azure region and the West Europe Azure region. You need to recommend a solution for the web app. The solution must meet the following requirements:
- Users must always access the web app from the North Europe region, unless the region fails.
- The web app must be available to users if an Azure region is unavailable.

- Deployment costs must be minimized.

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



A. Mastered
B. Not Mastered

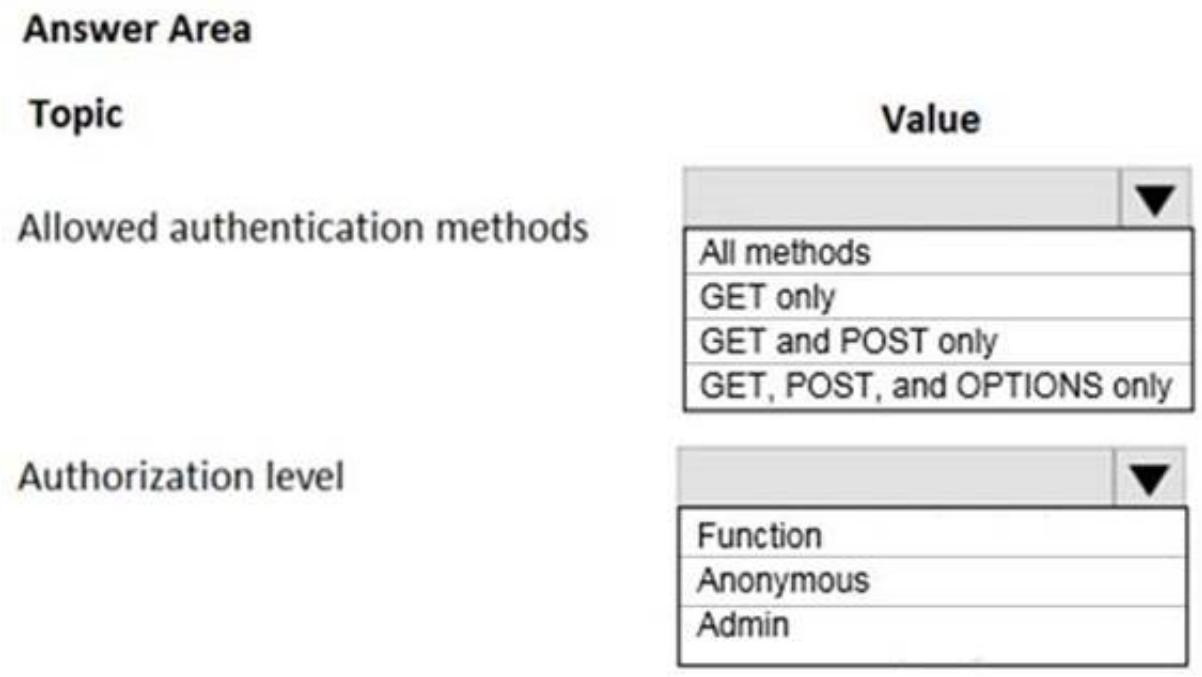
Answer: A

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

NEW QUESTION 111
- (Exam Topic 5)
A company plans to implement an HTTP-based API to support a web app. The web app allows customers to check the status of their orders.
The API must meet the following requirements:

- Implement Azure Functions
- Provide public read-only operations
- Do not allow write operations

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



A. Mastered
B. Not Mastered

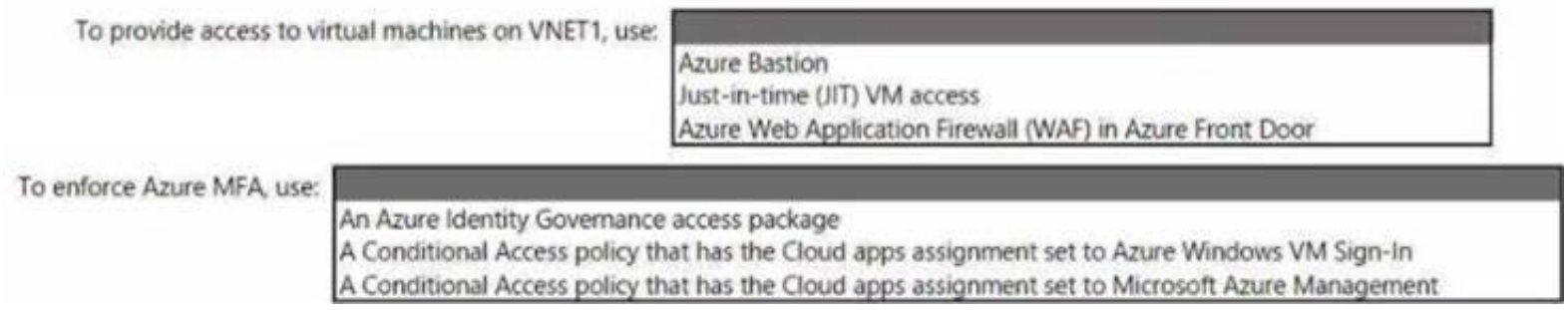
Answer: A

Explanation:
Graphical user interface, table Description automatically generated
Allowed authentication methods: GET only Authorization level: Anonymous
The option is Allow Anonymous requests. This option turns on authentication and authorization in App Service, but defers authorization decisions to your application code. For authenticated requests, App Service also passes along authentication information in the HTTP headers.
This option provides more flexibility in handling anonymous requests. References:
https://docs.microsoft.com/en-us/azure/app-service/overview-authentication-authorization

NEW QUESTION 115
- (Exam Topic 5)
You have an Azure subscription that contains a virtual network named VNET1 and 10 virtual machines. The virtual machines are connected to VNET1.

You need to design a solution to manage the virtual machines from the internet. The solution must meet the following requirements:
• Incoming connections to the virtual machines must be authenticated by using Azure Multi-Factor Authentication (MFA) before network connectivity is allowed.
• Incoming connections must use TLS and connect to TCP port 443.
• The solution must support RDP and SSH.
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.

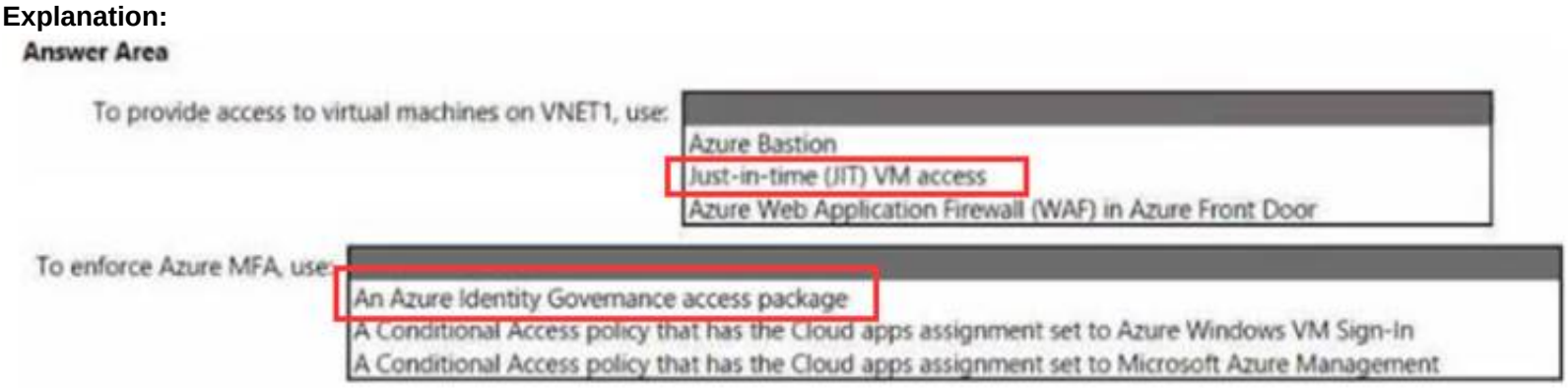
Answer Area



A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 118
- (Exam Topic 5)
You have an on-premises line-of-business (LOB) application that uses a Microsoft SQL Server instance as the backend.
You plan to migrate the on-premises SQL Server instance to Azure virtual machines.
You need to recommend a highly available SQL Server deployment that meets the following requirements:
• Minimizes costs
• Minimizes failover time if a single server fails What should you include in the recommendation?

A. an Always On availability group that has premium storage disks and a distributed network name (DNN)
B. an Always On Failover Cluster Instance that has a virtual network name (VNN) and a premium file share
C. an Always On Failover Cluster Instance that has a virtual network name (VNN) and a standard file share
D. an Always On availability group that has premium storage disks and a virtual network name (VNN)

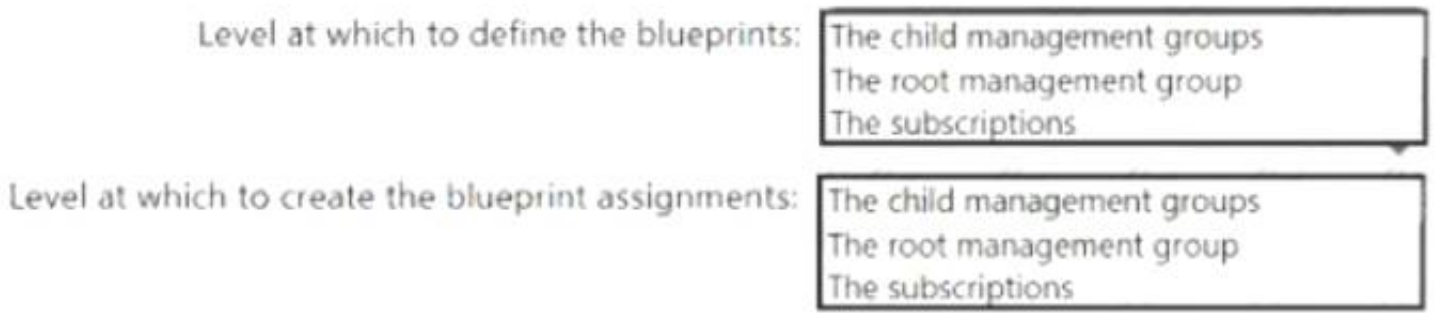
Answer: A

NEW QUESTION 121
- (Exam Topic 5)
You are designing an app that will include two components. The components will communicate by sending messages via a queue. You need to recommend a solution to process the messages by using a First in. First out (FIFO) pattern. What should you include in the recommendation?

A. storage queues with a custom metadata setting
B. Azure Service Bus queues with sessions enabled
C. Azure Service Bus queues with partitioning enabled
D. storage queues with a stored access policy

Answer: B

NEW QUESTION 124
- (Exam Topic 5)
You plan to create an Azure environment that will contain a root management group and 10 child management groups. Each child management group will contain five Azure subscriptions. You plan to have between 10 and 30 resource groups in each subscription.
You need to design an Azure governance solution. The solution must meet the following requirements:
• Use Azure Blueprints to control governance across all the subscriptions and resource groups.
• Ensure that Blueprints-based configurations are consistent across all the subscriptions and resource groups.
• Minimize the number of blueprint definitions and assignments.
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.



A. Mastered
B. Not Mastered

Answer: A

Explanation:
* 1. Root management group
* 2. The subscriptions
Reference: https://docs.microsoft.com/en-us/azure/governance/blueprints/create-blueprint-portal Assign a blueprint After a blueprint has been published, it can be assigned to a subscription. Assign the
blueprint that you created to one of the subscriptions under your management group hierarchy. If the blueprint is saved to a subscription, it can only be assigned to that subscription.

NEW QUESTION 126
- (Exam Topic 5)
Your company plans to deploy various Azure App Service instances that will use Azure SQL databases. The App Service instances will be deployed at the same time as the Azure SQL databases.
The company has a regulatory requirement to deploy the App Service instances only to specific Azure regions. The resources for the App Service instances must reside in the same region.
You need to recommend a solution to meet the regulatory requirement.
Solution: You recommend using the Regulatory compliance dashboard in Microsoft Defender for Cloud. Does this meet the goal?

A. Yes
B. No

Answer: B

NEW QUESTION 131
- (Exam Topic 5)
You have an Azure subscription. The subscription contains an app that is hosted in the East US, Central Europe, and East Asia regions.
You need to recommend a data-tier solution for the app. The solution must meet the following requirements: Support multiple consistency levels.
Be able to store at least 1 TB of data.
Be able to perform read and write operations in the Azure region that is local to the app instance. What should you include in the recommendation?

A. an Azure Cosmos DB database
B. a Microsoft SQL Server Always On availability group on Azure virtual machines
C. an Azure SQL database in an elastic pool
D. Azure Table storage that uses geo-redundant storage (GRS) replication

Answer: A

Explanation:
Azure Cosmos DB approaches data consistency as a spectrum of choices. This approach includes more options than the two extremes of strong and eventual consistency. You can choose from five well-defined
levels on the consistency spectrum.
With Cosmos DB any write into any region must be replicated and committed to all configured regions within the account.
Reference:
https://docs.microsoft.com/en-us/azure/cosmos-db/consistency-levels-tradeoffs

NEW QUESTION 134
- (Exam Topic 5)
You have an Azure subscription.
You need to recommend a solution to provide developers with the ability to provision Azure virtual machines. The solution must meet the following requirements:
• Only allow the creation of the virtual machines in specific regions.
• Only allow the creation of specific sizes of virtual machines. What should you include in the recommendation?

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

Answer: B

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

NEW QUESTION 138
- (Exam Topic 5)
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

A. Mastered
B. Not Mastered

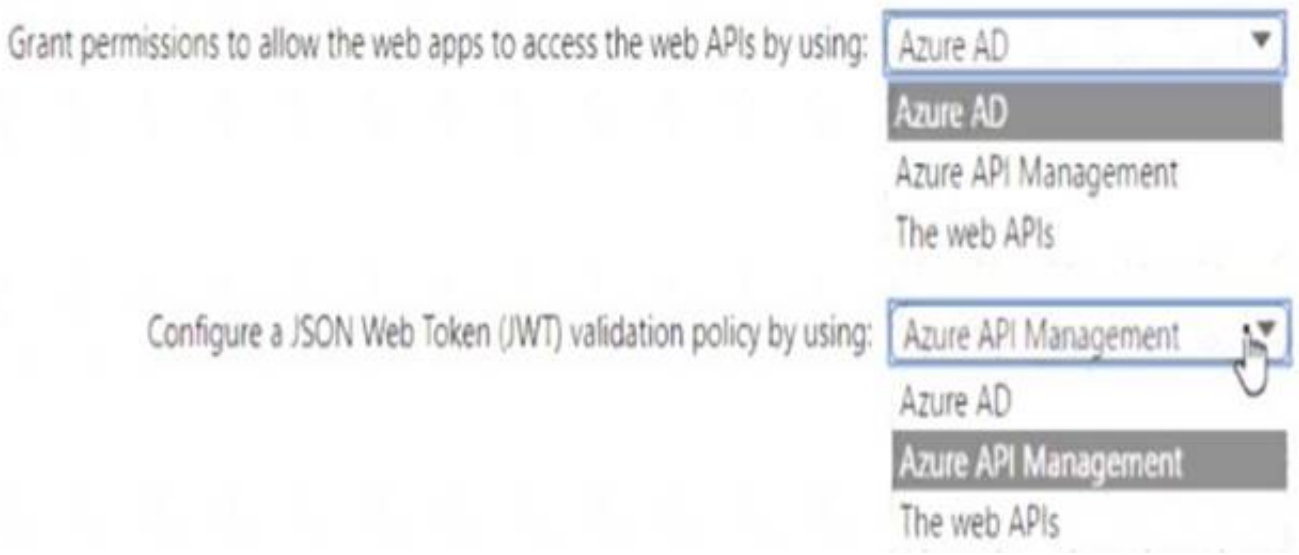
Answer: A

Explanation:

Answer Area

NEW QUESTION 142
- (Exam Topic 5)
Your company has 20 web APIs that were developed in-house.
The company is developing 10 web apps that will use the web APIs. The web apps and the APIs are registered in the company s Azure AD tenant. The web APIs are published by using Azure API Management.
You need to recommend a solution to block unauthorized requests originating from the web apps from reaching the web APIs. The solution must meet the following requirements:
• Use Azure AD-generated claims.
• Minimize configuration and management effort
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.
NOTE: Each correct selection is worth one point.

Answer Area



A. Mastered

B. Not Mastered

Answer: A

Explanation:
Graphical user interface, text Description automatically generated with medium confidence

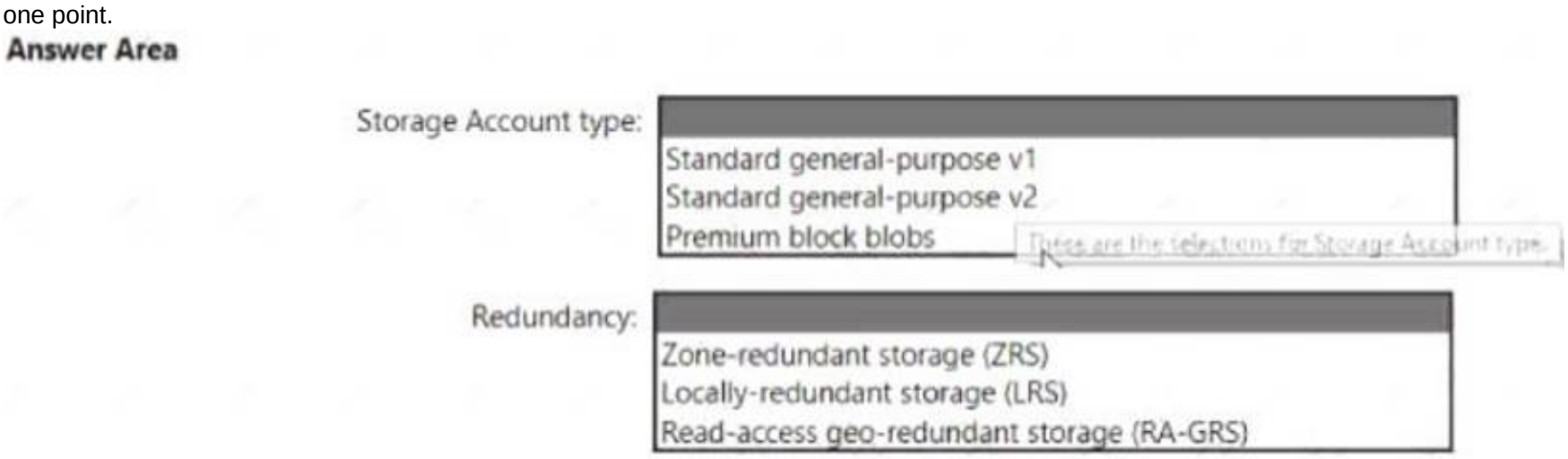
NEW QUESTION 144
- (Exam Topic 5)
Your company identifies the following business continuity and disaster recovery objectives for virtual machines that host sales, finance, and reporting application in the company's on-premises data center.
•The finance application requires that data be retained for seven years. In the event of a disaster, the
application must be able to run from Azure. The recovery in objective (RTO) is 10 minutes,
• The reporting application must be able to recover point in-time data al a daily granularity. The RTO is eight hours.
•The sales application must be able to fail over to second on-premises data center.
You need to recommend which Azure services meet the business community 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 application. Each service may be used owe. More than once not at an You may need to drag the spin bar between panes or scroll 10 view content.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
1) Sales: Azure Site Recovery only
2) Finance: Azure Site Recovery and Azure Backup
3) Reporting: Azure Backup only

NEW QUESTION 148
- (Exam Topic 5)
You plan to develop a new app that will store business critical data. The app must meet the following requirements:
• Prevent new data from being modified for one year.
• Maximize data resiliency.
• Minimize read latency.
What storage solution should you recommend for the app? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

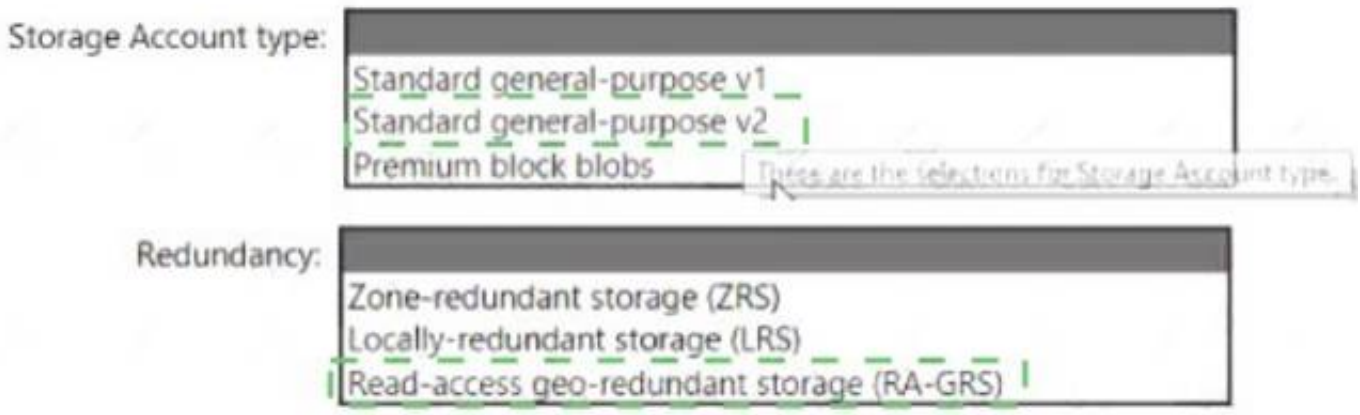


A. Mastered
B. Not Mastered

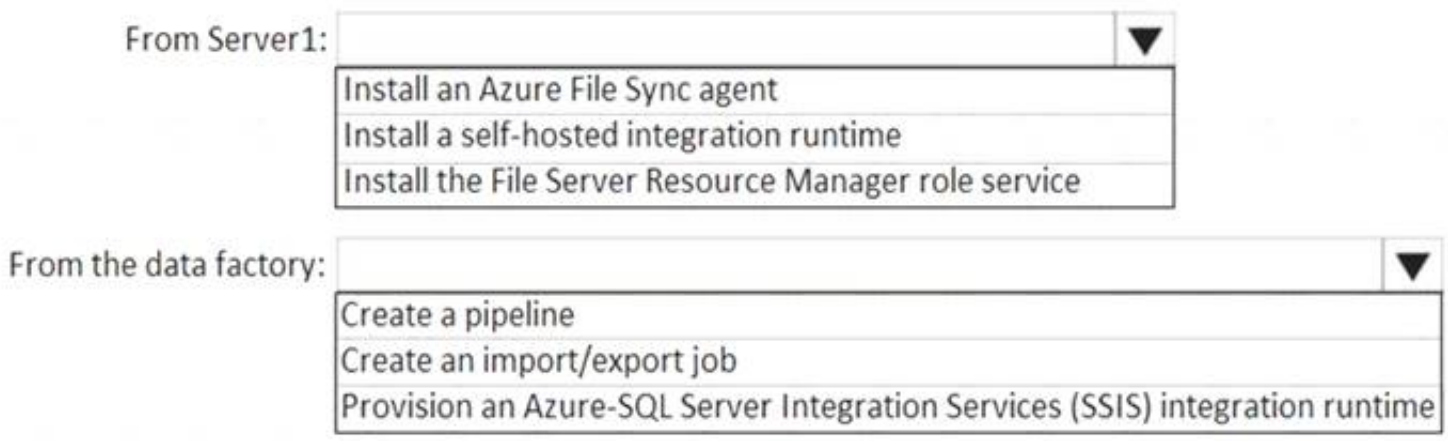
Answer: A

Explanation:

Answer Area



NEW QUESTION 150
- (Exam Topic 5)
Your on-premises network contains a file server named Server1 that stores 500 GB of data. You need to use Azure Data Factory to copy the data from Server1 to Azure Storage.
You add a new data factory.
What should you do next? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

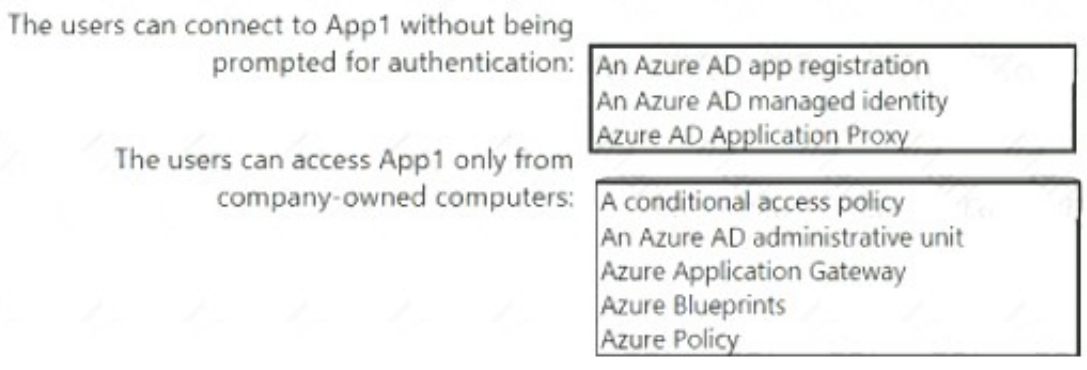


A. Mastered
B. Not Mastered

Answer: A

Explanation:
Graphical user interface, text, application, email Description automatically generated
Box 1: Install a self-hosted integration runtime
The Integration Runtime is a customer-managed data integration infrastructure used by Azure Data Factory to provide data integration capabilities across different network environments.
Box 2: Create a pipeline
With ADF, existing data processing services can be composed into data pipelines that are highly available and managed in the cloud. These data pipelines can be scheduled to ingest, prepare, transform, analyze, and publish data, and ADF manages and orchestrates the complex data and processing dependencies
References:
https://docs.microsoft.com/en-us/azure/machine-learning/team-data-science-process/move-sql-azure-adf

NEW QUESTION 154
- (Exam Topic 5)
You plan to deploy an Azure web app named Appl that will use Azure Active Directory (Azure AD) authentication.
App1 will be accessed from the internet by the users at your company. All the users have computers that run Windows 10 and are joined to Azure AD.
You need to recommend a solution to ensure that the users can connect to App1 without being prompted for authentication and can access App1 only from company-owned computers.
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.

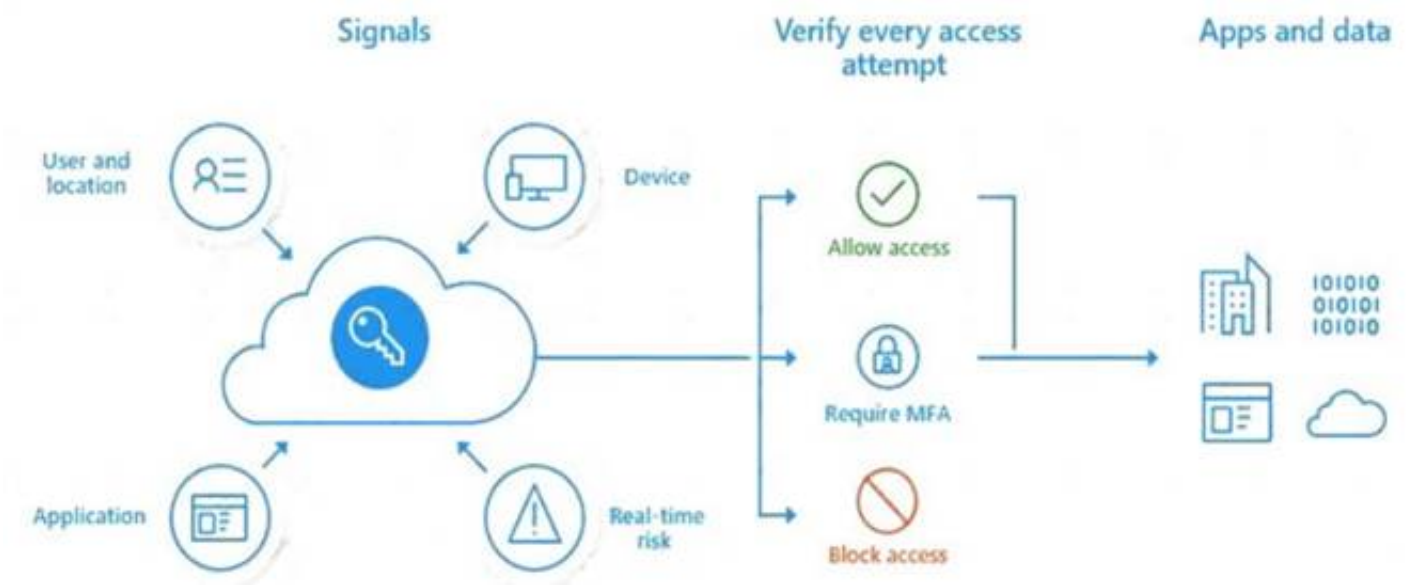


A. Mastered
B. Not Mastered

Answer: A

Explanation:
Graphical user interface, text, application, chat or text message Description automatically generated

Box 1: An Azure AD app registration
Azure active directory (AD) provides cloud based directory and identity management services.You can use azure AD to manage users of your application and authenticate access to your applications using azure active directory.
You register your application with Azure active directory tenant. Box 2: A conditional access policy
Conditional Access policies at their simplest are if-then statements, if a user wants to access a resource, then they must complete an action.
By using Conditional Access policies, you can apply the right access controls when needed to keep your organization secure and stay out of your user's way when not needed.
Timeline Description automatically generated



Reference:
https://codingcanvas.com/using-azure-active-directory-authentication-in-your-web-application/ https://docs.microsoft.com/en-us/azure/active-directory/conditional-access/overview https://docs.microsoft.com/en-us/powerapps/developer/data-platform/walkthrough-register-app-azure-active-dire "After consenting to use their Dataverse account with the ISV's application, end users can connect to
Dataverse environment from external application. The consent form is not displayed again to other users after the first user who has already consented to use the ISV's app. Apps registered in Azure Active Directory are multi-tenant, which implies that other Dataverse users from other tenant can connect to their environment using the ISV's app."

NEW QUESTION 155
- (Exam Topic 5)
You plan to automate the deployment of resources to Azure subscriptions.
What is a difference between using Azure Blueprints and Azure Resource Manager templates?

A. Azure Resource Manager templates remain connected to the deployed resources.
B. Only Azure Resource Manager templates can contain policy definitions.
C. Azure Blueprints remain connected to the deployed resources.
D. Only Azure Blueprints can contain policy definitions.

Answer: C

Explanation:
With Azure Blueprints, the relationship between the blueprint definition (what should be deployed) and the blueprint assignment (what was deployed) is preserved. This connection supports improved tracking and auditing of deployments. Azure Blueprints can also upgrade several subscriptions at once that are governed by the same blueprint.
Reference:
https://docs.microsoft.com/en-us/answers/questions/26851/how-is-azure-blue-prints-different-from-resource-m.h

NEW QUESTION 156
- (Exam Topic 5)
You ate designing a SQL database solution. The solution will include 20 databases that will be 20 GB each and have varying usage patterns. You need to recommend a database platform to host the databases. The solution must meet the following requirements:
• The compute resources allocated to the databases must scale dynamically.
• The solution must meet an SLA of 99.99% uptime.
• The solution must have reserved capacity.
• Compute charges must be minimized.
What should you include in the recommendation?

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

Answer: D

Explanation:
Azure SQL Database elastic pools are a simple, cost-effective solution for managing and scaling multiple databases that have varying and unpredictable usage demands. The databases in an elastic pool are on a single server and share a set number of resources at a set price. Elastic pools in Azure SQL Database enable SaaS developers to optimize the price performance for a group of databases within a prescribed budget while delivering performance elasticity for each database.
Guaranteed 99.995 percent uptime for SQL Database Reference:
https://docs.microsoft.com/en-us/azure/azure-sql/database/elastic-pool-overview https://azure.microsoft.com/en-us/pricing/details/sql-database/elastic/
https://www.azure.cn/en-us/support/sla/virtual-machines/
https://techcommunity.microsoft.com/t5/azure-sql/optimize-price-performance-with-compute-auto-scaling-in-az

NEW QUESTION 159
- (Exam Topic 5)

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 VM1VM1 runs Linux and contains a SQL Server 2019 instance.
You need to migrate DB1 to VMI. The solution must minimize downtime on DBI. What should you do? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

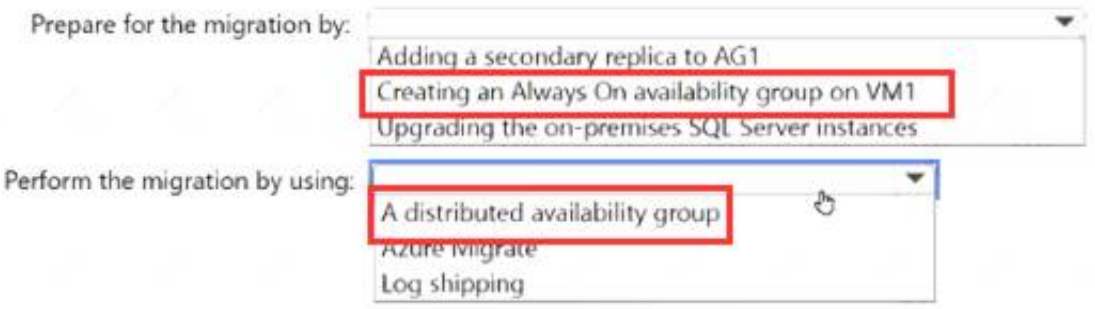
Answer Area

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area



NEW QUESTION 164
- (Exam Topic 5)
You have an app named App1 that uses two on-premises Microsoft SQL Server databases named DB1 and DB2.
You plan to migrate DB1 and DB2 to Azure.
You need to recommend an Azure solution to host DB1 and DB2. The solution must meet the following requirements:
• Support server-side transactions across DB1 and DB2.
• Minimize administrative effort to update the solution. What should you recommend?

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

Answer: D

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

NEW QUESTION 168
- (Exam Topic 5)
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.
After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.
Your company deploys several virtual machines on-premises and to Azure. ExpressRoute is being deployed and configured for on-premises to Azure connectivity.
Several virtual machines exhibit network connectivity issues.
You need to analyze the network traffic to identify whether packets are being allowed or denied to the virtual machines.
Solution: Use Azure Traffic Analytics in Azure Network Watcher to analyze the network traffic. Does this meet the goal?

A. Yes
B. No

Answer: B

Explanation:
Instead use Azure Network Watcher IP Flow Verify, which allows you to detect traffic filtering issues at a VM level.
Note: IP flow verify checks if a packet is allowed or denied to or from a virtual machine. The information consists of direction, protocol, local IP, remote IP, local port, and remote port. If the packet is denied by a security group, the name of the rule that denied the packet is returned. While any source or destination IP can be chosen, IP flow verify helps administrators quickly diagnose connectivity issues from or to the internet and from or to the on-premises environment.
Reference:
https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-ip-flow-verify-overview https://docs.microsoft.com/en-us/azure/network-watcher/traffic-analytics

NEW QUESTION 172
- (Exam Topic 5)
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.
After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.
Your company has deployed several virtual machines (VMs) on-premises and to Azure. Azure ExpressRoute has been deployed and configured for on-premises to Azure connectivity.
Several VMs are exhibiting network connectivity issues.
You need to analyze the network traffic to determine whether packets are being allowed or denied to the VMs. Solution: Use the Azure Traffic Analytics solution in Azure Log Analytics to analyze the network traffic. Does the solution meet the goal?

A. Yes
B. No

Answer: B

Explanation:
Instead use Azure Network Watcher to run IP flow verify to analyze the network traffic. Reference:
https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-monitoring-overview https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-ip-flow-verify-overview

NEW QUESTION 173
- (Exam Topic 5)
You plan to store data in Azure Blob storage for many years. The stored data will be accessed rarely.
You need to ensure that the data in Blob storage is always available for immediate access. The solution must minimize storage costs.
Which storage tier should you use?

A. Cool
B. Archive
C. Hot

Answer: A

Explanation:
Azure cool tier is equivalent to the Amazon S3 Infrequent Access (S3-IA) storage in AWS that provides a low cost high performance storage for infrequently access data.
Note: Azure's cool storage tier, also known as Azure cool Blob storage, is for infrequently-accessed data that needs to be stored for a minimum of 30 days. Typical use cases include backing up data before tiering to archival systems, legal data, media files, system audit information, datasets used for big data analysis and more.
The storage cost for this Azure cold storage tier is lower than that of hot storage tier. Since it is expected that the data stored in this tier will be accessed less frequently, the data access charges are high when compared to hot tier. There are no additional changes required in your applications as these tiers can be accessed using APIs in the same manner that you access Azure storage.
References:
https://cloud.netapp.com/blog/low-cost-storage-options-on-azure

NEW QUESTION 176
- (Exam Topic 5)
You have an on-premises app named App1. Customers use App1 to manage digital images. You plan to migrate App1 to Azure.
You need to recommend a data storage solution for Appl. The solution must meet the following image storage requirements:
• Encrypt images at rest.
• Allow files up to 50 MB.
• Manage access to the images by using Azure Web Application Firewall (WAF) on Azure Front Door. The solution must meet the following customer account requirements:
• Support automatic scale out of the storage.
• Maintain the availability of App1 if a datacenter fails.
• Support reading and writing data from multiple Azure regions.
Which service should you include in the recommendation for each type of data? To answer, drag the appropriate services to the correct type of data. Each service may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.
NOTE: Each correct selection is worth one point.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 180
- (Exam Topic 5)
You have an on-premises named App 1. Customers App1 to manage digital images. You plan to migrate App1 to Azure.
You need to recommend a data storage solution for Appl. The solution must meet the following image storage requirements:

- Encrypt images at rest.
- Allow files up to 50M

A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 185
- (Exam Topic 5)
You have 100 Microsoft SQL Server integration Services (SSIS) packages that are configured to use 10 on-premises SQL Server databases as their destinations.
You plan to migrate the 10 on-premises databases to Azure SQL Database
You need to recommend a solution to host the SSIS packages in Azure. The solution must ensure that the packages can target the SQL Database instances as their destinations.
What should you include in the recommendation?

A. SQL Server Migration Assistant (SSMA)
B. Azure Data Catalog
C. Data Migration Assistant
D. Azure Data Factory

Answer: C

Explanation:
https://docs.microsoft.com/bs-cyrl-ba/azure/sql-database/sql-database-managed-instance-migrate
Quote from that page "Azure SQL Database and SQL Server databases in an Azure Virtual Machine. DMS is the recommended method of migration for your enterprise workloads.
If you use SQL Server Integration Services (SSIS) on your SQL Server on premises, DMS does not yet support migrating SSIS catalog (SSISDB) that stores SSIS packages, but you can provision Azure-SSIS Integration Runtime (IR) in Azure Data Factory (ADF) that will create a new SSISDB in a managed instance and then you can redeploy your packages to it, see Create Azure-SSIS IR in ADF.
To learn more about this scenario and configuration steps for DMS, see Migrate your on-premises database to managed instance using DMS."
https://docs.microsoft.com/en-us/azure/data-factory/how-to-migrate-ssis-job-ssms

NEW QUESTION 189
- (Exam Topic 5)

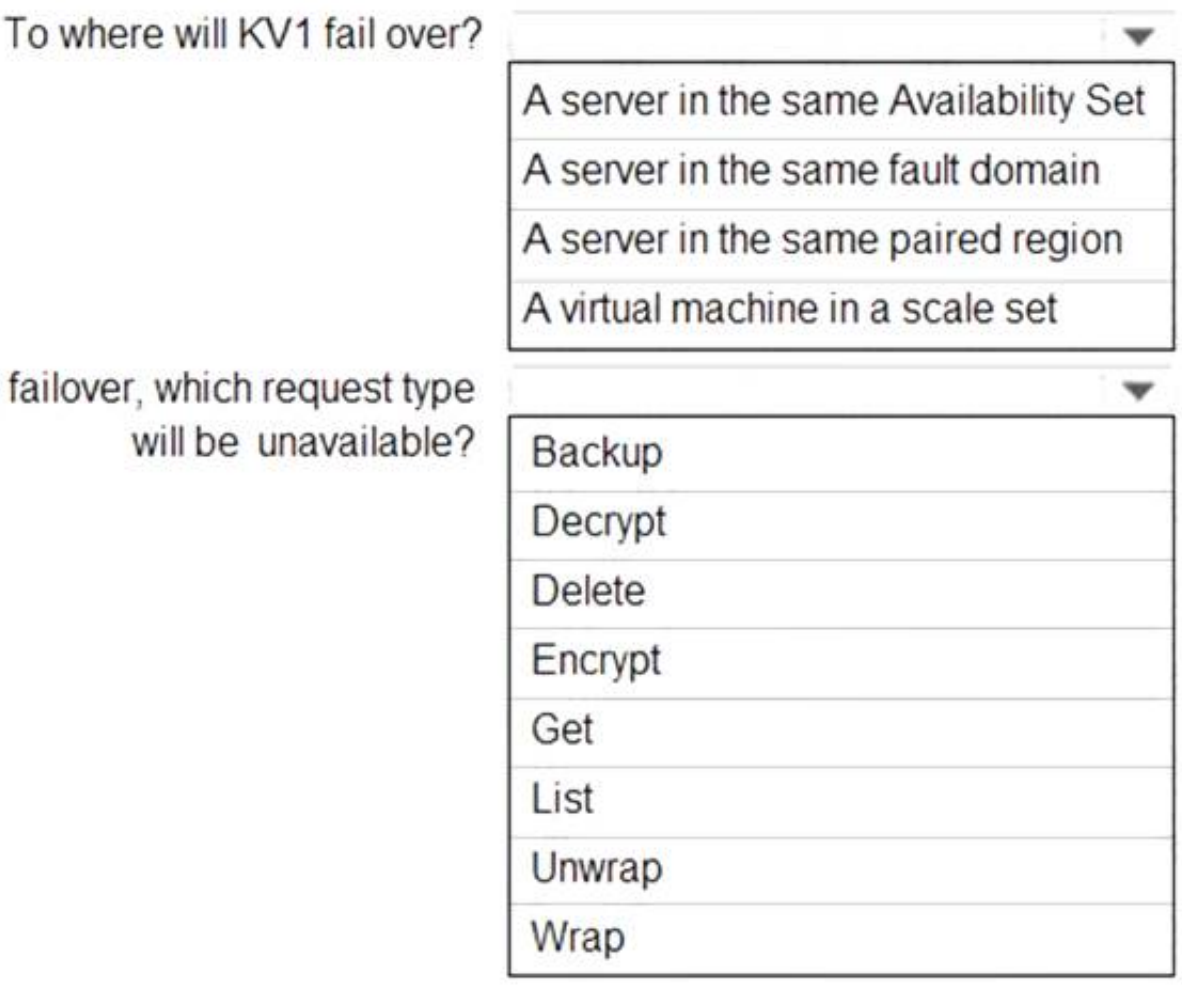
You have an Azure web app named App1 and an Azure key vault named KV1. App1 stores database connection strings in KV1.
App1 performs the following types of requests to KV1:

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

You are evaluating the continuity of service for App1.
You need to identify the following if the Azure region that hosts KV1 becomes unavailable:

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

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



A. Mastered
B. Not Mastered

Answer: A

Explanation:
Table Description automatically generated
Box 1: A server in the same paired region
The contents of your key vault are replicated within the region and to a secondary region at least 150 miles away, but within the same geography to maintain high durability of your keys and secrets.
Box 2: Delete
During failover, your key vault is in read-only mode. Requests that are supported in this mode are:

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

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

NEW QUESTION 191
- (Exam Topic 5)
Your company, named Contoso, Ltd, implements several Azure logic apps that have HTTP triggers: The logic apps provide access to an on-premises web service.
Contoso establishes a partnership with another company named Fabrikam, Inc.
Fabrikam does not have an existing Azure Active Directory (Azure AD) tenant and uses third-party OAuth 2.0 identity management to authenticate its users.
Developers at Fabrikam plan to use a subset of the logics apps to build applications that will integrate with the on-premises web service of Contoso.
You need to design a solution to provide the Fabrikam developers with access to the logic apps. The solution must meet the following requirements:

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

What should you include in the solution?

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

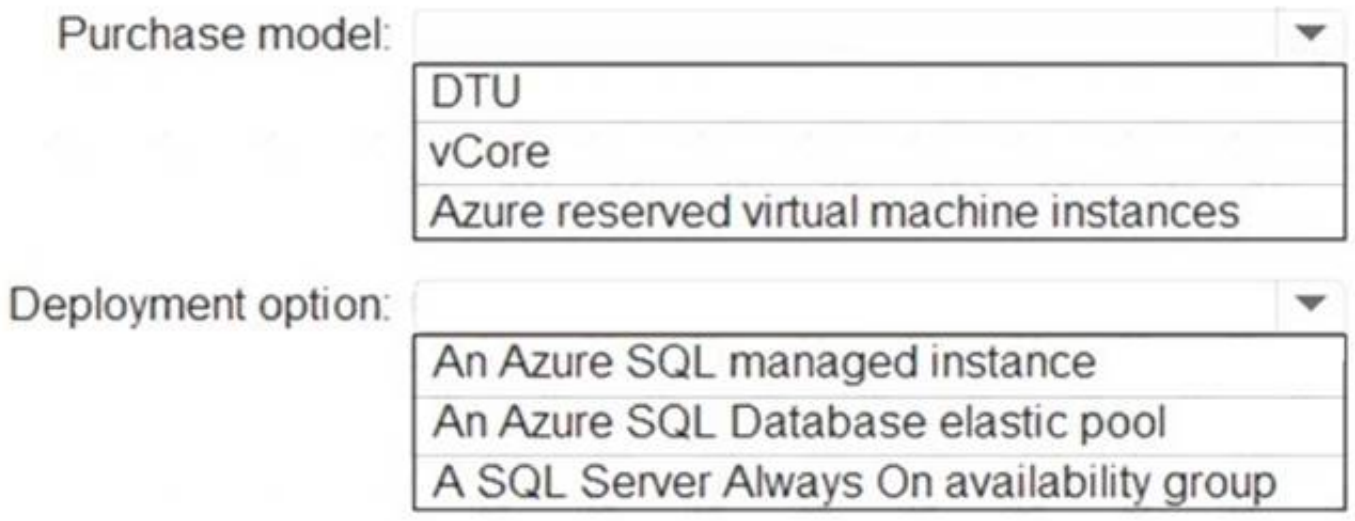
Answer: C

Explanation:
API Management helps organizations publish APIs to external, partner, and internal developers to unlock the potential of their data and services.
You can secure API Management using the OAuth 2.0 client credentials flow. Reference:
https://docs.microsoft.com/en-us/azure/api-management/api-management-key-concepts
https://docs.microsoft.com/en-us/azure/api-management/api-management-features https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-protect-backend-with-aad#ena

NEW QUESTION 192
- (Exam Topic 5)
You manage a database environment for a Microsoft Volume Licensing customer named Contoso, Ltd. Contoso uses License Mobility through Software Assurance.
You need to deploy 50 databases. The solution must meet the following requirements:

- Support automatic scaling.
- Minimize Microsoft SQL Server licensing costs.

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.



A. Mastered
B. Not Mastered

Answer: A

Explanation:
Text, table Description automatically generated
Box 1: vCore
Virtual core (vCore)-based purchasing model (recommended). This purchasing model provides a choice between a provisioned compute tier and a serverless compute tier. With the provisioned compute tier, you choose the exact amount of compute resources that are always provisioned for your workload. With the serverless compute tier, you specify the autoscaling of the compute resources over a configurable compute range
Box 2: An Azure SQL Database Elastic pool
Azure SQL Database provides the following deployment options for a database:

- Single database represents a fully managed, isolated database.
- Elastic pool is a collection of single databases with a shared set of resources, such as CPU or memory.

Single databases can be moved into and out of an elastic pool.
Reference:
https://docs.microsoft.com/en-us/azure/azure-sql/database/purchasing-models

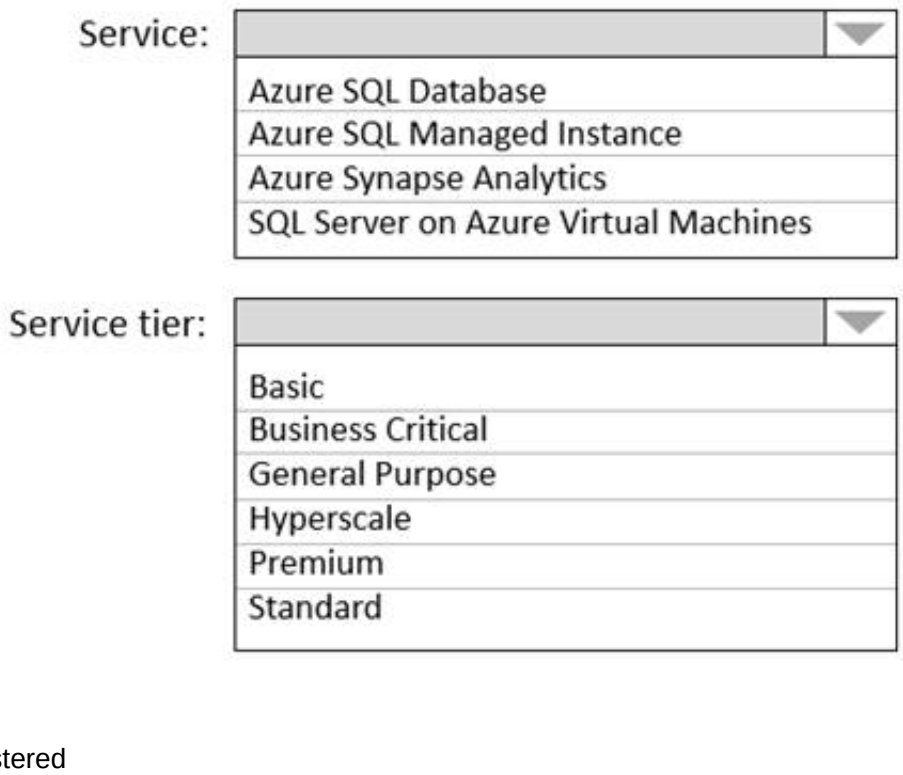
NEW QUESTION 196
- (Exam Topic 5)
You have an on-premises database that you plan to migrate to Azure.
You need to design the database architecture to meet the following requirements:

- Support scaling up and down.

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

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

Answer Area



A. Mastered
B. Not Mastered

Answer: A

Explanation:
Box 1: Azure SQL Database Azure SQL Database:
Database size always depends on the underlying service tiers (e.g. Basic, Business Critical, Hyperscale). It supports databases of up to 100 TB with Hyperscale service tier model.
Active geo-replication is a feature that lets you to create a continuously synchronized readable secondary database for a primary database. The readable secondary database may be in the same Azure region as the primary, or, more commonly, in a different region. This kind of readable secondary databases are also known as geo-secondaries, or geo-replicas.
Azure SQL Database and SQL Managed Instance enable you to dynamically add more resources to your database with minimal downtime.
Box 2: Hyperscale Reference:
https://docs.microsoft.com/en-us/azure/azure-sql/database/active-geo-replication-overview https://medium.com/awesome-azure/azure-difference-between-azure-sql-database-and-sql-server-on-vm-compar

NEW QUESTION 199
- (Exam Topic 5)
You plan to move a web application named App! from an on-premises data center to Azure.
App1 depends on a custom COM component that is installed on the host server.
You need to recommend a solution to host App1 in Azure. The solution must meet the following requirements:

- App1 must be available to users if an Azure data center becomes unavailable.
- Costs must be minimized.

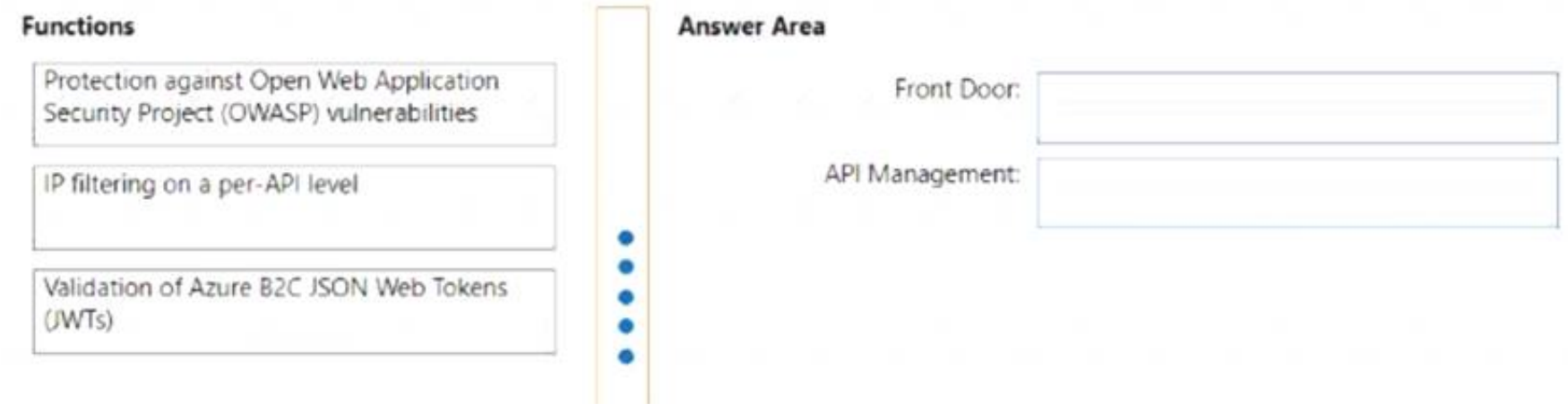
What should you include in the recommendation?

A. In two Azure regions, deploy a load balancer and a virtual machine scale set.
B. In two Azure regions, deploy a Traffic Manager profile and a web app.
C. In two Azure regions, deploy a load balancer and a web app.
D. Deploy a load balancer and a virtual machine scale set across two availability zones.

Answer: D

Explanation:
(https://docs.microsoft.com/en-us/dotnet/azure/migration/app-service#com-and-com-components)
Azure App Service does not allow the registration of COM components on the platform. If your app makes use of any COM components, these need to be rewritten in managed code and deployed with the site or application. https://docs.microsoft.com/en-us/dotnet/azure/migration/app-service
"Azure App Service with Windows Containers If your app cannot be migrated directly to App Service, consider App Service using Windows Containers, which enables usage of the GAC, COM components, MSIs, full access to .NET FX APIs, DirectX, and more."

NEW QUESTION 204
- (Exam Topic 5)
You plan to deploy an infrastructure solution that will contain the following configurations:
• External users will access the infrastructure by using Azure Front Door.
• External user access to the backend APIs hosted in Azure Kubernetes Service (AKS) will be controlled by using Azure API Management.
• External users will be authenticated by an Azure AO B2C tenant that uses OpenID Connect-based federate with a third-party identity provider.
Which function does each service provide? To answer, drag the appropriate functions to the correct services. Each function 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.



A. Mastered
B. Not Mastered

Answer: A

Explanation:
Front Door: Protection against Open Web Application Security Project (OWASP) vulnerabilities1
API Management: IP filtering on a per-API level2 and validation of Azure B2C JSON Web Tokens (JWTs)3 References:
1: Azure Front Door - Web Application Firewall 2: Azure API Management policy reference - ip-filter 3: to validate an Azure B2C JWT token in a web API?

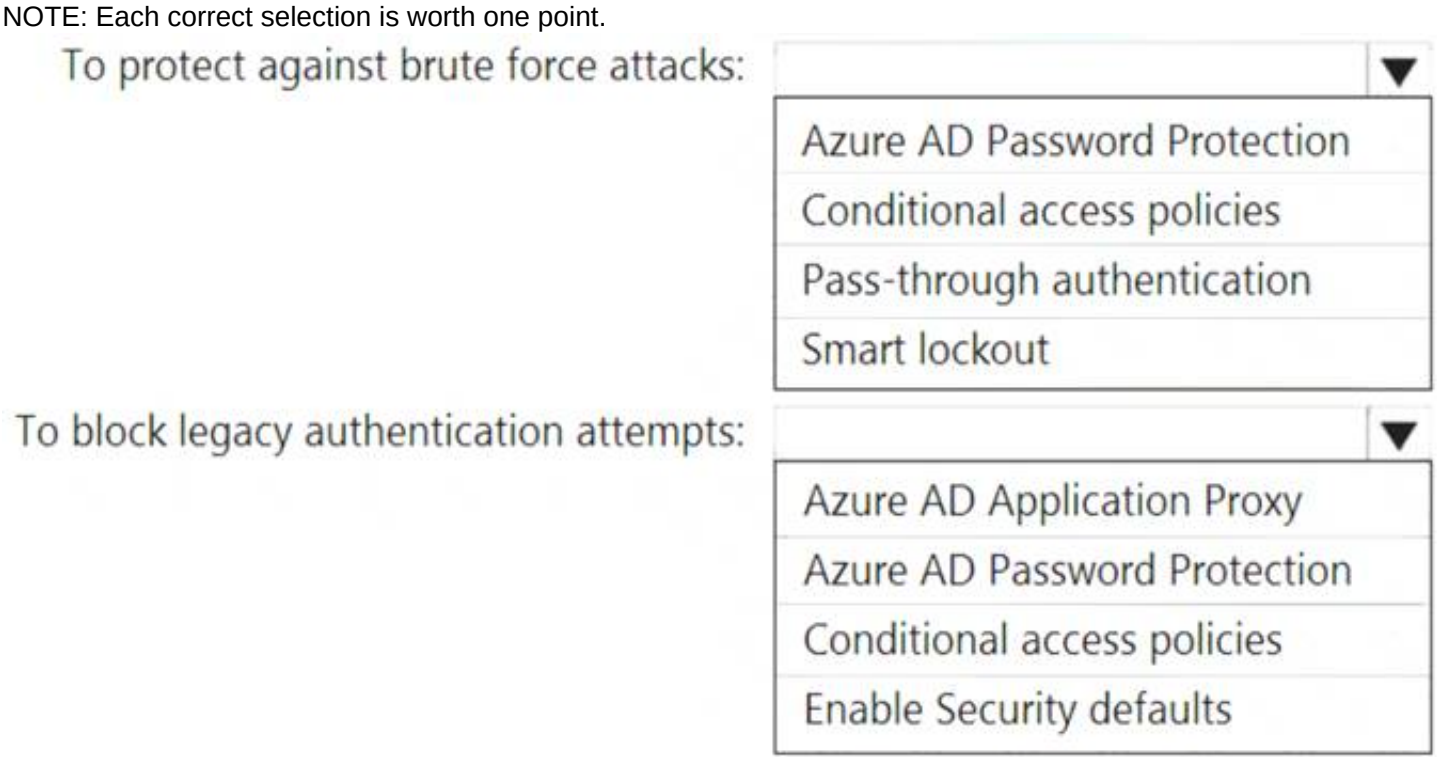
NEW QUESTION 209
- (Exam Topic 5)
You are developing a sates application that will contain several Azure cloud services and handle different components of a transaction. Different cloud services will process customer orders, billing, payment inventory, and shipping.
You need to recommend a solution to enable the cloud services to asynchronously communicate transaction information by using XML messages.
What should you include in the recommendation?

A. Azure Data Lake
B. Azure Notification Hubs
C. Azure Queue Storage
D. Azure Service Fabric

Answer: C

NEW QUESTION 210
- (Exam Topic 5)
You have the Free edition of a hybrid Azure Active Directory (Azure AD) tenant. The tenant uses password hash synchronization.
You need to recommend a solution to meet the following requirements:
- Prevent Active Directory domain user accounts from being locked out as the result of brute force attacks targeting Azure AD user accounts.
- Block legacy authentication attempts to Azure AD integrated apps.
- Minimize costs.

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.



A. Mastered
B. Not Mastered

Answer: A

Explanation:
Graphical user interface, text, application Description automatically generated
Box 1: Smart lockout
Smart lockout helps lock out bad actors that try to guess your users' passwords or use brute-force methods to get in. Smart lockout can recognize sign-ins that

come from valid users and treat them differently than ones of attackers and other unknown sources. Attackers get locked out, while your users continue to access their accounts and be productive.
Box 2: Conditional access policies
If your environment is ready to block legacy authentication to improve your tenant's protection, you can accomplish this goal with Conditional Access.
How can you prevent apps using legacy authentication from accessing your tenant's resources? The recommendation is to just block them with a Conditional Access policy. If necessary, you allow only certain users and specific network locations to use apps that are based on legacy authentication.
Reference:
https://docs.microsoft.com/en-us/azure/active-directory/authentication/howto-password-smart-lockout https://docs.microsoft.com/en-us/azure/active-directory/conditional-access/block-legacy-authentication

NEW QUESTION 212
- (Exam Topic 5)
You have an app named App1 that uses two on-premises Microsoft SQL Server databases named DB1 and DB2.
You plan to migrate DB1 and DB2 to Azure.
You need to recommend an Azure solution to host DB1 and DB2. The solution must meet the following requirements:
• Support server-side transactions across DB1 and DB2.
• Minimize administrative effort to update the solution. What should you recommend?

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

Answer: D

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

NEW QUESTION 215
- (Exam Topic 5)
You plan to archive 10 TB of on-premises data files to Azure.
You need to recommend a data archival solution. The solution must minimize the cost of storing the data files. Which Azure Storage account type should you include in the recommendation?

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

Answer: A

Explanation:
Standard StorageV2 supports the Archive access tier, which would be the cheapest solution. Reference:
https://docs.microsoft.com/en-us/azure/storage/common/storage-introduction

NEW QUESTION 217
- (Exam Topic 5)
You are planning an Azure Storage solution for sensitive data. The data will be accessed daily. The data set is less than 10 GB.
You need to recommend a storage solution that meets the following requirements:
• All the data written to storage must be retained for five years.
• Once the data is written, the data can only be read. Modifications and deletion must be prevented.
• After five years, the data can be deleted, but never modified.
• Data access charges must be minimized
What should you recommend? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Answer Area

Storage account type: [▼]
- General purpose v2 with Archive access tier for blobs
- General purpose v2 with Cool access tier for blobs
- General purpose v2 with Hot access tier for blobs

Configuration to prevent modifications and deletions: [▼]
- Container access level
- Container access policy
- Storage account resource lock

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Graphical user interface, text, application Description automatically generated
Box 1: General purpose v2 with Archive acce3ss tier for blobs
Archive - Optimized for storing data that is rarely accessed and stored for at least 180 days with flexible latency requirements, on the order of hours.
Cool - Optimized for storing data that is infrequently accessed and stored for at least 30 days. Hot - Optimized for storing data that is accessed frequently.
Box 2: Storage account resource lock
As an administrator, you can lock a subscription, resource group, or resource to prevent other users in your organization from accidentally deleting or modifying critical resources. The lock overrides any permissions the user might have.
Note: You can set the lock level to CanNotDelete or ReadOnly. In the portal, the locks are called Delete and Read-only respectively.

- CanNotDelete means authorized users can still read and modify a resource, but they can't delete the resource.
- ReadOnly means authorized users can read a resource, but they can't delete or update the resource.

Applying this lock is similar to restricting all authorized users to the permissions granted by the Reader role.
Reference:
https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers

NEW QUESTION 222
- (Exam Topic 5)
You architect a solution that calculates 3D geometry from height-map data. You have the following requirements:
Perform calculations in Azure.
Each node must communicate data to every other node.
Maximize the number of nodes to calculate multiple scenes as fast as possible. Require the least amount of effort to implement.
You need to recommend a solution.
Which two actions should you recommend? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

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

Answer: AC

NEW QUESTION 225
- (Exam Topic 5)
You have an Azure Functions microservice app named Appl that is hosted in the Consumption plan. App1
uses an Azure Queue Storage trigger.
You plan to migrate App1 to an Azure Kubernetes Service (AKS) cluster.
You need to prepare the AKS cluster to support Appl. The solution must meet the following requirements:
• Use the same scaling mechanism as the current deployment.
• Support kubenet and Azure Container Netwoking Interface (CNI) networking.
Which two actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct answer is worth one point.

A. Configure the horizontal pod autoscaler.
B. Install Virtual Kubelet.
C. Configure the AKS cluster autoscaler.
D. Configure the virtual node add-on.
E. Install Kubemetes-based Event Driven Autoscaling (KEDA).

Answer: AD

NEW QUESTION 230
- (Exam Topic 5)
You are designing an app that will use Azure Cosmos DB to collate sales data from multiple countries. You need to recommend an API for the app. The solution must meet the following requirements:
• Support SQL queries.
• Support geo-replication.
• Store and access data relationally. Which API should you recommend?

A. PostgreSQL
B. NoSQL
C. Apache Cassandra
D. MongoDB

Answer: A

NEW QUESTION 234
- (Exam Topic 5)
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.
After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.
You plan to deploy multiple instances of an Azure web app across several Azure regions.
You need to design an access solution for the app. The solution must meet the following replication requirements:

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

A. Yes
B. No

Answer: B

NEW QUESTION 239
- (Exam Topic 5)
You have an Azure subscription that contains the storage accounts shown in the following table.

Name	Type	Performance
storage1	StorageV2	Standard
storage2	SrorageV2	Premium
storage3	BlobStorage	Standard
storage4	FileStorage	Premium

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

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

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

App1:
- Storage1 and storage2 only
- Storage1 and storage3 only
- Storage1, storage2, and storage3 only
- Storage1, storage2, storage3, and storage4

App2:
- Storage4 only
- Storage1 and storage4 only
- Storage1, storage2, and storage4 only
- Storage1, storage2, storage3, and storage4

A. Mastered
B. Not Mastered

Answer: A

Explanation:
https://docs.microsoft.com/en-us/azure/storage/common/storage-account-overview https://www.edureka.co/community/40011/different-storage-accounts-there-major-difference-between https://insidemstech.com/tag/general-purpose-v2/
In conclusion the correct answers are: Box1 --> Storage1 and Storage3 only Box2 --> Storage1 and Storage4 only
https://docs.microsoft.com/en-us/azure/storage/files/storage-how-to-create-file-share?tabs=azure-portal#basics

NEW QUESTION 244
- (Exam Topic 5)
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.
After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.
Your company has deployed several virtual machines (VMs) on-premises and to Azure. Azure ExpressRoute has been deployed and configured for on-premises to Azure connectivity.
Several VMs are exhibiting network connectivity issues.
You need to analyze the network traffic to determine whether packets are being allowed or denied to the VMs. Solution: Install and configure the Microsoft Monitoring Agent and the Dependency Agent on all VMs. Use the Wire Data solution in Azure Monitor to analyze the network traffic.
Does the solution meet the goal?

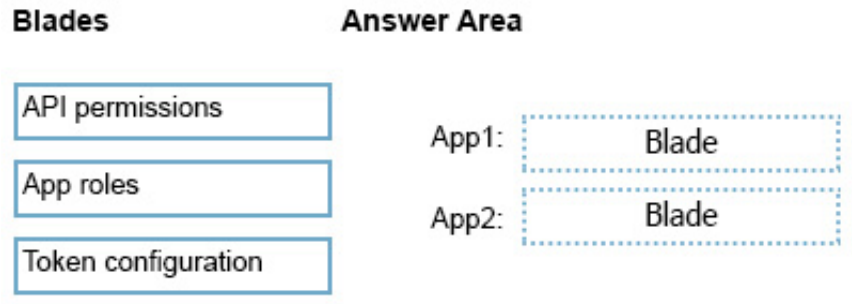
A. Yes
B. No

Answer: B

Explanation:
Instead use Azure Network Watcher to run IP flow verify to analyze the network traffic.
Note: Wire Data looks at network data at the application level, not down at the TCP transport layer. The solution doesn't look at individual ACKs and SYNs.
Reference:

https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-monitoring-overview https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-ip-flow-verify-overview

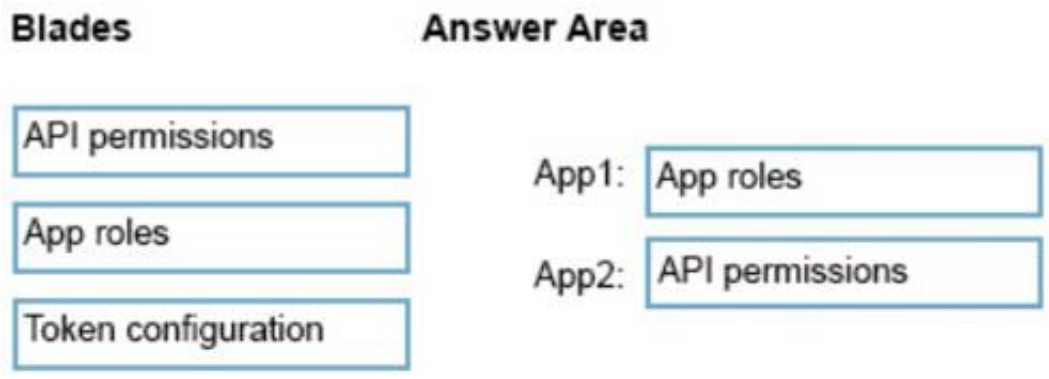
NEW QUESTION 246
- (Exam Topic 5)
You have two app registrations named App1 and App2 in Azure AD. App1 supports role-based access control (RBAC) and includes a role named Writer.
You need to ensure that when App2 authenticates to access App1, the tokens issued by Azure AD include the Writer role claim.
Which blade should you use to modify each app registration? To answer, drag the appropriate blades to the correct app registrations. Each blade may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.
NOTE: Each correct selection is worth one point.



A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 248
- (Exam Topic 5)
Your company has an on-premises Hyper-V cluster that contains 20 virtual machines. Some of the virtual machines are based on Windows and some in Linux.
You have to migrate the virtual machines onto Azure.
You have to recommend a solution that would be used to replicate the disks of the virtual machines to Azure. The solution needs to ensure that the virtual machines remain available when the migration of the disks is in progress.
You decide to create an Azure storage account and then run AzCopy Would this fulfill the requirement?

A. Yes
B. No

Answer: B

NEW QUESTION 253
- (Exam Topic 5)
You have an Azure subscription.
Your on-premises network contains a file server named Server1. Server 1 stores 5 TB of company files that are accessed rarely.
You plan to copy the files to Azure Storage.
You need to implement a storage solution for the files that meets the following requirements:
• The files must be available within 24 hours of being requested.
• Storage costs must be minimized.
Which two possible storage solutions achieve this goal? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

A. Create a general-purpose v1 storage accoun
B. Create a blob container and copy the files to the blob container.
C. Create a general-purpose v2 storage account that is configured for the Hot default access tie
D. Create a blob container, copy the files to the blob container, and set each file to the Archive access tier.
E. Create a general-purpose v1 storage accoun
F. Create a file share in the storage account and copy the files to the file share.
G. Create a general-purpose v2 storage account that is configured for the Cool default access tie
H. Create a file share in the storage account and copy the files to the file share.
I. Create an Azure Blob storage account that is configured for the Cool default access tie
J. Create a blob container, copy the files to the blob container, and set each file to the Archive access tier.

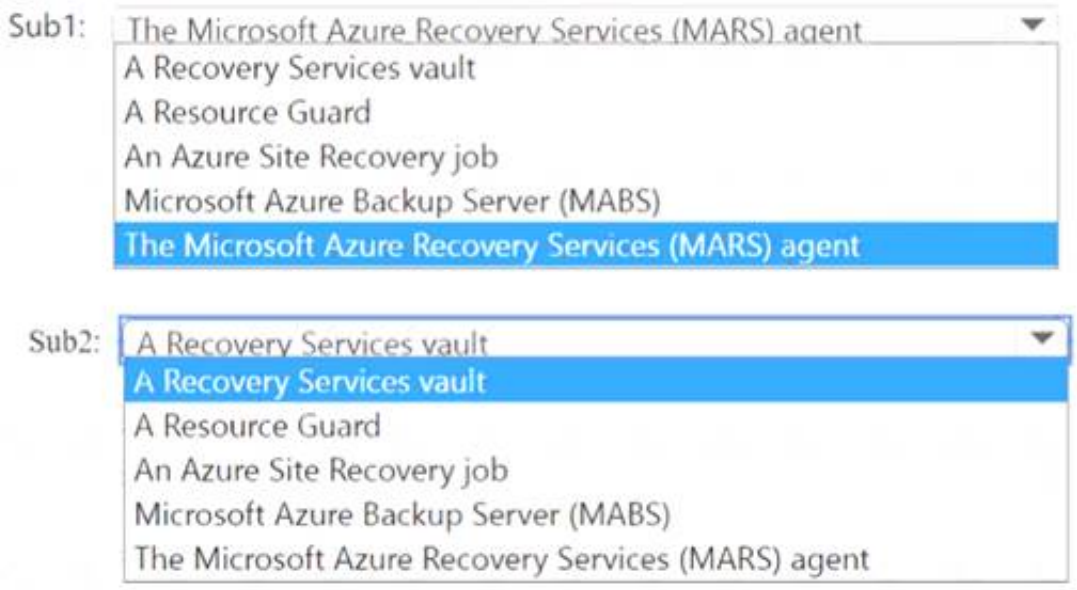
Answer: BE

Explanation:
https://docs.microsoft.com/en-us/azure/storage/blobs/manage-access-tier?tabs=portal

NEW QUESTION 257
- (Exam Topic 5)
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.onmicrosft.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



A. Mastered
B. Not Mastered

Answer: A

Explanation:
Answer Area

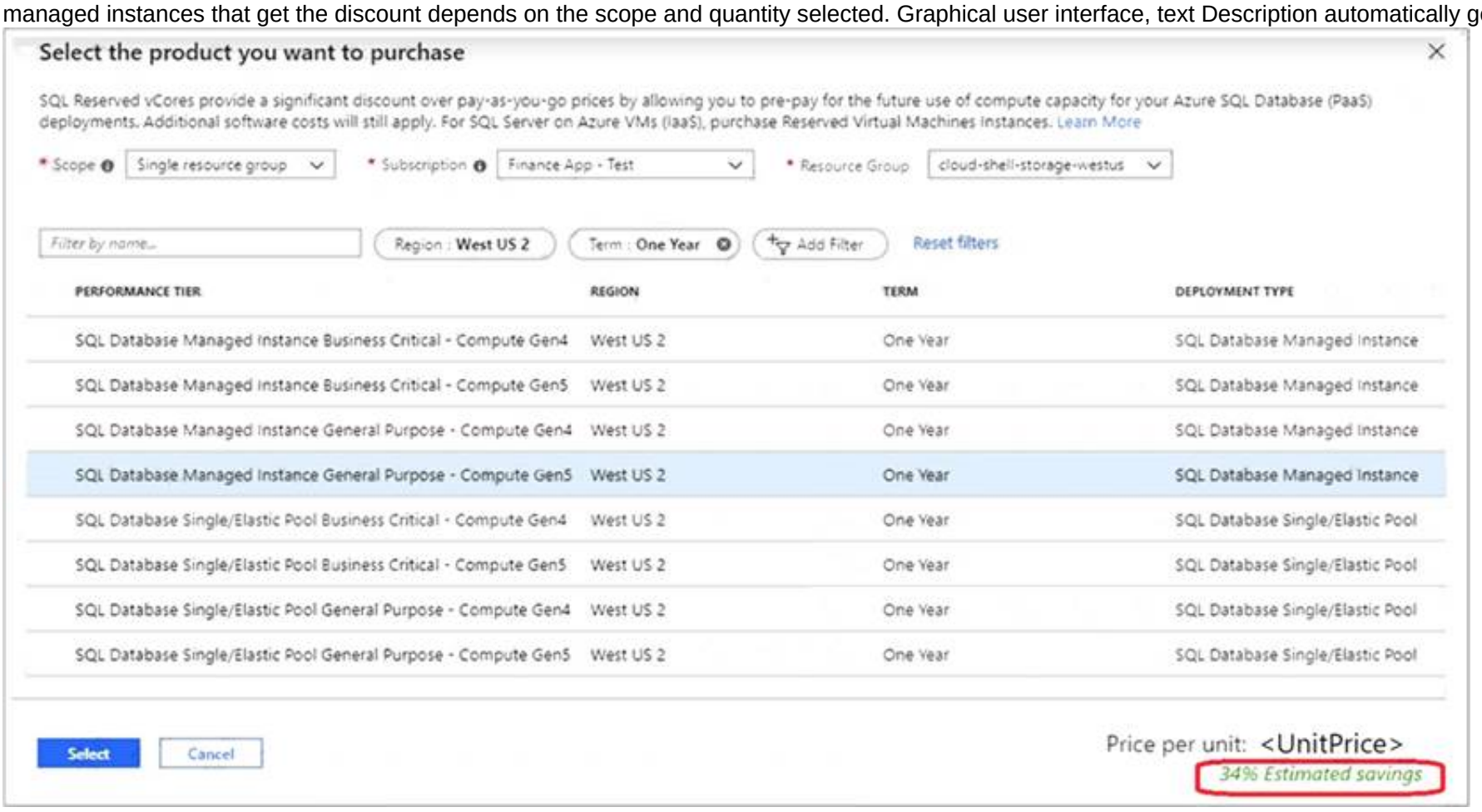
NEW QUESTION 259
- (Exam Topic 5)
You have an Azure subscription that contains an Azure SQL database.
You are evaluating whether to use Azure reservations on the Azure SQL database. Which tool should you use to estimate the potential savings?

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

Answer: A

Explanation:
Buy reserved capacity
- Sign in to the Azure portal.
- Select All services > Reservations.
- Select Add and then in the Purchase Reservations pane, select SQL Database to purchase a new reservation for SQL Database.
- Fill in the required fields. Existing databases in SQL Database and SQL Managed Instance that match the attributes you select qualify to get the reserved

capacity discount. The actual number of databases or
managed instances that get the discount depends on the scope and quantity selected. Graphical user interface, text Description automatically generated



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

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

NEW QUESTION 263
- (Exam Topic 5)
You plan to migrate App1 to Azure. The solution must meet the authentication and authorization requirements.
Which of the endpoint should App1 use to obtain an access token?

A. Microsoft identify platform
B. Azure AD
C. Azure instance Service (IMDS)
D. Azure Service management

Answer: A

NEW QUESTION 268
- (Exam Topic 5)
You need to recommend a solution to deploy containers that run an application. The application has two tiers. Each tier is implemented as a separate Docker Linux-based image. The solution must meet the following requirements:

- The front-end tier must be accessible by using a public IP address on port 80.
- The backend tier must be accessible by using port 8080 from the front-end tier only.
- Both containers must be able to access the same Azure file share.
- If a container fails, the application must restart automatically.
- Costs must be minimized.

What should you recommend using to host the application?

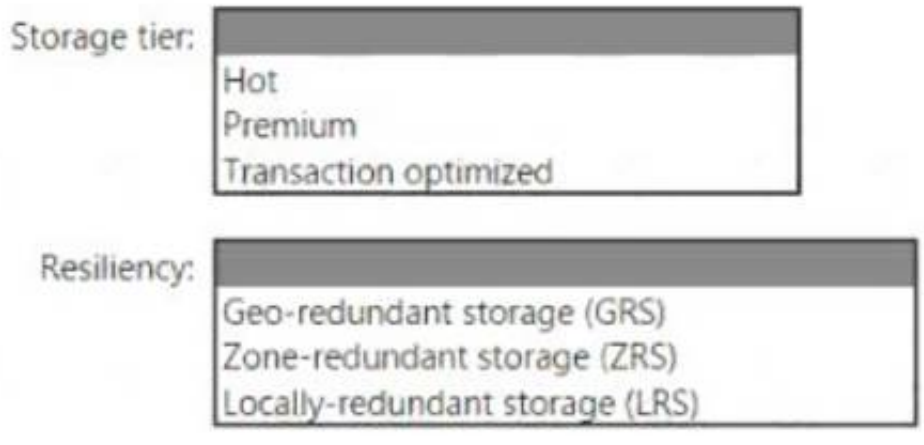
A. Azure Kubernetes Service (AKS)
B. Azure Service Fabric
C. Azure Container instances
D. Azure Container registries

Answer: C

Explanation:
Azure Container Instances enables a layered approach to orchestration, providing all of the scheduling and management capabilities required to run a single container, while allowing orchestrator platforms to manage multi-container tasks on top of it.
Because the underlying infrastructure for container instances is managed by Azure, an orchestrator platform does not need to concern itself with finding an appropriate host machine on which to run a single container.
Azure Container Instances can schedule both Windows and Linux containers with the same API. Orchestration of container instances exclusively
Because they start quickly and bill by the second, an environment based exclusively on Azure Container Instances offers the fastest way to get started and to deal with highly variable workloads.
Reference:
https://docs.microsoft.com/en-us/azure/container-instances/container-instances-overview https://docs.microsoft.com/en-us/azure/container-instances/container-instances-orchestrator-relationship

NEW QUESTION 273

- (Exam Topic 5)
You plan to create an Azure Storage account that will host file shares. The shares will be accessed from on-premises applications that are transaction-intensive.
You need to recommend a solution to minimize latency when accessing the file shares. The solution must provide the highest-level of resiliency for the selected storage tier.
What should you include in the recommendation? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.



A. Mastered
B. Not Mastered

Answer: A

Explanation:
Box 1: Premium
Premium: Premium file shares are backed by solid-state drives (SSDs) and provide consistent high performance and low latency, within single-digit milliseconds for most IO operations, for IO-intensive workloads.
Box 2: Zone-redundant storage (ZRS):
Premium Azure file shares only support LRS and ZRS.
Zone-redundant storage (ZRS): With ZRS, three copies of each file stored, however these copies are physically isolated in three distinct storage clusters in different Azure availability zones.
Reference:
https://docs.microsoft.com/en-us/azure/storage/files/storage-files-planning

NEW QUESTION 276
- (Exam Topic 5)
You need to implement the Azure RBAC role assignment. The solution must meet the authentication and authorization requirements.
How many assignment should you configure for the Network Contributor role for Role1? To answer, select appropriate in the answer area.
NOTE:

A. Mastered
B. Not Mastered

Answer: A

Explanation:
A screenshot of a computer Description automatically generated with medium confidence

NEW QUESTION 280
- (Exam Topic 5)
You are designing an Azure Cosmos DB solution that will host multiple writable replicas in multiple Azure regions.
You need to recommend the strongest database consistency level for the design. The solution must meet the following requirements:

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

Which consistency level should you recommend?

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

Answer: A

Explanation:
Each level provides availability and performance tradeoffs. The following image shows the different consistency levels as a spectrum.

Timeline Description automatically generated

Note: The service offers comprehensive 99.99% SLAs which covers the guarantees for throughput, consistency, availability and latency for the Azure Cosmos DB Database Accounts scoped to a single Azure region configured with any of the five Consistency Levels or Database Accounts spanning multiple Azure regions, configured with any of the four relaxed Consistency Levels.
Reference:
https://azure.microsoft.com/en-us/support/legal/sla/cosmos-db/v1_3/
https://docs.microsoft.com/en-us/azure/cosmos-db/consistency-levels#consistency-levels-and-latency

NEW QUESTION 283
- (Exam Topic 5)
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.
After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.
You are designing an Azure solution for a company that has four departments. Each department will deploy several Azure app services and Azure SQL databases.
You need to recommend a solution to report the costs for each department to deploy the app services and the databases. The solution must provide a consolidated view for cost reporting that displays cost broken down by department.
Solution: Create a separate resource group for each department. Place the resources for each department in its respective resource group.
Does this meet the goal?

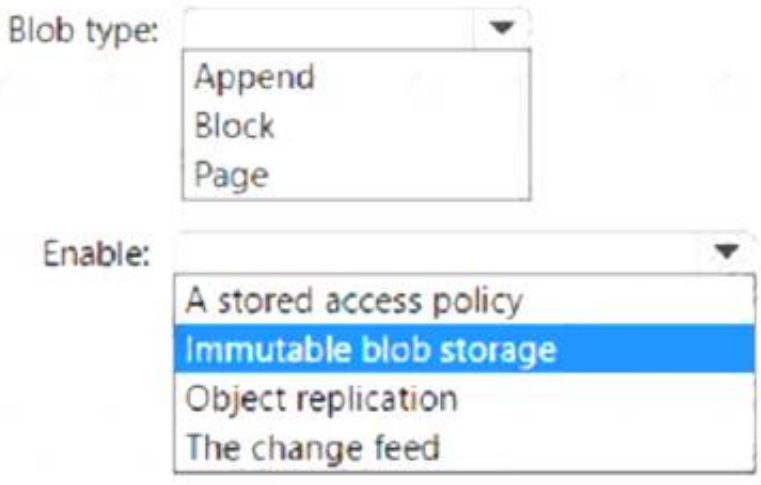
A. Yes
B. No

Answer: B

Explanation:
Instead create a resources group for each resource type. Assign tags to each resource group.
Note: Tags enable you to retrieve related resources from different resource groups. This approach is helpful when you need to organize resources for billing or management.
Reference:
https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-using-tags

NEW QUESTION 285
- (Exam Topic 5)
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

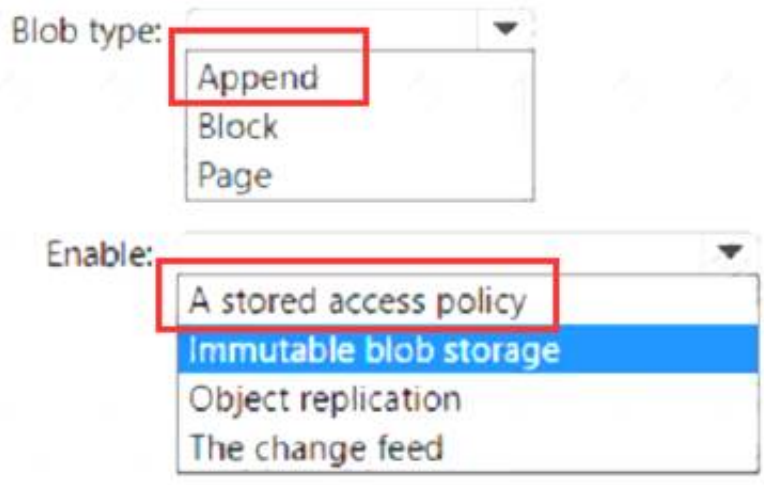


A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

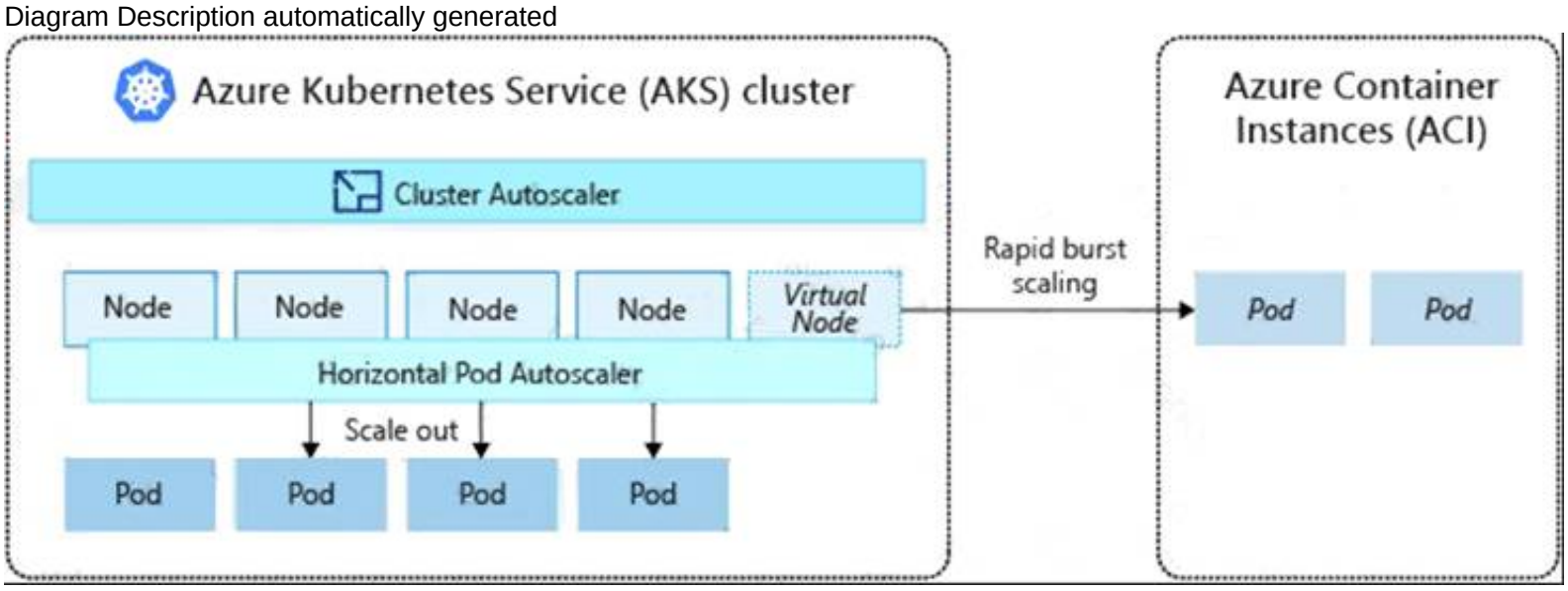


NEW QUESTION 289
- (Exam Topic 5)
You have an Azure subscription.
You need to deploy an Azure Kubernetes Service (AKS) solution that will use Windows Server 2019 nodes.
The solution must meet the following requirements:
Minimize the time it takes to provision compute resources during scale-out operations. Support autoscaling of Windows Server containers.
Which scaling option should you recommend?

A. cluster autoscaler
B. horizontal pod autoscaler
C. Kubernetes version 1.20.2 or newer
D. Virtual nodes with Virtual Kubelet ACI

Answer: D

Explanation:
Azure Container Instances (ACI) lets you quickly deploy container instances without additional infrastructure overhead. When you connect with AKS, ACI becomes a secured, logical extension of your AKS cluster. The virtual nodes component, which is based on Virtual Kubelet, is installed in your AKS cluster that presents ACI as a virtual Kubernetes node. Kubernetes can then schedule pods that run as ACI instances through virtual nodes, not as pods on VM nodes directly in your AKS cluster.
Your application requires no modification to use virtual nodes. Deployments can scale across AKS and ACI and with no delay as cluster autoscaler deploys new nodes in your AKS cluster.
Diagram Description automatically generated



Note: AKS clusters can scale in one of two ways:
- The cluster autoscaler watches for pods that can't be scheduled on nodes because of resource constraints.
The cluster then automatically increases the number of nodes.
- The horizontal pod autoscaler uses the Metrics Server in a Kubernetes cluster to monitor the resource demand of pods. If an application needs more resources, the number of pods is automatically increased to meet the demand.
Reference:
https://docs.microsoft.com/en-us/azure/aks/concepts-scale5

NEW QUESTION 291
- (Exam Topic 5)
You plan to automate the deployment of resources to Azure subscriptions.
What is a difference between using Azure Blueprints and Azure Resource Manager (ARM) templates?

A. ARM templates remain connected to the deployed resources.
B. Only ARM templates can contain policy definitions.
C. Blueprints remain connected to the deployed resources.
D. Only Blueprints can contain policy definitions.

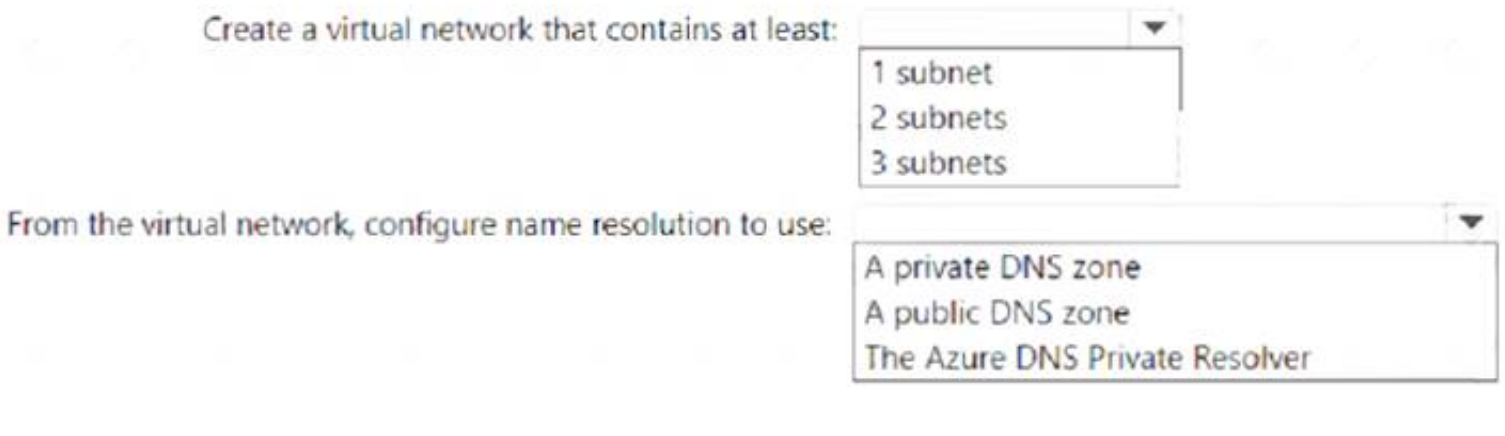
Answer: C

Explanation:
With Azure Blueprints, the relationship between the blueprint definition (what should be deployed) and the blueprint assignment (what was deployed) is preserved.

This connection supports improved tracking and auditing of deployments. Azure Blueprints can also upgrade several subscriptions at once that are governed by the same blueprint.
Reference:
https://docs.microsoft.com/en-us/answers/questions/26851/how-is-azure-blue-prints-different-from-resource-m.h

NEW QUESTION 295
- (Exam Topic 5)
You have an Azure App Service web app named Webapp1 that connects to an Azure SQL database named DB1. Webapp1 and DB1 are deployed to the East US Azure region.
You need to ensure that all the traffic between Weoapp1 and DB1 is sent via a private connection. What should you do? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

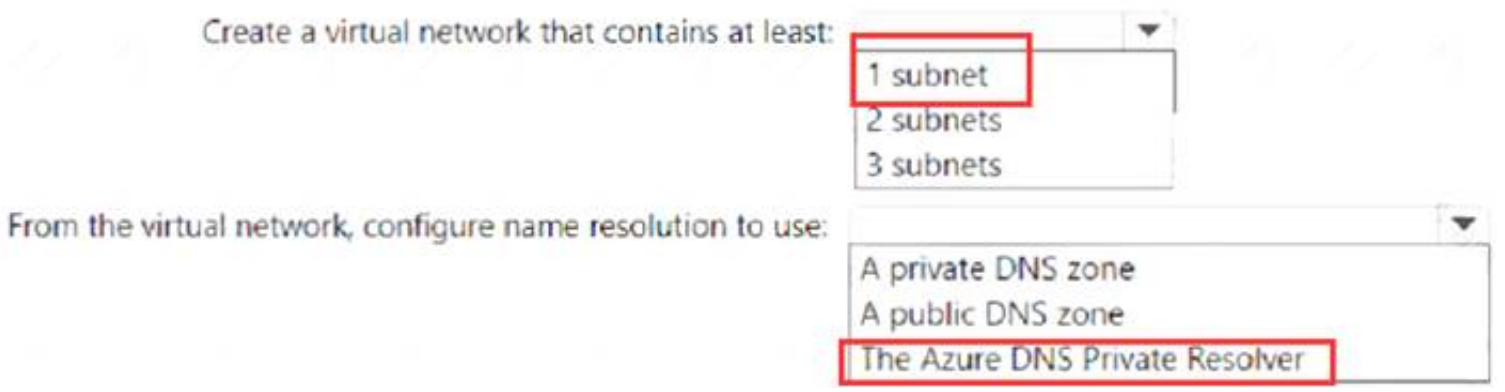
Answer Area



A. Mastered
B. Not Mastered

Answer: A

Explanation:
Answer Area



NEW QUESTION 296
- (Exam Topic 5)
You ate designing a SQL database solution. The solution will include 20 databases that will be 20 GB each and have varying usage patterns. You need to recommend a database platform to host the databases. The solution must meet the following requirements:
• The compute resources allocated to the databases must scale dynamically.
• The solution must meet an SLA of 99.99% uptime.
• The solution must have reserved capacity.
• Compute charges must be minimized.
What should you include in the recommendation?

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

Answer: D

Explanation:
Azure SQL Database elastic pools are a simple, cost-effective solution for managing and scaling multiple databases that have varying and unpredictable usage demands. The databases in an elastic pool are on a single server and share a set number of resources at a set price. Elastic pools in Azure SQL Database enable SaaS developers to optimize the price performance for a group of databases within a prescribed budget while delivering performance elasticity for each database.
Guaranteed 99.995 percent uptime for SQL Database Reference:
https://docs.microsoft.com/en-us/azure/azure-sql/database/elastic-pool-overview https://azure.microsoft.com/en-us/pricing/details/sql-database/elastic/
https://www.azure.cn/en-us/support/sla/virtual-machines/
https://techcommunity.microsoft.com/t5/azure-sql/optimize-price-performance-with-compute-auto-scaling-in-az

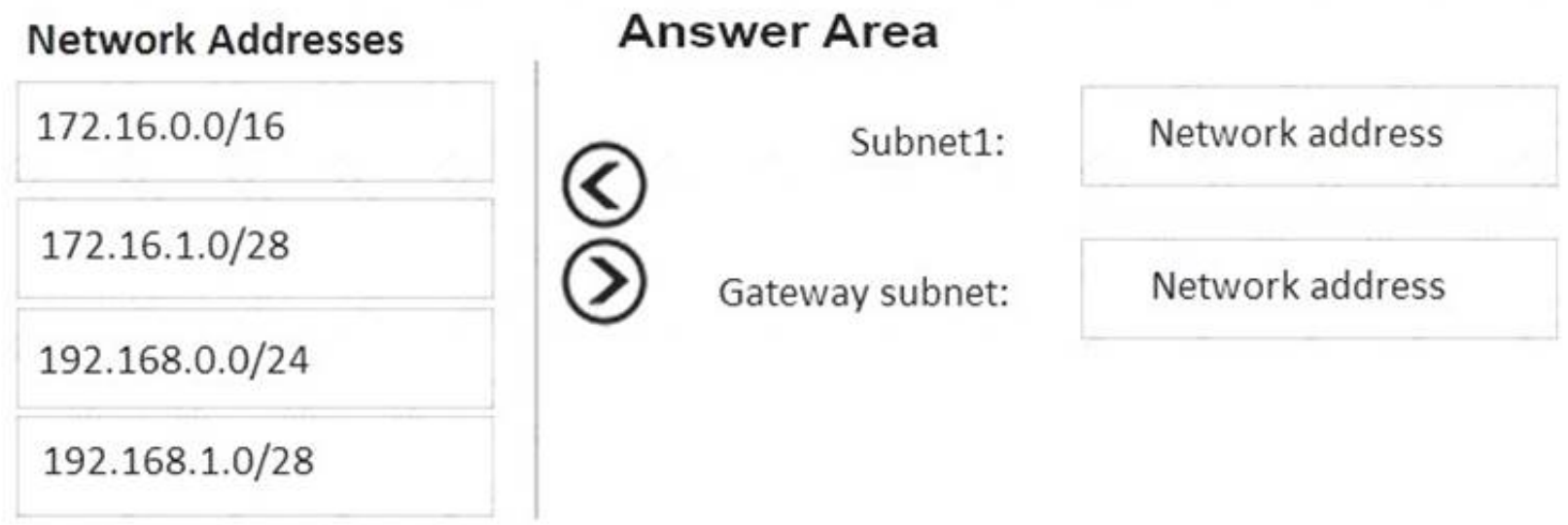
NEW QUESTION 300
- (Exam Topic 5)
Your on-premises datacenter contains a server that runs Linux and hosts a Java app named Appl. App1 has the following characteristics:
• App1 is an interactive app that users access by using HTTPS connections.

• The number of connections to App1 changes significantly throughout the day.
• App1 runs multiple concurrent instances.
• App1 requires major changes to run in a container. You plan to migrate App1 to Azure.
You need to recommend a compute solution for Appl. The solution must meet the following requirements:
• The solution must run multiple instances of Appl.
• The number of instances must be managed automatically depending on the load.
• Administrative effort must be minimized.
What should you include in the recommendation?

A. Azure Batch
B. Azure App Service
C. Azure Kubernetes Service (AKS)
D. Azure Virtual Machine Scale Sets

Answer: C

NEW QUESTION 303
- (Exam Topic 5)
You have an on-premises network that uses on IP address space of 172.16.0.0/16 You plan to deploy 25 virtual machines to a new azure subscription.
You identity the following technical requirements.
- All Azure virtual machines must be placed on the same subnet subnet1.
- All the Azure virtual machines must be able to communicate with all on premises severs.
- The servers must be able to communicate between the on-premises network and Azure by using a site to site VPN.
You need to recommend a subnet design that meets the technical requirements.
What should you include in the recommendation? To answer, drag the appropriate network addresses to the correct subnet. Each network address may be used once, more than once or not at all. You may need to drag the split bar between panes or scroll to view content.
NOTE: Each correct selection is worth one point.



A. Mastered
B. Not Mastered

Answer: A

Explanation:
Graphical user interface, application Description automatically generated

NEW QUESTION 305
- (Exam Topic 5)
You have an Azure Active Directory (Azure AD) tenant that syncs with an on-premises Active Directory domain.
Your company has a line-of-business (LOB) application that was developed internally.
You need to implement. SAML single sign-on (SSO) and enforce multi-factor authentication (MFA) when users attempt to access the application from an unknown location.
Which two features should you include in the solution? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

A. Azure AD enterprise applications
B. Azure AD Identity Protection
C. Azure Application Gateway
D. Conditional Access policies
E. Azure AD Privileged Identity Management (PIM)

Answer: AD

NEW QUESTION 310
- (Exam Topic 5)
You have several Azure App Service web apps that use Azure Key Vault to store data encryption keys. Several departments have the following requests to support the web app:

Department	Request
Security	• Review the membership of administrative roles and require users to provide a justification for continued membership. • Get alerts about changes in administrator assignments. • See a history of administrator activation, including which changes administrators made to Azure resources.
Development	• Enable the applications to access Key Vault and retrieve keys for use in code.

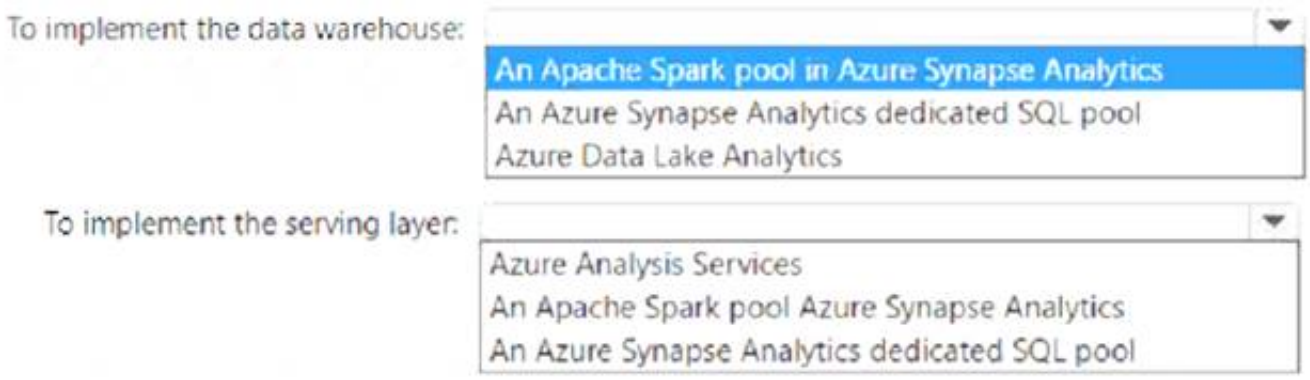
Which service should you recommend for each department's request? To answer, configure the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.
Answer Area

A. Mastered
B. Not Mastered

Answer: A

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

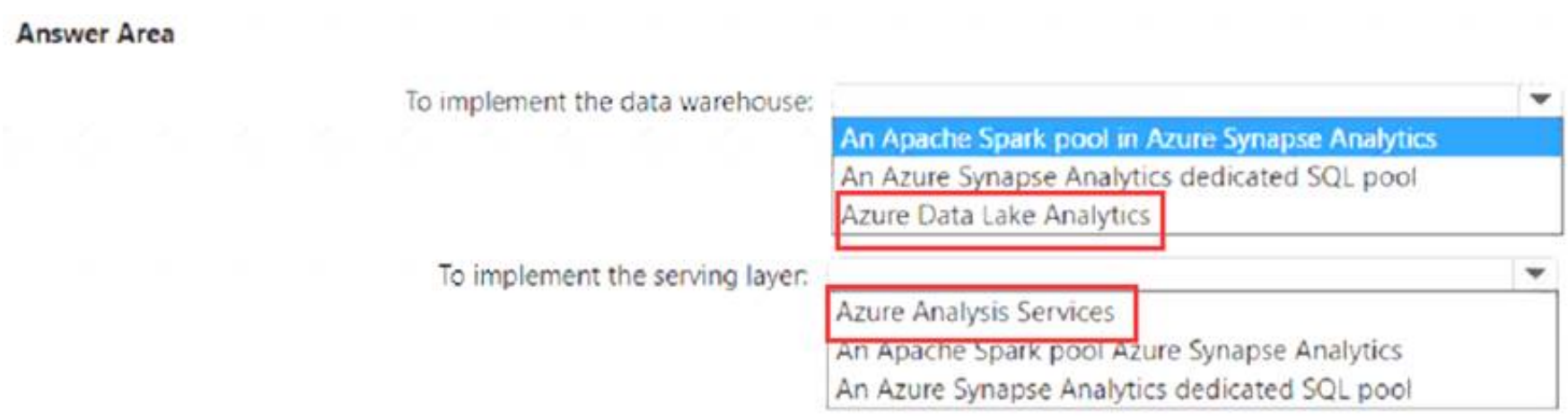
NEW QUESTION 313
- (Exam Topic 5)
You are designing a data pipeline that will integrate large amounts of data from multiple on-premises Microsoft SQL Server databases into an analytics platform in Azure. The pipeline will include the following actions:
• Database updates will be exported periodically 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



A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 317
- (Exam Topic 5)
You have an Azure subscription named Sub1 that is linked to an Azure AD tenant named contoso.com.
You plan to implement two ASP.NET Core apps named App1 and App2 that will be deployed to 100 virtual machines in Sub1. Users will sign in to App1 and App2 by using their contoso.com credentials.
App1 requires read permissions to access the calendar of the signed-m user. App2 requires write permissions to access the calendar of the signed-in user.
You need to recommend an authentication and authorization solution for the apps. The solution must meet the following requirements:
• Use the principle of least privilege.
• Minimize administrative effort
What should you include in the recommendation? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one pent.

A. Mastered
B. Not Mastered

Answer: A

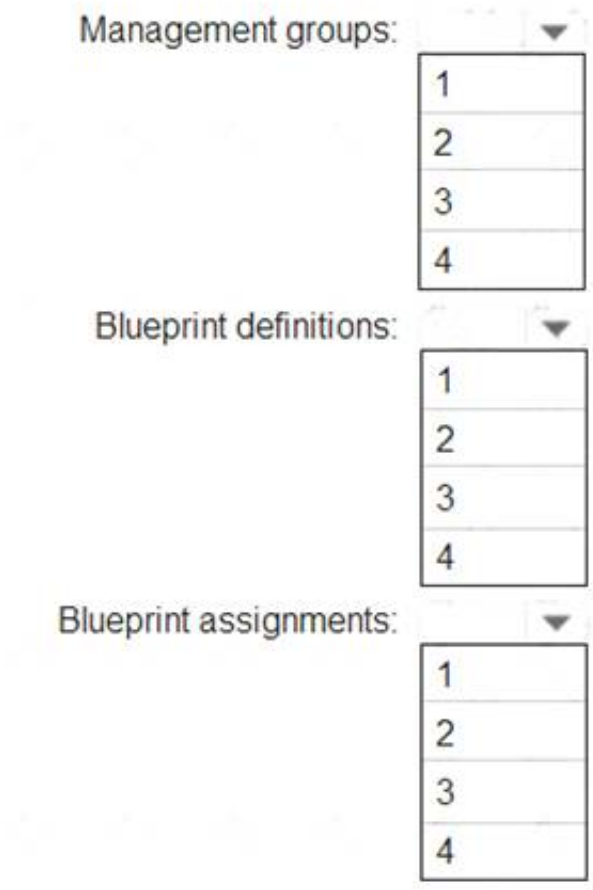
Explanation:
Graphical user interface, text, application Description automatically generated

NEW QUESTION 318
- (Exam Topic 5)
Your company has the divisions shown in the following table.

Division	Azure subscription	Azure Active Directory (Azure AD) tenant
East	Sub1, Sub2	East.contoso.com
West	Sub3, Sub4	West.contoso.com

You plan to deploy a custom application to each subscription. The application will contain the following:
- A resource group
- An Azure web app
- Custom role assignments
- An Azure Cosmos DB account

You need to use Azure Blueprints to deploy the application to each subscription.
What is the minimum number of objects required to deploy the application? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.



A. Mastered
B. Not Mastered

Answer: A

Explanation:
Box 1: 2
One management group for East, and one for West.
When creating a blueprint definition, you'll define where the blueprint is saved. Blueprints can be saved to a management group or subscription that you have Contributor access to. If the location is a management group, the blueprint is available to assign to any child subscription of that management group.
Box 2: 2
Box 3: 4
One assignment for each subscription.
"Assigning a blueprint definition to a management group means the assignment object exists at the management group. The deployment of artifacts still targets a subscription. To perform a management group assignment, the Create Or Update REST API must be used and the request body must include a value for properties.scope to define the target subscription."
https://docs.microsoft.com/en-us/azure/governance/blueprints/overview#blueprint-assignment

NEW QUESTION 320
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