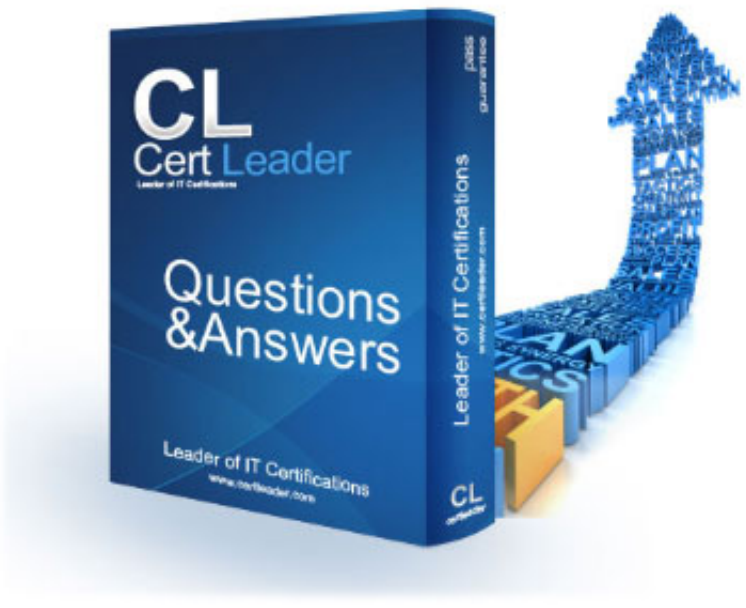
AZ-305 Dumps

Designing Microsoft Azure Infrastructure Solutions

https://www.certleader.com/AZ-305-dumps.html



NEW QUESTION 1
- (Exam Topic 1)
You plan to migrate App1 to Azure. The solution must meet the authentication and authorization requirements. Which type of endpoint should App1 use to obtain an access token?

A. Azure Instance Metadata Service (IMDS)
B. Azure AD
C. Azure Service Management
D. Microsoft identity platform

Answer: D

Explanation:
Scenario: To access the resources in Azure, App1 must use the managed identity of the virtual machines that will host the app.
Managed identities provide an identity for applications to use when connecting to resources that support Azure Active Directory (Azure AD) authentication.
Applications may use the managed identity to obtain Azure AD tokens.
Reference:
https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/overview

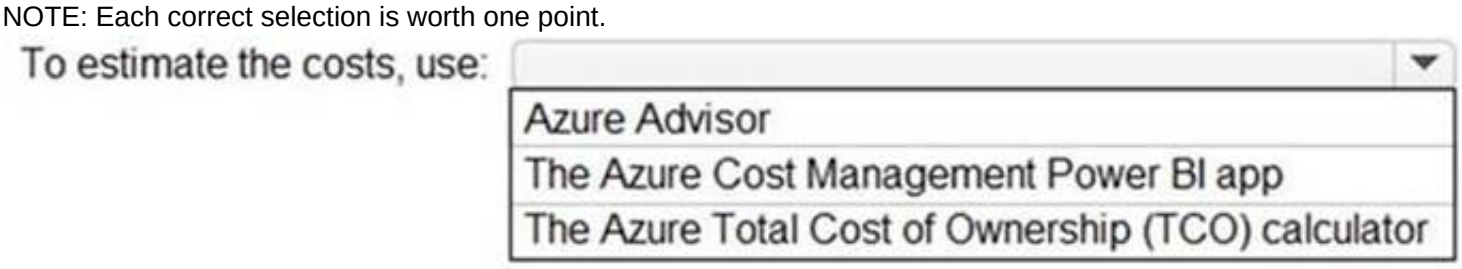
NEW QUESTION 2
- (Exam Topic 1)
You migrate App1 to Azure. You need to ensure that the data storage for App1 meets the security and compliance requirement
What should you do?

A. Create an access policy for the blob
B. Modify the access level of the blob service.
C. Implement Azure resource locks.
D. Create Azure RBAC assignments.

Answer: A

Explanation:
Scenario: 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.
As an administrator, you can lock a subscription, resource group, or resource to prevent other users in your organization from accidentally deleting or modifying critical resources. The lock overrides any permissions the user might have.
Reference:
https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/lock-resources

NEW QUESTION 3
- (Exam Topic 1)
You plan to migrate App1 to Azure.
You need to estimate the compute costs for App1 in Azure. The solution must meet the security and compliance requirements.
What should you use to estimate the costs, and what should you implement to minimize the costs? 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 Description automatically generated
Box 1: The Azure Total Cost of Ownership (TCO) Calculator
The Total Cost of Ownership (TCO) Calculator estimates the cost savings you can realize by migrating your workloads to Azure.
Note: The TCO Calculator recommends a set of equivalent services in Azure that will support your applications. Our analysis will show each cost area with an estimate of your on-premises spend versus your spend in Azure. There are several cost categories that either decrease or go away completely when you move workloads to the cloud.
Box 2: Azure Hybrid Benefit
Azure Hybrid Benefit is a licensing benefit that helps you to significantly reduce the costs of running your workloads in the cloud. It works by letting you use your on-premises Software Assurance-enabled Windows Server and SQL Server licenses on Azure. And now, this benefit applies to RedHat and SUSE Linux subscriptions, too.
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. Reference:

https://azure.microsoft.com/en-us/pricing/tco/ https://azure.microsoft.com/en-us/pricing/hybrid-benefit/

NEW QUESTION 4
- (Exam Topic 2)
You need to recommend a strategy for the web tier of WebApp1. The solution must minimize What should you recommend?

A. Create a runbook that resizes virtual machines automatically to a smaller size outside of business hours.
B. Configure the Scale Up settings for a web app.
C. Deploy a virtual machine scale set that scales out on a 75 percent CPU threshold.
D. Configure the Scale Out settings for a web app.

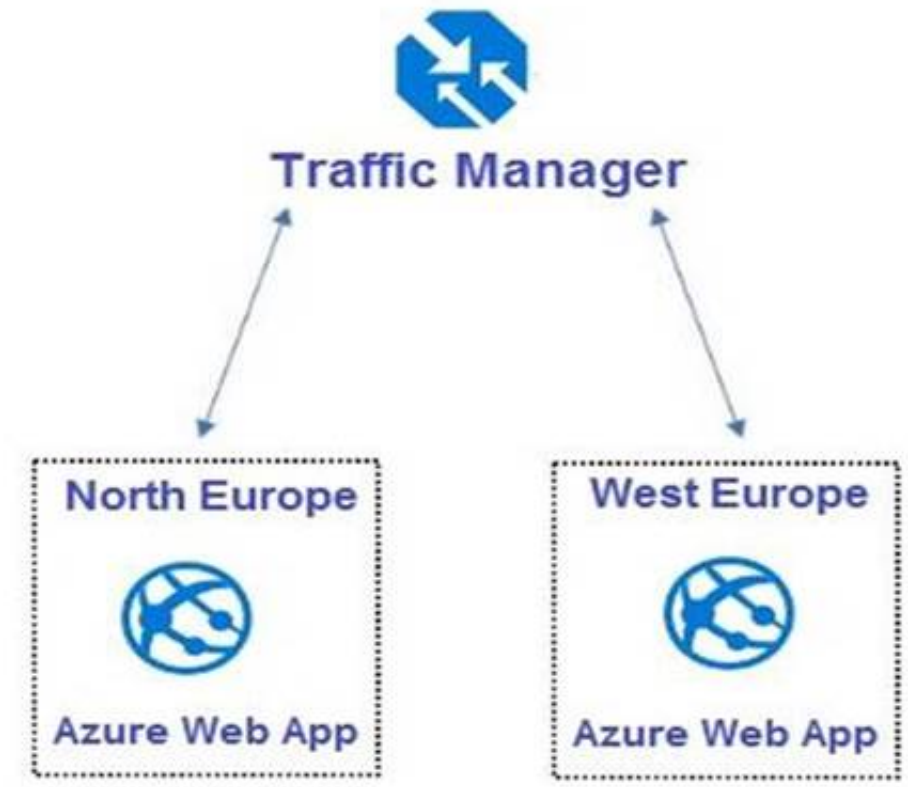
Answer: A

NEW QUESTION 5
- (Exam Topic 2)
You need to recommend a data storage strategy for WebApp1. What should you include in in the recommendation?

A. an Azure SQL Database elastic pool
B. a vCore-based Azure SQL database
C. an Azure virtual machine that runs SQL Server
D. a fixed-size DTU AzureSQL database.

Answer: B

NEW QUESTION 6
- (Exam Topic 2)
You design a solution for the web tier of WebApp1 as shown in the exhibit.



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

Statements	Yes	No
The design supports the technical requirements for redundancy.	○	○
The design supports autoscaling.	○	○
The design requires a manual configuration if an Azure region fails.	○	○

A. Mastered
B. Not Mastered

Answer: A

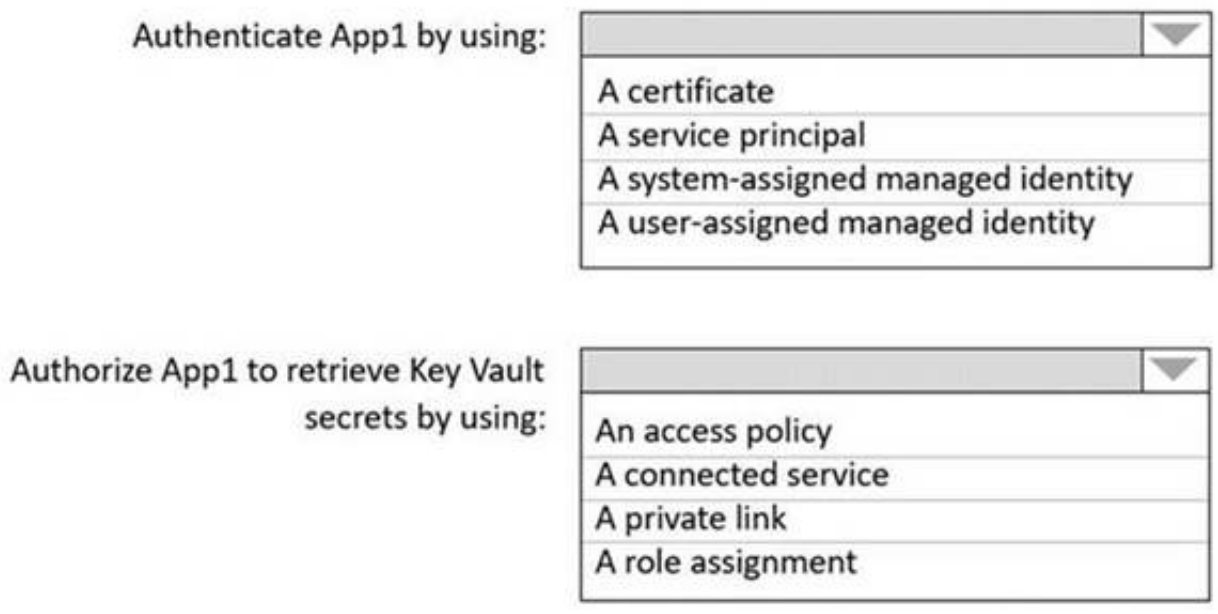
Explanation:
Box 1: Yes
Any new deployments to Azure must be redundant in case an Azure region fails.
Traffic Manager uses DNS to direct client requests to the most appropriate service endpoint based on a
traffic-routing method and the health of the endpoints. An endpoint is any Internet-facing service hosted inside or outside of Azure. Traffic Manager provides a range of traffic-routing methods and endpoint monitoring options to suit different application needs and automatic failover models. Traffic Manager is resilient to failure, including the failure of an entire Azure region.
Box 2: Yes
Recent changes in Azure brought some significant changes in autoscaling options for Azure Web Apps (i.e. Azure App Service to be precise as scaling happens on App Service plan level and has effect on all Web Apps running in that App Service plan).
Box 3: No
Traffic Manager provides a range of traffic-routing methods and endpoint monitoring options to suit different application needs and automatic failover models. Traffic Manager is resilient to failure, including the failure of an entire Azure region.
Reference:
https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-overview https://blogs.msdn.microsoft.com/hsirtl/2017/07/03/autoscaling-azure-web-apps/

NEW QUESTION 7
- (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 8
- (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.



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 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

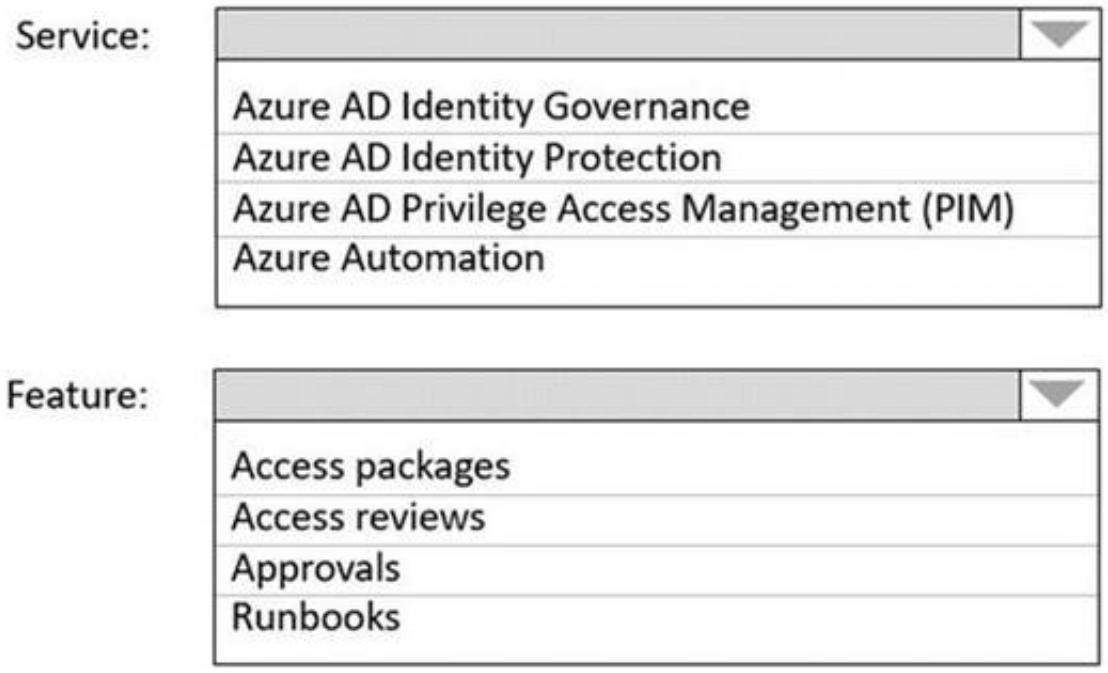
Answer: A

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)
What should you implement to meet the identity requirements? 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:
Requirements: Identity Requirements
Contoso identifies the following requirements for managing Fabrikam access to resources:
Every month, an account manager at Fabrikam must review which Fabrikam users have access permissions to App1. Accounts that no longer need permissions must be removed as guests.
The solution must minimize development effort.
Box 1: The Azure AD Privileged Identity Management (PIM) When should you use access reviews?
Too many users in privileged roles: It's a good idea to check how many users have administrative access, how many of them are Global Administrators, and if there are any invited guests or partners that have not been removed after being assigned to do an administrative task. You can recertify the role assignment users in Azure AD roles such as Global Administrators, or Azure resources roles such as User Access Administrator in the Azure AD Privileged Identity Management (PIM) experience.
Box 2: Access reviews
Azure Active Directory (Azure AD) access reviews enable organizations to efficiently manage group memberships, access to enterprise applications, and role assignments. User's access can be reviewed on a regular basis to make sure only the right people have continued access.
Reference:
https://docs.microsoft.com/en-us/azure/active-directory/governance/access-reviews-overview

NEW QUESTION 14
- (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

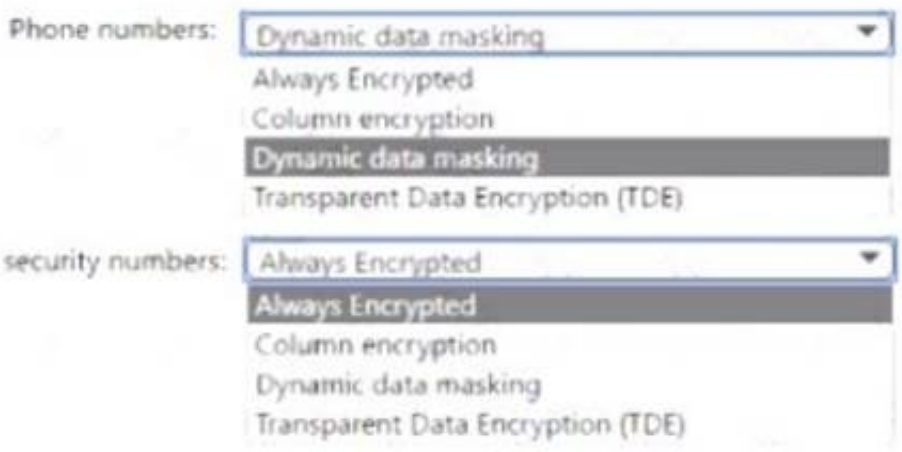
Answer: C

NEW QUESTION 16
- (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 create an Azure Recovery Services vault. You then decide to install the Azure Backup agent and then schedule the backup. Would this meet the requirement?

A. Yes
B. No

Answer: A

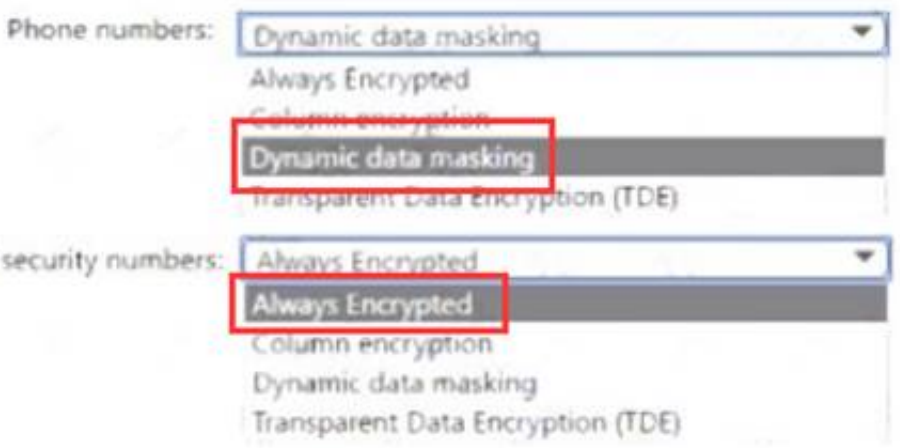
NEW QUESTION 17
- (Exam Topic 5)
You have an Azure subscription. The subscription contains an Azure SQL managed instance that stores employee details, including social security numbers and phone numbers.
You need to configure the managed instance to meet the following requirements:
• The helpdesk team 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
Answer Area



A. Mastered
B. Not Mastered

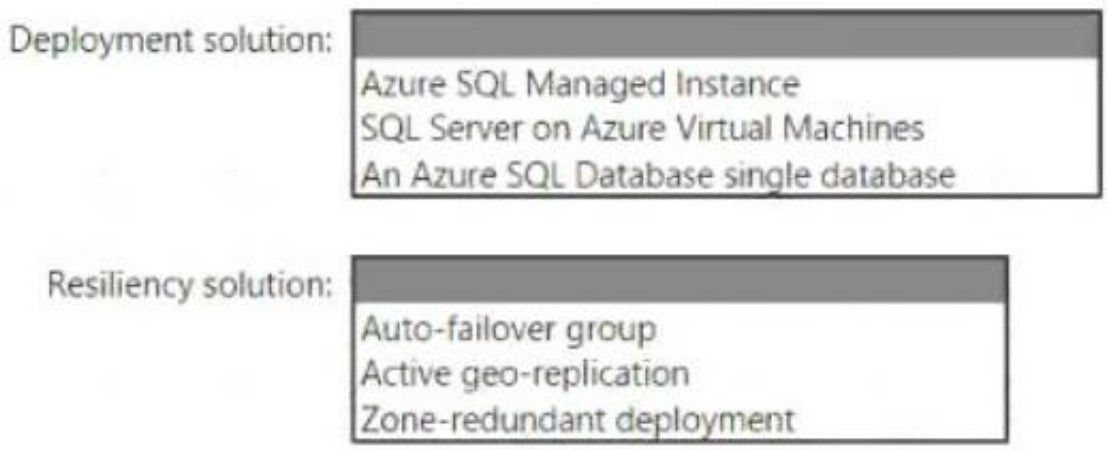
Answer: A

Explanation:
Answer Area



NEW QUESTION 21
- (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:
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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 25
- (Exam Topic 5)
You need to deploy resources to host a stateless web app in an Azure subscription. The solution must meet the following requirements:
• Provide access to the full .NET framework.
• Provide redundancy if an Azure region fails.
• Grant administrators access to the operating system to install custom application dependencies. Solution: You deploy a web app in an Isolated App Service plan.
Does this meet the goal?

A. Yes
B. No

Answer: B

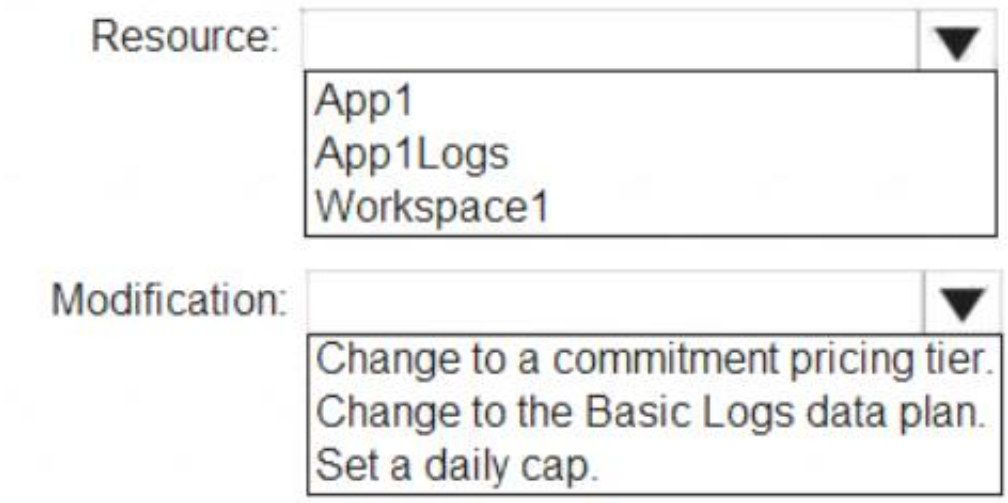
Explanation:
Instead, you should deploy an Azure virtual machine to two Azure regions, and you create a Traffic Manager profile.

NEW QUESTION 30
- (Exam Topic 5)
You have an Azure subscription that contains the resources shown in the following table.

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

Log files from App1 are ingested to App 1 Logs. An average of 120 GB of log data is ingested per day. You configure an Azure Monitor alert that will be triggered if the App1 logs contain error messages.
You need to minimize the Log Analytics costs associated with App1. The solution must meet the following requirements:
• Ensure that all the log files from App1 are ingested to App 1 Logs.
• Minimize the impact on the Azure Monitor alert.
Which resource should you modify, and which modification should you perform? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Answer Area



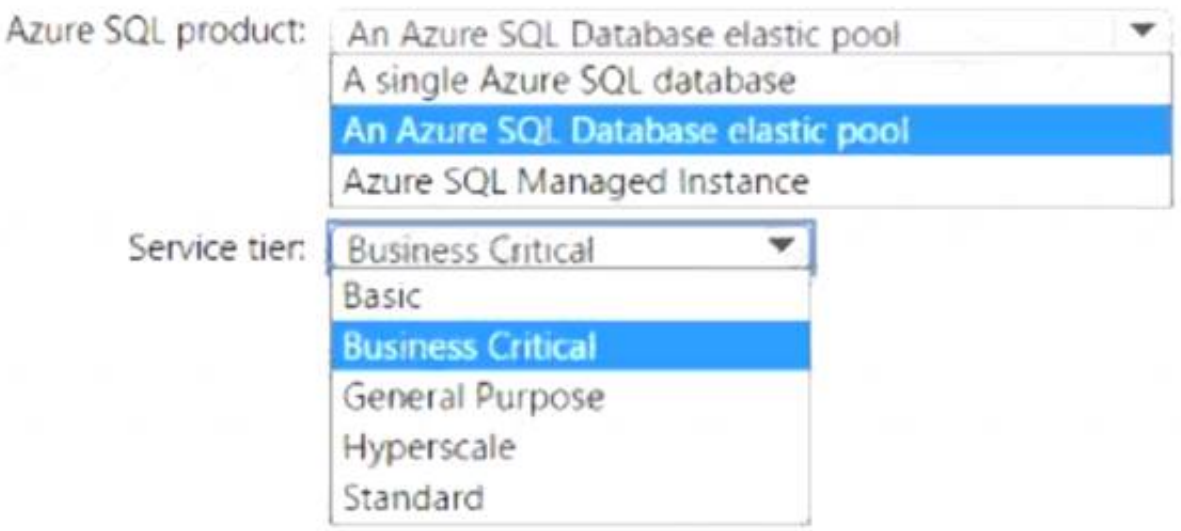
A. Mastered
B. Not Mastered

Answer: A

Explanation:
A screenshot of a computer Description automatically generated

NEW QUESTION 34
- (Exam Topic 5)
You plan to use Azure SQL as a database platform.
You need to recommend an Azure SQL product and service tier that meets the following requirements:
• Automatically scales compute resources based on the workload demand
• Provides per second billing
What should you recommend? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Answer Area



A. Mastered
B. Not Mastered

Answer: A

Explanation:
A screenshot of a computer Description automatically generated
"Serverless is a compute tier for single databases in Azure SQL Database that automatically scales compute based on workload demand and bills for the amount of compute used per second. The serverless compute tier is available in the General Purpose service tier and currently in preview in the Hyperscale service tier."
https://learn.microsoft.com/en-us/azure/azure-sql/database/serverless-tier-overview

NEW QUESTION 39
- (Exam Topic 5)
Your company deploys several Linux and Windows virtual machines (VMs) to Azure. The VMs are deployed with the Microsoft Dependency Agent and the Microsoft Monitoring Agent installed by using Azure VM extensions. On-premises connectivity has been enabled by using Azure ExpressRoute.
You need to design a solution to monitor the VMs.
Which Azure monitoring services should you use? To answer, select the appropriate Azure monitoring services in the answer area.
NOTE: Each correct selection is worth one point.

Scenario	Azure Monitoring Service
Analyze Network Security Group (NSG) flow logs for VMs attempting internet access.	Azure Network Watcher / Azure ExpressRoute Monitor / Azure Service Endpoint Monitor / Azure DNS Analytics
Visualize the VMs with their different processes and dependencies on other computers and external processes.	Azure Service Map / Azure Activity Log / Azure Service Health / Azure Advisor

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Graphical user interface, text, application, email Description automatically generated
Box 1: Azure Network Watcher
Traffic Analytics is a cloud-based solution that provides visibility into user and application activity in cloud networks. Traffic analytics analyzes Network Watcher network security group (NSG) flow logs to provide
insights into traffic flow in your Azure cloud. With traffic analytics, you can:

- Identify security threats to, and secure your network, with information such as open-ports, applications attempting internet access, and virtual machines (VM) connecting to rogue networks.
- Visualize network activity across your Azure subscriptions and identify hot spots.
- Understand traffic flow patterns across Azure regions and the internet to optimize your network deployment for performance and capacity.
- Pinpoint network misconfigurations leading to failed connections in your network.

Box 2: Azure Service Map
Service Map automatically discovers application components on Windows and Linux systems and maps the communication between services. With Service Map, you can view your servers in the way that you think of them: as interconnected systems that deliver critical services. Service Map shows connections between servers, processes, inbound and outbound connection latency, and ports across any TCP-connected architecture, with no configuration required other than the installation of an agent.
Reference:
https://docs.microsoft.com/en-us/azure/network-watcher/traffic-analytics https://docs.microsoft.com/en-us/azure/azure-monitor/insights/service-map

NEW QUESTION 41
- (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 42
- (Exam Topic 5)
You plan provision a High Performance Computing (HPC) cluster in Azure that will use a third-party scheduler.
You need to recommend a solution to provision and manage the HPC cluster node. What should you include in the recommendation?

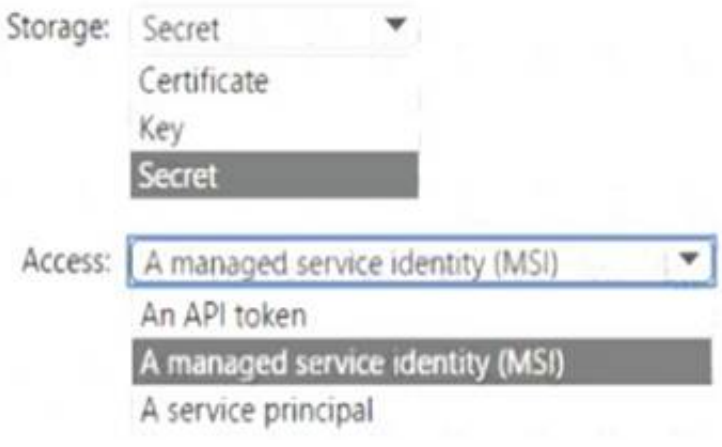
A. Azure Lighthouse
B. Azure CycleCloud
C. Azure Purview
D. Azure Automation

Answer: B

Explanation:
You can dynamically provision Azure HPC clusters with Azure CycleCloud. Azure CycleCloud is the simplest way to manage HPC workloads.
Note: Azure CycleCloud is an enterprise-friendly tool for orchestrating and managing High Performance Computing (HPC) environments on Azure. With CycleCloud, users can provision infrastructure for HPC systems, deploy familiar HPC schedulers, and automatically scale the infrastructure to run jobs efficiently at any scale. Through CycleCloud, users can create different types of file systems and mount them to the compute cluster nodes to support HPC workloads.
Reference:
https://docs.microsoft.com/en-us/azure/cyclecloud/overview

NEW QUESTION 46
- (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

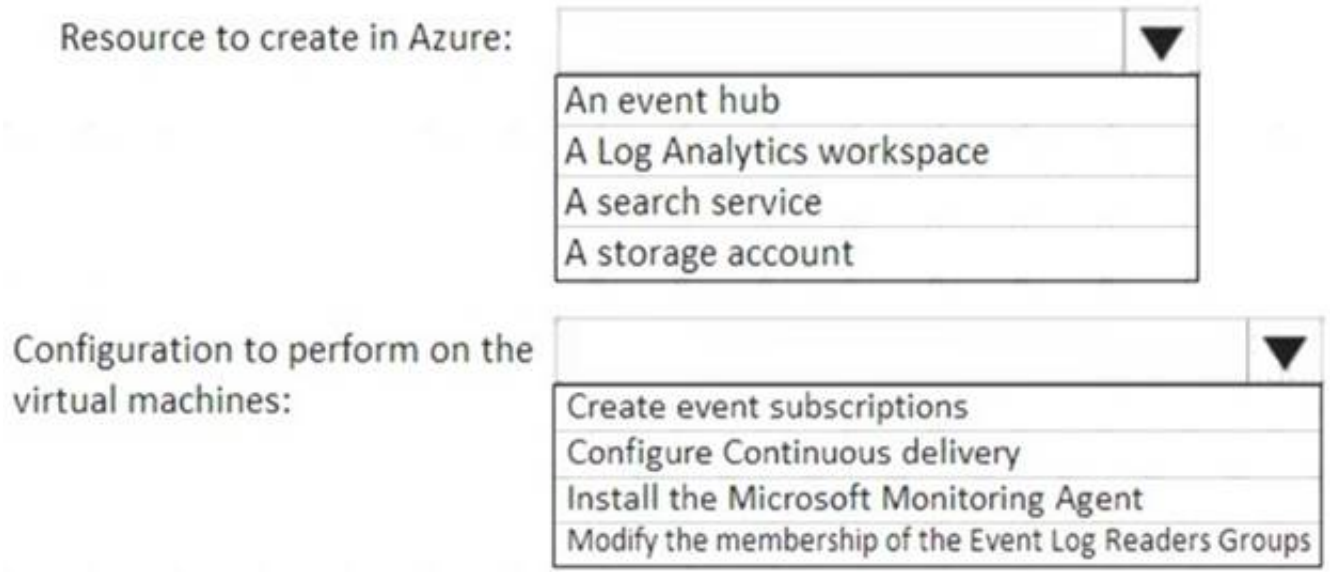
NEW QUESTION 50
- (Exam Topic 5)
You need to deploy resources to host a stateless web app in an Azure subscription. The solution must meet the following requirements:
• Provide access to the full .NET framework.
• Provide redundancy if an Azure region fails.
• Grant administrators access to the operating system to install custom application dependencies.
Solution: You deploy an Azure virtual machine to two Azure regions, and you deploy an Azure Application Gateway.
Does this meet the goal?

A. Yes
B. No

Answer: B

Explanation:
You need to deploy two Azure virtual machines to two Azure regions, but also create a Traffic Manager profile.

NEW QUESTION 54
- (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 55
- (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 59
- (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?

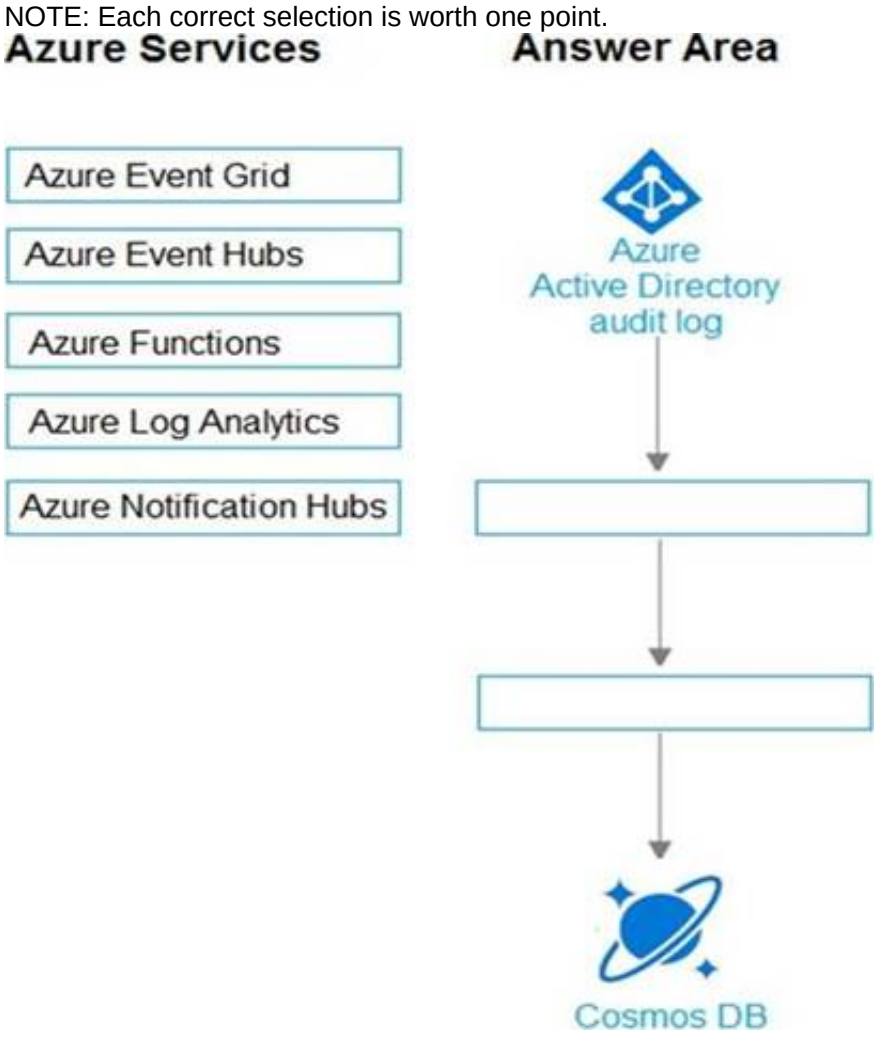
A. Virtual Kubetet
B. cluster autoscaler
C. virtual nodes
D. horizontal pod autoscaler

Answer: B

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

NEW QUESTION 61
- (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 63
- (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 an Azure policy to enforce the location of resource groups. Does this meet the goal?

A. Yes
B. No

Answer: A

NEW QUESTION 68
- (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 70
- (Exam Topic 5)
You are designing a microservices architecture that will be hosted in an Azure Kubernetes Service (AKS) cluster. Apps that will consume the microservices will be

hosted on Azure virtual machines. The virtual machines and the AKS cluster will reside on the same virtual network.
You need to design a solution to expose the microservices to the consumer apps. The solution must meet the following requirements:
• Ingress access to the microservices must be restricted to a single private IP address and protected by using mutual TLS authentication.
• The number of incoming microservice calls must be rate-limited.
• Costs must be minimized.
What should you include in the solution?

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

Answer: A

Explanation:
One option is to deploy APIM (API Management) inside the cluster VNet.
The AKS cluster and the applications that consume the microservices might reside within the same VNet, hence there is no reason to expose the cluster publicly as all API traffic will remain within the VNet. For these scenarios, you can deploy API Management into the cluster VNet. API Management Premium tier supports VNet deployment.
Reference:
https://docs.microsoft.com/en-us/azure/api-management/api-management-kubernetes

NEW QUESTION 72
- (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 75
- (Exam Topic 5)
You store web access logs data in Azure Blob storage. You plan to generate monthly reports from the access logs.
You need to recommend an automated process to upload the data to Azure SQL Database every month. What should you include in the recommendation?

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

Answer: A

Explanation:
Azure Data Factory is the platform that solves such data scenarios. It is the cloud-based ETL and data integration service that allows you to create data-driven workflows for orchestrating data movement and transforming data at scale. Using Azure Data Factory, you can create and schedule data-driven workflows (called pipelines) that can ingest data from disparate data stores. You can build complex ETL processes that transform data visually with data flows or by using compute services such as Azure HDInsight Hadoop, Azure Databricks, and Azure SQL Database.
Reference:
https://docs.microsoft.com/en-gb/azure/data-factory/introduction

NEW QUESTION 80
- (Exam Topic 5)
You have the Azure resources shown in the following table.

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

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

policy for the existing policies.
What is the minimum number of additional Azure Firewall policies you should create?

A. 1
B. 2
C. 3

Answer: B

Explanation:
Firewall policies work across regions and subscriptions. Place all your global configurations in the parent policy.
Note: Policies can be created in a hierarchy. You can create a parent/global policy that will contain configurations and rules that will apply to all/a number of firewall instances. Then you create a child policy that inherits from the parent; note that rules changes in the parent instantly appear in the child. The child is associated with a firewall and applies configurations/rules from the parent policy and the child policy instantly to the firewall.
Reference: https://aidanfinn.com/?p=22006

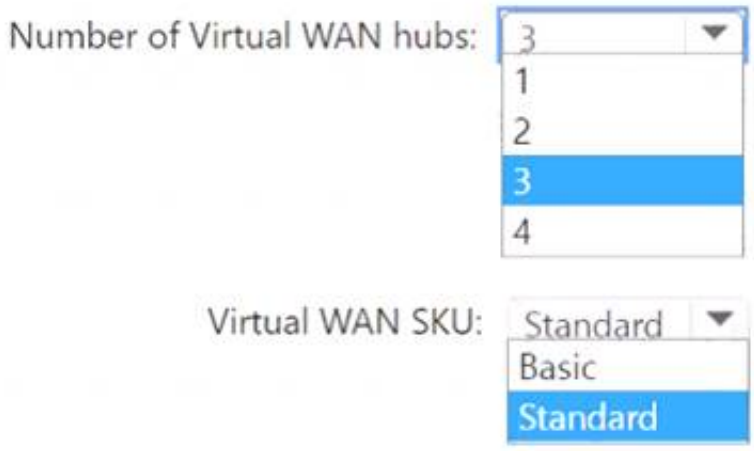
NEW QUESTION 82
- (Exam Topic 5)
You have an Azure subscription that contains 10 web apps. The apps are integrated with Azure AD and are accessed by users on different project teams.
The users frequently move between projects.
You need to recommend an access management solution for the web apps. The solution must meet the following requirements:
• The users must only have access to the app of the project to which they are assigned currently.
• Project managers must verify which users have access to their project s app and remove users that are no longer assigned to their project.
• Once every 30 days, the project managers must be prompted automatically to verify which users are assigned to the projects.
What should you include in the recommendation?

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

Answer: B

NEW QUESTION 87
- (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

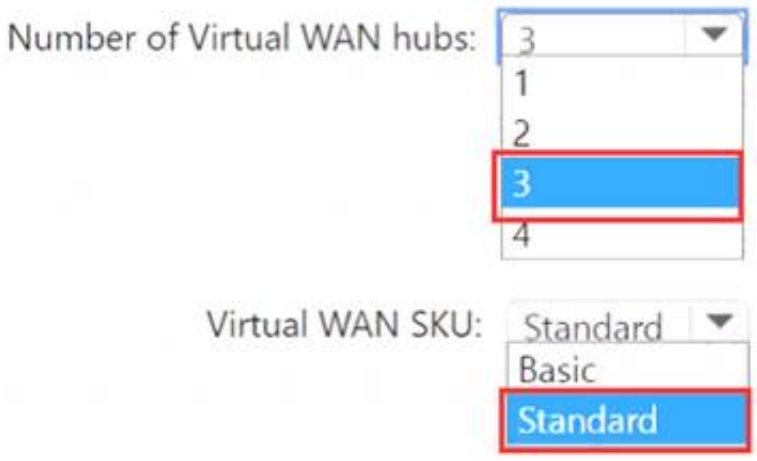


A. Mastered
B. Not Mastered

Answer: A

Explanation:

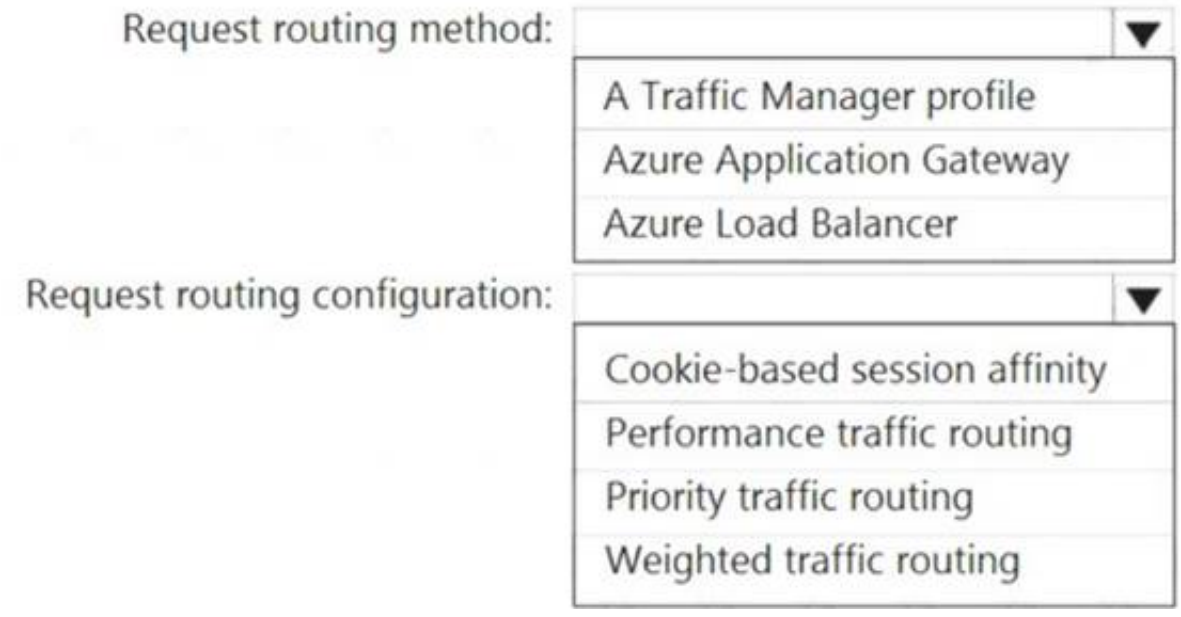
Answer Area



NEW QUESTION 90
- (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 94
- (Exam Topic 5)
You plan to deploy an Azure App Service web app that will have multiple instances across multiple Azure regions.
You need to recommend a load balancing service for the planned deployment. The solution must meet the following requirements:

- Maintain access to the app in the event of a regional outage.
- Support Azure Web Application Firewall (WAF).
- Support cookie-based affinity.
- Support URL routing.

What should you include in the recommendation?

A. Azure Front Door
B. Azure Load Balancer
C. Azure Traffic Manager
D. Azure Application Gateway

Answer: B

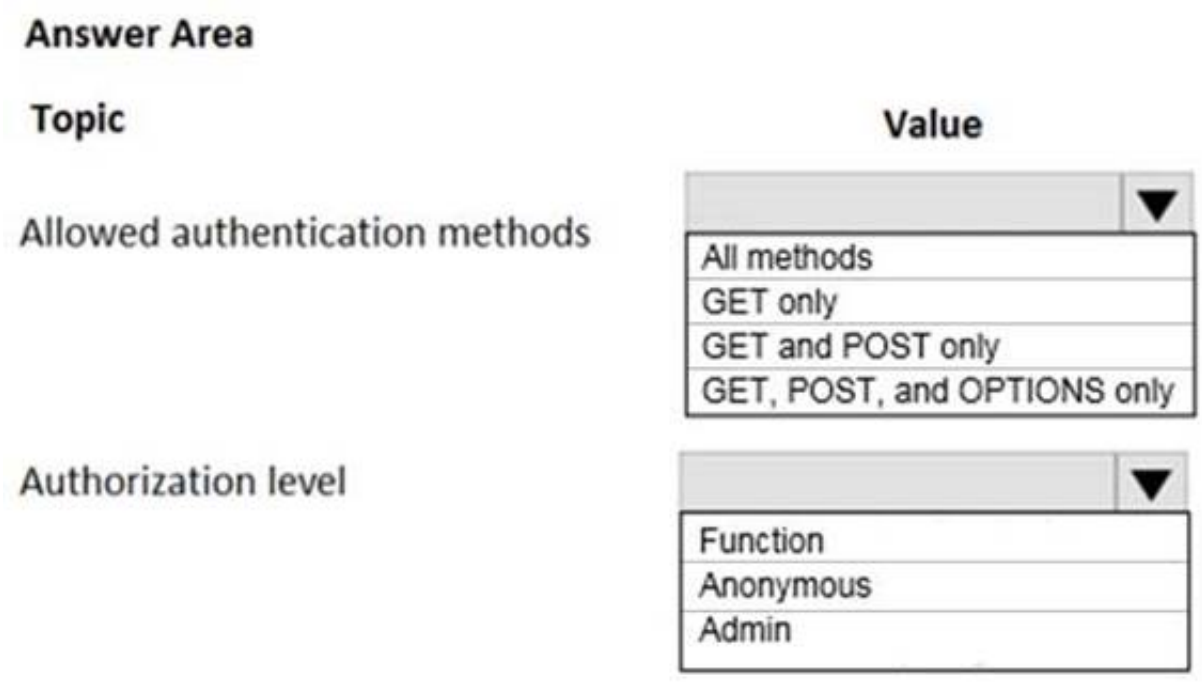
Explanation:
Azure Traffic Manager performs the global load balancing of web traffic across Azure regions, which have a regional load balancer based on Azure Application Gateway. This combination gets you the benefits of Traffic Manager many routing rules and Application Gateway's capabilities such as WAF, TLS termination, path-based routing, cookie-based session affinity among others.
Reference:

https://docs.microsoft.com/en-us/azure/application-gateway/features

NEW QUESTION 95
- (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 100
- (Exam Topic 5)
You have an Azure subscription. The subscription contains a tiered app named App1 that is distributed across multiple containers hosted in Azure Container Instances.
You need to deploy an Azure Monitor monitoring solution for App1. The solution must meet the following requirements:
• Support using synthetic transaction monitoring to monitor traffic between the App1 components.
• Minimize development effort.
What should you include in the solution?

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

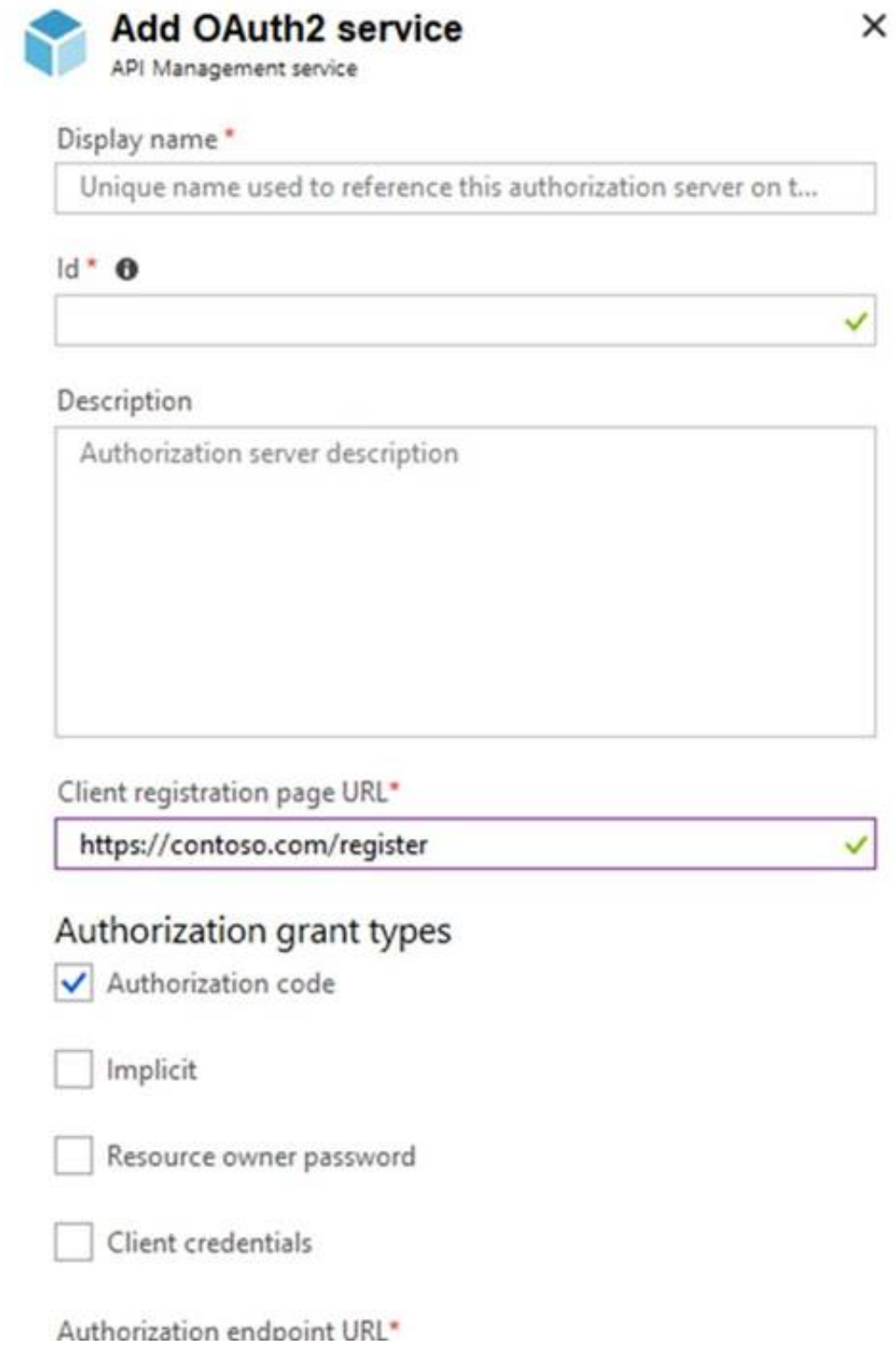
Answer: B

NEW QUESTION 104
- (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?

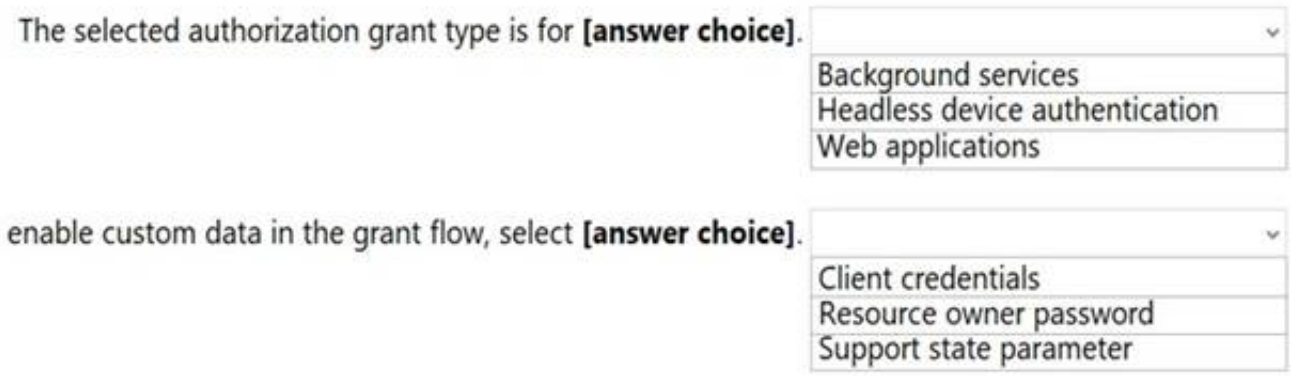
A. an Always On availability group that has premium storage disks and a distributed network name (DNN)
B. an Always On Failover Cluster Instance that has a virtual network name (VNN) and a premium file share
C. an Always On Failover Cluster Instance that has a virtual network name (VNN) and a standard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

Answer: A

NEW QUESTION 107
- (Exam Topic 5)
You configure OAuth2 authorization in API Management as shown in the following exhibit.



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



A. Mastered
B. Not Mastered

Answer: A

Explanation:
Graphical user interface, text, application, email Description automatically generated
Box 1: Web applications
The Authorization Code Grant Type is used by both web apps and native apps to get an access token after a user authorizes an app.
Note: The Authorization Code grant type is used by confidential and public clients to exchange an authorization code for an access token.
After the user returns to the client via the redirect URL, the application will get the authorization code from the URL and use it to request an access token.
Reference:
https://developer.okta.com/blog/2018/04/10/oauth-authorization-code-grant-type https://connect2id.com/products/server/docs/guides/client-registration

NEW QUESTION 108
- (Exam Topic 5)
Your company has an Azure Web App that runs via the Premium App Service Plan. A development team will be using the Azure Web App. You have to configure the Azure Web app so that it can fulfil the below requirements.
Provide the ability to switch the web app from the current version to a newer version

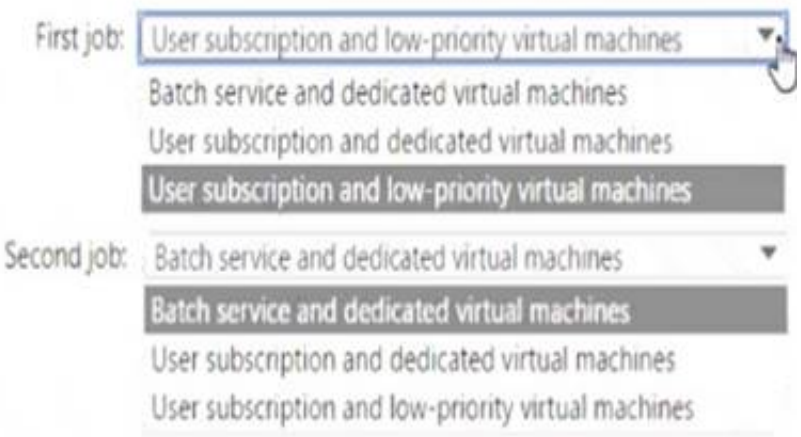
Provide developers with the ability to test newer versions of the application before the switch to the newer version occurs
Ensure that the application version can be rolled back Minimize downtime
Which of the following can be used for this requirement?

A. Create a new App Service Plan
B. Make use of deployment slots
C. Map a custom domain
D. Backup the Azure Web App

Answer: B

NEW QUESTION 110
- (Exam Topic 5)
You are designing a cost-optimized solution that uses Azure Batch to run two types of jobs on Linux nodes. The first job type will consist of short-running tasks for a development environment. The second job type will consist of long-running Message Passing Interface (MPI) applications for a production environment that requires timely job completion.
You need to recommend the pool type and node type for each job type. The solution must minimize compute charges and leverage Azure Hybrid Benefit whenever possible.
What should you recommend? 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:
Graphical user interface, text, application Description automatically generated

NEW QUESTION 113
- (Exam Topic 5)
You are designing a message application that will run on an on-premises Ubuntu virtual machine. The application will use Azure Storage queues.
You need to recommend a processing solution for the application to interact with the storage queues. The solution must meet the following requirements:
- Create and delete queues daily.
- Be scheduled by using a CRON job.
- Upload messages every five minutes.

What should developers use to interact with the queues?

A. Azure CLI
B. AzCopy
C. Azure Data Factory
D. .NET Core

Answer: D

Explanation:
Reference:
https://docs.microsoft.com/en-us/azure/storage/queues/storage-tutorial-queues

NEW QUESTION 116
- (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 117
- (Exam Topic 5)
You are designing an Azure solution.
The network traffic for the solution must be securely distributed by providing the following features:

- HTTPS protocol
- Round robin routing
- SSL offloading

You need to recommend a load balancing option. What should you recommend?

A. Azure Load Balancer
B. Azure Traffic Manager
C. Azure Internal Load Balancer (ILB)
D. Azure Application Gateway

Answer: D

Explanation:
If you are looking for Transport Layer Security (TLS) protocol termination ("SSL offload") or per-HTTP/HTTPS
request, application-layer processing, review Application Gateway.
Application Gateway is a layer 7 load balancer, which means it works only with web traffic (HTTP, HTTPS, WebSocket, and HTTP/2). It supports capabilities such as SSL termination, cookie-based session affinity, and round robin for load-balancing traffic. Load Balancer load-balances traffic at layer 4 (TCP or UDP).
References:
https://docs.microsoft.com/en-us/azure/application-gateway/application-gateway-faq

NEW QUESTION 119
- (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 122
- (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

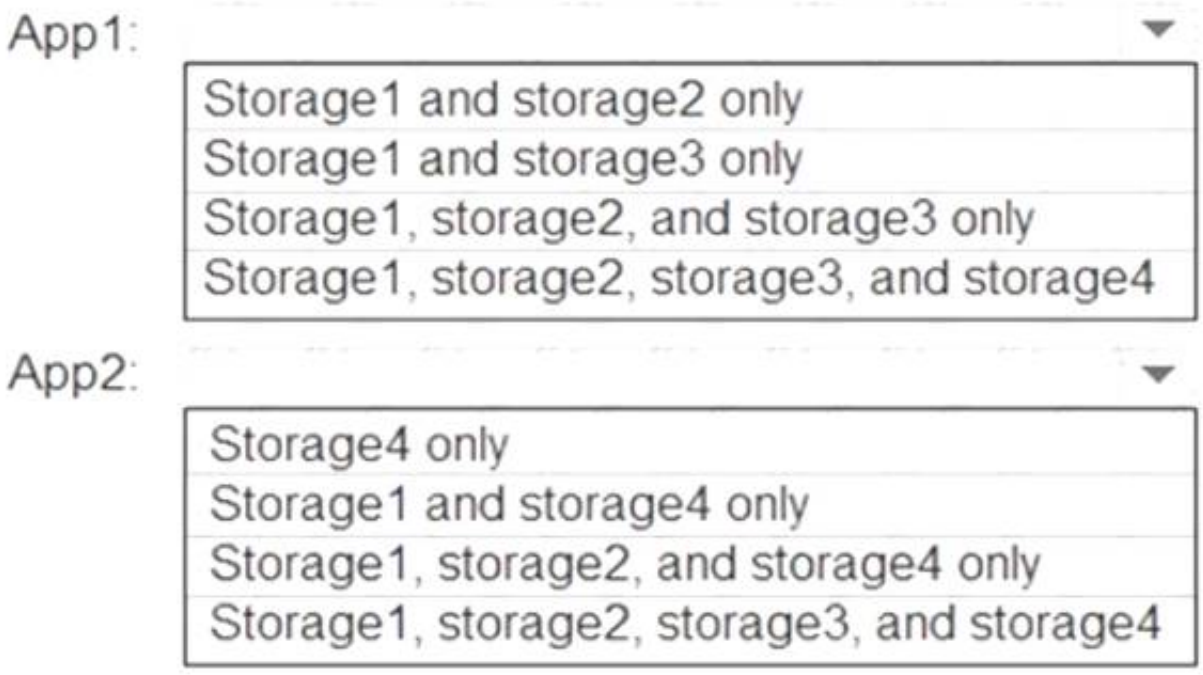
NEW QUESTION 127
- (Exam Topic 5)
You have an Azure subscription that contains the storage accounts shown in the following table.

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.



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 129
- (Exam Topic 5)
Your company plans to publish APIs for its services by using Azure API Management. You discover that service responses include the AspNet-Version header.
You need to recommend a solution to remove AspNet-Version from the response of the published APIs. What should you include in the recommendation?

A. a new product
B. a modification to the URL scheme
C. a new policy
D. a new revision

Answer: C

Explanation:
References:
https://docs.microsoft.com/en-us/azure/api-management/transform-api

NEW QUESTION 134
- (Exam Topic 5)
You have an application that is used by 6,000 users to validate their vacation requests. The application manages its own credential
Users must enter a username and password to access the application. The application does NOT support identity providers.
You plan to upgrade the application to use single sign-on (SSO) authentication by using an Azure Active Directory (Azure AD) application registration.
Which SSO method should you use?

A. password-based
B. OpenID Connect
C. header-based
D. SAML

Answer: A

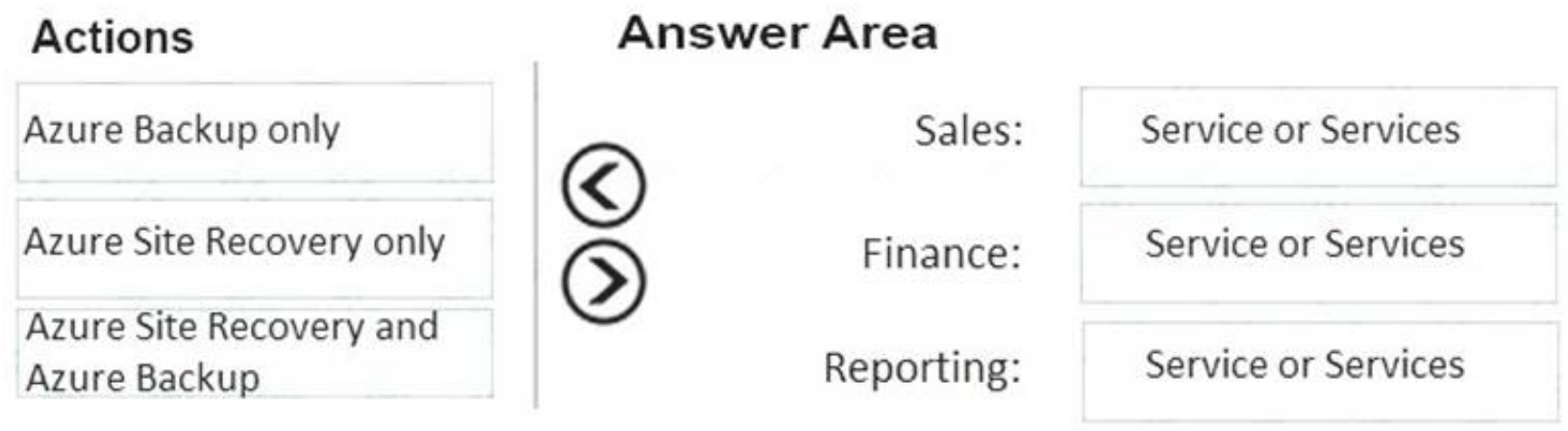
NEW QUESTION 138
- (Exam Topic 5)
Your company has 20 web APIs that were developed in-house.
The company is developing 10 web apps that will use the web APIs. The web apps and the APIs are registered in the company s Azure AD tenant. The web APIs are published by using Azure API Management.
You need 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 141
- (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

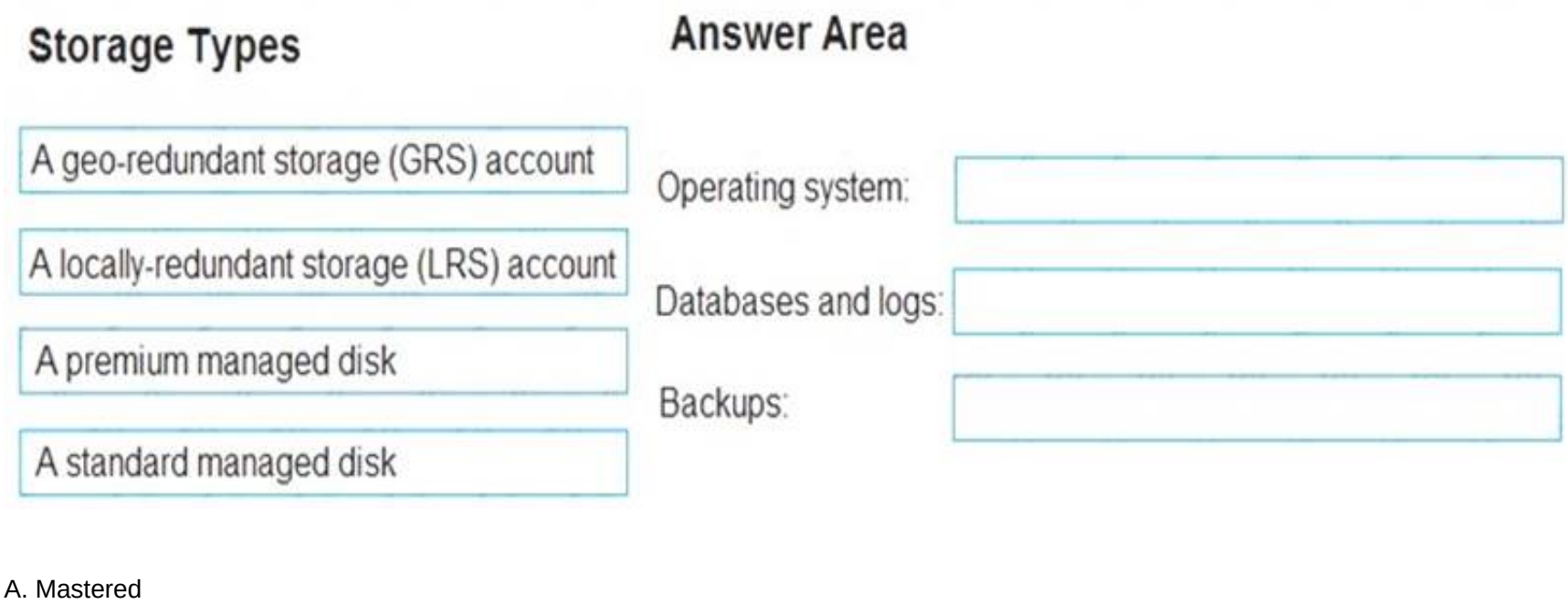
NEW QUESTION 142
- (Exam Topic 5)
You are planning an Azure solution that will host production databases for a high-performance application. The solution will include the following components:

- Two virtual machines that will run Microsoft SQL Server 2016, will be deployed to different data centers in the same Azure region, and will be part of an Always On availability group.
- SQL Server data that will be backed up by using the Automated Backup feature of the SQL Server IaaS Agent Extension (SQLIaaSExtension)

You identify the storage priorities for various data types as shown in the following table.

Data type	Storage priority
Operating system	Speed and availability
Databases and logs	Speed and availability
Backups	Lowest cost

Which storage type should you recommend for each data type? To answer, drag the appropriate storage types to the correct data types. Each storage type 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, text, application, email Description automatically generated

NEW QUESTION 144
- (Exam Topic 5)
You have an Azure subscription that contains the resources shown in the following table.

Name	Type	Kind	Location
storage1	Azure Storage account	Storage	East US
storage2	Azure Storage account	StorageV2	East US
Workspace1	Azure Log Analytics workspace	*Not applicable*	East US
Workspace2	Azure Log Analytics workspace	*Not applicable*	East US
Hub1	Azure event hub	*Not applicable*	East US

You create an Azure SQL database named DB1 that is hosted in the East US region.
To DB1, you add a diagnostic setting named Settings1. Settings1 archives SQLInsights to storage1 and sends SQLInsights to Workspace1.
For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selections is worth one point.

Statements	Yes	No
You can add a new diagnostic setting that archives SQLInsights logs to storage2.	○	○
You can add a new diagnostic setting that sends SQLInsights logs to Workspace2.	○	○
You can add a new diagnostic setting that sends SQLInsights logs to Hub1.	○	○

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Box 1: Yes
Box 2: Yes
Box 3: Yes
For more information on Azure SQL diagnostics , you can visit the below link
https://docs.microsoft.com/en-us/azure/azure-sql/database/metrics-diagnostic-telemetry-logging-streaming-expo

NEW QUESTION 145
- (Exam Topic 5)
You have an on-premises file server that stores 2 TB of data files.
You plan to move the data files to Azure Blob storage in the Central Europe region.
You need to recommend a storage account type to store the data files and a replication solution for the storage account. The solution must meet the following requirements:

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

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

Account type:
- Blob storage
- Storage (general purpose v1)
- StorageV2 (general purpose v2)

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

A. Mastered
B. Not Mastered

Answer: A

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

Account Type: StorageV2
Replication solution: Zone-redundant storage (ZRS)

NEW QUESTION 147
- (Exam Topic 5)
You have to design a Data Engineering solution for your company. The company currently has an Azure subscription. They also have application data hosted in a database on a Microsoft SQL Server hosted in their on-premises data center server. They want to implement the following requirements Transfer transactional data from the on-premises SQL server onto a data warehouse in Azure. Data needs to be transferred every day in the night as a scheduled job
A managed Spark cluster needs to be in place for data engineers to perform analysis on the data stored in the SQL data warehouse. Here the data engineers should have the ability to develop notebooks in Scale, R and Python.
They also need to have a data lake store in place for the ingestion of data from multiple data sources Which of the following would the use for hosting the data warehouse in Azure?

A. Azure Data Factory
B. Azure Databricks
C. Azure Data Lake Gen2 Storage accounts
D. Azure Synapse Analytics

Answer: D

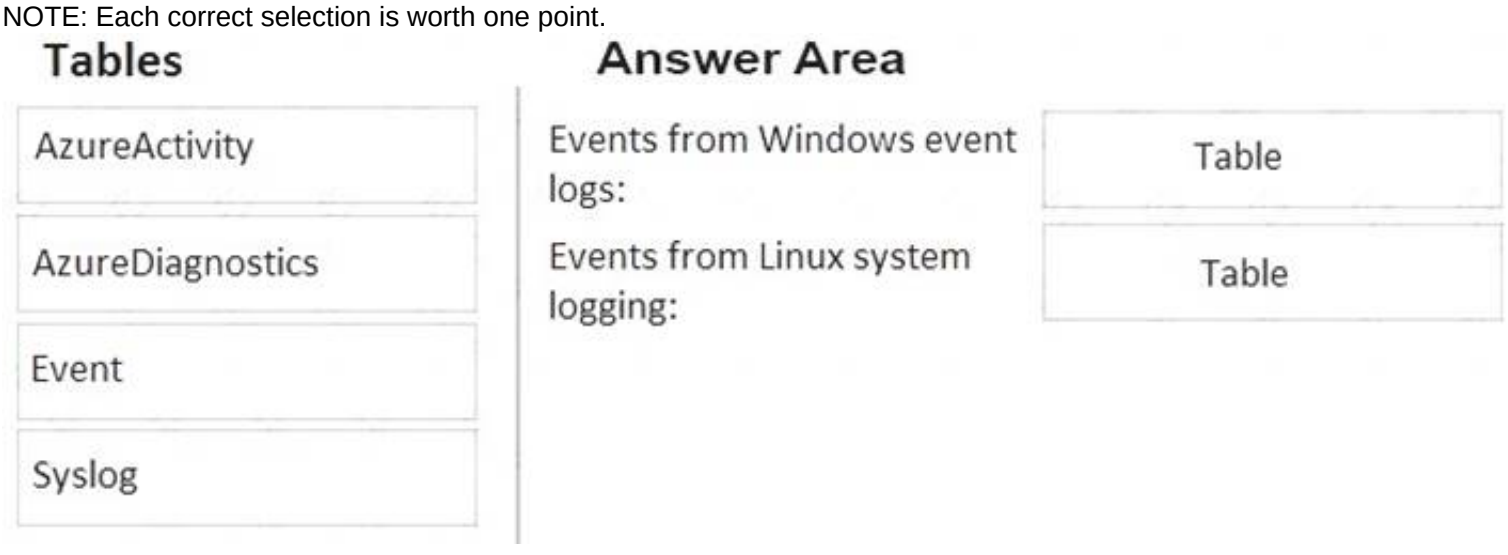
NEW QUESTION 150
- (Exam Topic 5)
You ate designing a SQL database solution. The solution will include 20 databases that will be 20 GB each and have varying usage patterns. You need to recommend a database platform to host the databases. The solution must meet the following requirements:
• The compute 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 152
- (Exam Topic 5)
You have an Azure subscription. The subscription contains Azure virtual machines that run Windows Server 2016 and Linux.
You need to use Azure Log Analytics design an alerting strategy for security-related events.
Which Log Analytics tables should you query? To answer, drag the appropriate tables to the correct log types. Each value 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, table Description automatically generated with medium confidence
https://docs.microsoft.com/en-us/azure/azure-monitor/platform/log-analytics-agent
Windows Event logs --> Information sent to the Windows event logging system. Syslog --> Information sent to the Linux event logging system.

NEW QUESTION 154
- (Exam Topic 5)
You have an Azure subscription that contains two applications named App1 and App2. App1 is a sales processing application. When a transaction in App1 requires shipping, a message is added to an Azure Storage account queue, and then App2 listens to the queue for relevant transactions.
In the future, additional applications will be added that will process some of the shipping requests based on the specific details of the transactions.
You need to recommend a replacement for the storage account queue to ensure that each additional application will be able to read the relevant transactions.
What should you recommend?

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

Answer: B

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

NEW QUESTION 158
- (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 Traffic Manager to provide access to the app. Does this meet the goal?

A. Yes
B. No

Answer: B

NEW QUESTION 161
- (Exam Topic 5)
Your company deploys several virtual machines on-premises and to Azure. ExpressRoute is 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 from the Azure virtual machines to the on-premises virtual machines.
Solution: Use Azure Advisor. Does this meet the goal?

A. Yes
B. No

Answer: B

NEW QUESTION 162
- (Exam Topic 5)
You need to recommend a data storage solution that meets the following requirements:
• Ensures that applications can access the data by using a REST connection
• Hosts 20 independent tables of varying sizes and usage patterns
• Automatically replicates the data to a second Azure region
• Minimizes costs
What should you recommend?

A. an Azure SQL Database elastic pool that uses active geo-replication
B. tables in an Azure Storage account that use read-access geo-redundant storage (RA-GRS)
C. an Azure SQL database that uses active geo-replication
D. tables in an Azure Storage account that use geo-redundant storage (GRS)

Answer: D

NEW QUESTION 165
- (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

Service:
- Azure SQL Database
- Azure SQL Managed Instance
- Azure Synapse Analytics
- SQL Server on Azure Virtual Machines

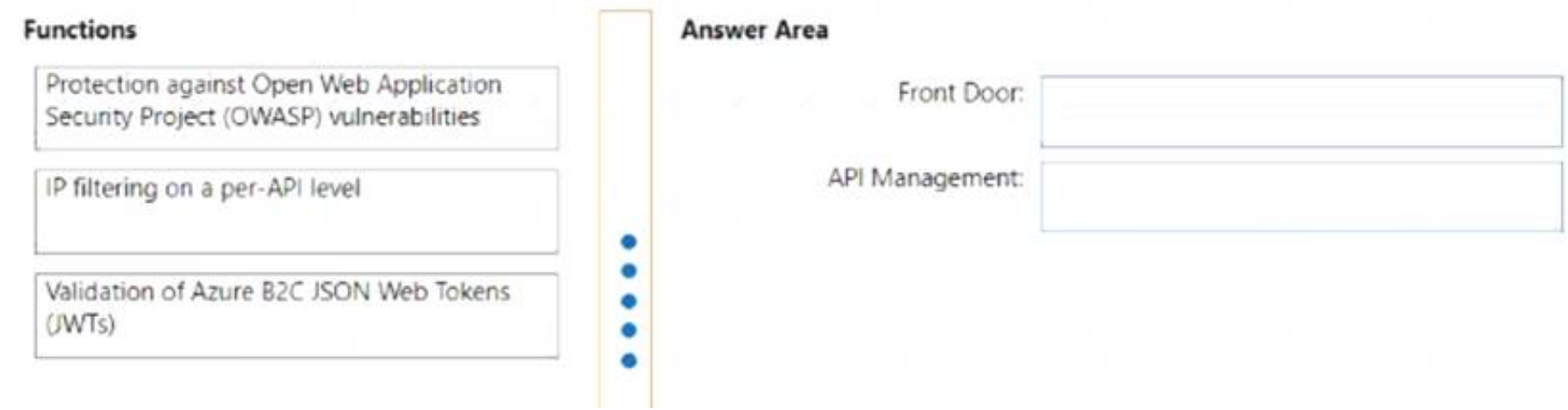
Service tier:
- Basic
- Business Critical
- General Purpose
- Hyperscale
- Premium
- Standard

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 170
- (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 171
- (Exam Topic 5)
You have an Azure Active Directory (Azure AD) tenant named contoso.com that has a security group named Group'. Group i is configured Tor assigned membership. Group I has 50 members. including 20 guest users.
You need To recommend a solution for evaluating the member ship of Group1. The solution must meet the following requirements:
• The evaluation must be repeated automatically every three months

• Every member must be able to report whether they need to be in Group1
• Users who report that they do not need to be in Group 1 must be removed from Group1 automatically
• Users who do not report whether they need to be m Group1 must be removed from Group1 automatically. What should you include in me recommendation?

A. implement Azure AU Identity Protection.
B. Change the Membership type of Group1 to Dynamic User.
C. Implement Azure AD Privileged Identity Management.
D. Create an access review.

Answer: D

Explanation:
https://docs.microsoft.com/en-us/azure/active-directory/governance/access-reviews-overview#learn-about-acces
Have reviews recur periodically: You can set up recurring access reviews of users at set frequencies such as weekly, monthly, quarterly or annually, and the reviewers will be notified at the start of each review. Reviewers can approve or deny access with a friendly interface and with the help of smart recommendations.
An administrator creates an access review of Group C with 50 member users and 25 guest users. Makes it a self-review. 50 licenses for each user as self-reviewers.*
https://docs.microsoft.com/en-us/azure/active-directory/governance/access-reviews-overview#example-license-s
There are 4 requirements and every single one is only met by access reviews.
https://docs.microsoft.com/en-us/azure/active-directory/governance/access-reviews-overview#when-should-you
Dynamic User is needed if a user must be automatically granted access on base of its attributes (department, jobtitle, location, etc.)
https://techcommunity.microsoft.com/t5/itops-talk-blog/dynamic-groups-in-azure-ad-and-microsoft-365/ba-p/22
Implementing Azure AD PIM is no solution and absolutely not necessary for access reviews. https://docs.microsoft.com/en-us/azure/active-directory/governance/access-reviews-overview#where-do-you-cre

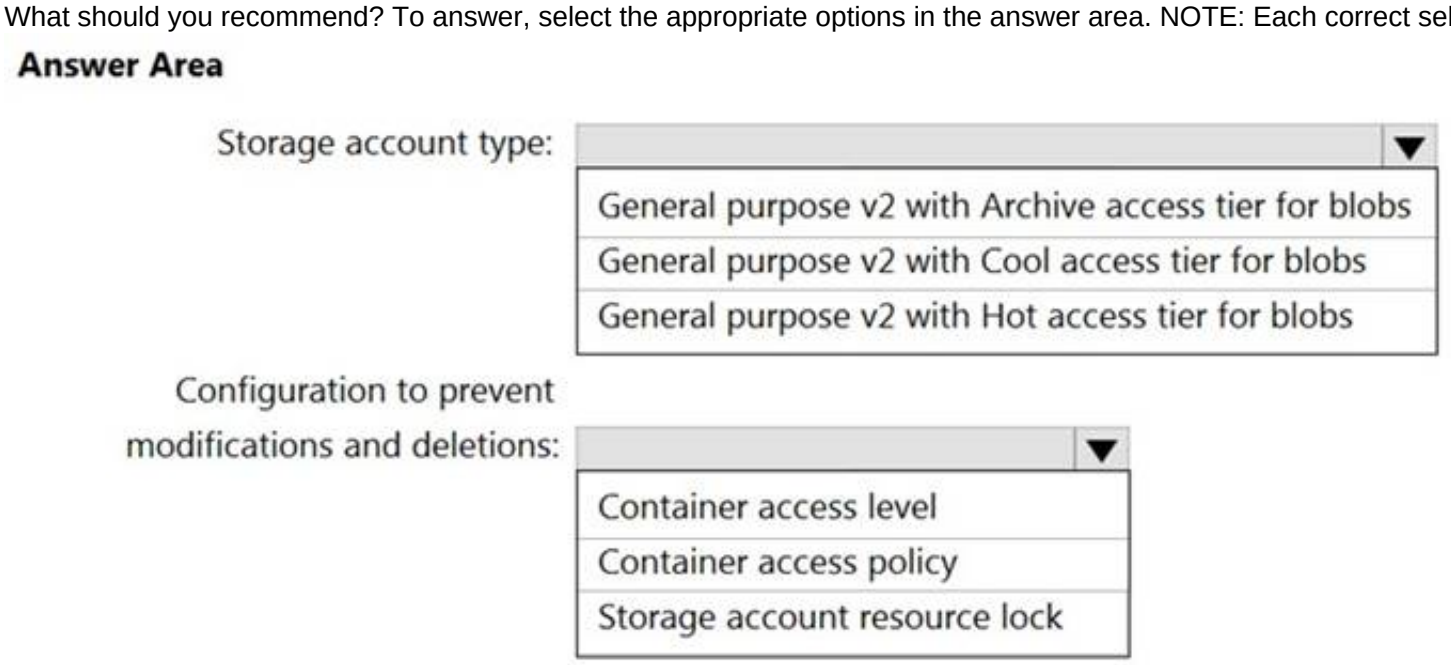
NEW QUESTION 172
- (Exam Topic 5)
You have an app named App1 that uses two on-premises Microsoft SQL Server databases named DB1 and DB2.
You plan to migrate DB1 and DB2 to Azure.
You need to recommend an Azure solution to host DB1 and DB2. The solution must meet the following requirements:
• Support 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 176
- (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.



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 179
- (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 180
- (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 185
- (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?

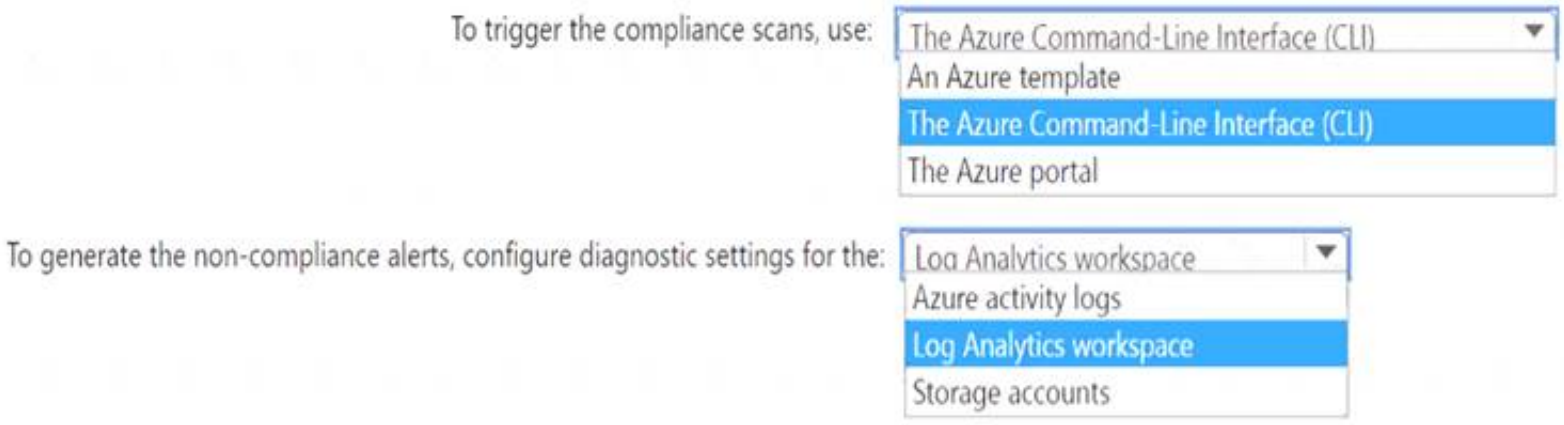
A. Yes
B. No

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 188
- (Exam Topic 5)
You have an Azure subscription that contains multiple storage accounts. You assign Azure Policy definitions to the storage accounts.
You need to recommend a solution to meet the following requirements:
• Trigger on-demand Azure Policy compliance scans.
• Raise Azure Monitor non-compliance alerts by querying logs collected by Log Analytics.
What should you recommend for each requirement? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Answer Area



A. Mastered
B. Not Mastered

Answer: A

Explanation:
Answer Area

NEW QUESTION 192
- (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 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 an Azure policy to enforce the resource group location. Does this meet the goal?

A. Yes
B. No

Answer: A

Explanation:
Azure Resource Policy Definitions can be used which can be applied to a specific Resource Group with the App Service instances.
Reference:
https://docs.microsoft.com/en-us/azure/governance/policy/overview

NEW QUESTION 196
- (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 199
- (Exam Topic 5)
You have an Azure AD tenant.
You plan to deploy Azure Cosmos DB databases that will use the SQL API.
You need to recommend a solution to provide specific Azure AD user accounts with read access to the Cosmos DB databases.
What should you include in the recommendation?

A. a resource token and an Access control (1AM) role assignment
B. certificates and Azure Key Vault
C. master keys and Azure Information Protection policies
D. shared access signatures (SAS) and Conditional Access policies

Answer: A

NEW QUESTION 203
- (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 have an Azure Storage account that contains two 1-GB data files named File1 and File2. The data files are set to use the archive access tier.
You need to ensure that File1 is accessible immediately when a retrieval request is initiated. Solution: For File1, you set Access tier to Cool.
Does this meet the goal?

A. Yes
B. No

Answer: A

Explanation:
The data in the cool tier is "considered / intended to be stored for 30 days". But this is not a must. You can store data indefinitely in the cool tier. The mentioned reference (see below) even gives an example of large scientific or otherwise large data which is stored for long duration in the cool tier.
https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers?tabs=azure-portal

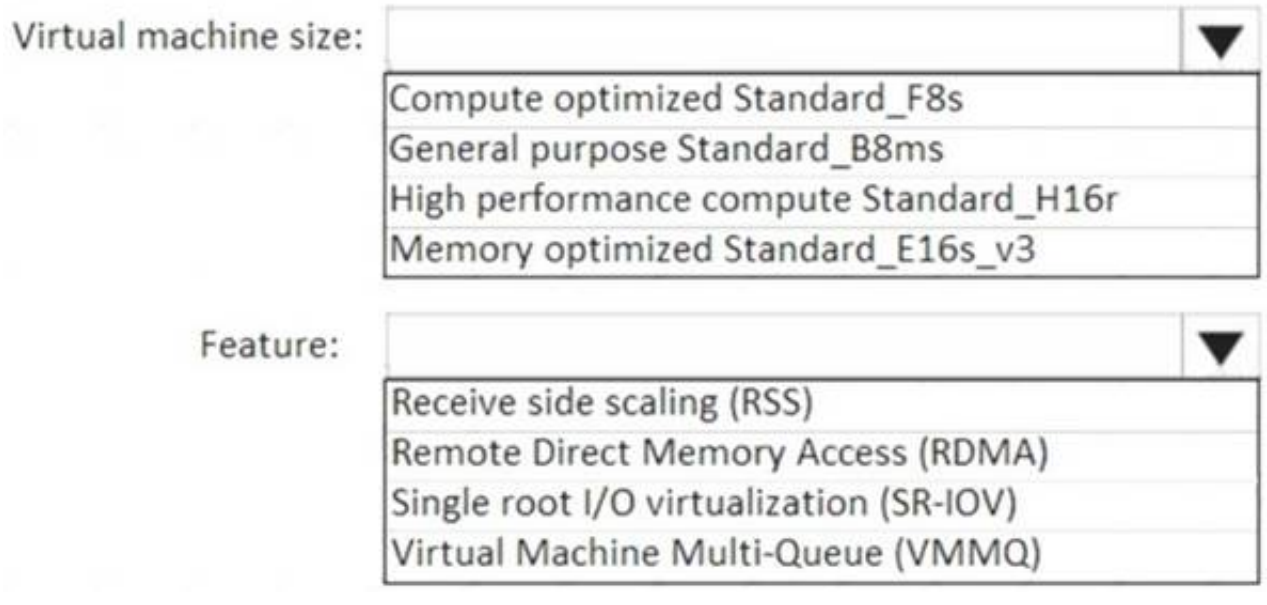
NEW QUESTION 204
- (Exam Topic 5)
You plan to migrate App1 to Azure. The solution must meet the authentication and authorization requirements.
Which of the endpoint should App1 use to obtain an access token?

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

Answer: A

NEW QUESTION 208
- (Exam Topic 5)
You plan to deploy a network-intensive application to several Azure virtual machines. You need to recommend a solution that meets the following requirements:
- Minimizes the use of the virtual machine processors to transfer data
- Minimizes network latency

Which virtual machine size and feature should you use? 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
References:
https://docs.microsoft.com/en-us/azure/virtual-machines/windows/sizes-hpc#h-series

NEW QUESTION 210
- (Exam Topic 5)
You plan to deploy an Azure Databricks Data Science & Engineering workspace and ingest data into the workspace.
Where should you persist the ingested data?

A. Azure Files
B. Azure Data Lake
C. Azure SQL Database
D. Azure Cosmos DB

Answer: B

Explanation:
The Azure Databricks Data Science & Engineering data lands in a data lake for long term persisted storage, in Azure Blob Storage or Azure Data Lake Storage.
Reference:
https://docs.microsoft.com/en-us/azure/databricks/scenarios/what-is-azure-databricks-ws

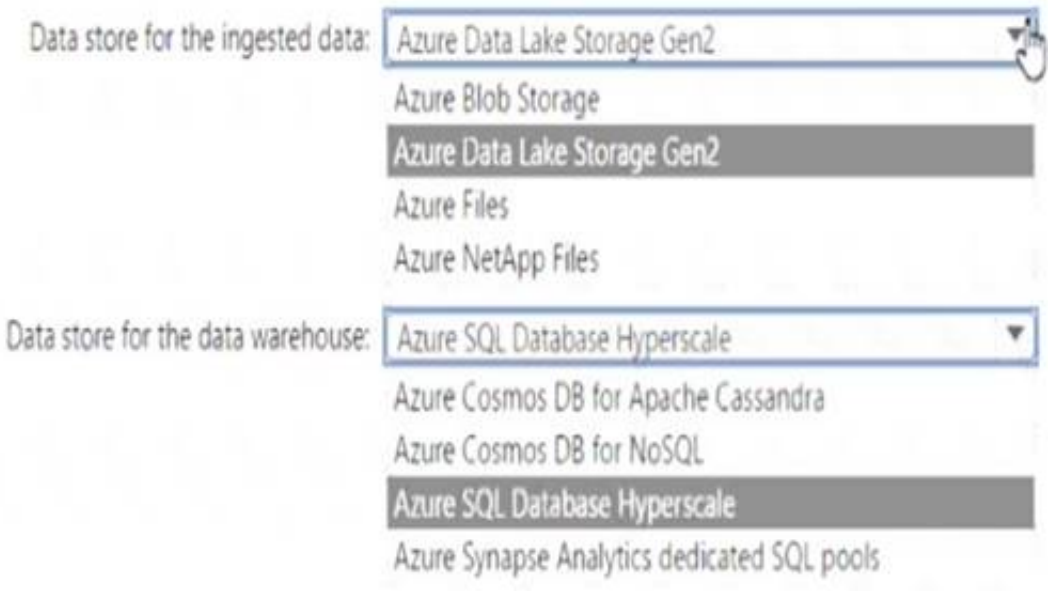
NEW QUESTION 213
- (Exam Topic 5)
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct 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 216
- (Exam Topic 5)
You are designing a data storage solution to support reporting.
The solution will ingest high volumes of data in the JSON format by using Azure Event Hubs. As the data arrives, Event Hubs will write the data to storage. The solution must meet the following requirements:
• Organize data in directories by date and time.
• Allow stored data to be queried directly, transformed into summarized tables, and then stored in a data warehouse.
• Ensure that the data warehouse can store 50 TB of relational data and support between 200 and 300 concurrent read operations.
Which service should you recommend for each type of data store? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.
Answer Area



A. Mastered
B. Not Mastered

Answer: A

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

NEW QUESTION 217
- (Exam Topic 5)
You have the resources shown in the following table.

Name	Type
AS1	Azure Synapse Analytics instance
CDB1	Azure Cosmos DB SQL API account

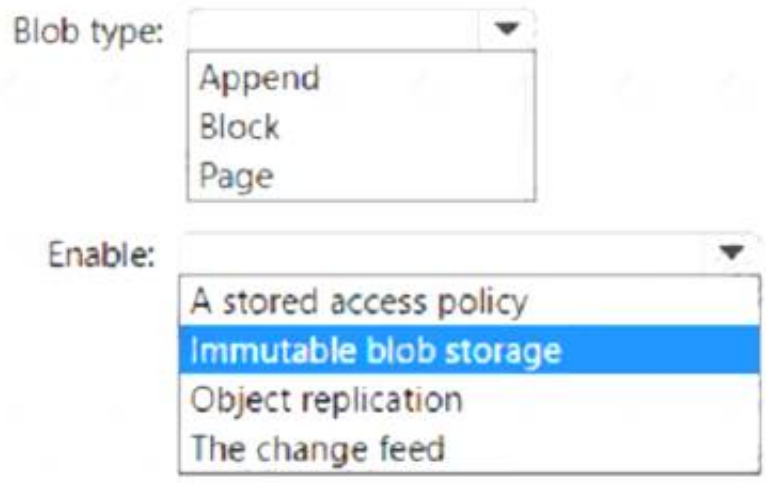
CDB1 hosts a container that stores continuously updated operational data.
You are designing a solution that will use ASI to analyze the operational data daily.
You need to recommend a solution to analyze the data without affecting the performance of the operational data store.
What should you include in the recommendation?

A. Azure Cosmos DB change feed
B. Azure Data Factory with Azure Cosmos DB and Azure Synapse Analytics connectors
C. Azure Synapse Analytics with PolyBase data loading
D. Azure Synapse Link for Azure Cosmos DB

Answer: D

NEW QUESTION 218
- (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

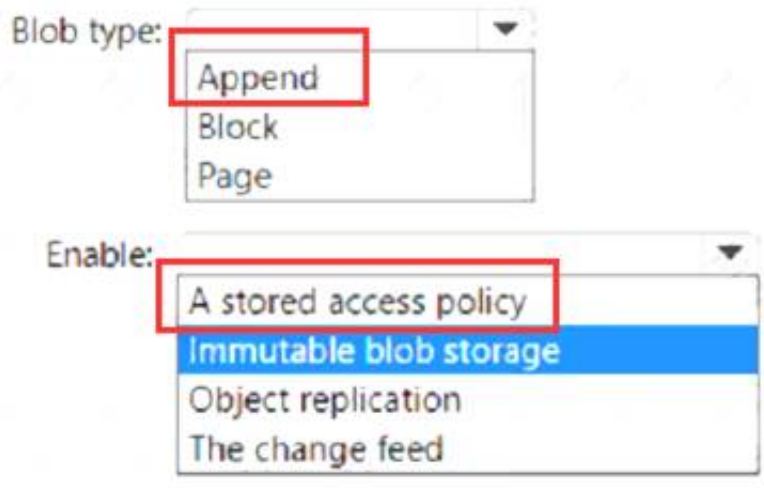


A. Mastered
B. Not Mastered

Answer: A

Explanation:

Answer Area

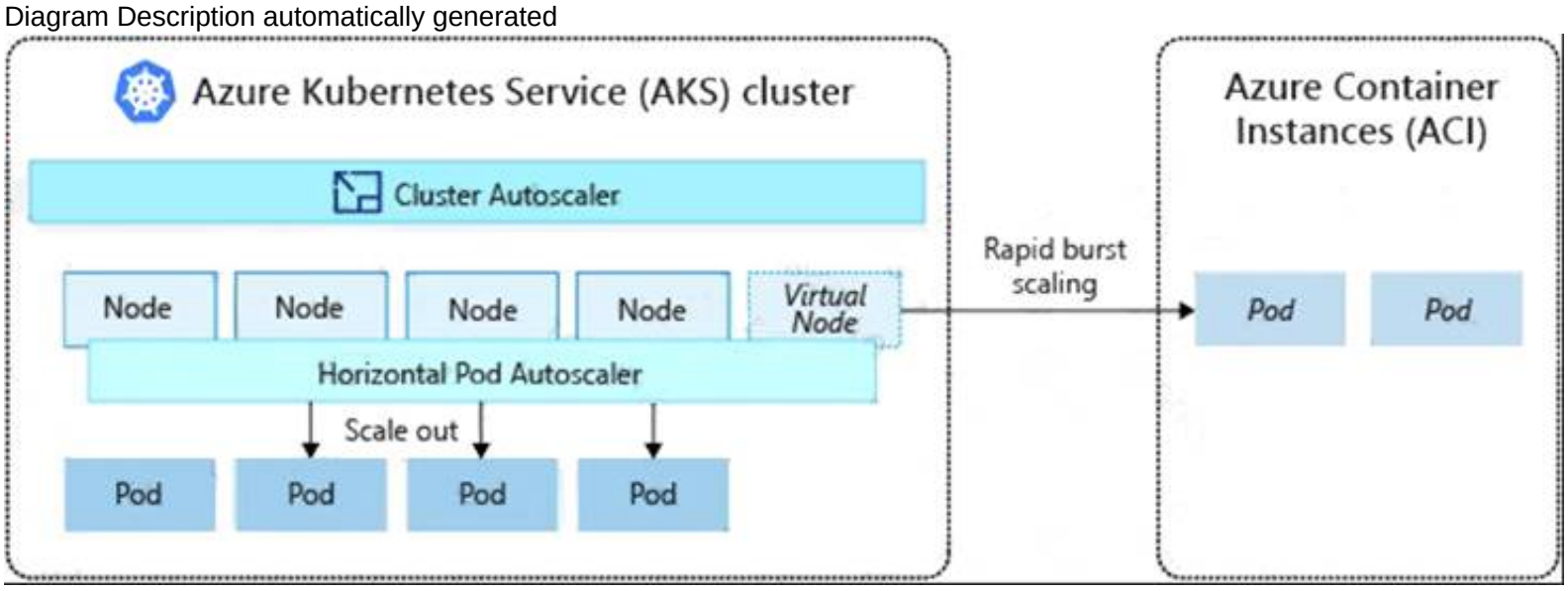


NEW QUESTION 220
- (Exam Topic 5)
You have an Azure subscription.
You need to deploy an Azure Kubernetes Service (AKS) solution that will use Windows Server 2019 nodes.
The solution must meet the following requirements:
Minimize the time it takes to provision compute resources during scale-out operations. 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 223
- (Exam Topic 5)
You have an Azure Active Directory (Azure AD) tenant that syncs with an on-premises Active Directory domain.
You have an internal web app named WebApp1 that is hosted on-premises. WebApp1 uses Integrated Windows authentication.
Some users work remotely and do NOT have VPN access to the on-premises network.
You need to provide the remote users with single sign-on (SSO) access to WebApp1.
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 Application Proxy
B. Azure AD Privileged Identity Management (PIM)
C. Conditional Access policies
D. Azure Arc
E. Azure AD enterprise applications
F. Azure Application Gateway

Answer: AC

Explanation:
A: Application Proxy is a feature of Azure AD that enables users to access on-premises web applications from a remote client. Application Proxy includes both the Application Proxy service which runs in the cloud, and the Application Proxy connector which runs on an on-premises server.
You can configure single sign-on to an Application Proxy application.
C: Microsoft recommends using Application Proxy with pre-authentication and Conditional Access policies for remote access from the internet. An approach to provide Conditional Access for intranet use is to modernize applications so they can directly authenticate with AAD.
Reference:
https://docs.microsoft.com/en-us/azure/active-directory/app-proxy/application-proxy-config-sso-how-to https://docs.microsoft.com/en-us/azure/active-directory/app-proxy/application-proxy-deployment-plan

NEW QUESTION 226
- (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:

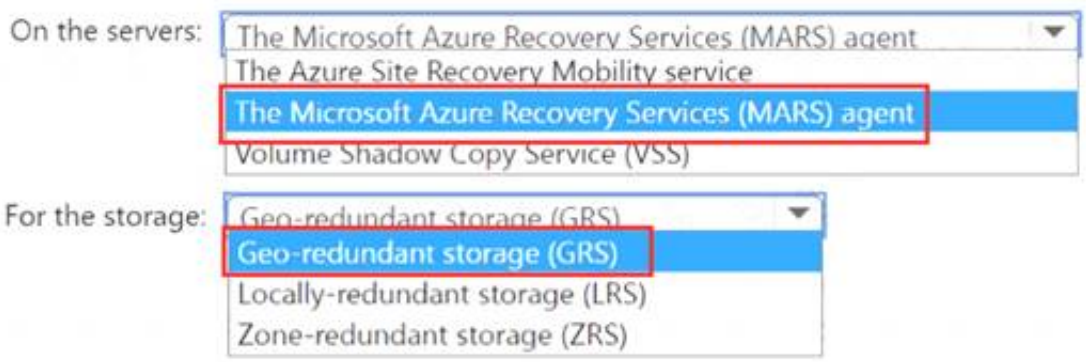
With Azure Blueprints, the relationship between the blueprint definition (what should be deployed) and the blueprint assignment (what was deployed) is preserved. This connection supports improved tracking and auditing of deployments. Azure Blueprints can also upgrade several subscriptions at once that 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 228
- (Exam Topic 5)
You have 10 on-premises servers that run Windows Server.
You need to perform daily backups of the servers to a Recovery Services vault. The solution must meet the following requirements:
• Back up all the files and folders on the servers.
• Maintain three copies of the backups in Azure.
• Minimize costs.
What should you configure? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.
Answer Area

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Answer Area



NEW QUESTION 230
- (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 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.

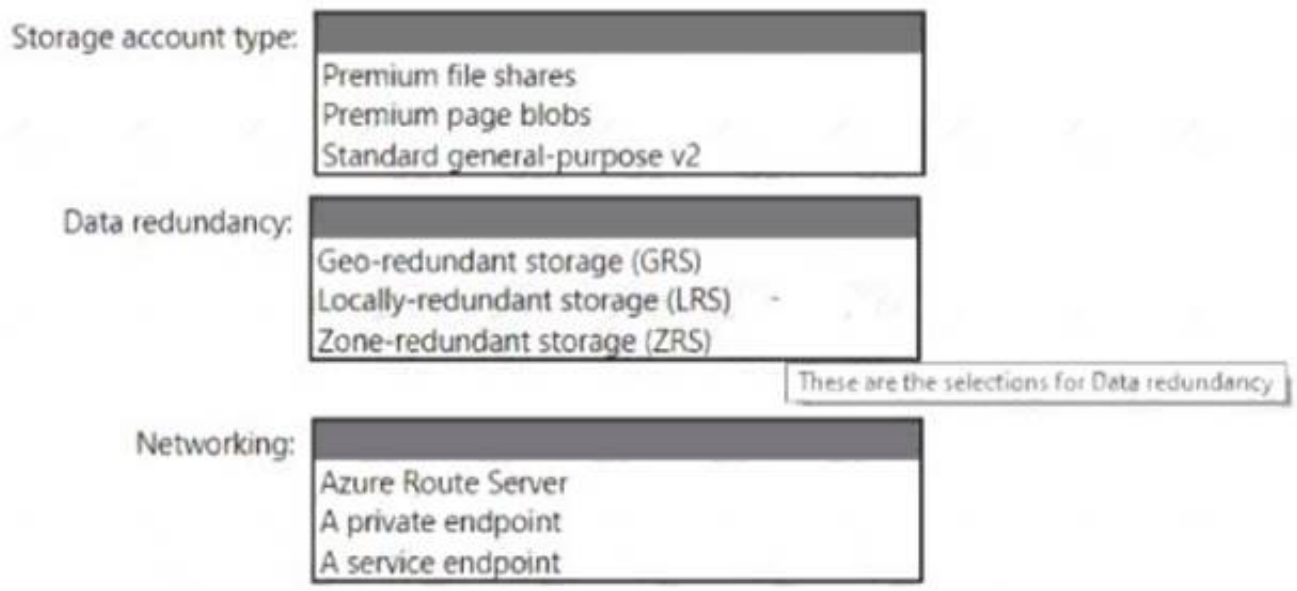
Your company has deployed several virtual machines (VMs) on-premises and to Azure. Azure ExpressRoute has been deployed and configured for on-premises to Azure connectivity.
Several VMs are exhibiting network connectivity issues.
You need to analyze the network traffic to determine whether packets are being allowed or denied to the VMs. Solution: Use Azure Network Watcher to run IP flow verify to analyze the network traffic
Does the solution meet the goal?

A. Yes
B. No

Answer: A

Explanation:
The Network Watcher Network performance monitor is a cloud-based hybrid network monitoring solution that helps you monitor network performance between various points in your network infrastructure. It also helps you monitor network connectivity to service and application endpoints and monitor the performance of Azure ExpressRoute.
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.
IP flow verify looks at the rules for all Network Security Groups (NSGs) applied to the network interface, such as a subnet or virtual machine NIC. Traffic flow is then verified based on the configured settings to or from that network interface. IP flow verify is useful in confirming if a rule in a Network Security Group is blocking ingress or egress traffic to or from a virtual machine.
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 237
- (Exam Topic 5)
You are designing an application that will use Azure Linux virtual machines to analyze video files. The files will be uploaded from corporate offices that connect to Azure by using ExpressRoute.
You plan to provision an Azure Storage account to host the files.
You need to ensure that the storage account meets the following requirements:
• Supports video files of up to 7 TB
• Provides the highest availability possible
• Ensures that storage is optimized for the large video files
• Ensures that files from the on-premises network are uploaded by using ExpressRoute
How should you configure the storage account? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.
Answer Area

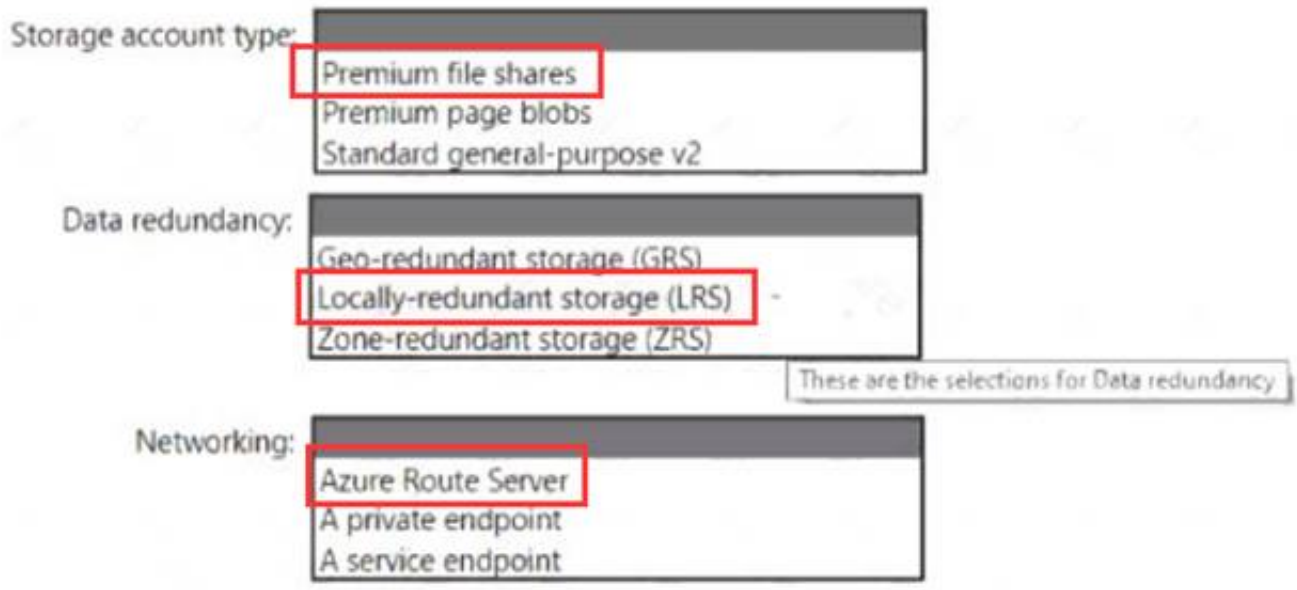


A. Mastered
B. Not Mastered

Answer: A

Explanation:

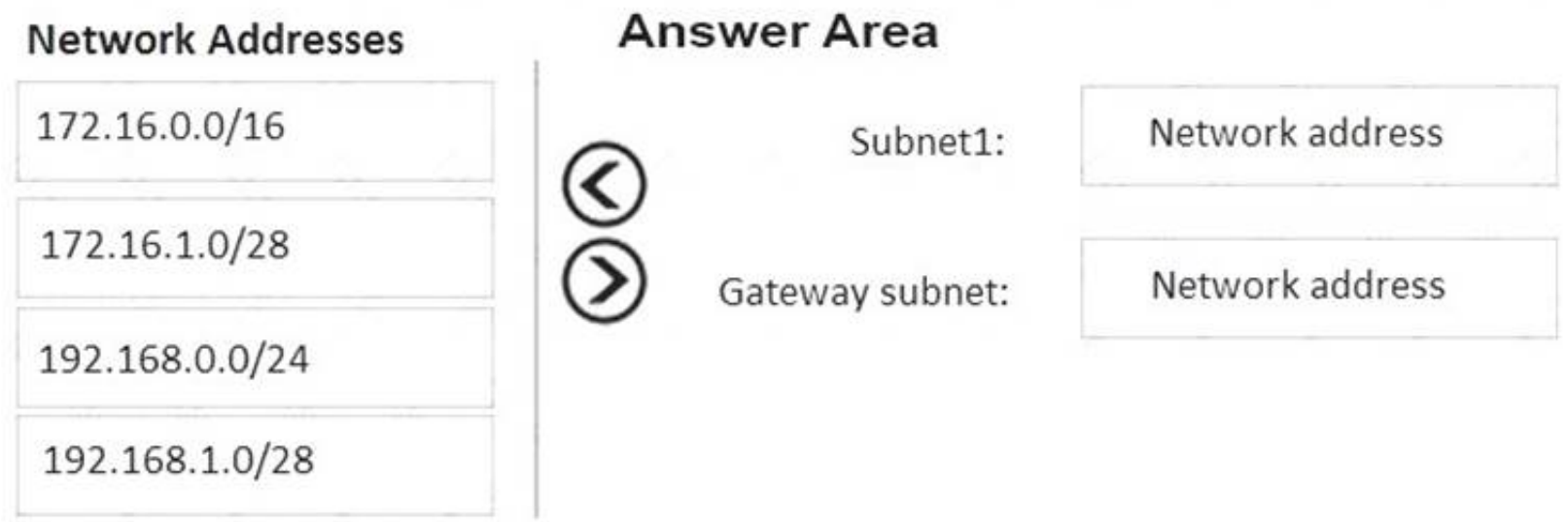
Answer Area



NEW QUESTION 239
- (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 242
- (Exam Topic 5)
You have an app named App1 that uses an on-premises Microsoft SQL Server database named DB1. You plan to migrate DB1 to an Azure SQL managed instance.
You need to enable customer-managed Transparent Data Encryption (TDE) for the instance. The solution must maximize encryption strength.
Which type of encryption algorithm and key length should you use for the TDE protector?

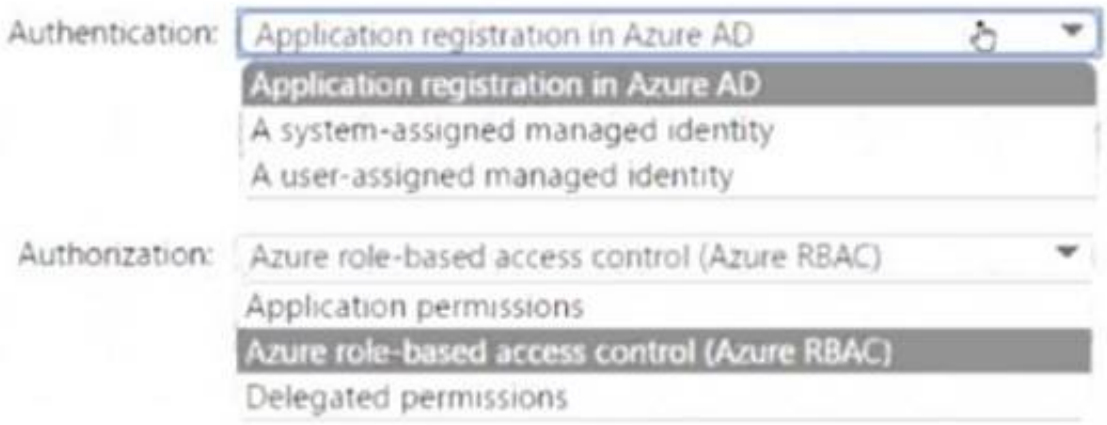
A. AES256
B. RSA4096
C. RSA2048
D. RSA3072

Answer: D

NEW QUESTION 244
- (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.

Answer Area

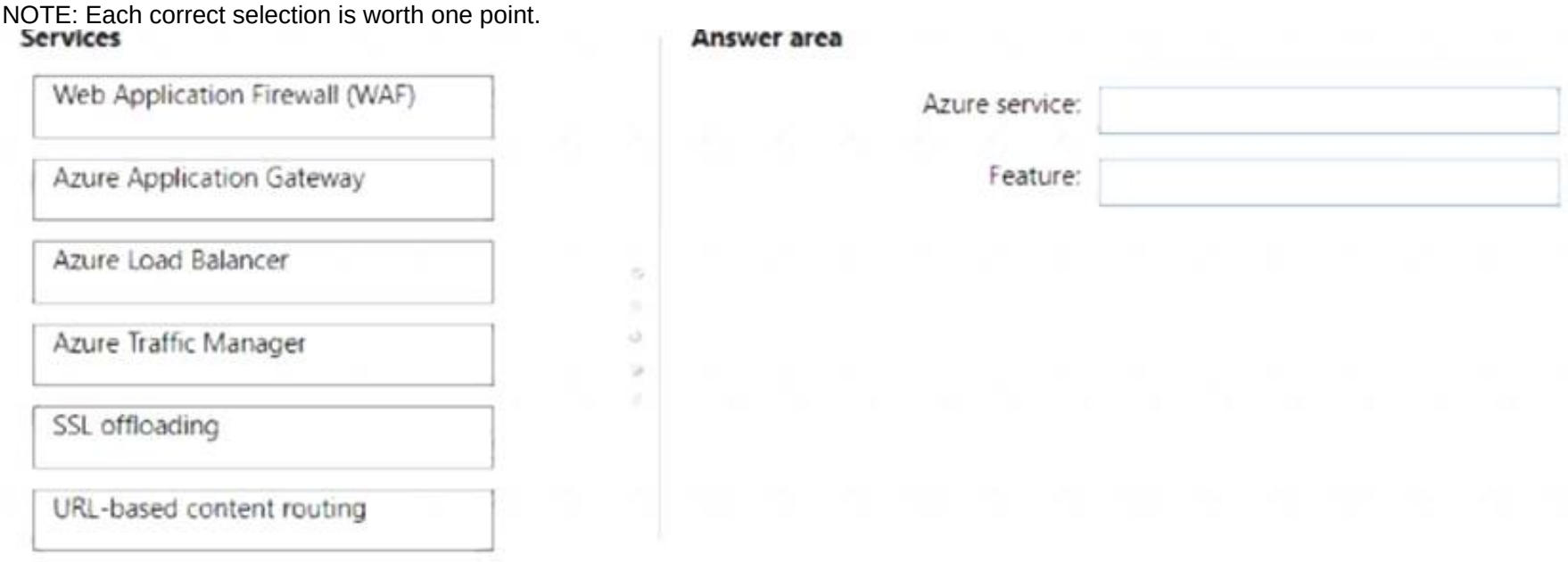


A. Mastered
B. Not Mastered

Answer: A

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

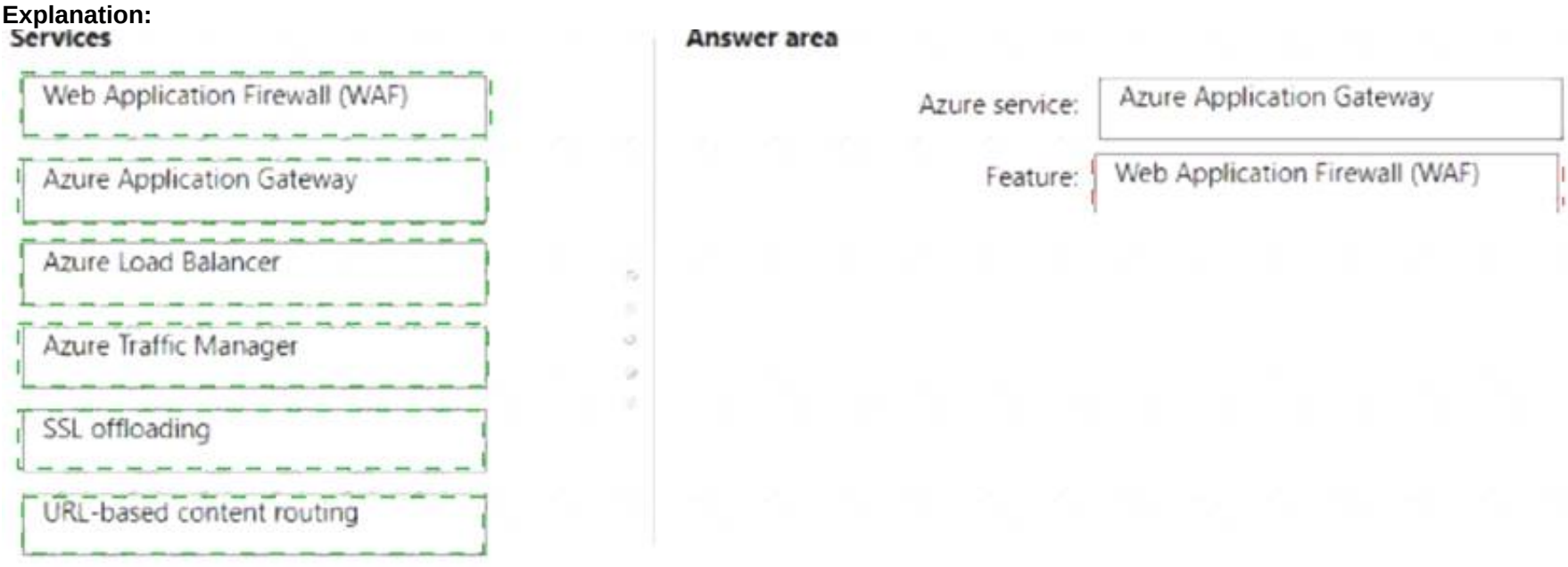
NEW QUESTION 249
- (Exam Topic 5)
Your company has an existing web app that runs on Azure virtual machines.
You need to ensure that the app is protected from SQL injection attempts and uses a layer-7 load balancer. The solution must minimize disruptions to the code of the app.
What should you recommend? To answer, drag the appropriate services to the correct targets. Each service may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content
NOTE: Each correct selection is worth one point.



A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 250

- (Exam Topic 5)
You have an Azure subscription. The subscription has a blob container that contains multiple blobs. Ten users in the finance department of your company plan to access the blobs during the month of April. You need to recommend a solution to enable access to the blobs during the month of April only. Which security solution should you include in the recommendation?

A. shared access signatures (SAS)
B. access keys
C. conditional access policies
D. certificates

Answer: A

Explanation:
Reference:
https://docs.microsoft.com/en-us/azure/storage/common/storage-sas-overview

NEW QUESTION 255
- (Exam Topic 5)
You plan to move a web application named App1 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 257
- (Exam Topic 5)
You use Azure virtual machines to run a custom application that uses an Azure SQL database on the back end. The IT apartment at your company recently enabled forced tunneling,
Since the configuration change, developers have noticed degraded performance when they access the database
You need to recommend a solution to minimize latency when accessing the database. The solution must minimize costs
What should you include in the recommendation?

A. Azure SQL Database Managed instance
B. Azure virtual machines that run Microsoft SQL Server servers
C. Always On availability groups
D. virtual network (VNET) service endpoint

Answer: D

Explanation:
https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-service-endpoints-overview

NEW QUESTION 262
- (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 Load Balancer to provide access to the app. Does this meet the goal?

A. Yes
B. No

Answer: B

NEW QUESTION 267
- (Exam Topic 5)
You have an Azure subscription that contains a custom application named Application was developed by an external company named fabric, Ltd. Developers at Fabrikam were assigned role-based access control (RBAV) permissions to the Application components. All users are licensed for the Microsoft 365 E5 plan.
You need to recommends a solution to verify whether the Faricak developers still require permissions to Application1. The solution must the following requirements.
* To the manager of the developers, send a monthly email message that lists the access permissions to Application1.

* If the manager does not verify access permission, automatically revoke that permission.
* Minimize development effort. What should you recommend?

A. In Azure Active Directory (AD) Privileged Identity Management, create a custom role assignment for the Application1 resources
B. Create an Azure Automation runbook that runs the Get-AzureADUserAppRoleAssignment cmdlet
C. Create an Azure Automation runbook that runs the Get-AzureRmRoleAssignment cmdlet
D. In Azure Active Directory (Azure AD), create an access review of Application1

Answer: D

Explanation:
https://docs.microsoft.com/en-us/azure/active-directory/governance/manage-user-access-with-access-reviews Azure Active Directory (Azure AD) access reviews enable organizations to efficiently manage group
memberships, access to enterprise applications, and role assignments. User's access can be reviewed on a regular basis to make sure only the right people have continued access. Have reviews recur periodically: You can set up recurring access reviews of users at set frequencies such as weekly, monthly, quarterly or annually, and the reviewers will be notified at the start of each review. Reviewers can approve or deny access with a friendly interface and with the help of smart recommendations.
Why are access reviews important?
"Azure AD enables you to collaborate with users from inside your organization and with external users. Users can join groups, invite guests, connect to cloud apps, and work remotely from their work or personal devices. The convenience of using self-service has led to a need for better access management capabilities."

NEW QUESTION 269
- (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 Reference:
https://docs.microsoft.com/en-us/azure/azure-functions/functions-scale#hosting-plans-comparison

NEW QUESTION 274
- (Exam Topic 5)
You have an Azure web app that uses an Azure key vault named KeyVault1 in the West US Azure region. You are designing a disaster recovery plan for KeyVault1.
You plan to back up the keys in KeyVault1.
You need to identify to where you can restore the backup. What should you identify?

A. KeyVault1 only
B. the same region only
C. the same geography only
D. any region worldwide

Answer: C

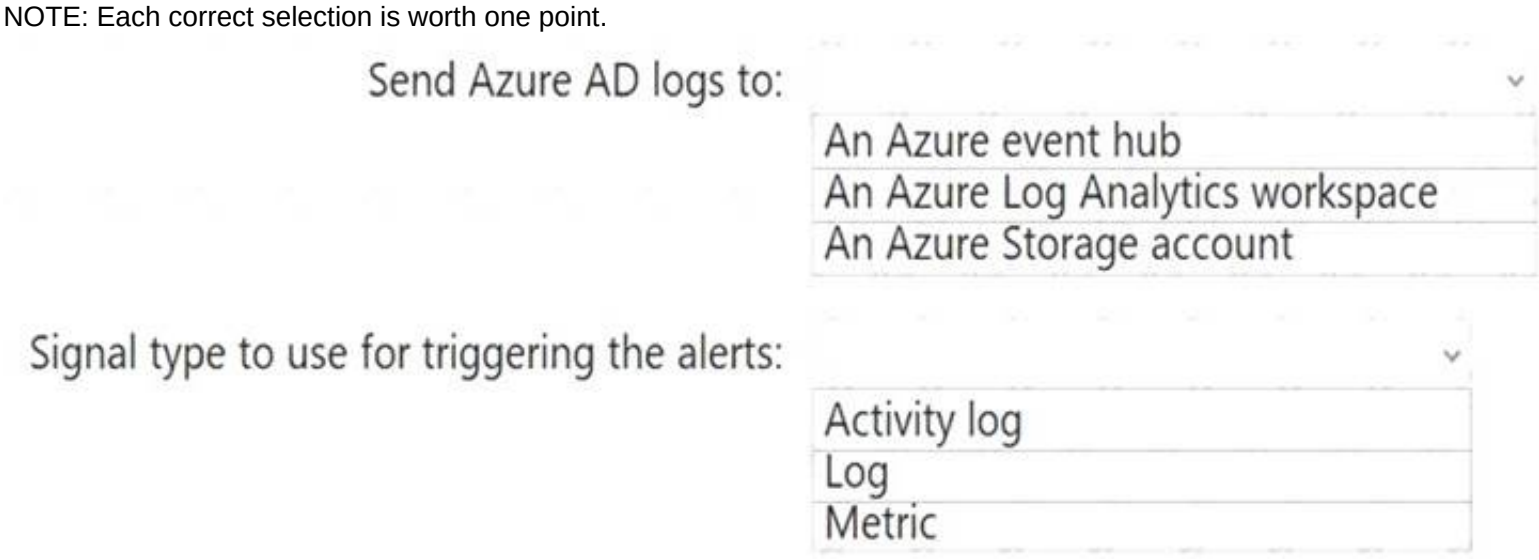
NEW QUESTION 275
- (Exam Topic 5)
You have an Azure Data Lake Storage account that contains 1,000 10-MB CSV files and an Azure Synapse Analytics dedicated SQL pool named sql1. You need to load the files to sql1. The solution must meet the following requirements:
- Maximize data load performance.
- Eliminate the need to define external tables before the data loads.
What should you use?

A. the copy statement
B. PolyBase
C. BCP
D. the sqlBulkcopy object

Answer: B

NEW QUESTION 276
- (Exam Topic 5)

You have an Azure Active Directory (Azure AD) tenant.
You plan to use Azure Monitor to monitor user sign-ins and generate alerts based on specific user sign-in events.
You need to recommend a solution to trigger the alerts based on the events.
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 Description automatically generated
Box 1: An Azure Log Analytics workspace
To be able to create an alert we send the Azure AD logs to An Azure Log Analytics workspace.
Note: You can forward your AAD logs and events to either an Azure Storage Account, an Azure Event Hub, Log Analytics, or a combination of all of these.
Box 2: Log
Ensure Resource Type is an analytics source like Log Analytics or Application Insights and signal type as Log.
Reference:
https://4sysops.com/archives/how-to-create-an-azure-ad-admin-login-alert/ https://docs.microsoft.com/en-us/azure/azure-monitor/platform/alerts-log

NEW QUESTION 278
- (Exam Topic 5)
You have an on-premises network and an Azure subscription. The on-premises network has several branch offices.
A branch office in Toronto contains a virtual machine named VM1 that is configured as a file server. Users access the shared files on VM1 from all the offices.
You need to recommend a solution to ensure that the users can access the shares files as quickly as possible if the Toronto branch office is inaccessible.
What should you include in the recommendation?

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

Answer: B

Explanation:
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 need an Azure file share in the same region that you want to deploy Azure File Sync. Reference:
https://docs.microsoft.com/en-us/azure/storage/files/storage-sync-files-deployment-guide

NEW QUESTION 281
- (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 283
- (Exam Topic 5)

Your company develops Azure applications.
You need to recommend a solution for the deployment of Azure subscriptions. The solution must meet the following requirements:
What should you include in the recommendation?

A. Provision resource groups.
B. Support deployments across all Azure regions.
C. Create custom role-based access control (RBAC) roles.
D. Provide consistent virtual machine and virtual network configurations.

Answer: D

Explanation:

- Resource groups: You can scope your deployment to a resource group. You use an Azure Resource Manager template (ARM template) for the deployment.
- Regions: If you have a template spec in one region and want to move it to new region, you can export the template spec and redeploy it.
- RBAC: Azure role-based access control (Azure RBAC) is the authorization system you use to manage access to Azure resources. To grant access, you assign roles to users, groups, service principals, or managed identities at a particular scope. In addition to using Azure PowerShell or the Azure CLI, you can assign roles using Azure Resource Manager templates. Templates can be helpful if you need to deploy resources consistently and repeatedly
- You can setup Virtual machines and virtual network configurations in an Azure Resource Manager template.

Reference:
https://docs.microsoft.com/en-us/azure/governance/blueprints/overview
https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/microsoft-resources-move-regions https://docs.microsoft.com/en-us/azure/role-based-access-control/role-assignments-template https://docs.microsoft.com/en-us/azure/virtual-machines/windows/template-description

NEW QUESTION 284
- (Exam Topic 5)
You need to design a highly available Azure SQL database that meets the following requirements:
- Failover between replicas of the database must occur without any data loss.
- The database must remain available in the event of a zone outage.
- Costs must be minimized

Which deployment option should you use?

A. Azure SQL Database Standard
B. Azure SQL Database Serverless
C. Azure SQL Managed Instance General Purpose
D. Azure SQL Database Premium

Answer: C

NEW QUESTION 287
- (Exam Topic 5)
You plan to deploy a custom database solution that will have multiple instances as shown in the following table.

Host virtual machine	Azure Availability Zone	Azure region
USDB1	1	US East
USDB2	2	US East
USDB3	3	US East
EUDB1	1	West Europe
EUDB2	2	West Europe
EUDB3	3	West Europe

Client applications will access database servers by using db.contoso.com.
You need to recommend load balancing services for the planned deployment. The solution must meet the following requirements:
- Access to at least one database server must be maintained in the event of a regional outage.
- The virtual machines must not connect to the internet directly.

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.

Global load balancing service:
- Azure Application Gateway
- Azure Front Door
- Azure Load Balancer
- Azure Traffic Manager

Availability Zone load balancing service:
- Azure Application Gateway
- Azure Front Door
- Azure Load Balancer
- Azure Traffic Manager

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Graphical user interface, text, application Description automatically generated
Box 1: Azure Traffic Manager
Traffic Manager is a DNS-based traffic load balancer that enables you to distribute traffic optimally to services across global Azure regions, while providing high availability and responsiveness. Because Traffic Manager is a DNS-based load-balancing service, it load balances only at the domain level. For that reason, it can't fail over as quickly as Front Door, because of common challenges around DNS caching and systems not honoring DNS TTLs.

Service	Global/regional	Recommended traffic
Azure Front Door	Global	HTTP(S)
Traffic Manager	Global	non-HTTP(S)
Application Gateway	Regional	HTTP(S)
Azure Load Balancer	Regional	non-HTTP(S)

Reference:
https://docs.microsoft.com/en-us/azure/architecture/guide/technology-choices/load-balancing-overview

NEW QUESTION 289
- (Exam Topic 5)
You have an Azure subscription that contains an Azure Blob storage account named store1.
You have an on-premises file server named Setver1 that runs Windows Sewer 2016. Server1 stores 500 GB of company files.
You need to store a copy of the company files from Server 1 in store1.
Which two possible Azure services achieve this goal? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point

A. an Azure Batch account
B. an integration account
C. an On-premises data gateway
D. an Azure Import/Export job
E. Azure Data factory

Answer: DE

Explanation:
https://docs.microsoft.com/en-us/azure/storage/common/storage-import-export-data-from-blobs https://docs.microsoft.com/en-us/answers/questions/31113/fastest-method-to-copy-500gb-table-from-on-premise

NEW QUESTION 293
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Thank You for Trying Our Product

* 100% Pass or Money Back

All our products come with a 90-day Money Back Guarantee.

* One year free update

You can enjoy free update one year. 24x7 online support.

* Trusted by Millions

We currently serve more than 30,000,000 customers.

* Shop Securely

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