Number: AZ-305
Passing Score: 800
Time Limit: 120
File Version: 19.0

Exam Code: AZ-305
Exam Name: Designing Microsoft Azure Infrastructure Solutions

Topic
Overview:
Existing Environment
Fabrikam, Inc. is an engineering company that has offices throughout Europe. The company has a main office in London and three branch offices in Amsterdam Berlin, and Rome. Active Directory Environment:
The network contains two Active Directory forests named corp.fabnkam.com and rd.fabrikam.com.
There are no trust relationships between the forests. Corp.fabrikam.com is a production forest that contains identities used for internal user and computer authentication. Rd.fabrikam.com is used by the research and development (R&D) department only. The R&D department is restricted to using on-premises resources only.
Network Infrastructure:
Each office contains at least one domain controller from the corp.fabrikam.com domain. The main office contains all the domain controllers for the rd.fabrikam.com forest. All the offices have a high-speed connection to the Internet.
An existing application named WebApp1 is hosted in the data center of the London office. WebApp1 is used by customers to place and track orders. WebApp1 has a web tier that uses Microsoft Internet Information Services (IIS) and a database tier that runs Microsoft SQL Server 2016. The web tier and the database tier are deployed to virtual machines that run on Hyper-V. The IT department currently uses a separate Hyper-V environment to test updates to WebApp1.
Fabrikam purchases all Microsoft licenses through a Microsoft Enterprise Agreement that includes Software Assurance. Problem Statement:
The use of Web App1 is unpredictable. At peak times, users often report delays. At other times, many resources for WebApp1 are underutilized. Requirements:
Planned Changes:
Fabrikam plans to move most of its production workloads to Azure during the next few years.
As one of its first projects, the company plans to establish a hybrid identity model, facilitating an upcoming Microsoft Office 365 deployment All R&D operations will remain on-premises. Fabrikam plans to migrate the production and test instances of WebApp1 to Azure.
Technical Requirements:
Fabrikam identifies the following technical requirements:
• Web site content must be easily updated from a single point.
• User input must be minimized when provisioning new app instances.
• Whenever possible, existing on premises licenses must be used to reduce cost.
• Users must always authenticate by using their corp.fabrikam.com UPN identity.
• Any new deployments to Azure must be redundant in case an Azure region fails.
• Whenever possible, solutions must be deployed to Azure by using platform as a service (PaaS).
• An email distribution group named IT Support must be notified of any issues relating to the directory synchronization services.
• Directory synchronization between Azure Active Directory (Azure AD) and corp.fabhkam.com must not be affected by a link failure between Azure and the on premises network. Database Requirements:
Fabrikam identifies the following database requirements:
• Database metrics for the production instance of WebApp1 must be available for analysis so that database administrators can optimize the performance settings.
• To avoid disrupting customer access, database downtime must be minimized when databases are migrated.
• Database backups must be retained for a minimum of seven years to meet compliance requirement Security Requirements:
Fabrikam identifies the following security requirements:
*Company information including policies, templates, and data must be inaccessible to anyone outside the company *Users on the on-premises network must be able to authenticate to corp.fabrikam.com if an Internet link fails. *Administrators must be able authenticate to the Azure portal by using their corp.fabrikam.com credentials.
*All administrative access to the Azure portal must be secured by using multi-factor authentication.
*The testing of WebApp1 updates must not be visible to anyone outside the company.

QUESTION 1
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.

Correct Answer: B
Section:

QUESTION 2
You need to recommend a strategy for migrating the database content of WebApp1 to Azure. What should you include in the recommendation?

A. Use Azure Site Recovery to replicate the SQL servers to Azure.
B. Use SQL Server transactional replication.
C. Copy the BACPAC file that contains the Azure SQL database file to Azure Blob storage.
D. Copy the VHD that contains the Azure SQL database files to Azure Blob storage

Correct Answer: D
Section:
Explanation:
Before you upload a Windows virtual machine (VM) from on-premises to Azure, you must prepare the virtual hard disk (VHD or VHDX). Scenario: WebApp1 has a web tier that uses Microsoft Internet Information Services (IIS) and a database tier that runs Microsoft SQL Server 2016. The web tier and the database tier are deployed to virtual machines that run on Hyper-V.
Reference:
https://docs.microsoft.com/en-us/azure/virtual-machines/windows/prepare-for-upload-vhd-image

QUESTION 3
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.

Correct Answer: D
Section:

QUESTION 4
You need to recommend a solution to meet the database retention requirement. What should you recommend?

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

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

QUESTION 5
What should you include in the identity management strategy to support the planned changes?

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

Correct Answer: B
Section:
Explanation:
Directory synchronization between Azure Active Directory (Azure AD) and corp.fabrikam.com must not be affected by a link failure between Azure and the on-premises network. (This requires domain controllers in Azure)
Users on the on-premises network must be able to authenticate to corp.fabrikam.com if an Internet link fails. (This requires domain controllers on-premises)

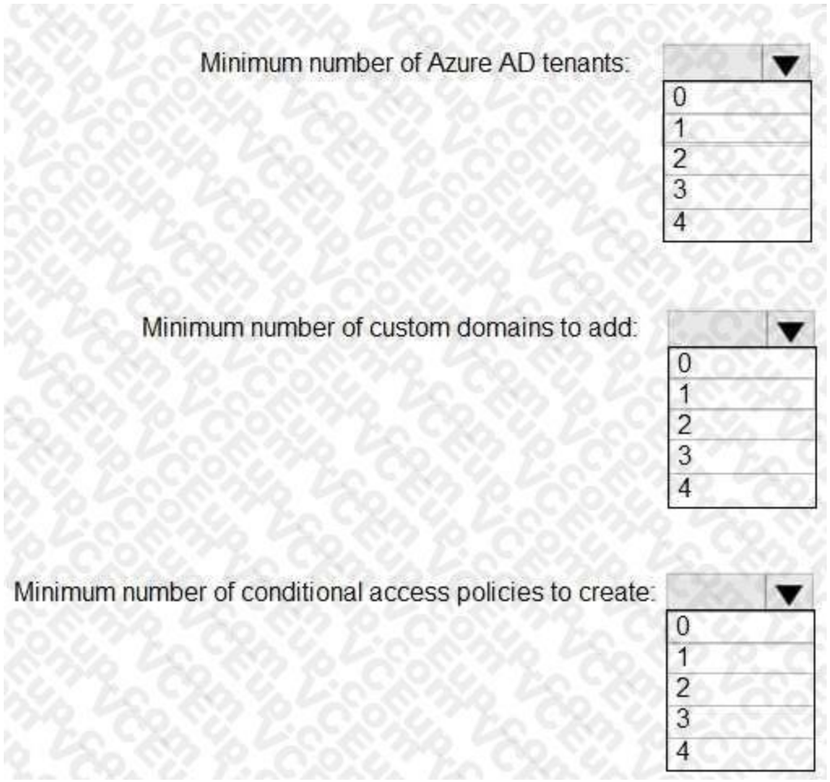
QUESTION 6
You need to recommend a notification solution for the IT Support distribution group.
What should you include in the recommendation?

A. Azure Network Watcher
B. an action group
C. a SendGrid account with advanced reporting
D. Azure AD Connect Health

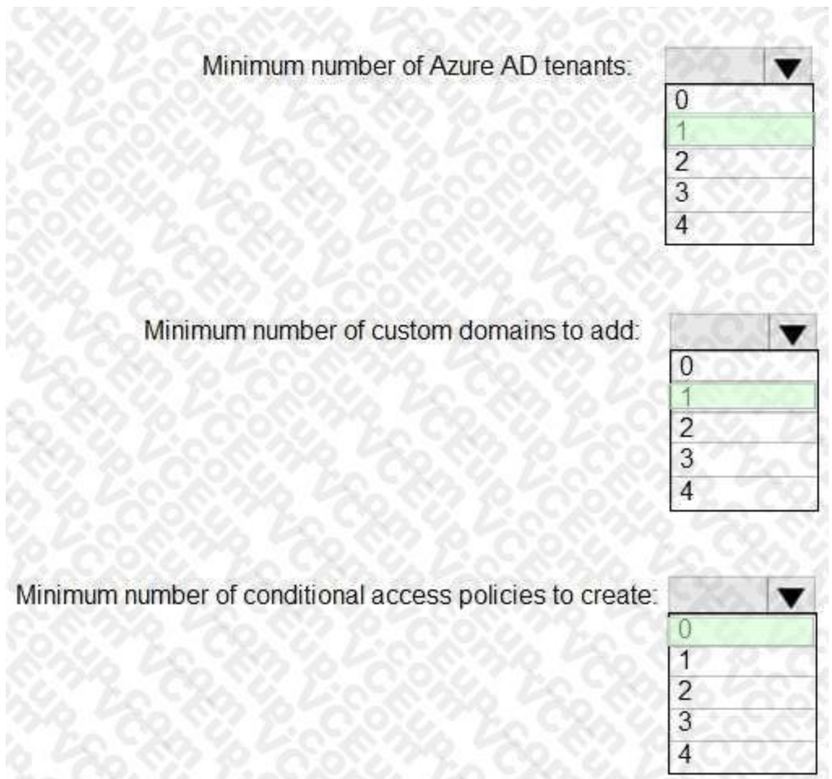
Correct Answer: D
Section:
Explanation:
Reference:
https://docs.microsoft.com/en-us/azure/active-directory/hybrid/how-to-connect-health-operations

QUESTION 7
HOTSPOT
To meet the authentication requirements of Fabrikam, what should you include in the solution? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:

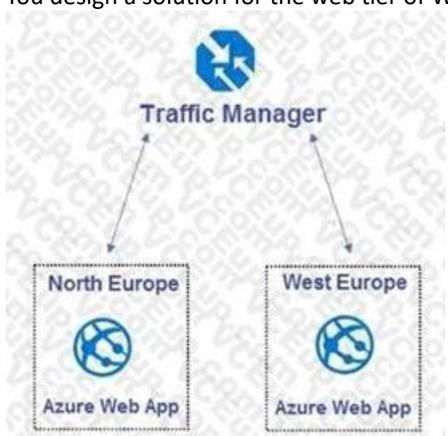


Answer Area:



Section:
Explanation:
1
1
0

QUESTION 8
HOTSPOT
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.

Hot Area:

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.	○	○

Answer Area:

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.	○	○

Section:

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/

QUESTION 9
HOTSPOT
You are evaluating the components of the migration to Azure that require you to provision an Azure Storage account. For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area:

Section:
Explanation:

Topic
Case Study
This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.
To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.
At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.
To start the case study
To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements.
If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the
Qbutton to return to the question.
Existing Environment: Technical Environment
The on-premises network contains a single Active Directory domain named contoso.com.
Contoso has a single Azure subscription.
Existing Environment: Business Partnerships
Contoso has a business partnership with Fabrikam, Inc. Fabrikam users access some Contoso applications over the internet by using Azure Active Directory (Azure AD) guest accounts.
Requirements: Planned Changes
Contoso plans to deploy two applications named App1 and App2 to Azure.
Requirements: App1
App1 will be a Python web app hosted in Azure App Service that requires a Linux runtime. Users from
Contoso and Fabrikam will access App1.
App1 will access several services that require third-party credentials and access strings. The credentials and access strings are stored in Azure Key Vault.
App1 will have six instances: three in the East US Azure region and three in the West Europe Azure region.
App1 has the following data requirements:
Each instance will write data to a data store in the same availability zone as the instance.
Data written by any App1 instance must be visible to all App1 instances.

App1 will only be accessible from the internet. App1 has the following connection requirements:
Connections to App1 must pass through a web application firewall (WAF).
Connections to App1 must be active-active load balanced between instances.
All connections to App1 from North America must be directed to the East US region. All other connections must be directed to the West Europe region.
Every hour, you will run a maintenance task by invoking a PowerShell script that copies files from all the App1 instances. The PowerShell script will run from a central location.
Requirements: App2
App2 will be a NET app hosted in App Service that requires a Windows runtime. App2 has the following file storage requirements:
Save files to an Azure Storage account.
Replicate files to an on-premises location.
Ensure that on-premises clients can read the files over the LAN by using the SMB protocol.
You need to monitor App2 to analyze how long it takes to perform different transactions within the application. The solution must not require changes to the application code.
Application Development Requirements
Application developers will constantly develop new versions of App1 and App2. The development process must meet the following requirements:
A staging instance of a new application version must be deployed to the application host before the new version is used in production.
After testing the new version, the staging version of the application will replace the production version.
The switch to the new application version from staging to production must occur without any downtime of the application.
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.
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.

QUESTION 1
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

Correct Answer: D
Section:

QUESTION 2
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?

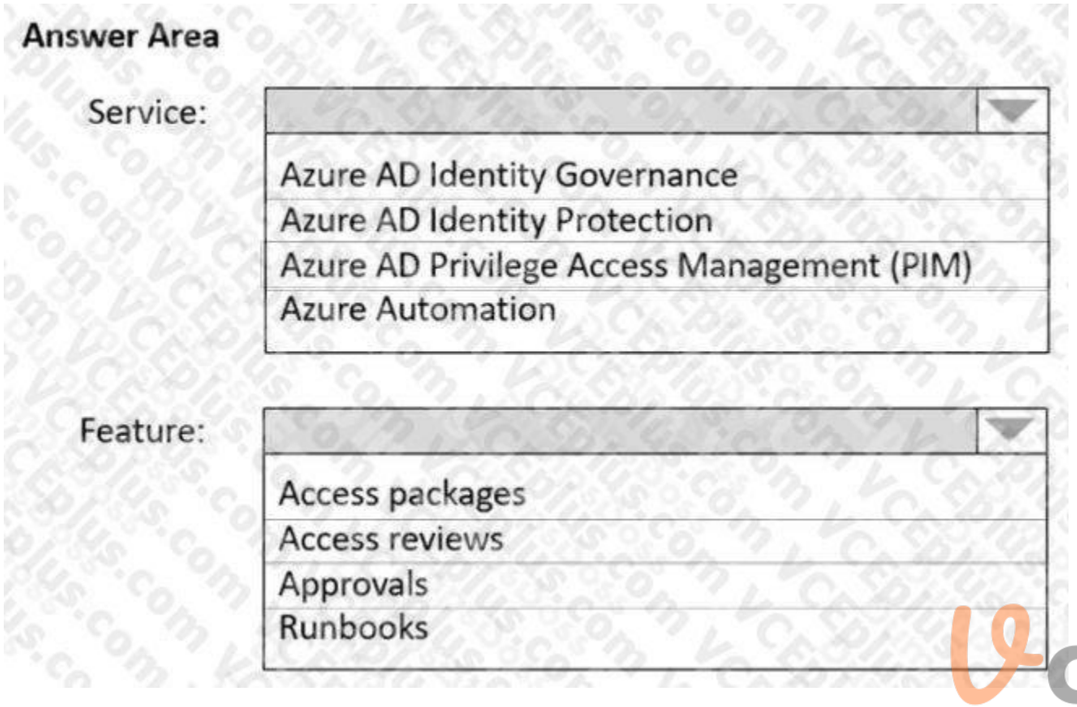
A. an Azure Cosmos DB that uses multi-region writes
B. an Azure Storage account that uses geo-zone-redundant storage (GZRS)
C. an Azure Data Lake store that uses geo-zone-redundant storage (GZRS)
D. an Azure SQL database that uses active geo-replication

Correct Answer: A
Section:

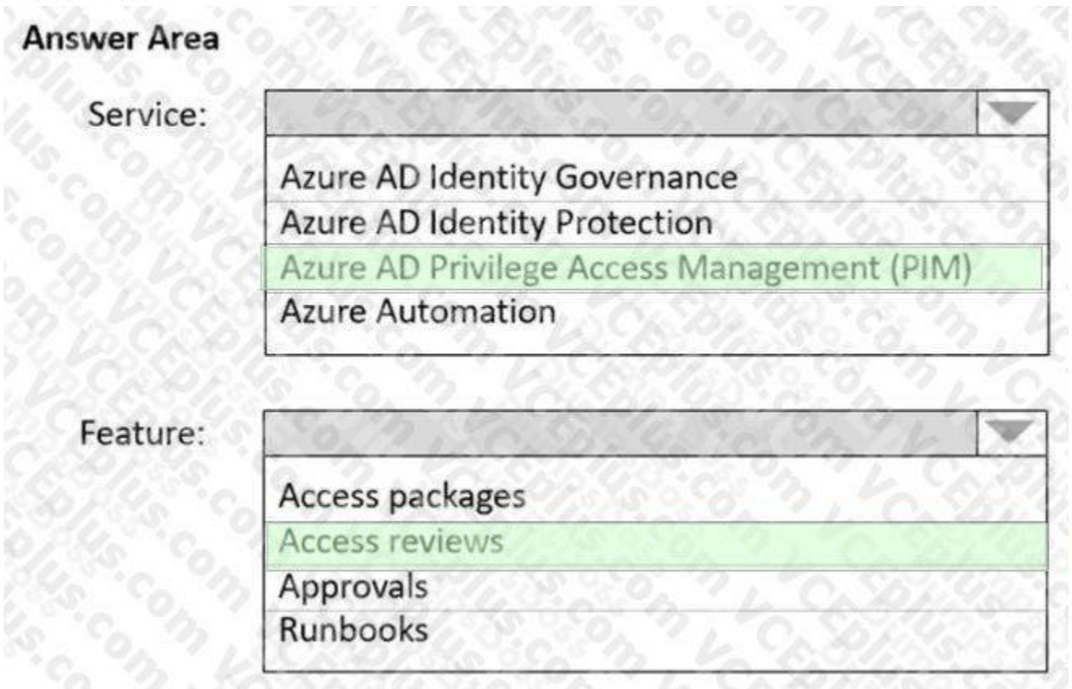
QUESTION 3

HOTSPOT
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.

Hot Area:



Answer Area:

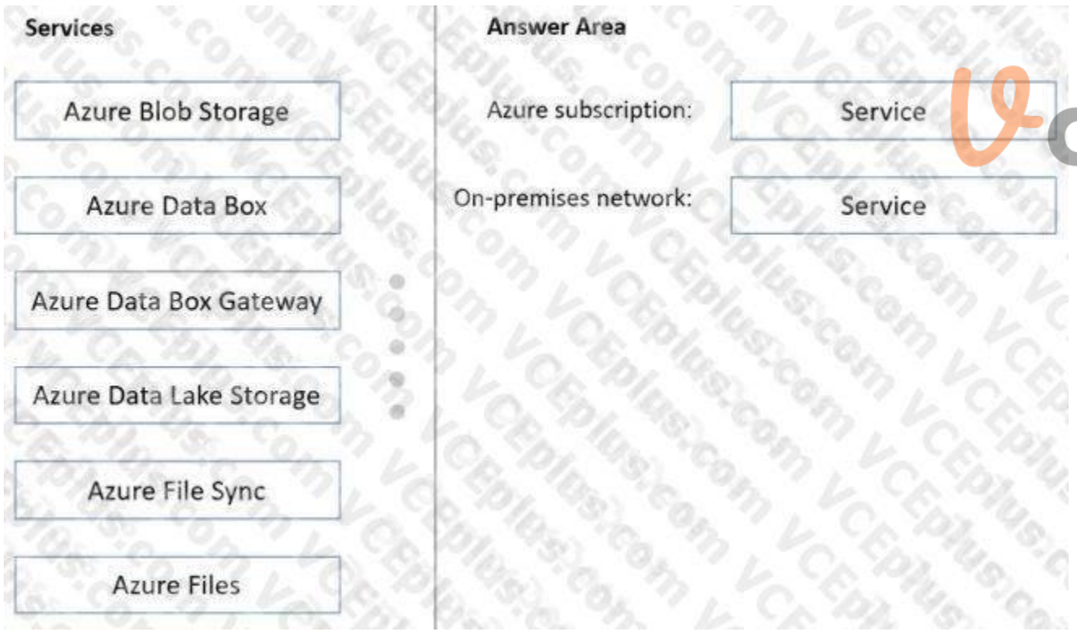


Section:

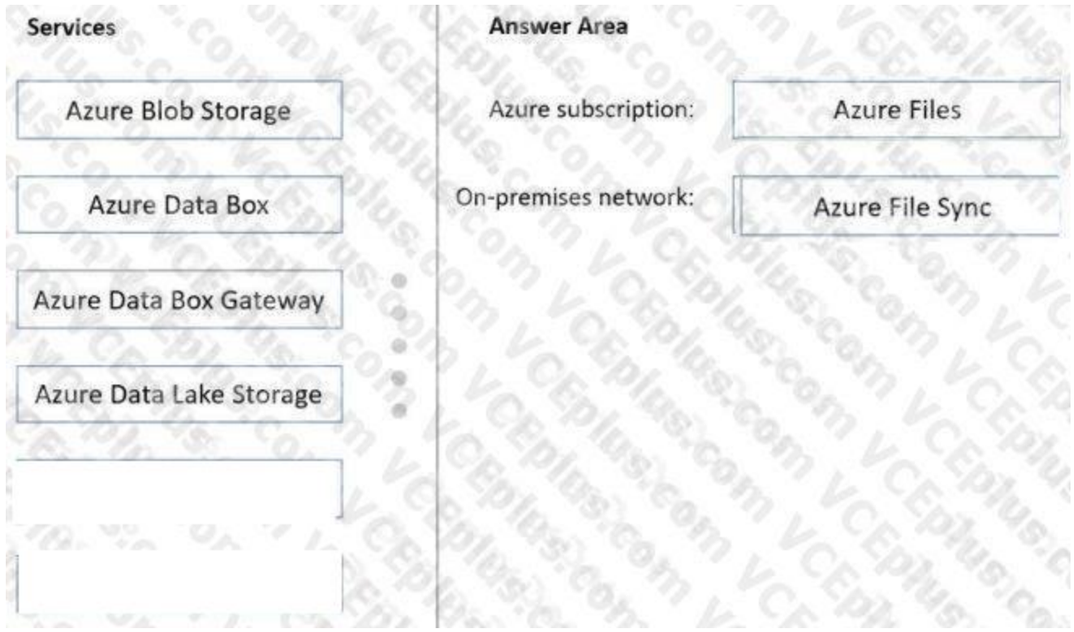
Explanation:
Requirements: Identity Requirements
Contoso identifies the following requirements for managing Fabrikam access to resources:
Every month, an account manager at Fabrikam must review which Fabrikam users have access permissions to App1. Accounts that no longer need permissions must be removed 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

QUESTION 4
DRAG DROP
You need to recommend a solution that meets the file storage requirements for App2.
What should you deploy to the Azure subscription and the on-premises network? To answer, drag the appropriate services to the correct locations. Each service may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.
NOTE: Each correct selection is worth one point.

Select and Place:



Correct Answer:



Section:
Explanation:
Box 1: Azure Files
Scenario: App2 has the following file storage requirements:
Save files to an Azure Storage account.
Replicate files to an on-premises location.
Ensure that on-premises clients can read the files over the LAN by using the SMB protocol.
Box 2: Azure File Sync
Use Azure File Sync to centralize your organization's file shares in Azure Files, while keeping the flexibility, performance, and compatibility of an on-premises file server. Azure File Sync transforms Windows Server into a quick cache of your Azure file share. You can use any protocol that's available on Windows Server to access your data locally, including SMB, NFS, and FTPS. You can have as many caches as you need across the world.
Reference: https://docs.microsoft.com/en-us/azure/storage/file-sync/file-sync-deployment-guide

QUESTION 5
You need to recommend a solution that meets the data requirements for App1.
What should you recommend deploying to each availability zone that contains an instance of App1?

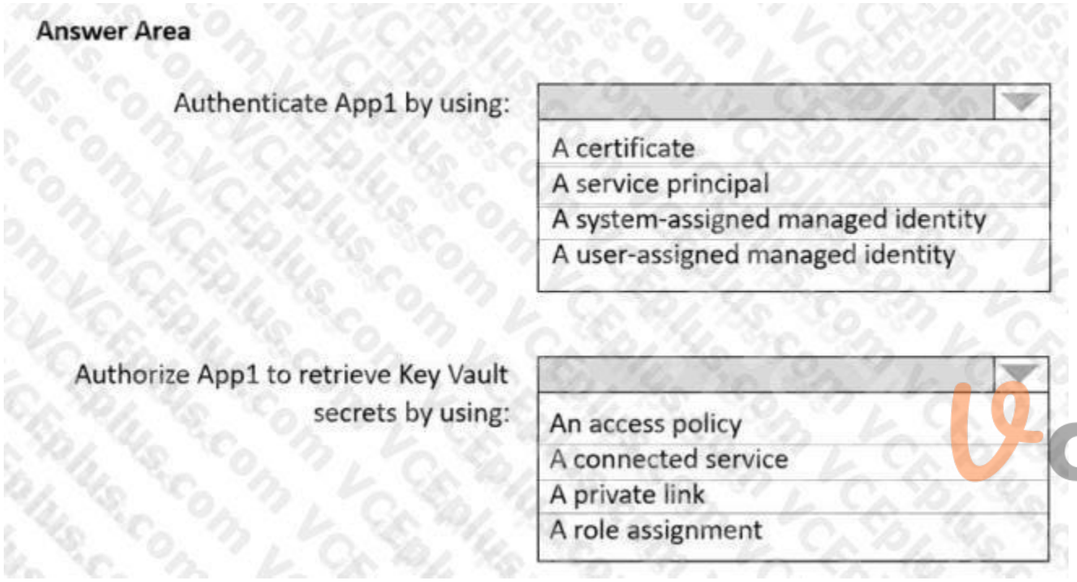
A. an Azure Cosmos DB that uses multi-region writes
B. an Azure Data Lake store that uses geo-zone-redundant storage (GZRS)
C. an Azure SQL database that uses active geo-replication
D. an Azure Storage account that uses geo-zone-redundant storage (GZRS)

Correct Answer: A
Section:
Explanation:
Scenario: App1 has the following data requirements:
Each instance will write data to a data store in the same availability zone as the instance. Data written by any App1 instance must be visible to all App1 instances. Azure Cosmos DB: Each partition across all the regions is replicated. Each region contains all the data partitions of an Azure Cosmos container and can serve reads as well as serve writes when multiregion writes is enabled. Incorrect Answers:
B, D: GZRS protects against failures. Geo-redundant storage (with GRS or GZRS) replicates your data to another physical location in the secondary region to protect against regional outages. However, that data is available to be read only if the customer or Microsoft initiates a failover from the primary to secondary region.

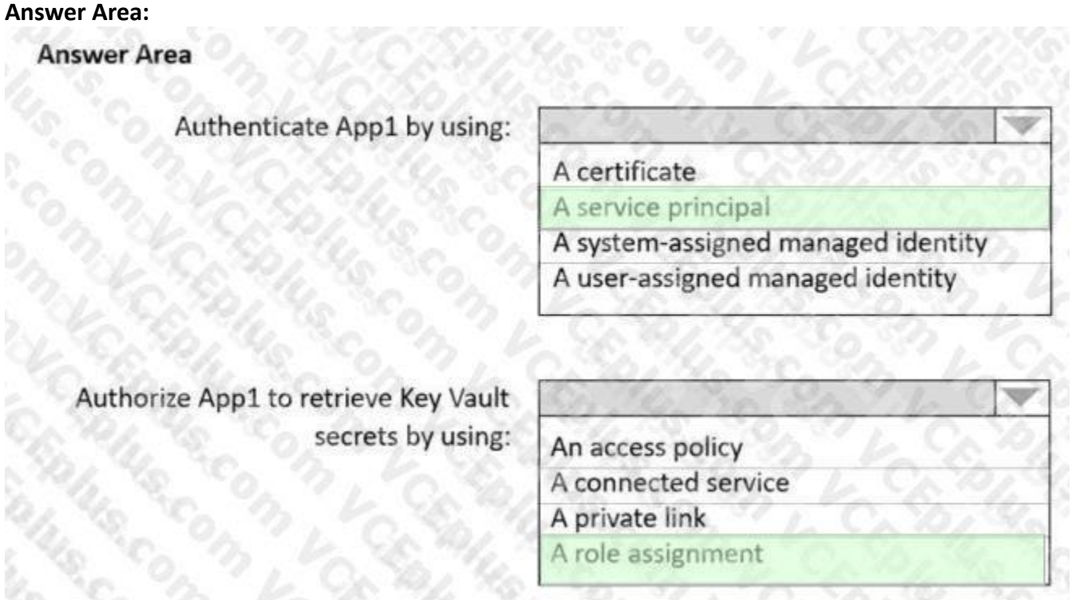
C: Active geo-replication is designed as a business continuity solution that lets you perform quick disaster recovery of individual databases in case of a regional disaster or a large scale outage. Once georeplication is set up, you can initiate a geo-failover to a geo-secondary in a different Azure region. The geo-failover is initiated programmatically by the application or manually by the user.
Reference:
https://docs.microsoft.com/en-us/azure/cosmos-db/high-availability

QUESTION 6
HOTSPOT
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.

Hot Area:



Answer Area:

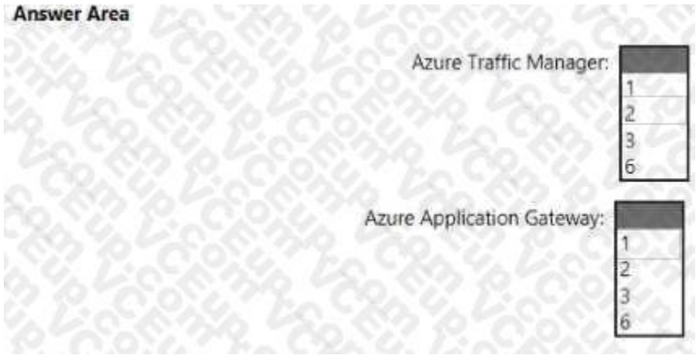


Section:

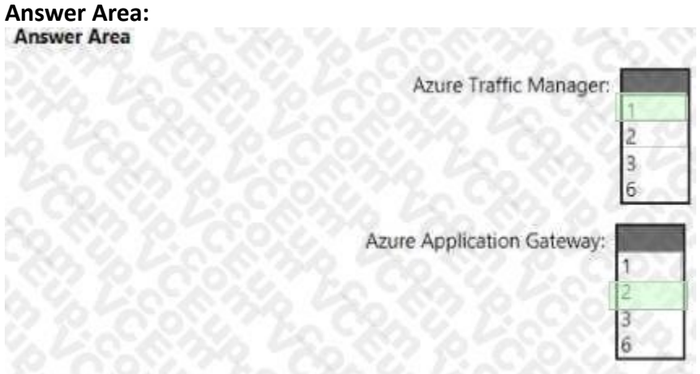
Explanation:
Scenario: Security Requirement
All secrets used by Azure services must be stored in Azure Key Vault.
Services that require credentials must have the credentials tied to the service instance. The credentials must NOT be shared between services. Box 1: A service principal
A service principal 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

QUESTION 7
HOTSPOT
You are evaluating whether to use Azure Traffic Manager and Azure Application Gateway to meet the connection requirements for App1. What is the minimum numbers of instances required for each service? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area:



Section:
Explanation:

QUESTION 8
You need to recommend a solution that meets the application development requirements.
What should you include in the recommendation?

A. an Azure Container Registry instance

B. deployment slots
C. Continuous Integration/Continuous Deployment (CI/CD) sources
D. the Azure App Configuration service

Correct Answer: B
Section:

QUESTION 9
What should you recommend lo meet the monitoring requirements for App2?

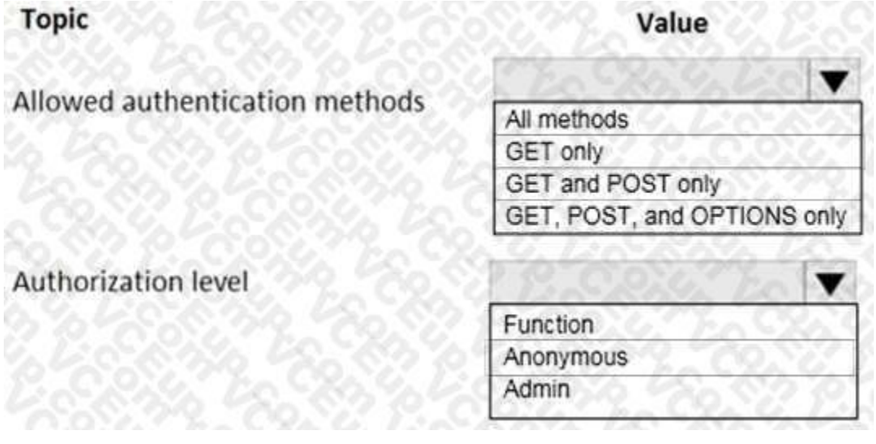
A. Azure Application Insights
B. Container insights
C. Microsoft Sentinel
D. VM insights

Correct Answer: A
Section:

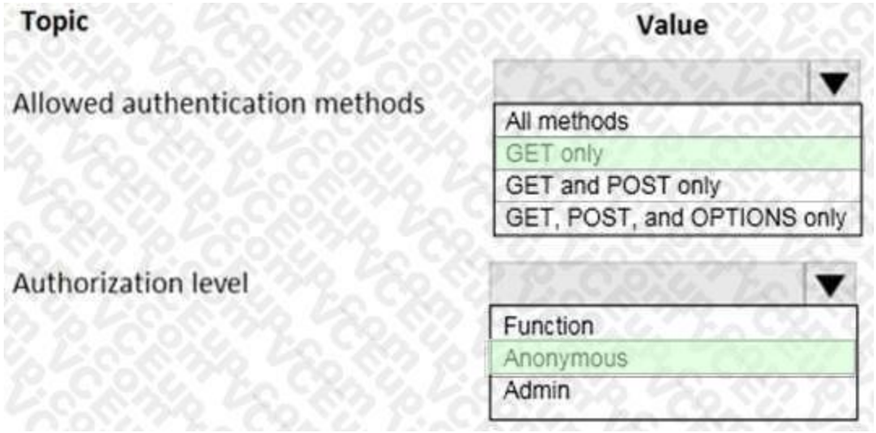
Exam A

QUESTION 1
HOTSPOT
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.

Hot Area:



Answer Area:



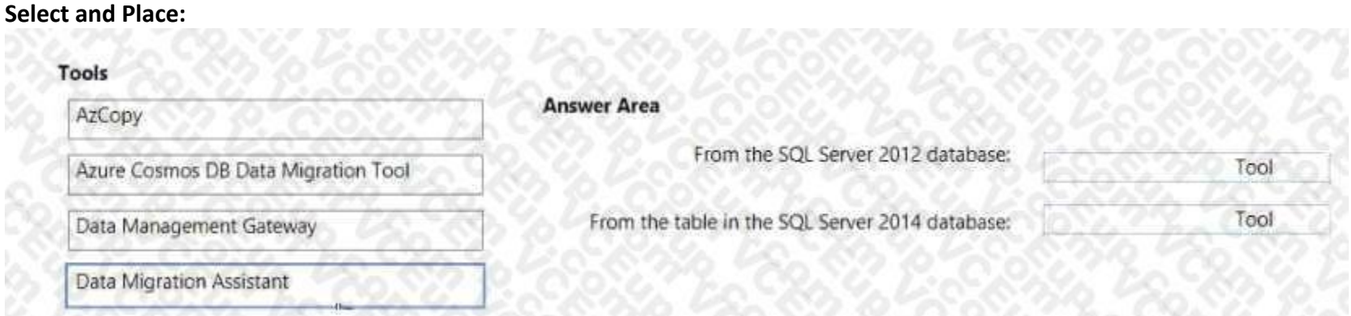
Section:
Explanation:
Allowed authentication methods: GET only
Authorization level: Anonymous
The option is Allow Anonymous requests. This option turns on authentication and authorization in App Service, but defers authorization decisions to your application code. For authenticated requests, App Service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

QUESTION 2
DRAG DROP
You plan to import data from your on-premises environment to Azure. The data Is shown in the following table.

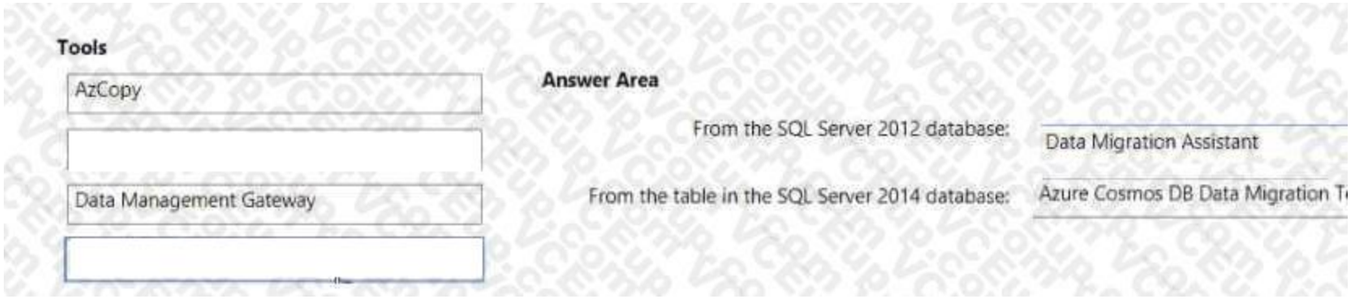
On-premises source	Azure target
A Microsoft SQL Server 2012 database	An Azure SQL database
A table in a Microsoft SQL Server 2014 database	An Azure Cosmos DB account that uses the SQL API

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

Select and Place:



Correct Answer:



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

QUESTION 3
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

Correct Answer: B
Section:

QUESTION 4
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

Correct Answer: B
Section:
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

QUESTION 5
You deploy two instances of an Azure web app. One instance is in the East US Azure region and the other instance is in the West US Azure region. The web app uses Azure Blob storage to deliver large files to end users. You need to recommend a solution for delivering the files to the users. The solution must meet the following requirements:
Ensure that the users receive files from the same region as the web app that they access.

Ensure that the files only need to be updated once.
Minimize costs.
What should you include in the recommendation?

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

Correct Answer: C
Section:

QUESTION 6
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.

Correct Answer: D
Section:
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/microsoftresources-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

QUESTION 7
A company needs a datastore created in Azure for an application. Below are the key requirements for the data store. Ability to store JSON based items
Ability to use SQL like queries on the datastore
Ability to provide low latency access to data items
Which of the following would you consider as the data store?

A. Azure BLOB storage
B. Azure CosmosDB
C. Azure HDInsight
D. Azure Redis

Correct Answer: B

Section:

QUESTION 8
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

Correct Answer: D
Section:

QUESTION 9
Your company currently has an application that is hosted on their on-premises environment. The application currently connects to two databases in the on-premises environment. The databases are named whizlabdb1 and whizlabdb2. You have to move the databases onto Azure. The databases have to support server-side transactions across both of the databases. Solution: You decide to deploy the databases to an Azure SQL database-managed instance. Would this fulfill the requirement?

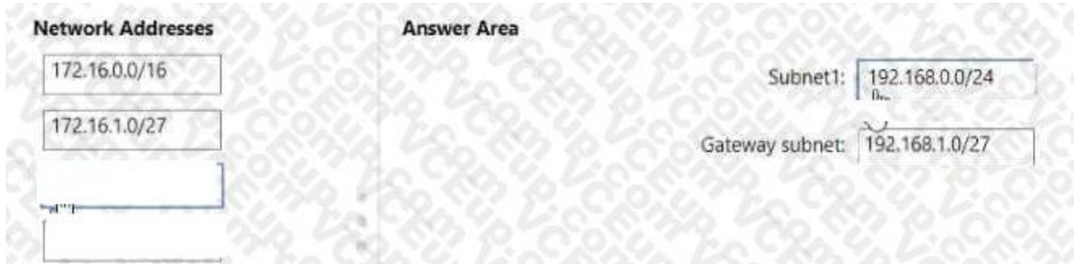
A. Yes
B. No

Correct Answer: A
Section:

QUESTION 10
DRAG DROP
You have an on-premises network that uses an IP address space of 172.16.0.0/16. You plan to deploy 25 virtual machines to a new Azure subscription. You identify the following technical requirements:
• All Azure virtual machines must be placed on the same subnet named Subnet1.
• All the Azure virtual machines must be able to communicate with all on-premises servers.
• 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 subnets. 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.

Select and Place:

Correct Answer:



Section:
Explanation:

QUESTION 11
HOTSPOT
You have an Azure web app named App1 and an Azure key vault named KV1.
App1 stores database connection strings in KV1.
App1 performs the following types of requests to KV1:
Get
List
Wrap
Delete
Unwrap
Backup
Decrypt
Encrypt
You are evaluating the continuity of service for App1.
You need to identify the following if the Azure region that hosts KV1 becomes unavailable:
To where will KV1 fail over?
During the failover, which request type will be unavailable?
What should you identify? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Hot Area:

To where will KV1 fail over?

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

During the failover, which request type will be unavailable?

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

Answer Area:

To where will KV1 fail over?

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

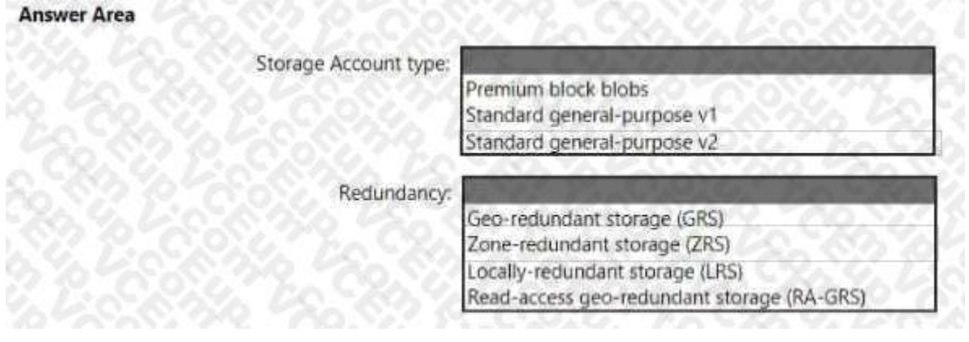
During the failover, which request type will be unavailable?

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

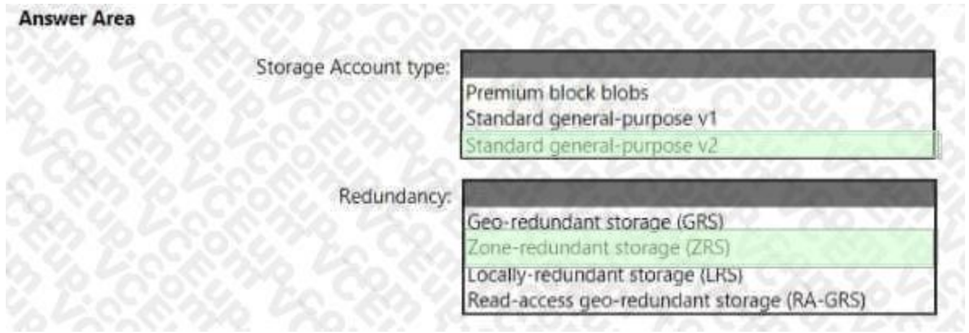
Section:
Explanation:
Box 1: A server in the same paired region
The contents of your key vault are replicated within the region and to a secondary region at least 150 miles away, but within the same geography to maintain high durability of your keys and secrets. Box 2: Delete
During failover, your key vault is in read-only mode. Requests that are supported in this mode are:
List certificates
Get certificates
List secrets
Get secrets
List keys
Get (properties of) keys
Encrypt
Decrypt
Wrap
Unwrap
Verify
Sign
Backup
Reference:
https://docs.microsoft.com/en-us/azure/key-vault/general/disaster-recovery-guidance

QUESTION 12
HOTSPOT
You have an on-premises file server that stores 2 TB of data files.
You plan to move the data files to Azure Blob Storage In the West Europe Azure region, You need to recommend a storage account type to store the data files and a replication solution for the storage account. The solution must meet the following requirements:
• Be available if a single Azure datacenter fails.
• Support storage tiers.
• Minimize cost.
What should you recommend? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Hot Area:



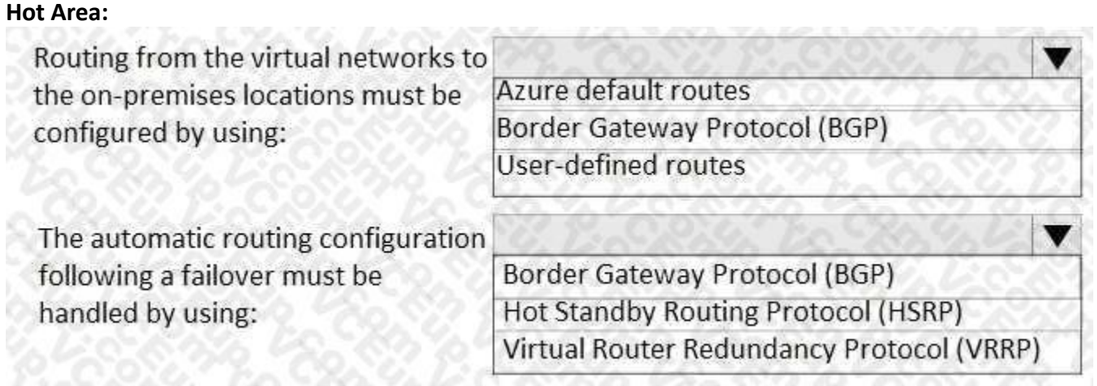
Answer Area:



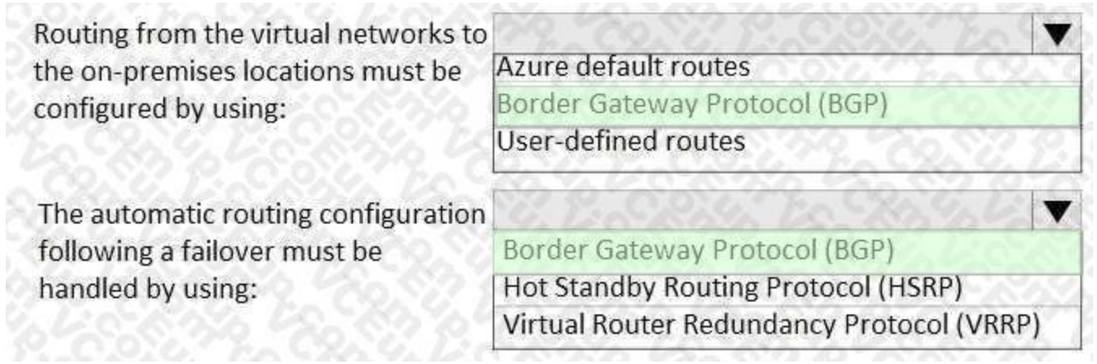
Section:
Explanation:
Account Type: StorageV2
Replication solution: Zone-redundant storage (ZRS)
https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy
https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy#supported-azurestorage-services https://docs.microsoft.com/en-us/azure/storage/common/storage-account-overview#types-ofstorage-accountsData must be available if a single Azure datacenter fails. It means the storage account must supportZRS replication. Also, solution should support storage tiers. Only General-purpose V2 supports ZRSand storage tiers.
https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers

QUESTION 13
HOTSPOT
Your company has two on-premises sites in New York and Los Angeles and Azure virtual networks in the East US Azure region and the West US Azure region. Each on-premises site has Azure ExpressRoute circuits to both regions. You need to recommend a solution that meets the following requirements:
Outbound traffic to the Internet from workloads hosted on the virtual networks must be routed through the closest available on-premises site. If an on-premises site fails, traffic from the workloads on the virtual networks to the Internet must reroute automatically to the other site. What should you include in the recommendation? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area:



Section:
Explanation:
An on-premises network gateway can exchange routes with an Azure virtual network gateway using the border gateway protocol (BGP). Using BGP with an Azure virtual network gateway is dependent on the type you selected when you created the gateway. If the type you selected were: ExpressRoute:
You must use BGP to advertise on-premises routes to the Microsoft Edge router. You cannot create user-defined routes to force traffic to the ExpressRoute virtual network gateway if you deploy a virtual network gateway deployed as type:
ExpressRoute. You can use user-defined routes for forcing traffic from the Express Route to, for example, a Network Virtual Appliance. https://docs.microsoft.com/ja-jp/azure/expressroute/designing-for-disaster-recovery-withQuestions& Answers PDF P-91expressroute-privatepeering https://docs.microsoft.com/en-us/azure/expressroute/expressroute-optimize-routing#suboptimalrouting-from-customer-to-microsoft

QUESTION 14
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

Correct Answer: A, C
Section:
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-ssohow-to https://docs.microsoft.com/en-us/azure/active-directory/app-proxy/application-proxy-deploymentplan

QUESTION 15
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.

Correct Answer: D
Section:
Explanation:
https://docs.microsoft.com/en-us/azure/active-directory/governance/access-reviewsoverview#learn-about-access-reviewsHave reviews recur periodically: You can set up recurring access reviews of users at set frequenciessuch as weekly, monthly, quarterly or annually, and the reviewers will be notified at the start of eachreview. Reviewers can approve or deny access with a friendly interface and with the help of smartrecommendations. 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/enus/azure/active-directory/governance/access-reviews-overview#example-license-scenariosThere are 4 requirements and every single one is only met by access reviews.
https://docs.microsoft.com/en-us/azure/active-directory/governance/access-reviewsoverview#when-should-you-use-access-reviewsDynamic 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-talkblog/dynamic-groups-in-azure-ad-and-microsoft-365/ba-p/2267494Implementing Azure AD PIM is no solution and absolutely not necessary for access reviews.
https://docs.microsoft.com/en-us/azure/active-directory/governance/access-reviewsoverview#where-do-you-create-reviews

QUESTION 16
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.
After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen. Your company deploys several virtual machines on-premises and to Azure. ExpressRoute is being deployed and configured for on-premises to Azure connectivity. Several virtual machines exhibit network connectivity issues.
You need to analyze the network traffic to identify whether packets are being allowed or denied to the virtual machines. Solution: Use Azure Traffic Analytics in Azure Network Watcher to analyze the network traffic.
Does this meet the goal?

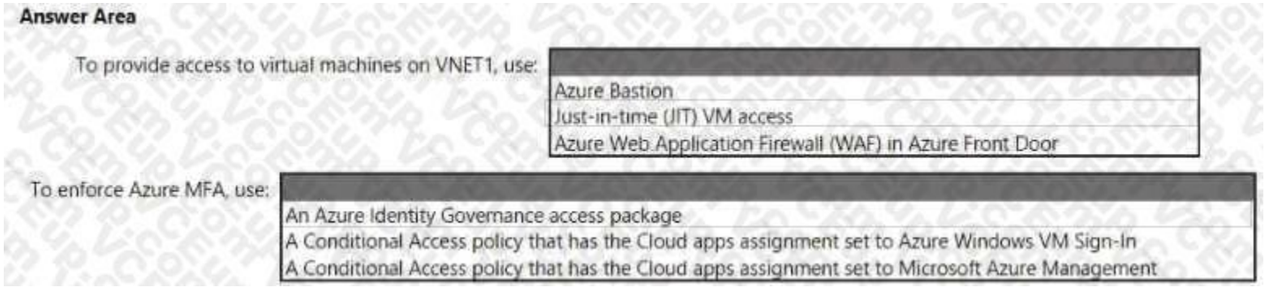
A. Yes
B. No

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

QUESTION 17
HOTSPOT
You have an Azure subscription that contains a virtual network named VNET1 and 10 virtual machines. The virtual machines are connected to VNET1. You need to design a solution to manage the virtual machines from the internet. The solution must meet the following requirements:
• Incoming connections to the virtual machines must be authenticated by using Azure Multi-Factor Authentication (MFA) before network connectivity is allowed.
• Incoming connections must use TLS and connect to TCP port 443.
• The solution must support RDP and SSH.

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

Hot Area:



Answer Area:

Section:

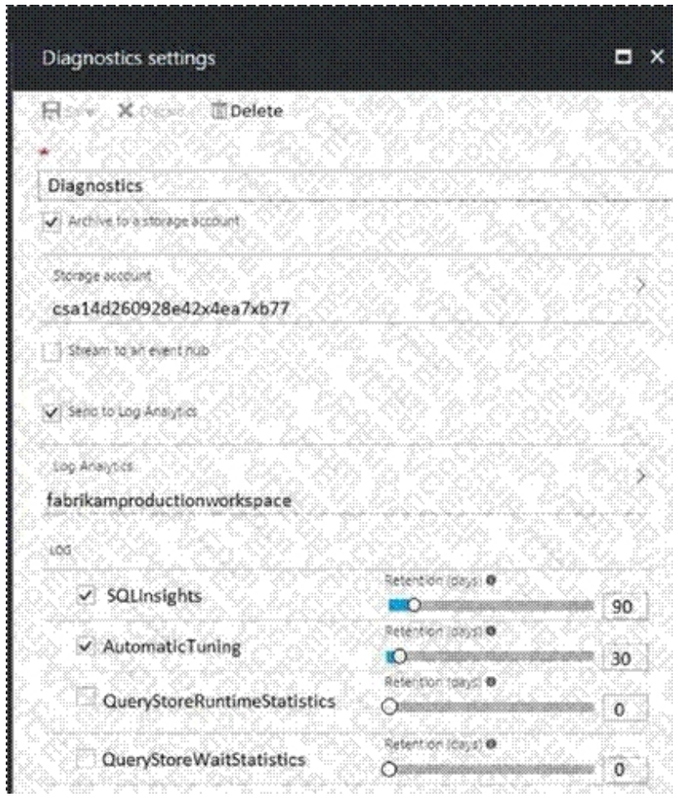
Explanation:

QUESTION 18

HOTSPOT

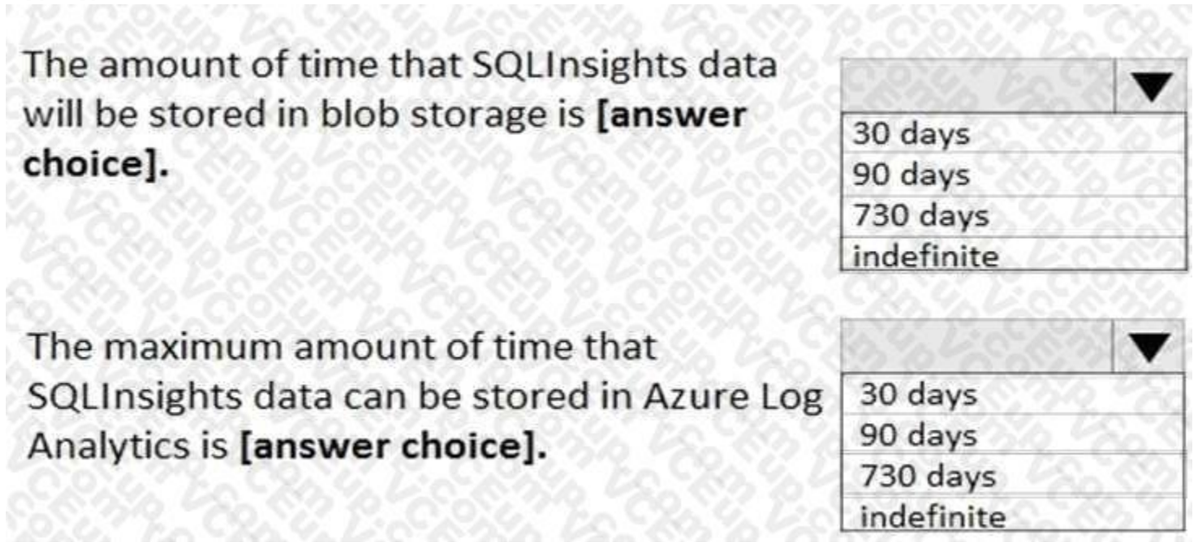
You deploy several Azure SQL Database instances.

You plan to configure the Diagnostics settings on the databases as shown in the following exhibit.

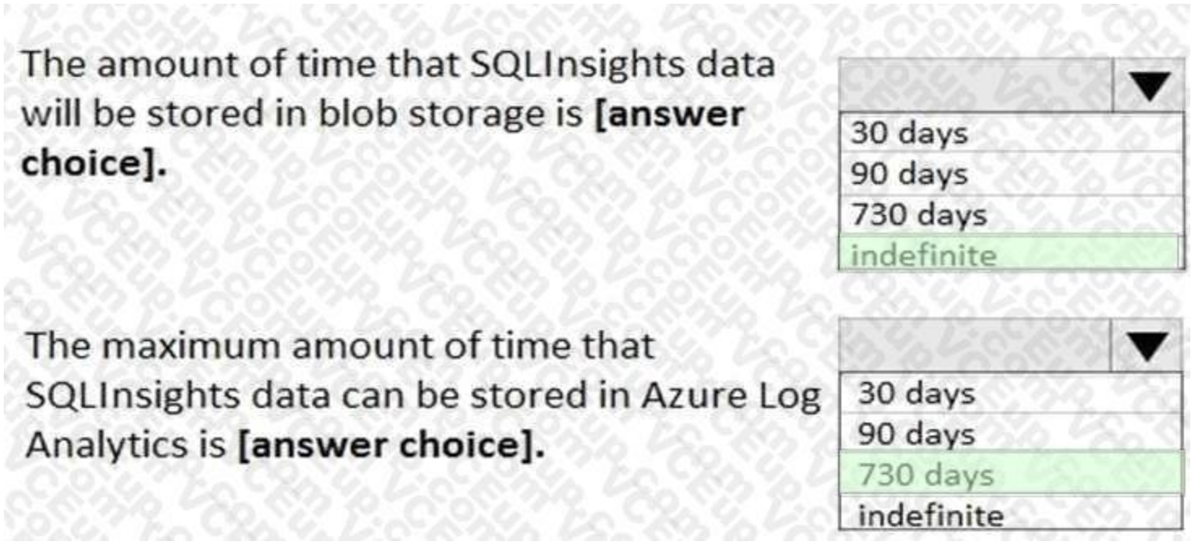


Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic. NOTE: Each correct selection is worth one point.

Hot Area:



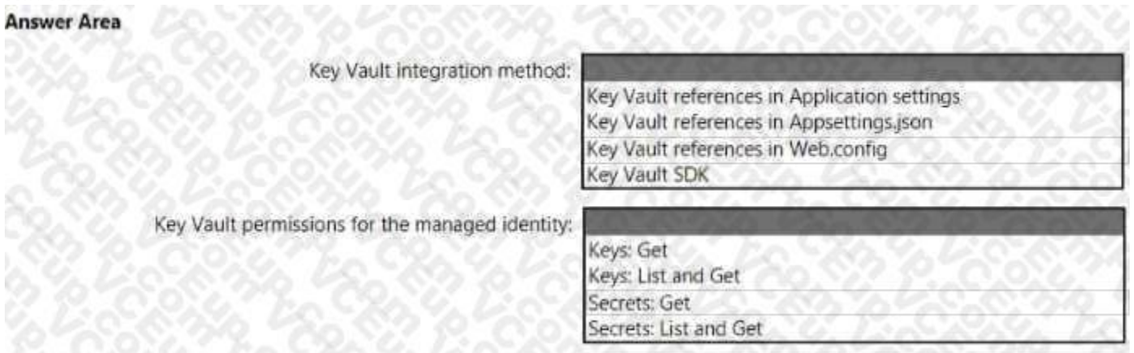
Answer Area:



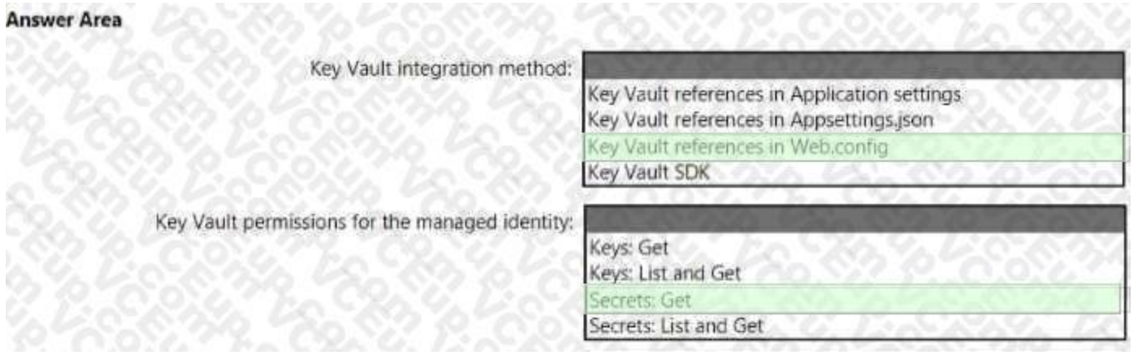
Section:
Explanation:
In the exhibit, the SQLInsights data is configured to be stored in Azure Log Analytics for 90 days. However, the question is asking for the "maximum" amount of time that the data can be stored which is 730 days.

QUESTION 19
HOTSPOT
You have an Azure App Service web app that uses a system-assigned managed identity.
You need to recommend a solution to store their settings of the web app as secrets in an Azure key vault The solution must meet the following requirements:
• Minimize changes to the app code,
• Use the principle of least privilege.
What should you include in the recommendation? To answer, select the appropriate options in the answer area.

Hot Area:



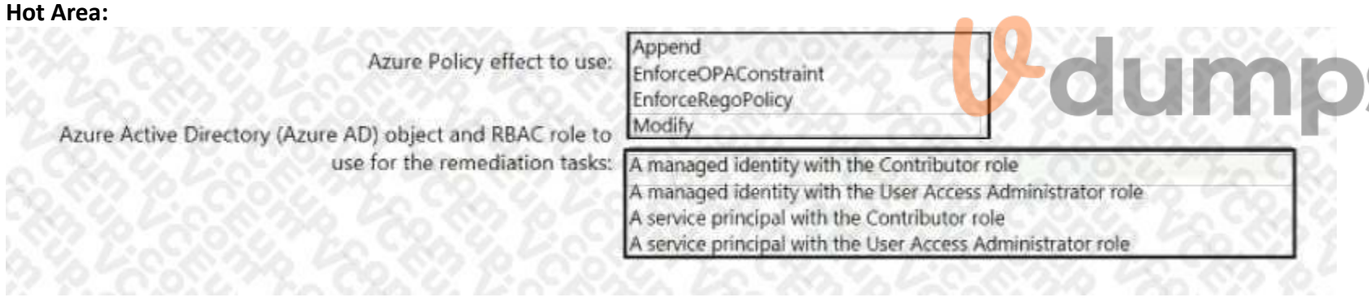
Answer Area:



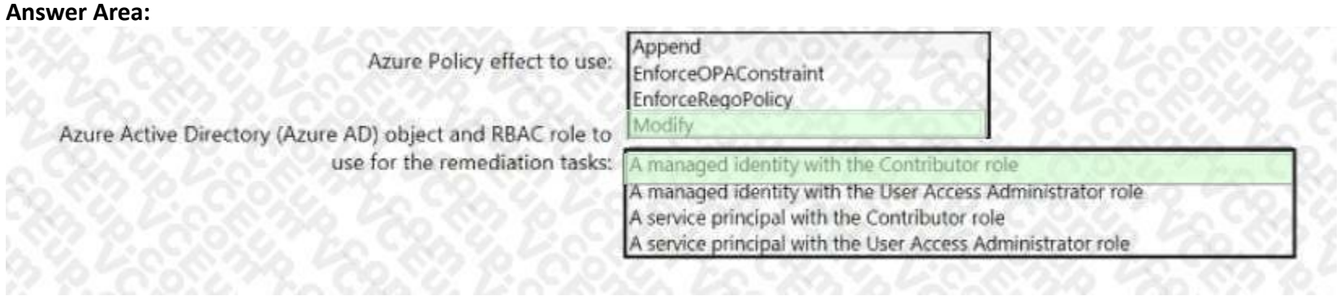
Section:
Explanation:

QUESTION 20
HOTSPOT
You need to design an Azure policy that will implement the following functionality:
• For new resources, assign tags and values that match the tags and values of the resource group to which the resources are deployed.
• For existing resources, identify whether the tags and values match the tags and values of the resource group that contains the resources.
• For any non-compliant resources, trigger auto-generated remediation tasks to create missing tags and values. The solution must use the principle of least privilege.
What should you include in the design? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area:



Section:
Explanation:
Box 1: Modify
Modify is used to add, update, or remove properties or tags on a resource during creation or update. A common example is updating tags on resources such as costCenter. Existing non-compliant resources can be remediated with a remediation task. A single Modify rule can have any number of operations. Box 2: A managed identity with the Contributor role
Managed identity
How remediation security works: When Azure Policy runs the template in the deployIfNotExists policy definition, it does so using a managed identity. Azure Policy creates a managed identity for each assignment, but must have details about what roles to grant the managed identity.

Contributor role
The Contributor role grants the required access to apply tags to any entity.
Reference:
https://docs.microsoft.com/en-us/azure/governance/policy/concepts/effects
https://docs.microsoft.com/en-us/azure/governance/policy/how-to/remediate-resources
https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/tag-resources
https://docs.microsoft.com/en-us/azure/governance/policy/concepts/effects#modify

QUESTION 21
HOTSPOT
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.

Hot Area:

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.	○	○

Answer Area:

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.	○	○

Section:
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-loggingstreaming-export-configure

QUESTION 22
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 Advisor to analyze the network traffic.
Does the solution meet the goal?

A. Yes
B. No

Correct Answer: B
Section:
Explanation:
Instead use Azure Network Watcher to run IP flow verify to analyze the network traffic.
Note: Advisor is a personalized cloud consultant that helps you follow best practices to optimize your Azure deployments. It analyzes your resource configuration and usage telemetry and then recommends solutions that can help you improve the cost effectiveness, performance, high availability, and security of your Azure resources. With Advisor, you can:
Get proactive, actionable, and personalized best practices recommendations.
Improve the performance, security, and high availability of your resources, as you identify opportunities to reduce your overall Azure spend. Get recommendations with proposed actions inline.
Reference:
https://docs.microsoft.com/en-us/azure/advisor/advisor-overview

QUESTION 23
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

Correct Answer: A
Section:
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

QUESTION 24
You are designing a large Azure environment that will contain many subscriptions.
You plan to use Azure Policy as part of a governance solution.
To which three scopes can you assign Azure Policy definitions? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

A. management groups
B. subscriptions
C. Azure Active Directory (Azure AD) tenants
D. resource groups
E. Azure Active Directory (Azure AD) administrative units
F. compute resources

Correct Answer: A, D, E
Section:
Explanation:
Azure Policy evaluates resources in Azure by comparing the properties of those resources to business rules. Once your business rules have been formed, the policy definition or initiative is assigned to any scope of resources that Azure supports, such as management groups, subscriptions, resource groups, or individual resources.
Reference:
https://docs.microsoft.com/en-us/azure/governance/policy/overview

QUESTION 25
You need to recommend a solution to generate a monthly report of all the new Azure Resource Manager resource deployment in your subscription. What should you include in the recommendation?

A. Azure Analysis Services
B. Application Insights
C. Azure Monitor action groups
D. Azure Log Analytics

Correct Answer: D
Section:
Explanation:
Activity logs are kept for 90 days. You can query for any range of dates, as long as the starting date isn't more than 90 days in the past. Through activity logs, you can determine: what operations were taken on the resources in your subscription who started the operation when the operation occurred the status of the operation the values of other properties that might help you research the operation
Reference:
https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/view-activity-logs
https://docs.microsoft.com/en-us/azure/automation/change-tracking

QUESTION 26
You have 100 servers that run Windows Server 2012 R2 and host Microsoft SQL Server 2012 R2 instances. The instances host databases that have the following characteristics:
The largest database is currently 3 TB. None of the databases will ever exceed 4 TB.
Stored procedures are implemented by using CLR.
You plan to move all the data from SQL Server to Azure.

You need to recommend an Azure service to host the databases. The solution must meet the following requirements:
Whenever possible, minimize management overhead for the migrated databases.
Minimize the number of database changes required to facilitate the migration.
Ensure that users can authenticate by using their Active Directory credentials.
What should you include in the recommendation?

A. Azure SQL Database single databases
B. Azure SQL Database Managed Instance
C. Azure SQL Database elastic pools
D. SQL Server 2016 on Azure virtual machines

Correct Answer: B
Section:
Explanation:
Reference:
https://docs.microsoft.com/en-us/azure/sql-database/sql-database-managed-instanceSQL Managed Instance allows existing SQL Server customers to lift and shift their on-premisesapplications to the cloud with minimal application and database changes. At the same time, SQLManaged Instance preserves all PaaS capabilities (automatic patching and version updates,automated backups, high availability) that drastically reduce management overhead and TCO.
https://docs.microsoft.com/en-us/azure/azure-sql/managed-instance/transact-sql-tsql-differencessql-server#clr https://docs.microsoft.com/en-gb/azure/azure-sql/database/transact-sql-tsql-differences-sqlserver#transact-sql-syntax-not-supported-in-azure-sql-database

QUESTION 27
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

Correct Answer: D, E
Section:
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-tablefrom-on-premise.html

QUESTION 28
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

Correct Answer: B
Section:
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-topicssubscriptions

QUESTION 29
The application will host video files that range from 50 MB to 12 GB. The application will use certificate-based authentication and will be available to users on the internet. You need to recommend a storage option for the video files. The solution must provide the fastest read performance and must minimize storage costs. What should you recommend?

A. Azure Files
B. Azure Data Lake Storage Gen2
C. Azure Blob Storage
D. Azure SQL Database

Correct Answer: C
Section:
Explanation:
Blob Storage: Stores large amounts of unstructured data, such as text or binary data, that can be accessed from anywhere in the world via HTTP or HTTPS. You can use Blob storage to expose data publicly to the world, or to store application data privately.
Max file in Blob Storage. 4.77 TB.
Reference:
https://docs.microsoft.com/en-us/azure/architecture/solution-ideas/articles/digital-media-video

QUESTION 30
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

Correct Answer: D
Section:
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-computeauto-scaling-in-azure/ba-p/966149

QUESTION 31
You are planning an Azure IoT Hub solution that will include 50,000 IoT devices.
Each device will stream data, including temperature, device ID, and time dat a. Approximately 50,000 records will be written every second. The data will be visualized in near real time. You need to recommend a service to store and query the data.
Which two services can you recommend? Each correct answer presents a complete solution.
NOTE: Each correct selection is worth one point.

A. Azure Table Storage
B. Azure Event Grid
C. Azure Cosmos DB SQL API
D. Azure Time Series Insights

Correct Answer: C, D
Section:
Explanation:
D: Time Series Insights is a fully managed service for time series data. In this architecture, Time Series Insights performs the roles of stream processing, data store, and analytics and reporting. It accepts streaming data from either IoT Hub or Event Hubs and stores, processes, analyzes, and displays the data in near real time.
C: The processed data is stored in an analytical data store, such as Azure Data Explorer, HBase, Azure Cosmos DB, Azure Data Lake, or Blob Storage.
Reference:
https://docs.microsoft.com/en-us/azure/architecture/data-guide/scenarios/time-series

QUESTION 32
You are designing an application that will aggregate content for users.
You need to recommend a database solution for the application. The solution must meet the following requirements:
Support SQL commands.
Support multi-master writes.
Guarantee low latency read operations.
What should you include in the recommendation?

A. Azure Cosmos DB SQL API
B. Azure SQL Database that uses active geo-replication
C. Azure SQL Database Hyperscale
D. Azure Database for PostgreSQL

Correct Answer: A
Section:
Explanation:
With Cosmos DB's novel multi-region (multi-master) writes replication protocol, every region supports both writes and reads. The multi-region writes capability also enables:
Unlimited elastic write and read scalability.
99.999% read and write availability all around the world.
Guaranteed reads and writes served in less than 10 milliseconds at the 99th percentile.
Reference:
https://docs.microsoft.com/en-us/azure/cosmos-db/distribute-data-globally

QUESTION 33
You have SQL Server on an Azure virtual machine. The databases are written to nightly as part of a batch process. You need to recommend a disaster recovery solution for the dat a. The solution must meet the following requirements:
Provide the ability to recover in the event of a regional outage.
Support a recovery time objective (RTO) of 15 minutes.
Support a recovery point objective (RPO) of 24 hours.
Support automated recovery.
Minimize costs.
What should you include in the recommendation?

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

Correct Answer: D
Section:
Explanation:
Replication with Azure Site Recover:
RTO is typically less than 15 minutes.
RPO: One hour for application consistency and five minutes for crash consistency.
Reference:
https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-sql

QUESTION 34
Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.
After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen. You need to deploy resources to host a stateless web app in an Azure subscription. The solution must meet the following requirements:
Provide access to the full .NET framework.
Provide redundancy if an Azure region fails.
Grant administrators access to the operating system to install custom application dependencies.
Solution: You deploy two Azure virtual machines to two Azure regions, and you create a Traffic Manager profile. Does this meet the goal?

A. Yes
B. No

Correct Answer: A
Section:
Explanation:
Azure Traffic Manager is a DNS-based traffic load balancer that enables you to distribute traffic optimally to services across global Azure regions, while providing high availability and responsiveness.
https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-overview

QUESTION 35
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

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

QUESTION 36
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 Azure virtual machine scale set that uses autoscaling.
Does this meet the goal?

A. Yes
B. No

Correct Answer: B
Section:
Explanation:
Instead, you should deploy two Azure virtual machines to two Azure regions, and you create a Traffic Manager profile.

QUESTION 37
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.

Correct Answer: D
Section:
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 appmakes use of any COM components, these need to be rewritten in managed code and deployed withthe 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."

QUESTION 38
You have an Azure subscription that contains a Basic Azure virtual WAN named Virtual/WAN1 and the virtual hubs shown in the following table.

Name	Azure region
Hub1	US East
Hub2	US West

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

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

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

QUESTION 39
You have an Azure subscription that contains a storage account.
An application sometimes writes duplicate files to the storage account.
You have a PowerShell script that identifies and deletes duplicate files in the storage account.
Currently, the script is run manually after approval from the operations manager.
You need to recommend a serverless solution that performs the following actions:
Runs the script once an hour to identify whether duplicate files exist Sends an email notification to the operations manager requesting approval to delete the duplicate files Processes an email response from the operations manager specifying whether the deletion was approved Runs the script if the deletion was approved What should you include in the recommendation?

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

Correct Answer: A
Section:
Explanation:
You can schedule a powershell script with Azure Logic Apps.
When you want to run code that performs a specific job in your logic apps, you can create your own function by using Azure Functions. This service helps you create Node.js, C#, and F# functions so you don't have to build a complete app or infrastructure to run code. You can also call logic apps from inside Azure functions. Azure Functions provides serverless computing in the cloud and is useful for performing tasks such as these examples:
Reference:
https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-azure-functions

QUESTION 40
Your company has the infrastructure shown in the following table.

Location	Resource
Azure	• Azure subscription named Subscription1 • 20 Azure web apps
On-premises datacenter	• Active Directory domain • Server running Azure AD Connect • Linux computer named Server1

The on-premises Active Directory domain syncs to Azure Active Directory (Azure AD).
Server1 runs an application named Appl that uses LDAP queries to verify user identities in the onpremises Active Directory domain. You plan to migrate Server1 to a virtual machine in Subscription1.
A company security policy states that the virtual machines and services deployed to Subscription1 must be prevented from accessing the on-premises network. You need to recommend a solution to ensure that Appl continues to function after the migration. The solution must meet the security policy. What should you include in the recommendation?

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

Correct Answer: A
Section:
Explanation:
https://docs.microsoft.com/en-us/azure/active-directory-domain-services/overviewAzure Active Directory Domain Services (Azure AD DS) provides managed domain services such asdomain join, group policy, lightweight directory access protocol (LDAP), and Kerberos/NTLMauthenticationAzure AD Domain Services (Azure AD DS) - This one could work since AAD DS will bring in the existingaccounts from Azure AD which in turn are synchronised from on-premise AD over AD connect.
However, you would probably need to reconfigure the app and update the LDAP connection Azure Active Directory (Azure AD) supports LDAP Authentication via Azure AD Domain Services (AD DS). https://docs.microsoft.com/en-us/azure/active-directory/fundamentals/auth-ldap
https://docs.microsoft.com/en-us/azure/active-directory-domain-services/synchronization

QUESTION 41
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

Correct Answer: D
Section:
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-azurefunctions/ba-p/1426615
Reference:
https://docs.microsoft.com/en-us/azure/azure-functions/functions-scale#hosting-plans-comparison

QUESTION 42
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

Correct Answer: B
Section:
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

QUESTION 43
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)

Correct Answer: A
Section:
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

QUESTION 44
You have .NeT web service named service1 that has the following requirements.
Must read and write to the local file system.
Must write to the Windows Application event log.
You need to recommend a solution to host Service1 in Azure . The solution must meet the following requirements:
Minimize maintenance overhead.
Minimize costs.

What should you include in the recommendation?

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

Correct Answer: A
Section:
Explanation:
https://social.msdn.microsoft.com/Forums/vstudio/en-US/294b9e3e-e89c-4095-b8d0-ee1646e77268/writing-to-local-file-system-from-web-app-inazure?forum=windowsazurewebsitespreview

QUESTION 45
You have the Azure resources shown in the following table.

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

You need to deploy a new Azure Firewall policy that will contain mandatory rules for all Azure Firewall deployments. The new policy will be configured as a parent policy for the existing policies. What is the minimum number of additional Azure Firewall policies you should create?

A. 0
B. 1
C. 2
D. 3

Correct Answer: B
Section:
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

QUESTION 46
Your company has an app named App1 that uses data from the on-premises Microsoft SQL Server databases shown in the following table.

Name	Size
DB1	450 GB
DB2	250 GB
DB3	300 GB
DB4	50 GB

App1 and the data are used on the first day of the month only. The data is not expected to grow more than 3% each year. The company is rewriting App1 as an Azure web app and plans to migrate all the data to Azure.
You need to migrate the data to Azure SQL Database. The solution must minimize costs.
Which service tier should you use?

A. vCore-based Business Critical
B. vCore-based General Purpose
C. DTU-based Standard
D. DTU-based Basic

Correct Answer: B
Section:
Explanation:
DTU-based Standard supports databases up to 1 TB in size.
Reference:
https://docs.microsoft.com/en-us/azure/azure-sql/database/service-tiers-dtu

QUESTION 47
You are developing a sales application that will contain several Azure cloud services and will handle different components of a transaction. Different cloud services will process customer orders, billing, payment, inventory, and shipping. You need to recommend a solution to enable the cloud services to asynchronously communicate transaction information by using REST messages. What should you include in the recommendation?

A. Azure Service Bus
B. Azure Blob storage
C. Azure Notification Hubs
D. Azure Application Gateway

Correct Answer: A
Section:
Explanation:
Service Bus is a transactional message broker and ensures transactional integrity for all internal operations against its message stores. All transfers of messages inside of Service Bus, such as moving messages to a dead-letter queue or automatic forwarding of messages between entities, are transactional.
Reference:
https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-transactions" Service Bus offers a reliable and secure platform for asynchronous transfer of data and state." ...
"Service Bus supports standard AMQP 1.0 and HTTP/REST protocols." https://docs.microsoft.com/enus/azure/service-bus-messaging/service-bus-messaging-overview

QUESTION 48
Your company has 300 virtual machines hosted in a VMware environment. The virtual machines vary in size and have various utilization levels. You plan to move all the virtual machines to Azure.
You need to recommend how many and what size Azure virtual machines will be required to move the current workloads to Azure. The solution must minimize administrative effort. What should you use to make the recommendation?

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

Correct Answer: C
Section:
Explanation:
https://docs.microsoft.com/en-us/azure/migrate/migrate-appliance#collected-data---vmware"Metadata discovered by the Azure Migrate appliance helps you to figure out whether servers areready for migration to Azure, right-size servers, plans costs, and analyze application dependencies".
https://docs.microsoft.com/en-us/learn/modules/design-your-migration-to-azure/2-plan-yourazure-migration

QUESTION 49
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

Correct Answer: B
Section:
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

QUESTION 50
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

Correct Answer: B
Section:
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

QUESTION 51
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

Correct Answer: B
Section:
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

QUESTION 52
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

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

QUESTION 53
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 initiative to enforce the location.
Does this meet the goal?

A. Yes
B. No

Correct Answer: A
Section:
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

QUESTION 54
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 the Regulatory compliance dashboard in Azure Security Center.
Does this meet the goal?

A. Yes
B. No

Correct Answer: B
Section:
Explanation:
The Regulatory compliance dashboard in Azure Security Center is not used for regional compliance.
Note: Instead Azure Resource Policy Definitions can be used which can be applied to a specific Resource Group with the App Service instances. Note 2: In the Azure Security Center regulatory compliance blade, you can get an overview of key portions of your compliance posture with respect to a set of supported standards. Currently supported standards are Azure CIS, PCI DSS 3.2, ISO 27001, and SOC TSP.
Reference:
https://docs.microsoft.com/en-us/azure/governance/policy/overview
https://azure.microsoft.com/en-us/blog/regulatory-compliance-dashboard-in-azure-security-centernow-available/

QUESTION 55
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

Correct Answer: A

Section:
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

QUESTION 56
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 creating resource groups based on locations and implementing resource locks on the resource groups. Does this meet the goal?

A. Yes
B. No

Correct Answer: B
Section:
Explanation:
Resource locks are not used for compliance purposes. Resource locks prevent changes from being made to resources.
Reference:
https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/lock-resources

QUESTION 57
Your company, named Contoso, Ltd., implements several Azure logic apps that have HTTP triggers.
The logic apps provide access to an on-premises web service.
Contoso establishes a partnership with another company named Fabrikam. IncL Fabrikam does not have an existing Azure Active Directory (Azure AD) tenant and uses third-party OAuth 2.0 identity management to authenticate its users. I Developers at Fabrikam plan to use a subset of the logic apps to build applications that will integrate with the on-premises web service of Contoso. You need to design a solution to provide the Fabrikam developers with access to the logic apps. The solution must meet the following requirements:
• Requests to the logic apps from the developers must be limited to lower rates than the requests from the users at Contoso.
• The developers must be able to rely on their existing OAuth 2.0 provider to gain access to the logic apps.
• The solution must NOT require changes to the logic apps.
• The solution must NOT use Azure AD guest accounts.
What should you include in the solution?

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

Correct Answer: B
Section:
Explanation:

QUESTION 58

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

Correct Answer: B
Section:
Explanation:
https://docs.microsoft.com/en-us/azure/aks/virtual-nodes

QUESTION 59
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. horizontal pod autoscaler
B. Kubernetes version 1.20.2 or newer
C. cluster autoscaler
D. Virtual nodes
E. with Virtual Kubelet ACI

Correct Answer: C
Section:
Explanation:
https://docs.microsoft.com/en-us/azure/aks/cluster-autoscaler#about-the-cluster-autoscaler

QUESTION 60
You are designing an order processing system in Azure that will contain the Azure resources shown in the following table.

Name	Type	Purpose
App1	Web app	Processes customer orders
Function1	Function	Check product availability at vendor 1
Function2	Function	Check product availability at vendor 2
storage1	Storage account	Stores order processing logs

The order processing system will have the following transaction flow:
A customer will place an order by using App1.
When the order is received, App1 will generate a message to check for product availability at vendor 1 and vendor 2. An integration component will process the message, and then trigger either Function1 or Function2 depending on the type of order. Once a vendor confirms the product availability, a status message for App1 will be generated by Function1 or Function2. All the steps of the transaction will be logged to storage1.
Which type of resource should you recommend for the integration component?

A. an Azure Data Factory pipeline

B. an Azure Service Bus queue
C. an Azure Event Grid domain
D. an Azure Event Hubs capture

Correct Answer: A
Section:
Explanation:
A data factory can have one or more pipelines. A pipeline is a logical grouping of activities that together perform a task. The activities in a pipeline define actions to perform on your data.
Data Factory has three groupings of activities: data movement activities, data transformation activities, and control activities. Azure Functions is now integrated with Azure Data Factory, allowing you to run an Azure function as a step in your data factory pipelines.
Reference:
https://docs.microsoft.com/en-us/azure/data-factory/concepts-pipelines-activities

QUESTION 61
You plan to deploy 10 applications to Azure. The applications will be deployed to two Azure Kubernetes Service (AKS) clusters. Each cluster will be deployed to a separate Azure region. The application deployment must meet the following requirements:
• Ensure that the applications remain available if a single AKS cluster fails.
• Ensure that the connection traffic over the internet is encrypted by using SSL without having to configure SSL on each container. Which service should you include in the recommendation?

A. AKS ingress controller
B. Azure Traffic Manager
C. Azure Front Door
D. Azure Load Balancer

Correct Answer: C
Section:
Explanation:
"Azure Front Door, which focuses on global load-balancing and site acceleration, and Azure CDN Standard, which offers static content caching and acceleration. The new Azure Front Door brings together security with CDN technology for a cloud-based CDN with threat protection and additional capabilities. "

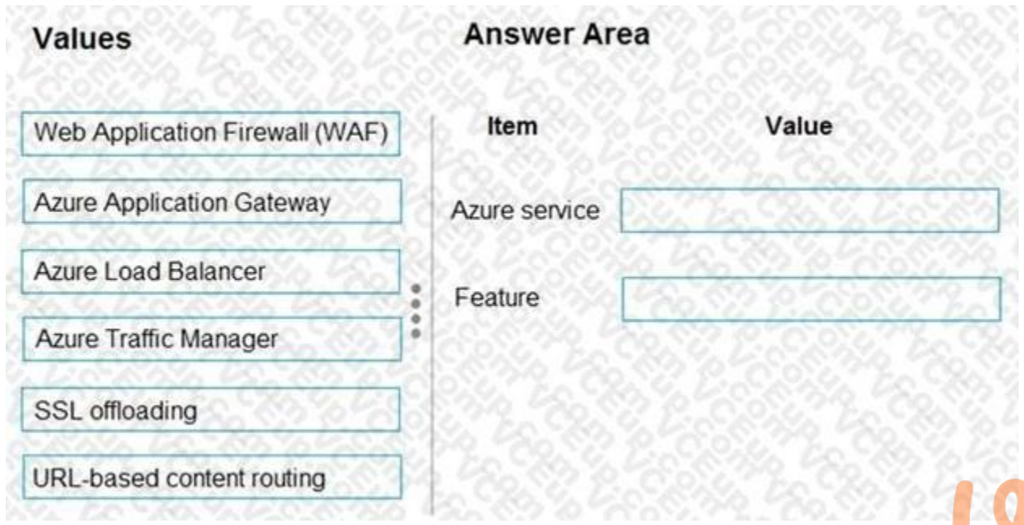
QUESTION 62
You have an Azure subscription.
You need to recommend a solution to provide developers with the ability to provision Azure virtual machines. The solution must meet the following requirements:
• Only allow the creation of the virtual machines in specific regions.
• Only allow the creation 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

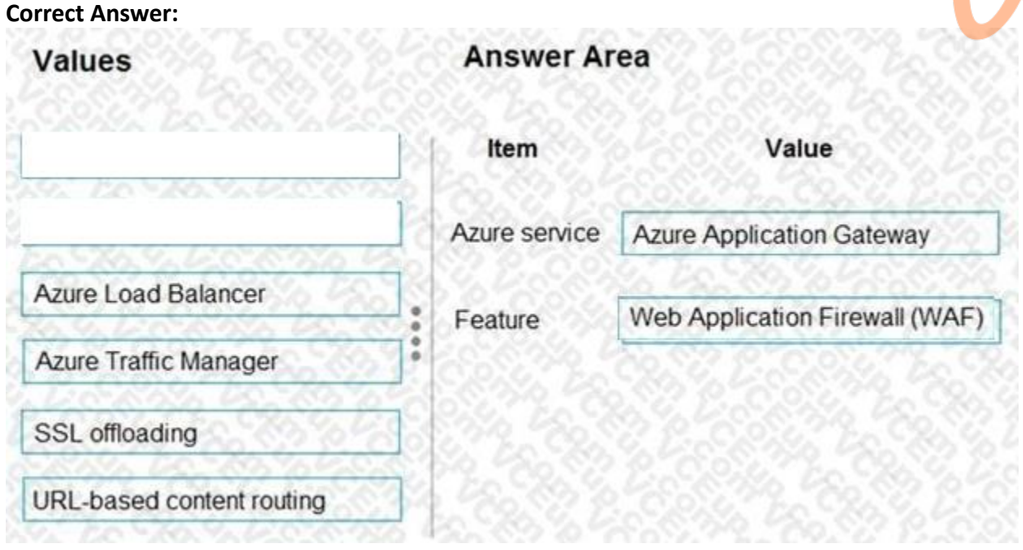
Correct Answer: B
Section:
Explanation:
https://docs.microsoft.com/en-us/azure/governance/policy/tutorials/create-and-manage
https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/manage/azure-servermanagement/common-policies#restrict-vm-size

QUESTION 63
DRAG DROP
A company has an existing web application that runs on virtual machines (VMs) in Azure.
You need to ensure that the application is protected from SQL injection attempts and uses a layer-7 load balancer. The solution must minimize disruption to the code for the existing web application. What should you recommend? To answer, drag the appropriate values to the correct items. 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.

Select and Place:



Correct Answer:

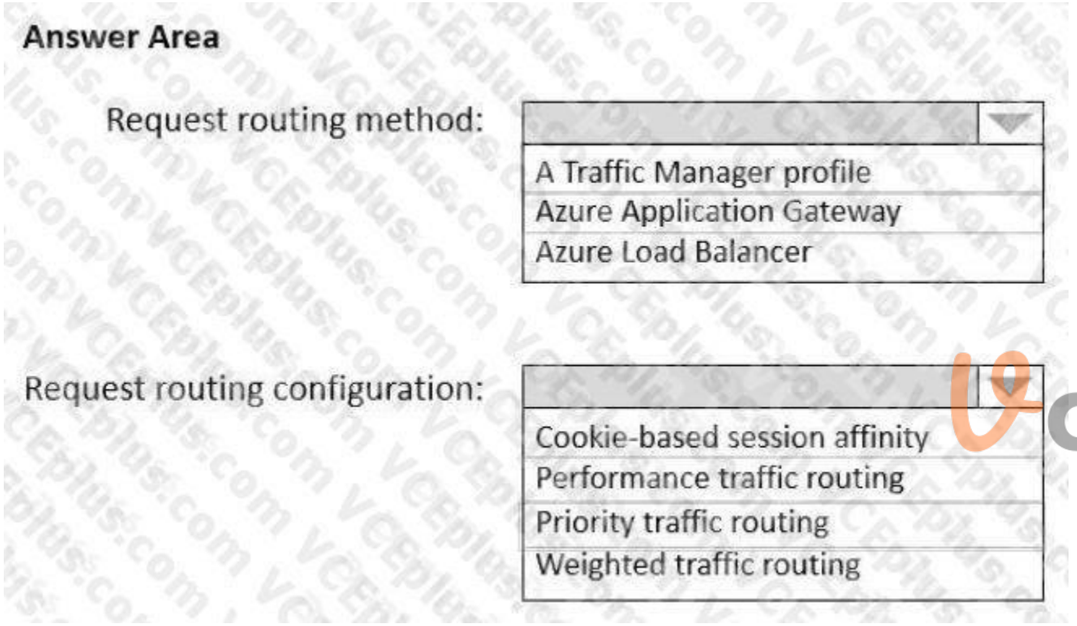


Section:
Explanation:
Box 1: Azure Application Gateway
Azure Application Gateway provides an application delivery controller (ADC) as a service. It offers various layer 7 load-balancing capabilities for your applications. Box 2: Web Application Firwewall (WAF)
Application Gateway web application firewall (WAF) protects web applications from common vulnerabilities and exploits. This is done through rules that are defined based on the OWASP core rule sets 3.0 or 2.2.9.
There are rules that detects SQL injection attacks.
Reference:

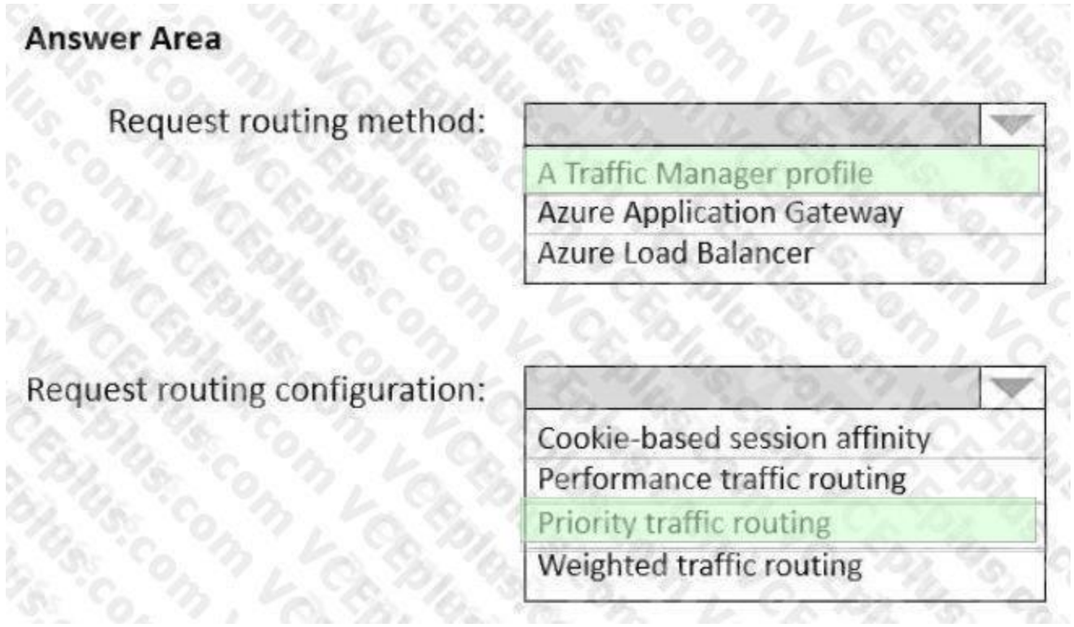
https://docs.microsoft.com/en-us/azure/application-gateway/application-gateway-faq
https://docs.microsoft.com/en-us/azure/application-gateway/waf-overview

QUESTION 64
HOTSPOT
You are designing an Azure App Service web app.
You plan to deploy the web app to the North Europe Azure region and the West Europe Azure region.
You need to recommend a solution for the web app. The solution must meet the following requirements:
Users must always access the web app from the North Europe region, unless the region fails. The web app must be available to users if an Azure region is unavailable. Deployment costs must be minimized. What should you include in the recommendation? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:



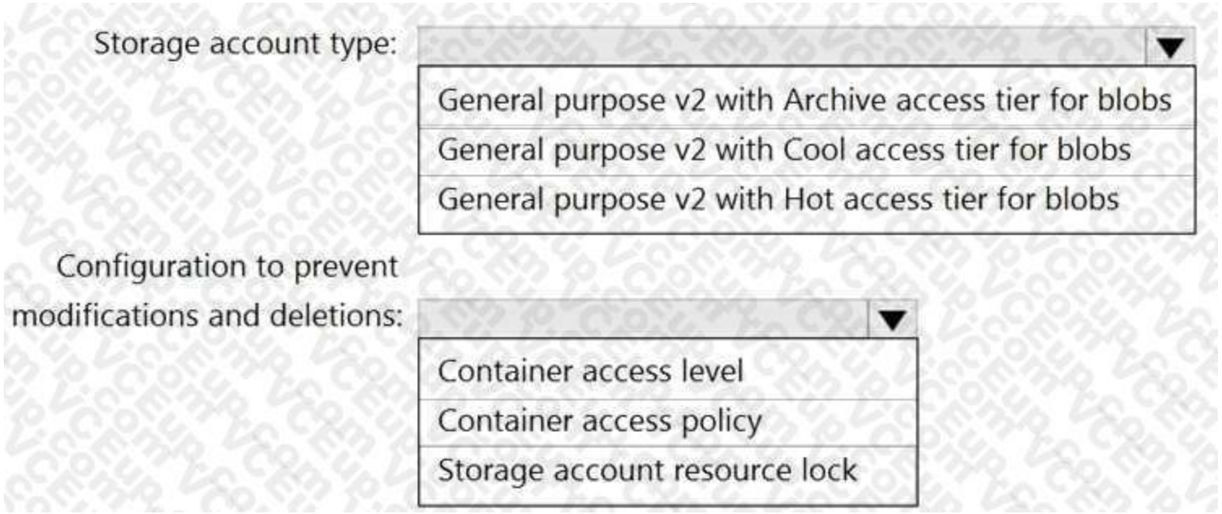
Answer Area:



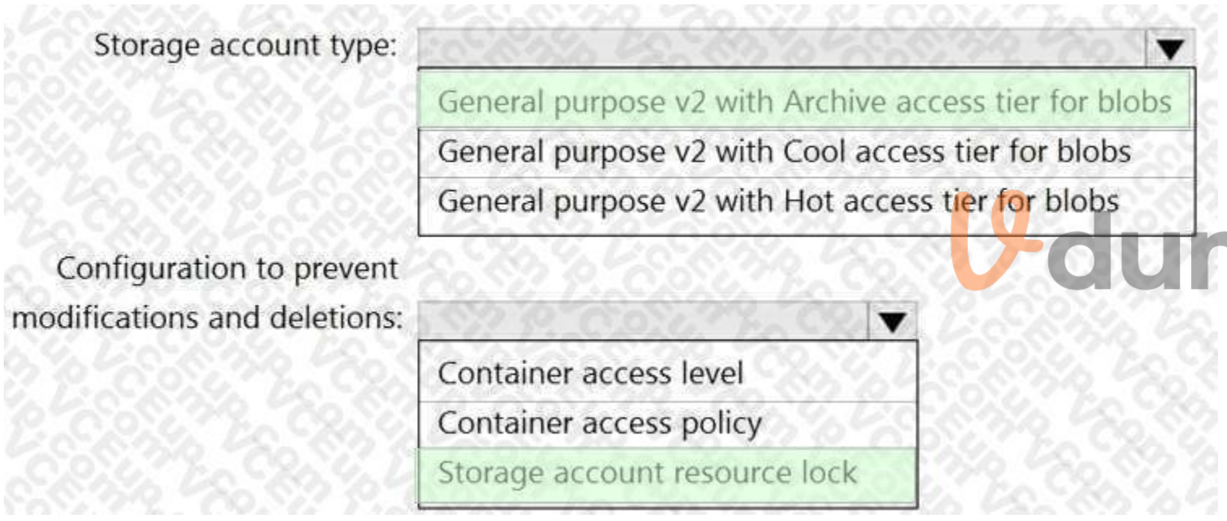
Section:
Explanation:

QUESTION 65
HOTSPOT
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.

Hot Area:



Answer Area:



Section:
Explanation:
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

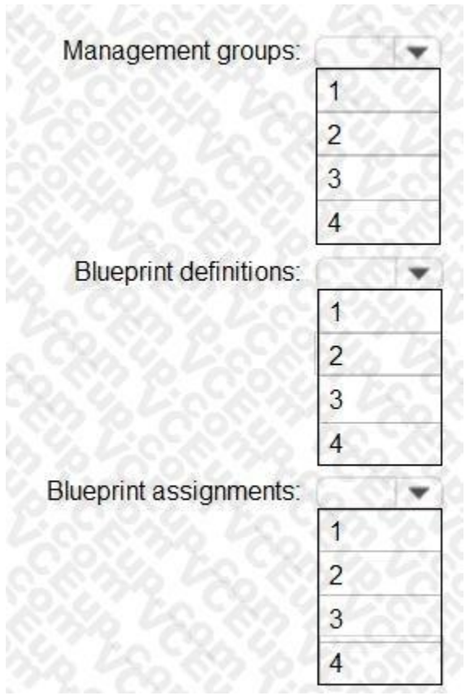
QUESTION 66
HOTSPOT

Your company has the divisions shown in the following table.

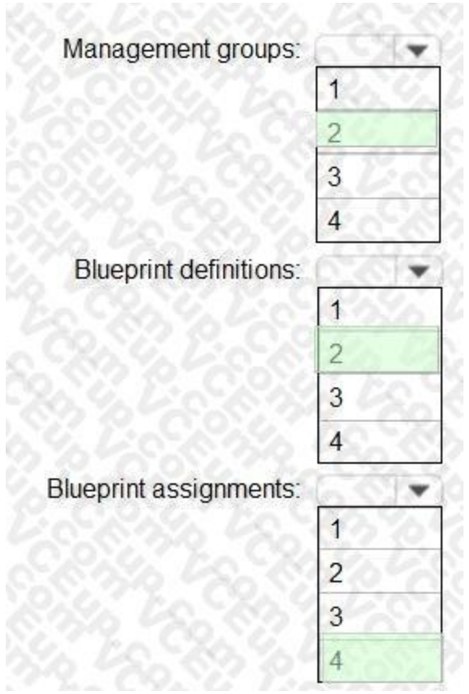
Division	Azure subscription	Azure Active Directory (Azure AD) tenant
East	Sub1, Sub2	East.contoso.com
West	Sub3, Sub4	West.contoso.com

You plan to deploy a custom application to each subscription. The application will contain the following:
A resource group
An Azure web app
Custom role assignments
An Azure Cosmos DB account
You need to use Azure Blueprints to deploy the application to each subscription.
What is the minimum number of objects required to deploy the application? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:



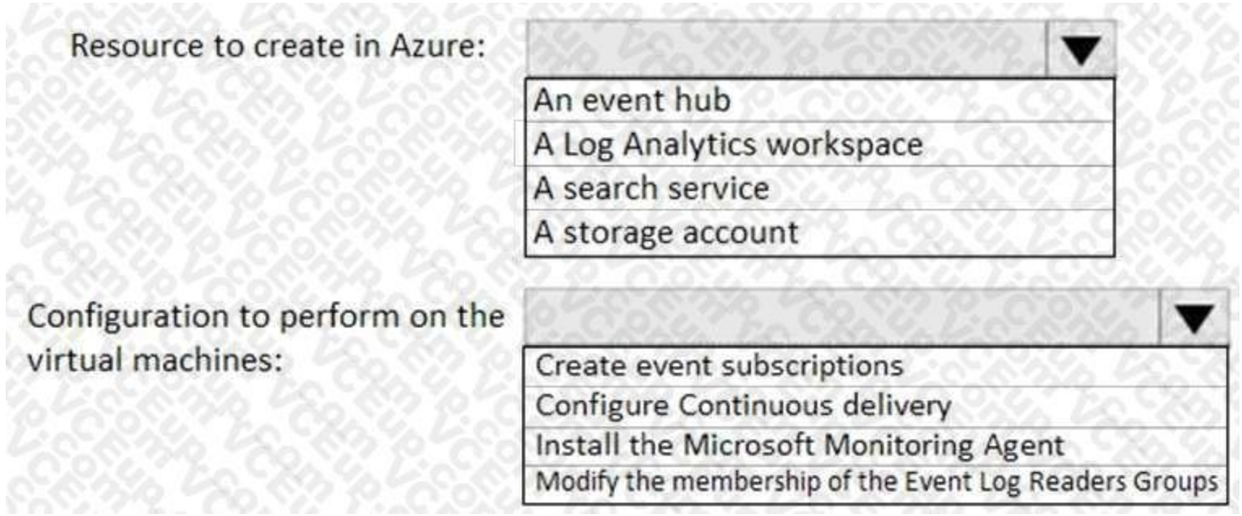
Answer Area:



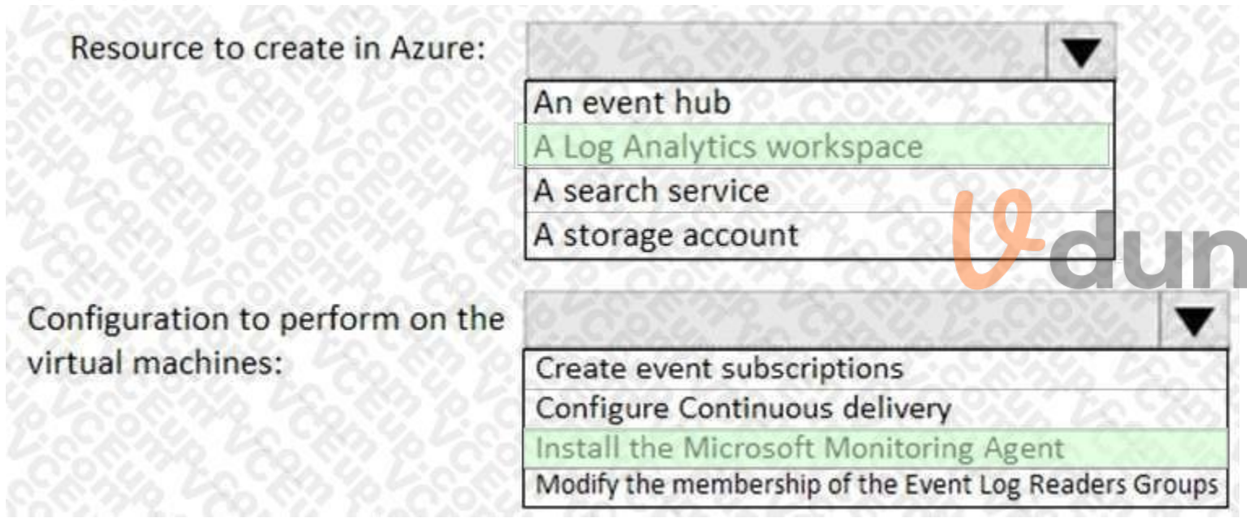
Section:
Explanation:
Box 1: 2
One management group for East, and one for West.
When creating a blueprint definition, you'll define where the blueprint is saved. Blueprints can be saved to a management group or subscription that you have Contributor access to. If the location is a management group, the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

QUESTION 67
HOTSPOT
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.

Hot Area:



Answer Area:



Section:
Explanation:
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

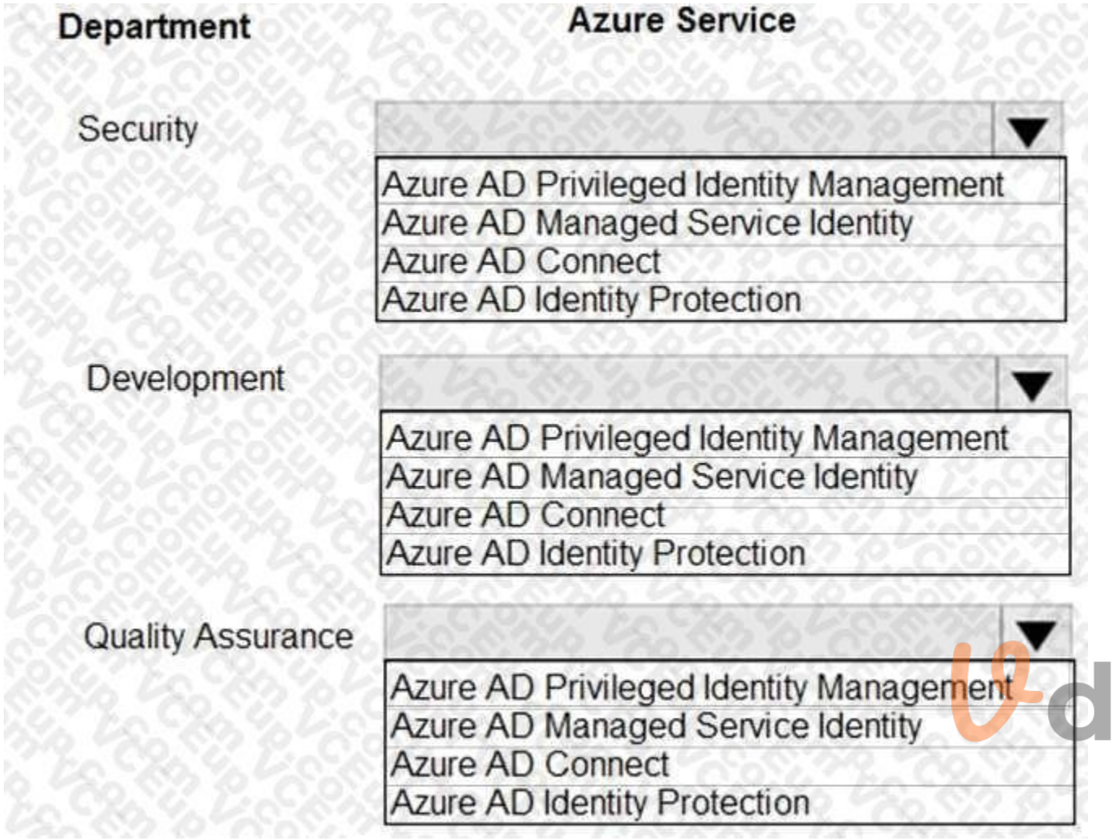
QUESTION 68
HOTSPOT
Your organization has developed and deployed several Azure App Service Web and API applications.
The applications use Azure Key Vault to store several authentication, storage account, and data encryption keys. Several departments have the following requests to support the applications:

Department	Request
Security	• Review membership of administrative roles and require to provide a justification for continued membership • Get alerts about changes in administrator assignments • See a history of administrator activation, including which changes administrators made to Azure resources
Development	• Enable the applications to access Azure Key Vault and retrieve keys for use in code
Quality Assurance	• Receive temporary administrator access to create and configure additional Web and API applications in the test environment

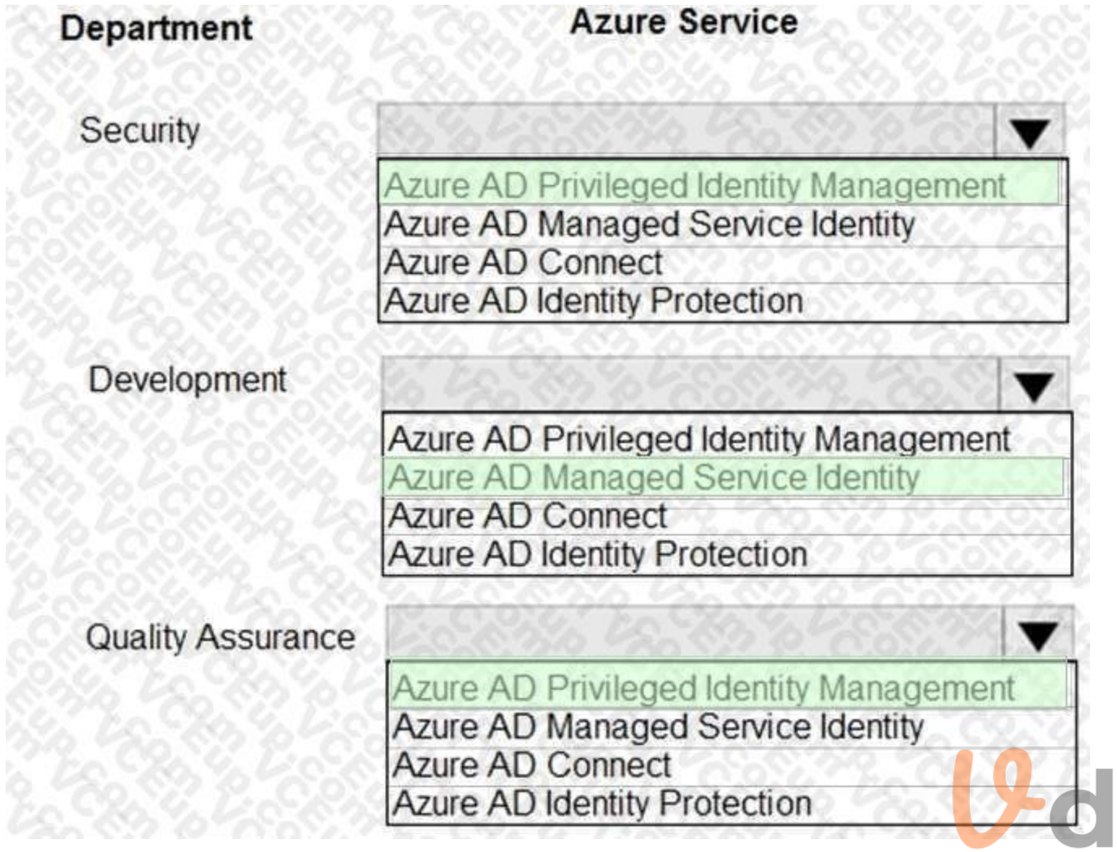
You need to recommend the appropriate Azure service for each department request.

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.

Hot Area:



Answer Area:



Section:

Explanation:

https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azureresources/overview

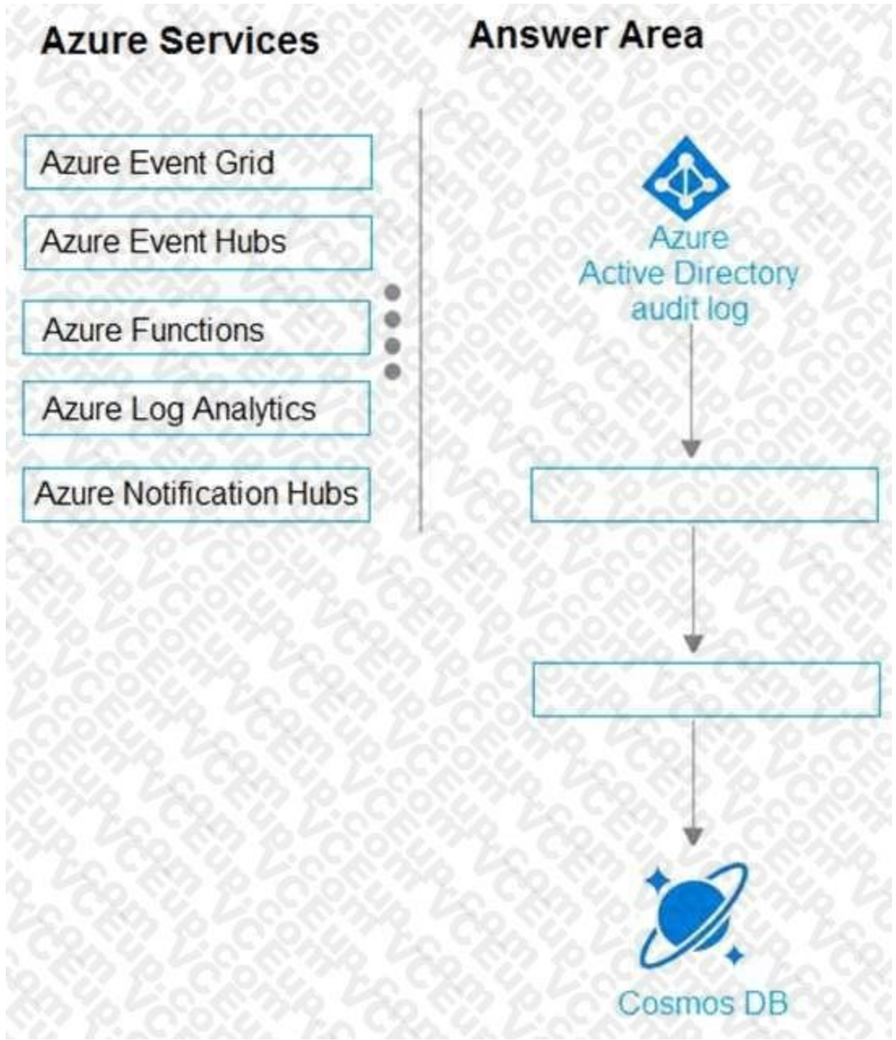
QUESTION 69

DRAG DROP

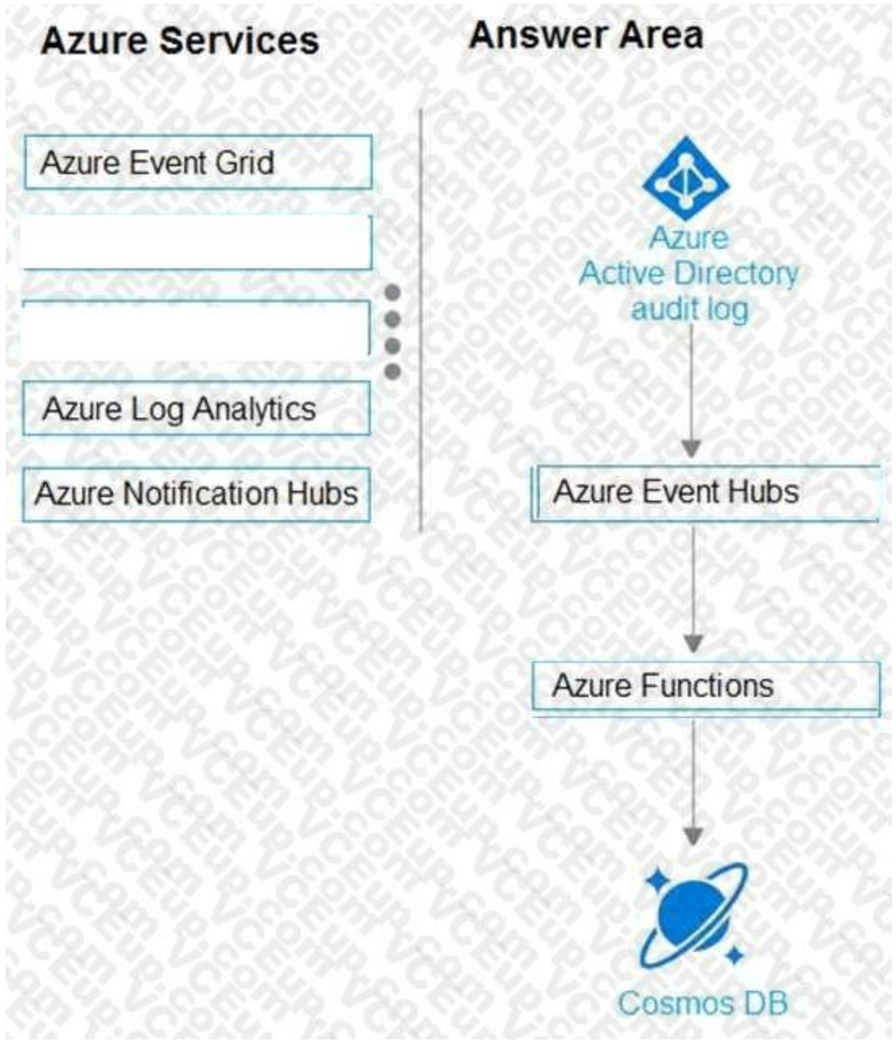
You need to design an architecture to capture the creation of users and the assignment of roles. The captured data must be stored in Azure Cosmos DB. Which Azure services should you include in the design? To answer, drag the appropriate services to the correct targets. Each service may be used once, 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.

Select and Place:



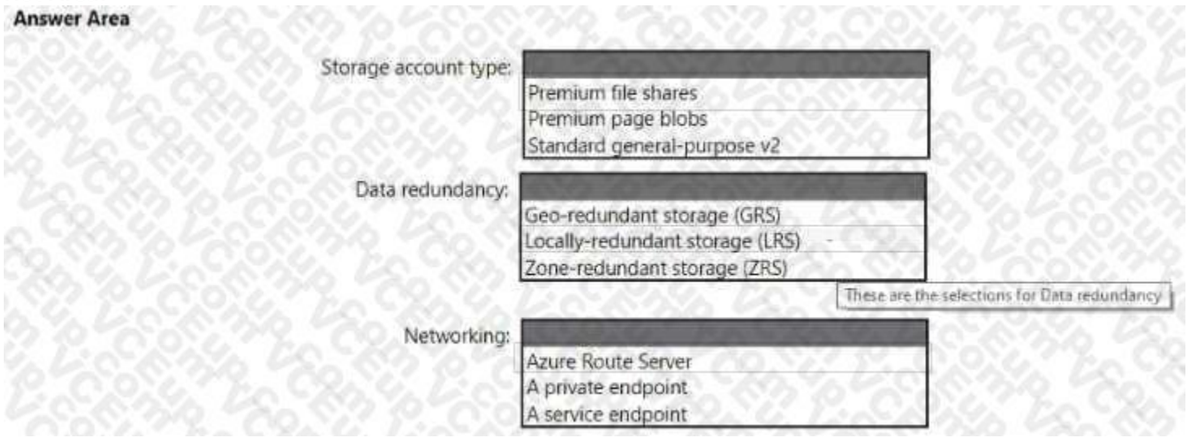
Correct Answer:



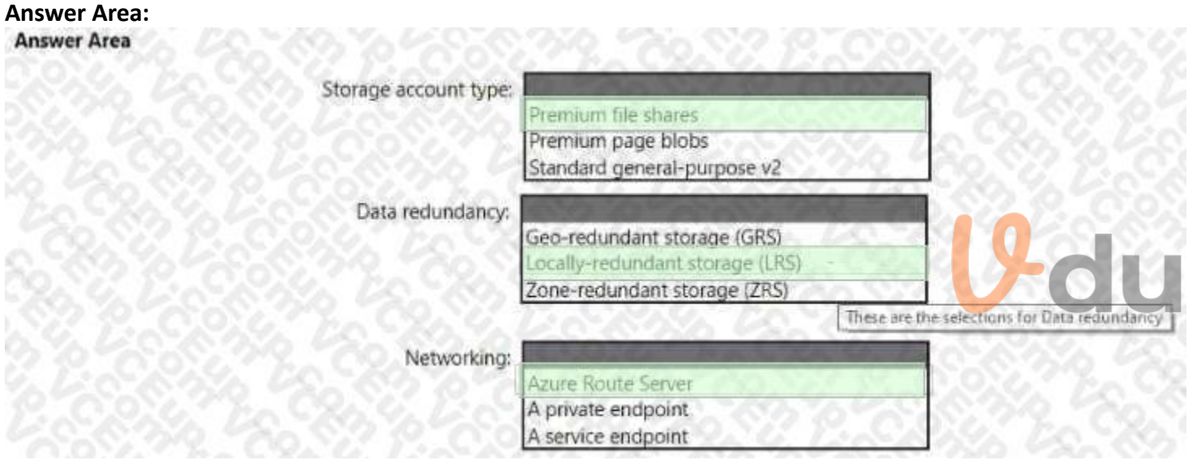
Section:
Explanation:
1. AAD audit log -> Event Hub (other two choices, LAW, storage, but not available in this question) https://docs.microsoft.com/en-us/azure/active-directory/reports-monitoring/tutorial-azuremonitor-stream-logs-to-event-hub 2. Azure function has the Event hub trigger and Cosmos output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

QUESTION 70
HOTSPOT
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.

Hot Area:



Answer Area:



Section:
Explanation:

QUESTION 71
HOTSPOT
You need to recommend an Azure Storage Account configuration for two applications named Application1 and Applications. The configuration must meet the following requirements:
• Storage for Application1 must provide the highest possible transaction rates and the lowest possible latency.
• Storage for Application2 must provide the lowest possible storage costs per GB.
• Storage for both applications must be optimized for uploads and downloads.
• Storage for both applications must be available in an event of datacenter failure.
What should you recommend ? To answer, select the appropriate options in the answer area NOTE:
Each correct selection is worth one point

Hot Area:

Answer Area

Application1:

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

Application2:

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

Answer Area:

Answer Area

Application1:

BlobStorage with Standard performance, Hot access tier, and Read-access geo-redundant storage (RA-GRS) replication

BlockBlobStorage with Premium performance and Zone-redundant storage (ZRS) replication

General purpose v1 with Premium performance and Locally-redundant storage (LRS) replication

General purpose v2 with Standard performance, Hot access tier, and Locally-redundant storage (LRS) replication

Application2:

BlobStorage with Standard performance, Cool access tier, and Geo-redundant storage (GRS) replication

BlockBlobStorage with Premium performance and Zone-redundant storage (ZRS) replication

General purpose v1 with Standard performance and Read-access geo-redundant storage (RA-GRS) replication

General purpose v2 with Standard performance, Cool access tier, and Read-access geo-redundant storage (RA-GRS) replication

Section:

Explanation:

Box 1: BloblBlobStorage with Premium performance and Zone-redundant storage (ZRS) replication.

BlockBlobStorage accounts: Storage accounts with premium performance characteristics for block blobs and append blobs. Recommended for scenarios with high transactions rates, or scenarios that use smaller objects or require consistently low storage latency.

Premium: optimized for high transaction rates and single-digit consistent storage latency.

Box 2: General purpose v2 with Standard performance..

General-purpose v2 accounts: Basic storage account type for blobs, files, queues, and tables.

Recommended for most scenarios using Azure Storage.

Reference:

https://docs.microsoft.com/en-us/azure/storage/common/storage-account-overview

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

QUESTION 72

HOTSPOT

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

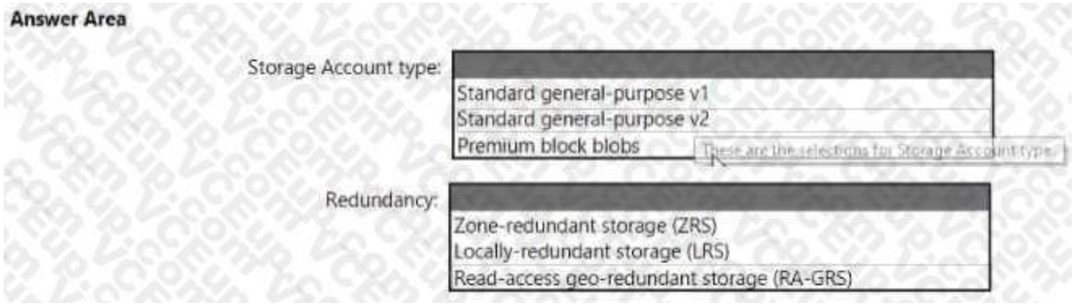
• Prevent new data from being modified for one year.

• Maximize data resiliency.

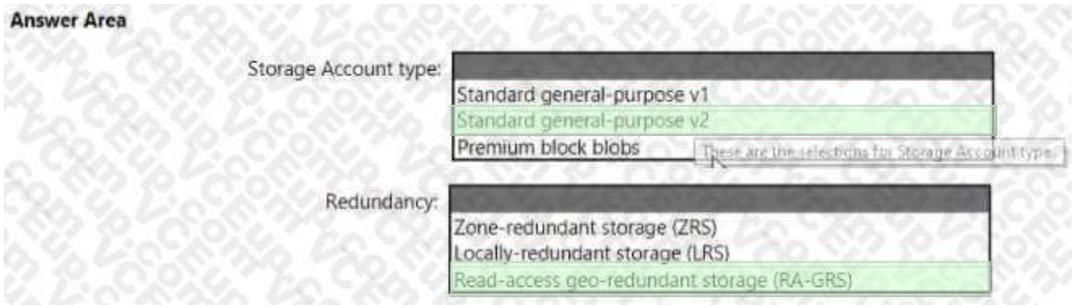
• Minimize read latency.

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

Hot Area:



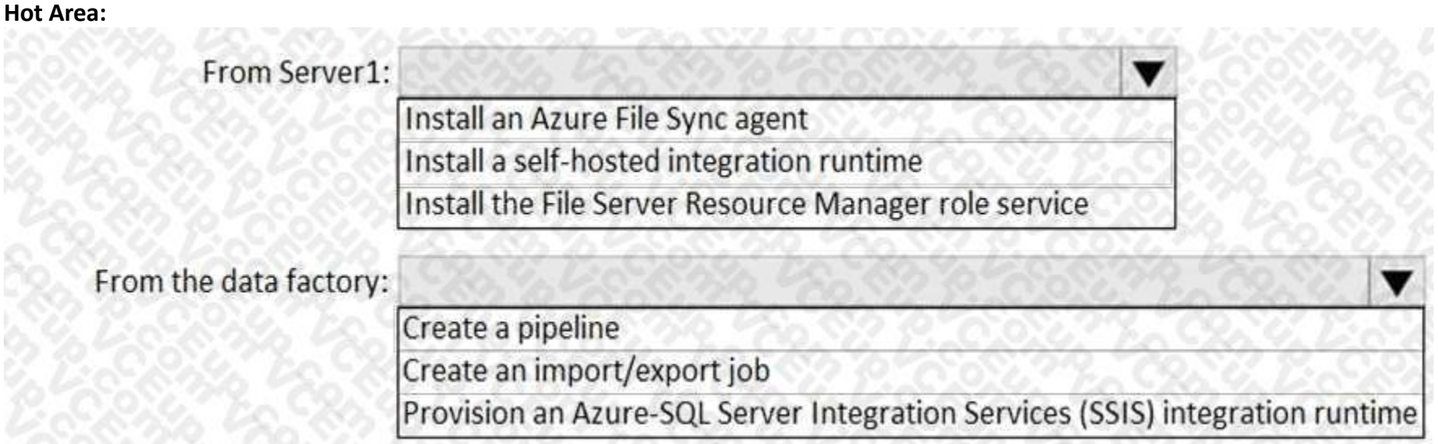
Answer Area:



Section:
Explanation:

QUESTION 73
HOTSPOT
Your on-premises network contains a file server named Server1 that stores 500 GB of data.
You need to use Azure Data Factory to copy the data from Server1 to Azure Storage.
You add a new data factory.
What should you do next? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area:

Section:

Explanation:

Box 1: Install a self-hosted integration runtime

The Integration Runtime is a customer-managed data integration infrastructure used by Azure Data Factory to provide data integration capabilities across different network environments. Box 2: Create a pipeline

With ADF, existing data processing services can be composed into data pipelines that are highly available and managed in the cloud. These data pipelines can be scheduled to ingest, prepare, transform, analyze, and publish data, and ADF manages and orchestrates the complex data and processing dependencies

Reference:

https://docs.microsoft.com/en-us/azure/machine-learning/team-data-science-process/move-sqlazure-adf https://docs.microsoft.com/pl-pl/azure/data-factory/tutorial-hybrid-copy-data-toolsyu31svc 3 months, 4 weeks ago https://docs.microsoft.com/en-us/azure/data-factory/create-self-hosted-integrationruntime?tabs=data-factory"A self-hosted integration runtime can run copy activities between a cloud data store and a datastore in a private network" https://docs.microsoft.com/en-us/azure/data-factory/introduction"With Data Factory, you can use the Copy Activity in a data pipeline to move data from both onpremisesand cloud source data stores to a centralization data store in the cloud for further analysis"

QUESTION 74

HOTSPOT

You have the resources shown in the following table.

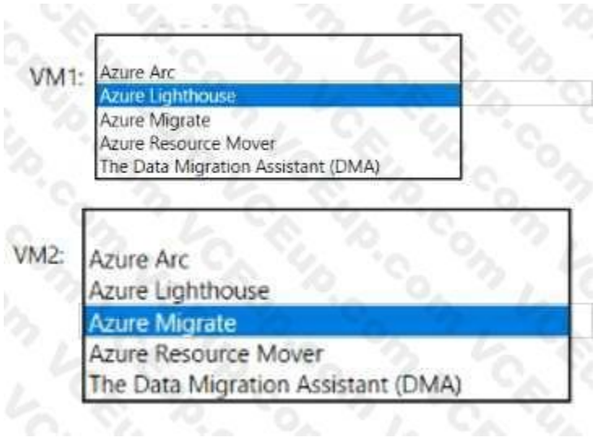
Name	Type	Resource group
VM1	Azure virtual machine	RG1
VM2	On-premises virtual machine	*Not applicable*

You create a new resource group in Azure named RG2.

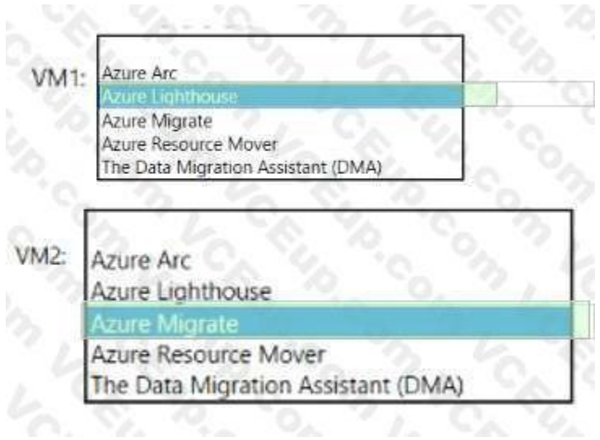
You need to move the virtual machines to RG2.

What should you use to move each virtual machine? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area:



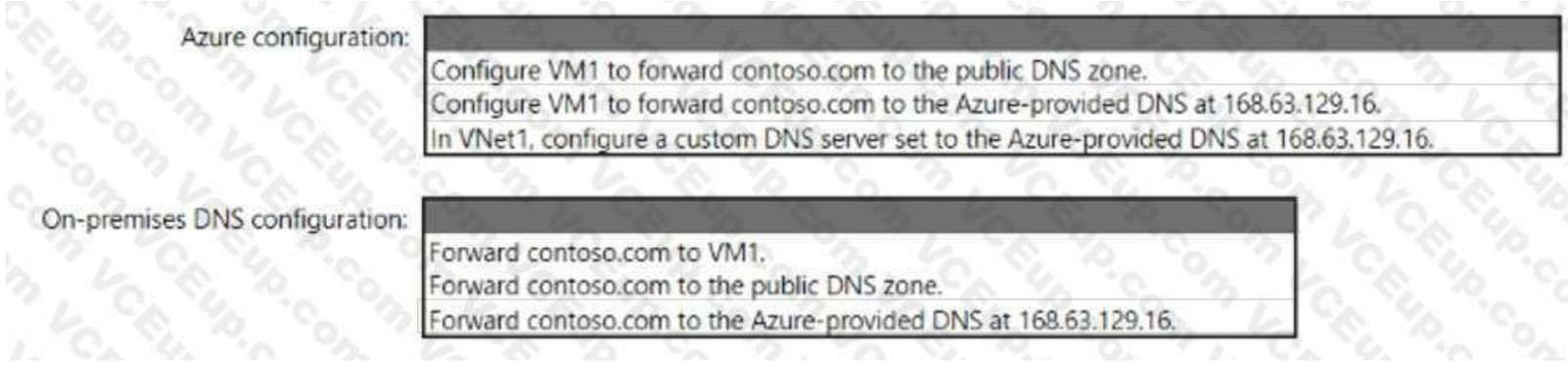
Section:
Explanation:

QUESTION 75
HOTSPOT
You have the Azure resources shown in the following table.

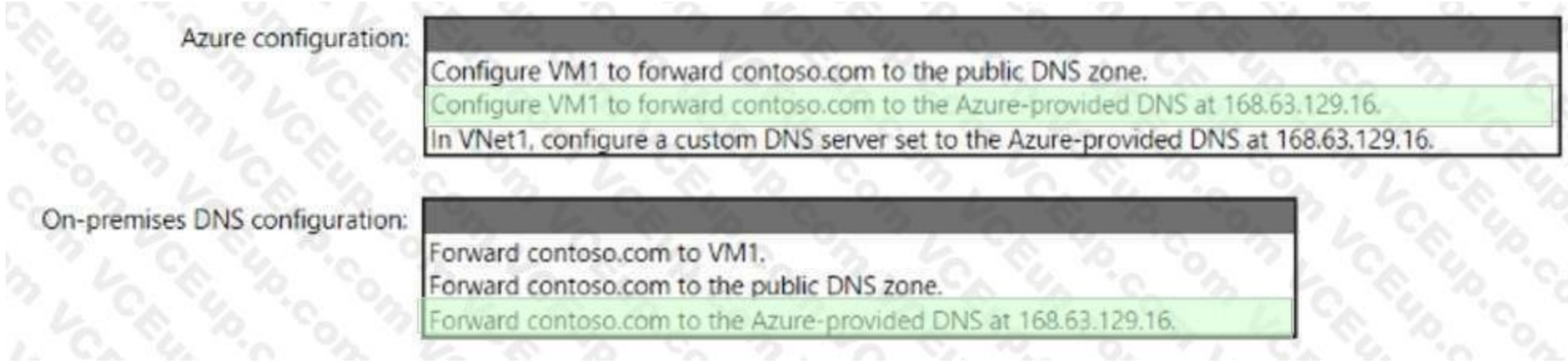
Name	Type	Description
VNET1	Virtual network	Connected to an on-premises network by using ExpressRoute
VM1	Virtual machine	Configured as a DNS server
SQLDB1	Azure SQL Database	Single instance
PE1	Private endpoint	Provides connectivity to SQLDB1
contoso.com	Private DNS zone	Linked to VNET1 and contains an A record for PE1
contoso.com	Public DNS zone	Contains a CNAME record for SQLDB1

You need to design a solution that provides on-premises network connectivity to SQLDB1 through PE1. How should you configure name resolution? To answer, select the appropriate options in the answer area.

Hot Area:



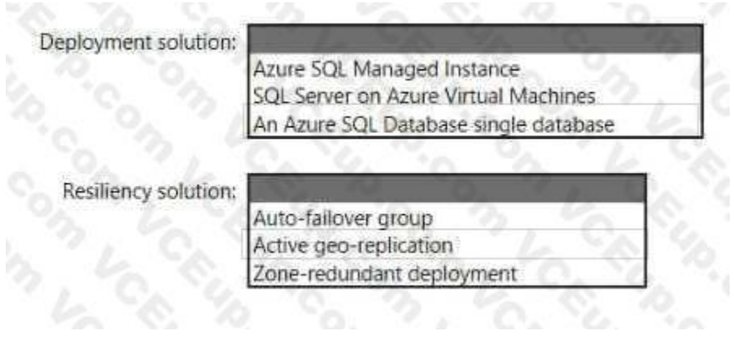
Answer Area:



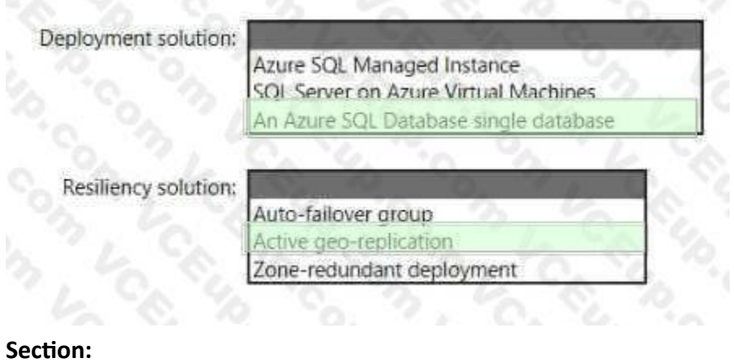
Section:
Explanation:

QUESTION 76
HOTSPOT
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.

Hot Area:



Answer Area:



Section:
Explanation:

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

QUESTION 77
HOTSPOT
You have an Azure subscription that is linked to an Azure Active Directory Premium Plan 2 tenant The tenant has multi-factor authentication (MFA) enabled for all users.

Name	IP address range	Trusted
NY	192.168.2.0/27	Yes
DC	192.168.1.0/27	No
LA	192.168.3.0/27	No

You have the named locations shown in the following table.

Name	Device operating system	User-risk level	Matching compliance policies
User1	Windows 10	High	**None**
User2	Windows 10	Medium	**None**
User3	macOS	Low	**None**

You have the users shown in the following table.

Name	Assignment	Conditions: Locations	Conditions: User risk	Conditions: Sign-in risk	Access Control: Grant
CA1	All users	Trusted locations	High, Medium	**None**	Block access
CA2	All users	NY	**None**	High, Medium	Block access
CA3	All users	LA	**None**	**None**	Grant access: Require device to marked as compliant

You plan to deploy the Conditional Access policies shown in the following table.
For each of the following statements, select Yes if the statement is true. Otherwise, select No.
NOTE: Each correct selection is worth one point.

Hot Area:

Statements	Yes	No
To ensure that the conditions in CA1 can be evaluated, you must enforce an Azure Active Directory (Azure AD) Identity Protection user risk policy .	○	○
To ensure that the conditions in CA2 can be evaluated, you must enforce an Azure Active Directory (Azure AD) Identity Protection sign-in risk policy.	○	○
To ensure that the conditions in CA3 can be evaluated, you must deploy Microsoft Endpoint Manager.	○	○

Answer Area:

Statements	Yes	No
To ensure that the conditions in CA1 can be evaluated, you must enforce an Azure Active Directory (Azure AD) Identity Protection user risk policy .	○	○
To ensure that the conditions in CA2 can be evaluated, you must enforce an Azure Active Directory (Azure AD) Identity Protection sign-in risk policy.	○	○
To ensure that the conditions in CA3 can be evaluated, you must deploy Microsoft Endpoint Manager.	○	○

Section:
Explanation:

QUESTION 78
HOTSPOT
You have a resource group named RG1 that contains the objects shown in the following table.

Name	Type	Location
ASP-RG1	App Service plan	East US
KV1	Azure Key Vault	East US
KV2	Azure Key Vault	West Europe
App1	Azure Logic Apps	West US

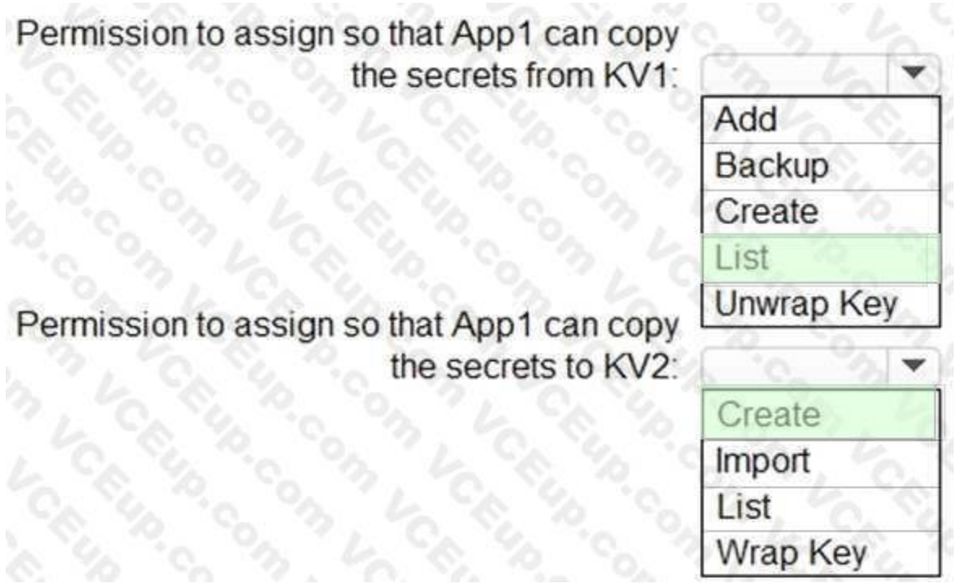
You need to configure permissions so that App1 can copy all the secrets from KV1 to KV2. App1 currently has the Get permission for the secrets in KV1. Which additional permissions should you assign to App1? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:

Permission to assign so that App1 can copy the secrets from KV1:
- Add
- Backup
- Create
- List
- Unwrap Key

Permission to assign so that App1 can copy the secrets to KV2:
- Create
- Import
- List
- Wrap Key

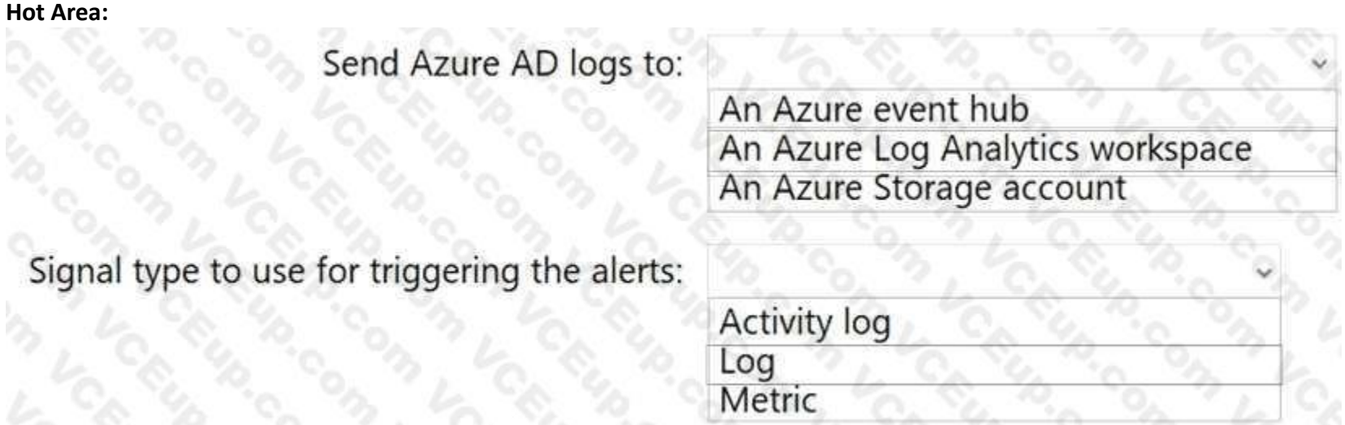
Answer Area:



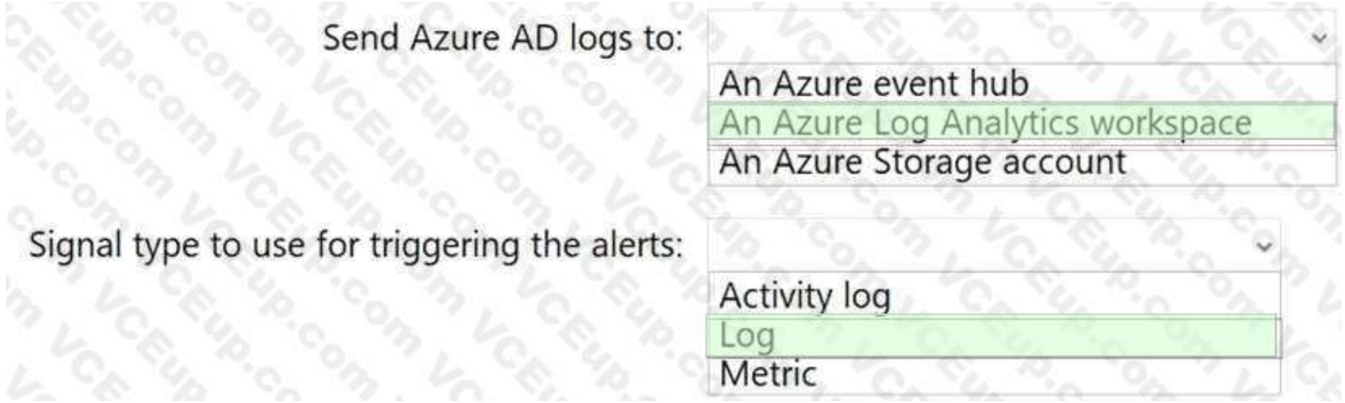
Section:
Explanation:
Box 1: List
Get: Gets the specified Azure key vault.
List: The List operation gets information about the vaults associated with the subscription.
Box 2: Create
Create Or Update: Create or update a key vault in the specified subscription.
Reference:
https://docs.microsoft.com/en-us/rest/api/keyvault/

QUESTION 79
HOTSPOT
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.

Hot Area:

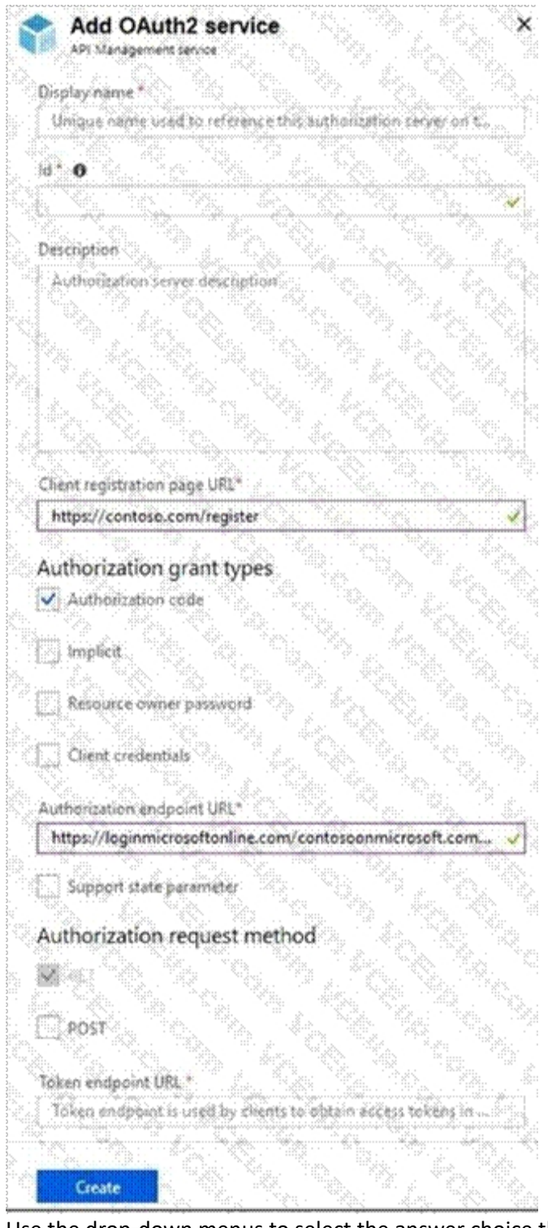


Answer Area:



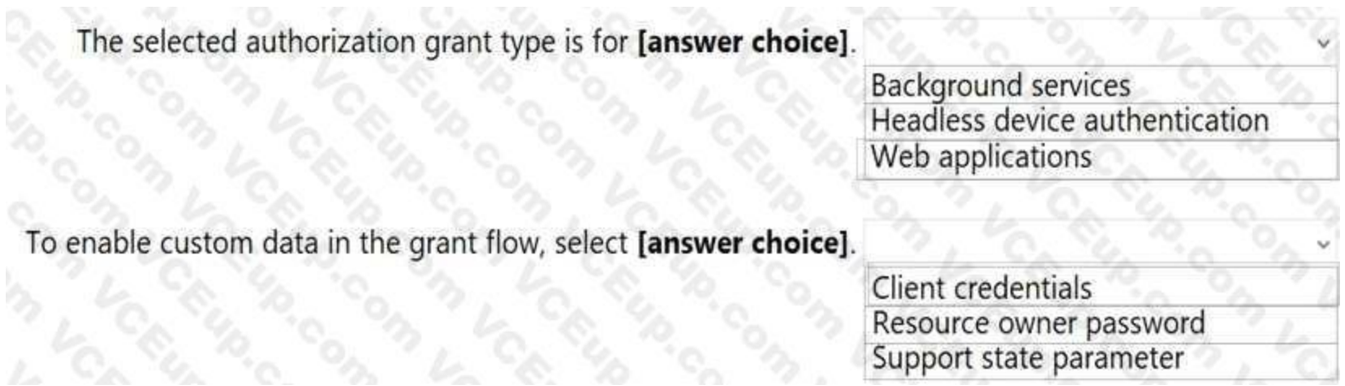
Section:
Explanation:
Box 1: An Azure Log Analytics workspace
To be able to create an alert we send the Azure AD logs to An Azure Log Analytics workspace.
Note: You can forward your AAD logs and events to either an Azure Storage Account, an Azure Event Hub, Log Analytics, or a combination of all of these. 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

QUESTION 80
HOTSPOT
You configure OAuth2 authorization in API Management as shown in the following exhibit.

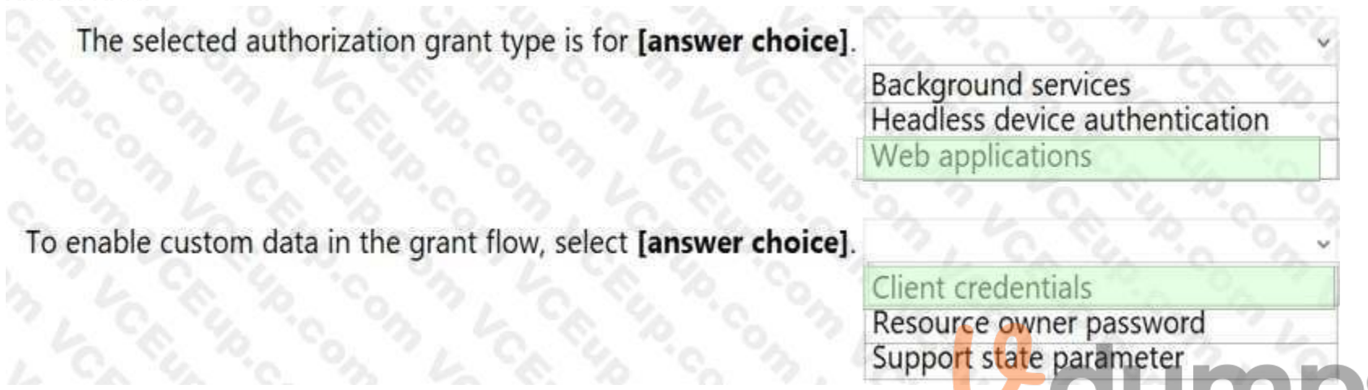


Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic. NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area:



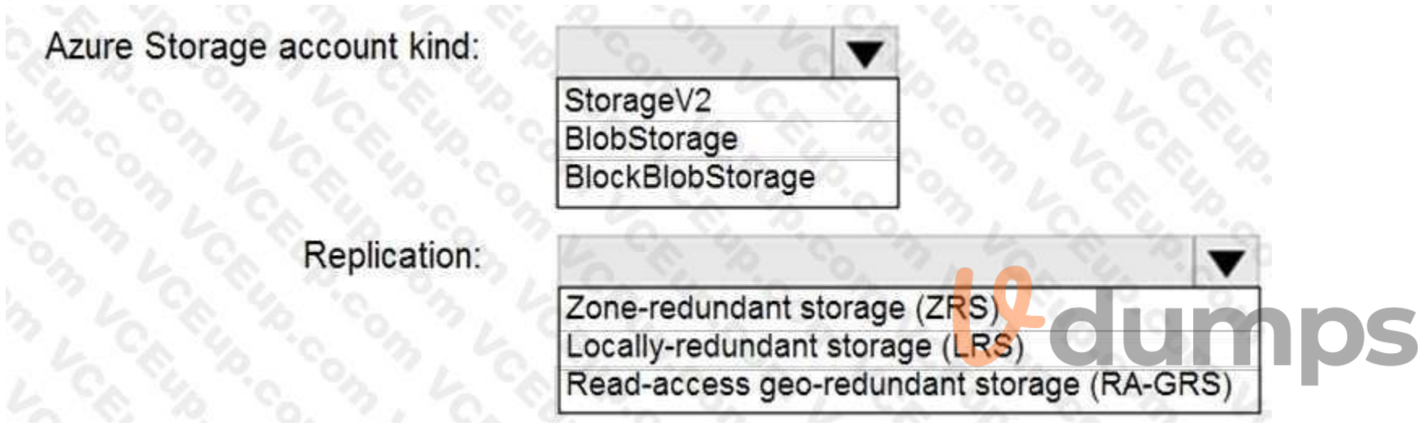
Section:
Explanation:

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. Incorrect Answers:
Not Headless device authentication:
A headless system is a computer that operates without a monitor, graphical user interface (GUI) or peripheral devices, such as keyboard and mouse. Headless computers are usually embedded systems in various devices or servers in multi-server data center environments. Industrial machines, automobiles, medical equipment, cameras, household appliances, airplanes, vending machines and toys are among the myriad possible hosts of embedded systems.
Box 2: Client Credentials
How to include additional client data
In case you need to store additional details about a client that don't fit into the standard parameter set the custom data parameter comes to help:
POST /c2id/clients HTTP/1.1
Host: demo.c2id.com
Content-Type: application/json
Authorization: Bearer ztucZS1ZyFKgh0tUEruUtiSTXhnexmd6
{
"redirect_uris" : ["https://myapp.example.com/callback"],
"data" : { "reg_type" : "3rd-party",
"approved" : true,
"author_id" : 792440 }
}
The data parameter permits arbitrary content packaged in a JSON object. To set it you will need the master registration token or a one-time access token with a client-reg:data scope. Incorrect Answers:
Authorization protocols provide a state parameter that allows you to restore the previous state of your application. The state parameter preserves some state object set by the client in the Authorization request and makes it available to the

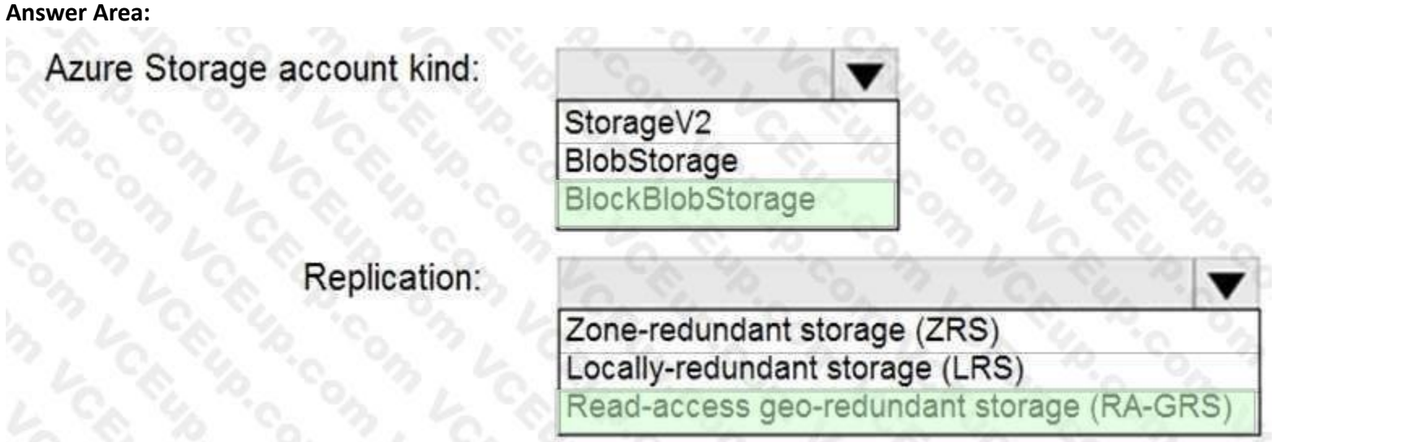
client in the response.
Reference:
https://developer.okta.com/blog/2018/04/10/oauth-authorization-code-grant-type
https://connect2id.com/products/server/docs/guides/client-registration

QUESTION 81
HOTSPOT
You plan to develop a new app that will store business critical dat a. The app must meet the following requirements:
Prevent new data from being modified for one year.
Minimize read latency.
Maximize data resiliency.
You need to recommend a storage solution for the app.
What should you recommend? To answer, select the appropriate options in the answer area.

Hot Area:



Answer Area:

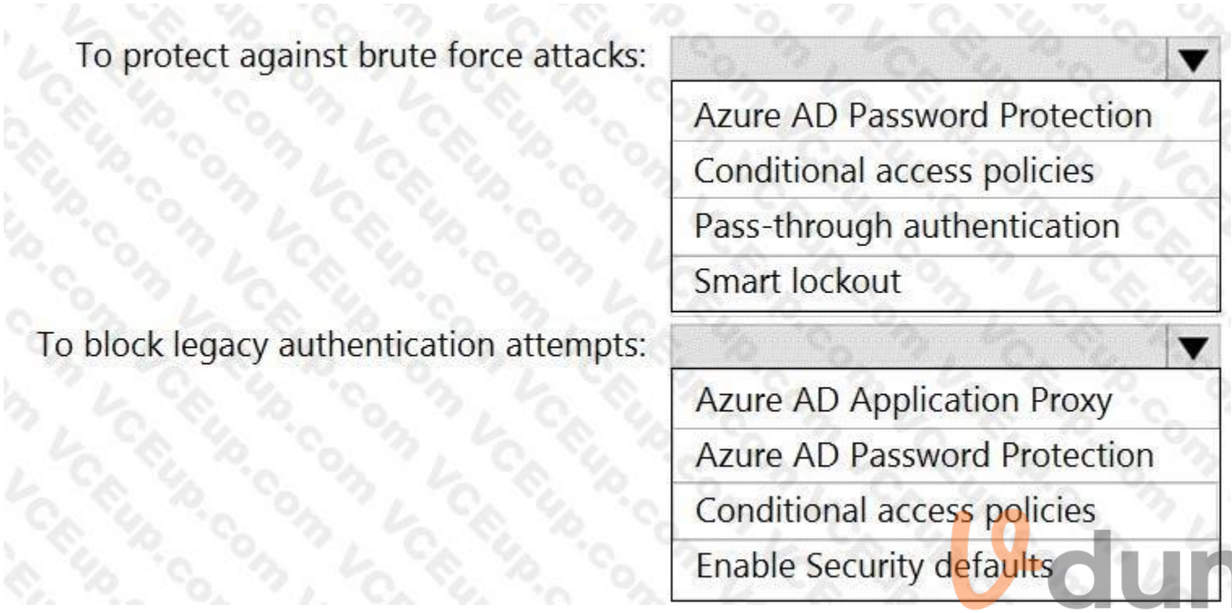


Section:
Explanation:
Reference:
https://docs.microsoft.com/en-us/azure/storage/common/storage-account-overview
https://docs.microsoft.com/en-us/azure/storage/common/storageredundancy?toc=/azure/storage/blobs/toc.json

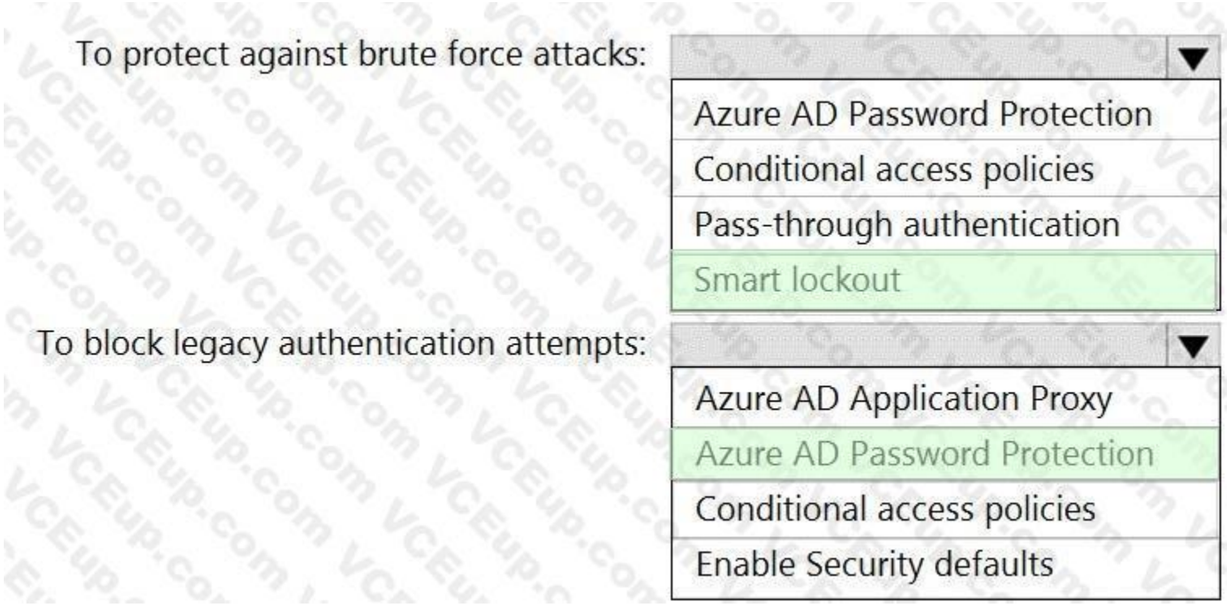
QUESTION 82

HOTSPOT
You have the Free edition of a hybrid Azure Active Directory (Azure AD) tenant. The tenant uses password hash synchronization. You need to recommend a solution to meet the following requirements:
Prevent Active Directory domain user accounts from being locked out as the result of brute force attacks targeting Azure AD user accounts. Block legacy authentication attempts to Azure AD integrated apps.
Minimize costs.
What should you recommend for each requirement? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area:



Section:
Explanation:
Box 1: Smart lockout

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

QUESTION 83
HOTSPOT
You need to implement the Azure RBAC role assignment. The solution must meet the authentication and authorization requirements. How many assignment should you configure for the Network Contributor role for Role1?
To answer, select appropriate in the answer area.

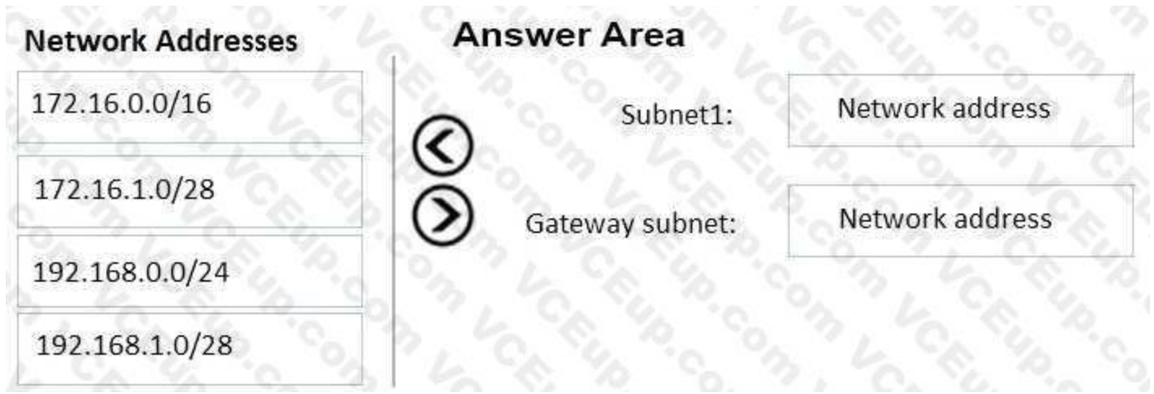
Hot Area:

Answer Area:

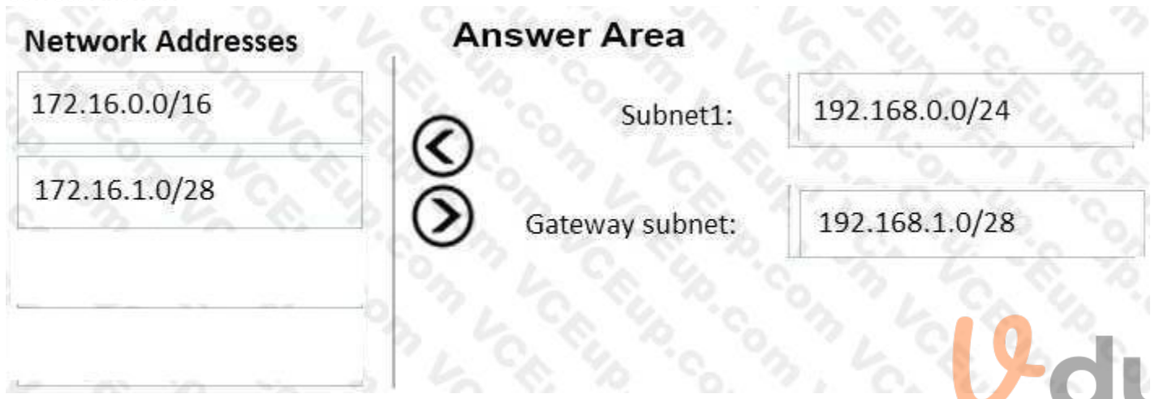
Section:
Explanation:

QUESTION 84
DRAG DROP
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.

Select and Place:



Correct Answer:



Section:

Explanation:

QUESTION 85

DRAG DROP

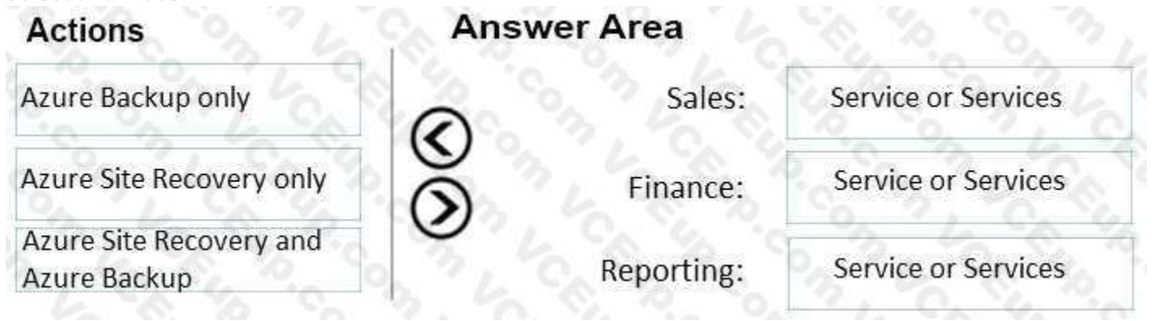
Your company identifies the following business continuity and disaster recovery objectives for virtual machines that host sales, finance, and reporting application in the company's on-premises data center. •The finance application requires that data be retained for seven years. In the event of a disaster, 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.

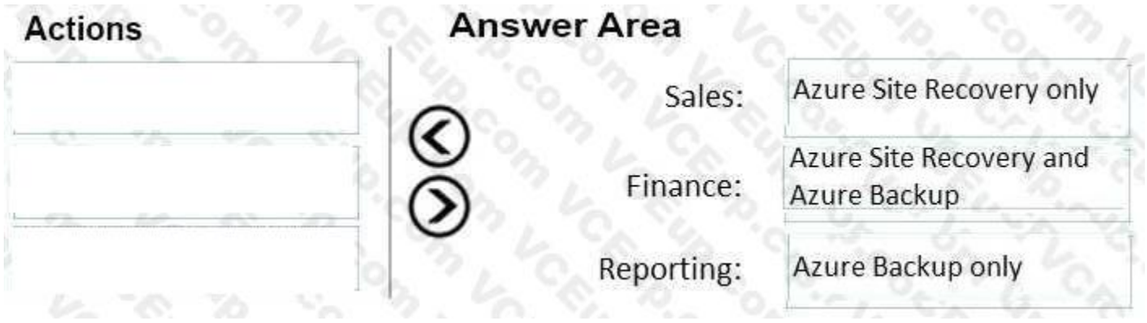
•The sales application must be able to fail over to second on-premises data center.

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.

Select and Place:



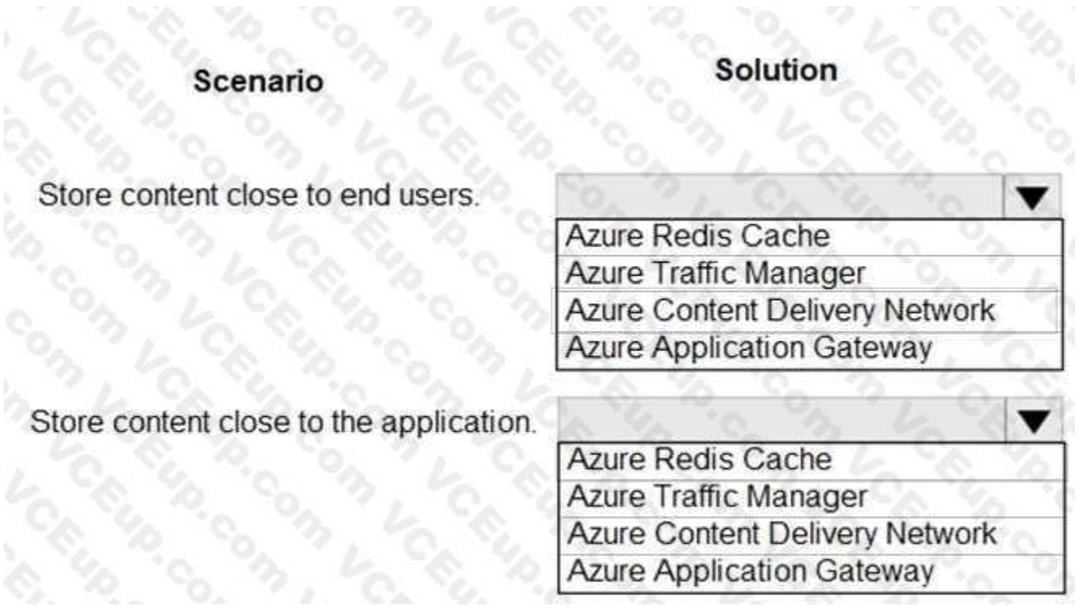
Correct Answer:



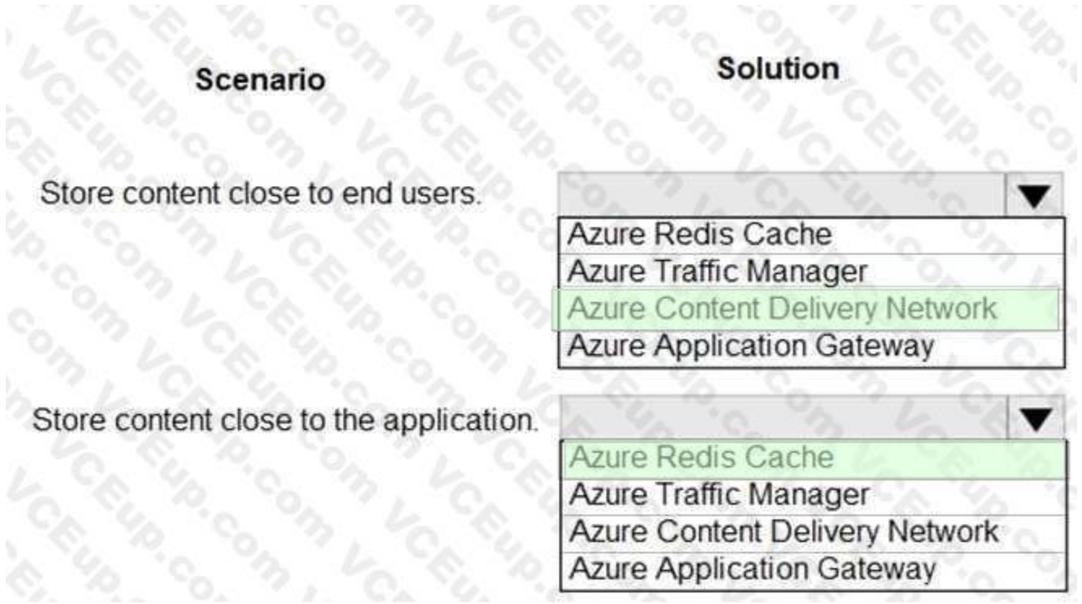
Section:
Explanation:
1) Sales: Azure Site Recovery only
2) Finance: Azure Site Recovery and Azure Backup
3) Reporting: Azure Backup only

QUESTION 86
HOTSPOT
Your company deploys an Azure App Service Web App.
During testing the application fails under load. The application cannot handle more than 100 concurrent user sessions. You enable the Always On feature. You also configure auto-scaling to increase counts from two to 10 based on HTTP queue length.
You need to improve the performance of the application.
Which solution should you use for each application scenario? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Hot Area:



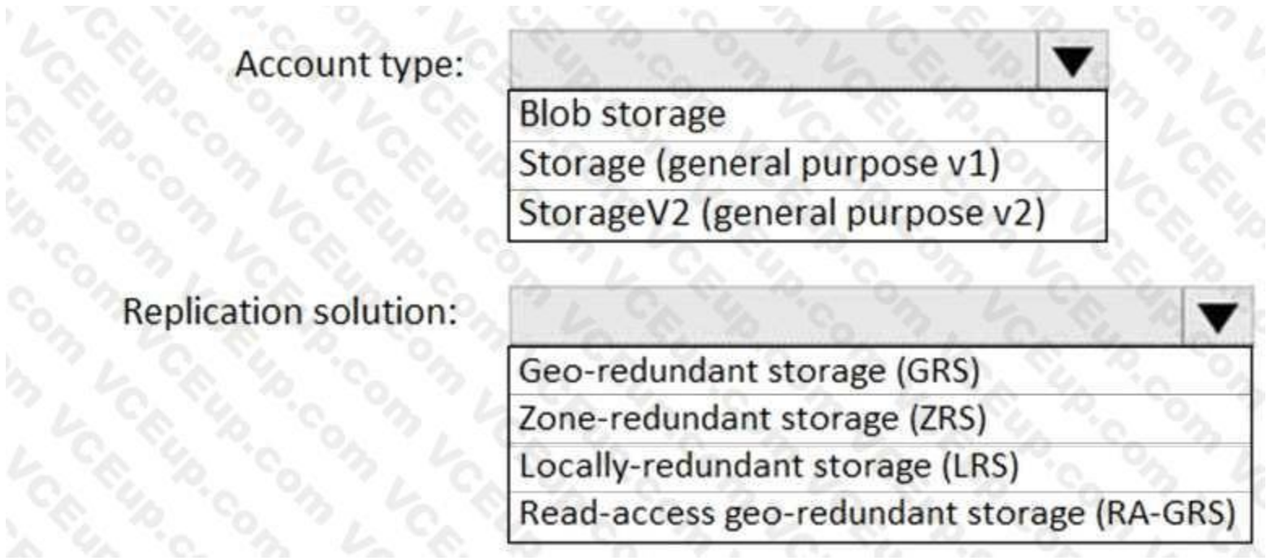
Answer Area:



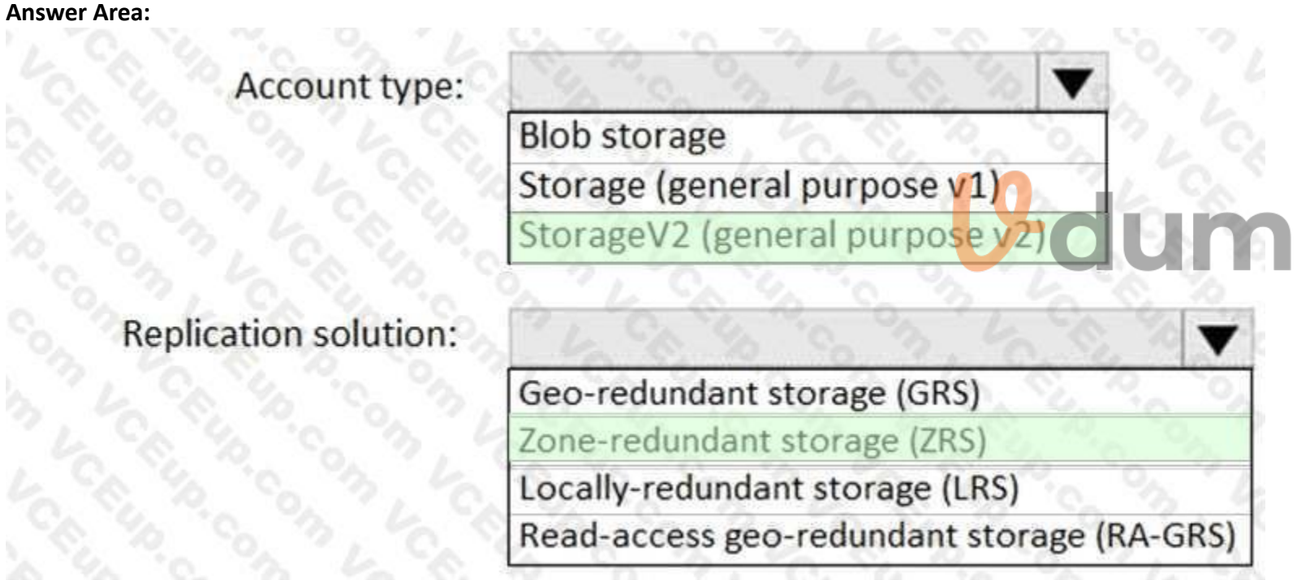
Section:
Explanation:
Box 1: Content Delivery Network
A content delivery network (CDN) is a distributed network of servers that can efficiently deliver web content to users. CDNs store cached content on edge servers in point-of-presence (POP) locations that are close to end users, to minimize latency.
Azure Content Delivery Network (CDN) offers developers a global solution for rapidly delivering highbandwidth content to users by caching their content at strategically placed physical nodes across the world. Azure CDN can also accelerate dynamic content, which cannot be cached, by leveraging various network optimizations using CDN POPs. For example, route optimization to bypass Border Gateway Protocol (BGP). Box 2: Azure Redis Cache
Azure Cache for Redis is based on the popular software Redis. It is typically used as a cache to improve the performance and scalability of systems that rely heavily on backend data-stores. Performance is improved by temporarily copying frequently accessed data to fast storage located close to the application. With Azure Cache for Redis, this fast storage is located in-memory with Azure Cache for Redis instead of being loaded from disk by a database.
Reference:
https://docs.microsoft.com/en-us/azure/azure-cache-for-redis/cache-overview

QUESTION 87
HOTSPOT
You have an on-premises file server that stores 2 TB of data files.
You plan to move the data files to Azure Blob storage in the 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.

Hot Area:



Answer Area:



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

QUESTION 88
DRAG DROP
You are designing a virtual machine that will run Microsoft SQL Server and will contain two data disks. The first data disk will store log files, and the second data disk will store dat a. Both disks are P40 managed disks. You need to recommend a caching policy for each disk. The policy must provide the best overall performance for the virtual machine. Which caching policy should you recommend for each disk? To answer, drag the appropriate policies to the correct disks. Each policy may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.
NOTE: Each correct selection is worth one point.

Select and Place:

Correct Answer:

Section:

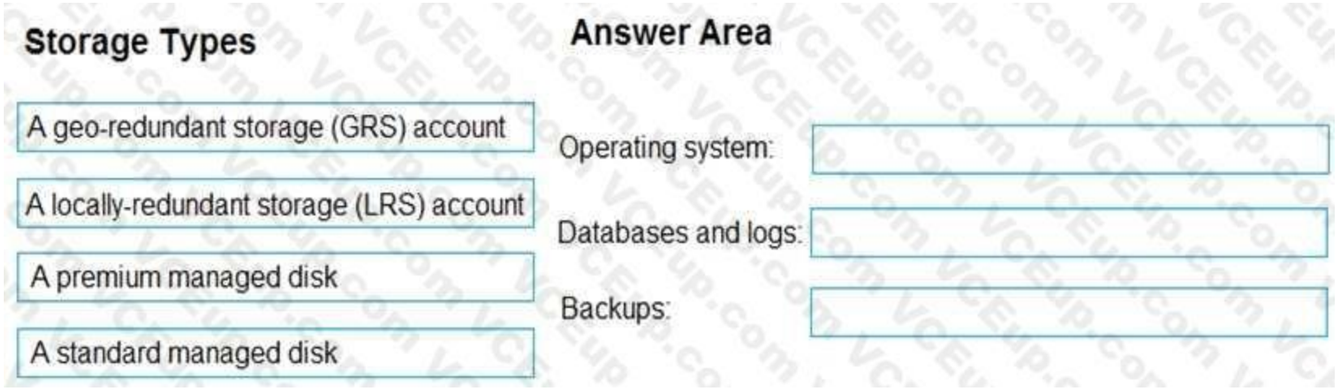
Explanation:
Reference:
https://docs.microsoft.com/en-us/azure/virtual-machines/windows/sql/virtual-machines-windowssql-performance

QUESTION 89
DRAG DROP
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.

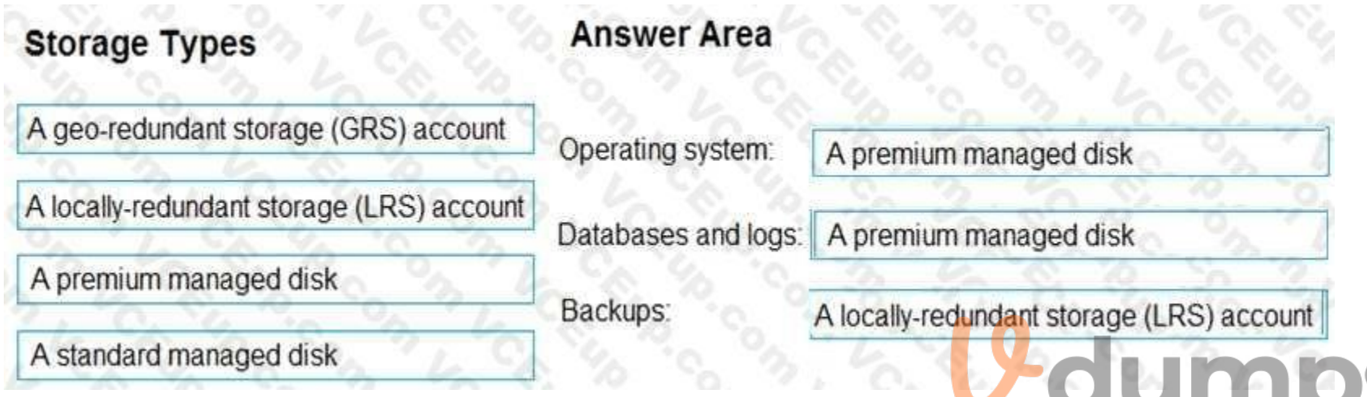
Data type	Storage priority
Operating system	Speed and availability
Databases and logs	Speed and availability
Backups	Lowest cost

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.

Select and Place:



Correct Answer:



Section:

Explanation:

QUESTION 90

HOTSPOT

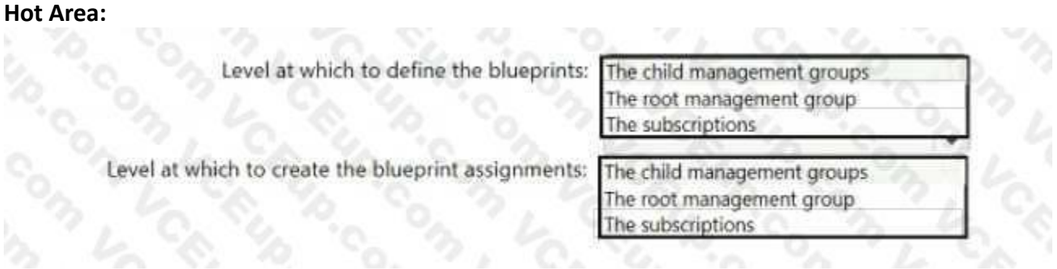
You plan to create an Azure environment that will contain a root management group and 10 child management groups. Each child management group will contain five Azure subscriptions. You plan to have between 10 and 30 resource groups in each subscription.

You need to design an Azure governance solution. The solution must meet the following requirements:

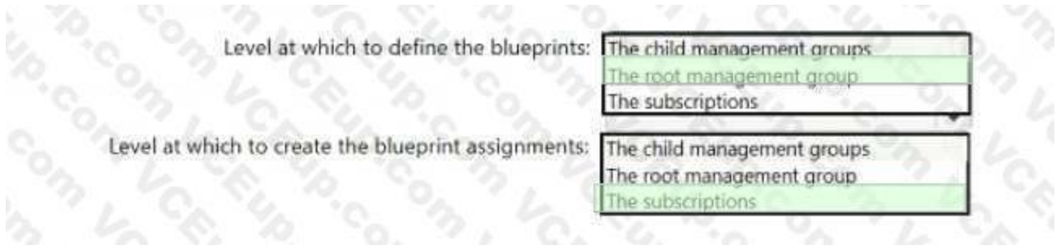
- Use Azure Blueprints to control governance across all the subscriptions and resource groups.
- Ensure that Blueprints-based configurations are consistent across all the subscriptions and resource groups.
- Minimize the number of blueprint definitions and assignments.

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

Hot Area:



Answer Area:



Section:

Explanation:

Reference: https://docs.microsoft.com/en-us/azure/governance/blueprints/create-blueprint-portalAssign a blueprint After a blueprint has been published, it can be assigned to a subscription. Assignthe blueprint that you created to one of the subscriptions under your management group hierarchy.

If the blueprint is saved to a subscription, it can only be assigned to that subscription

QUESTION 91

HOTSPOT

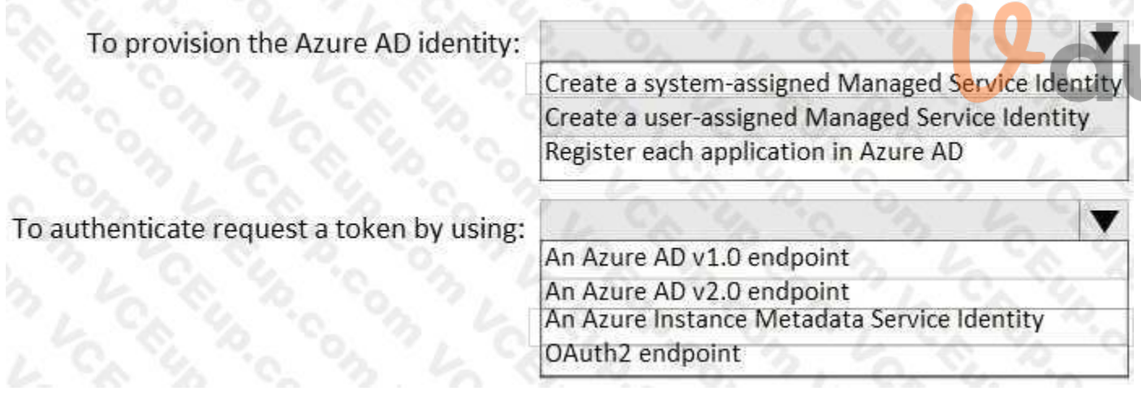
You have five .NET Core applications that run on 10 Azure virtual machines in the same subscription. You need to recommend a solution to ensure that the applications can authenticate by using the same Azure Active Directory (Azure AD) identity. The solution must meet the following requirements:

Ensure that the applications can authenticate only when running on the 10 virtual machines.

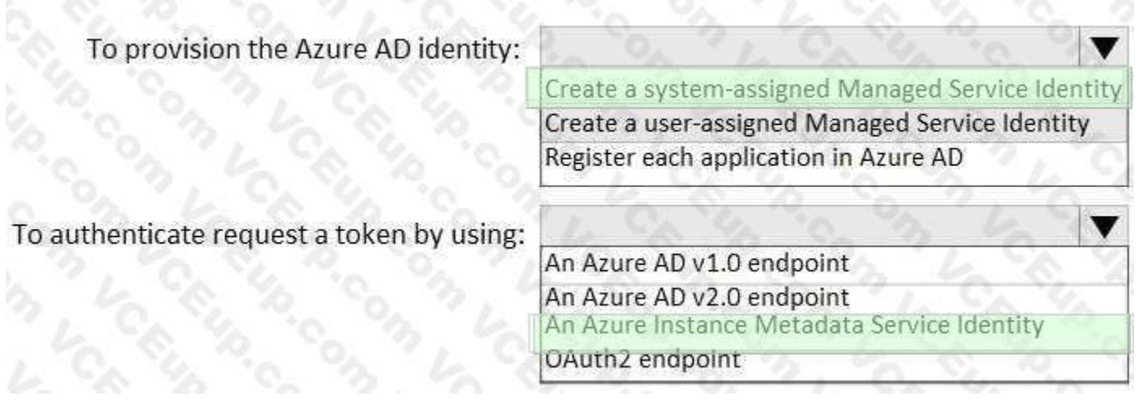
Minimize administrative effort.

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

Hot Area:



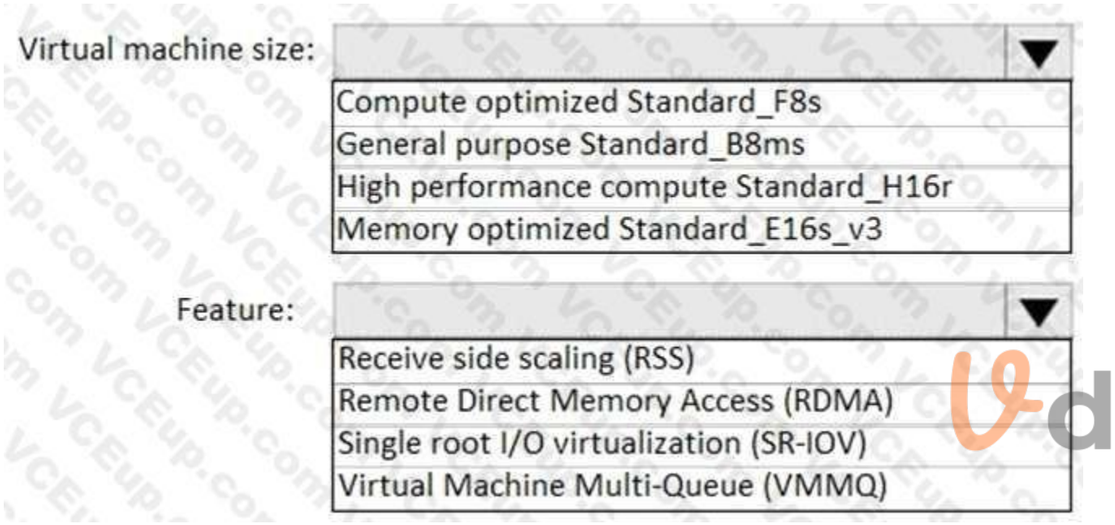
Answer Area:



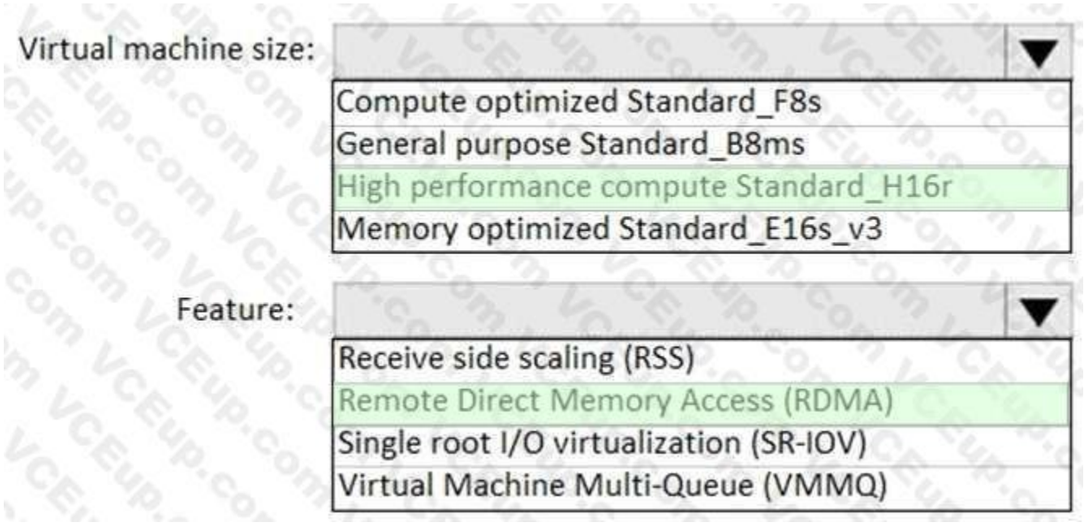
Section:
Explanation:

QUESTION 92
HOTSPOT
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.

Hot Area:



Answer Area:



Section:
Explanation:
Reference:

https://docs.microsoft.com/en-us/azure/virtual-machines/windows/sizes-hpc#h-series

QUESTION 93
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

Correct Answer: B
Section:

QUESTION 94
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

Correct Answer: A
Section:
Explanation:
https://docs.microsoft.com/en-us/sql/relational-databases/security/encryption/always-encrypteddatabase-engine?view=sql-server-ver15

QUESTION 95
You have an Azure Active Directory (Azure AD) tenant that syncs with an on-premises Active Directory domain. Your company has a line-of-business (LOB) application that was developed internally.
You need to implement. SAML single sign-on (SSO) and enforce multi-factor authentication (MFA) when users attempt to access the application from an unknown location. Which two features should you include in the solution? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

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

Correct Answer: A, D
Section:

QUESTION 96
You ate designing an Azure governance solution.
All Azure resources must be easily identifiable based on the following operational information environment, owner, department and cost center You need 10 ensure that you can use the operational information when you

generate reports for the Azure resources.
What should you include in the solution?

A. Azure Active Directory (Azure AD) administrative units
B. an Azure data catalog that uses the Azure REST API as a data source
C. an Azure policy that enforces tagging rules
D. an Azure management group that uses parent groups to create a hierarchy

Correct Answer: C
Section:
Explanation:
You use Azure Policy to enforce tagging rules and conventions. By creating a policy, you avoid the scenario of resources being deployed to your subscription that don't have the expected tags for your organization. Instead of manually applying tags or searching for resources that aren't compliant, you create a policy that automatically applies the needed tags during deployment. Note: Organizing cloud-based resources is a crucial task for IT, unless you only have simple deployments. Use naming and tagging standards to organize your resources for these reasons:
Resource management: Your IT teams will need to quickly locate resources associated with specific workloads, environments, ownership groups, or other important information. Organizing resources is critical to assigning organizational roles and access permissions for resource management.
Reference:
https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/decision-guides/resourcetagging
https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/tag-policies

QUESTION 97
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.

Correct Answer: C
Section:
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-differentfrom-resource-m.html

QUESTION 98
A company named Contoso, Ltd. has an Azure Active Directory (Azure AD) tenant that is integrated with Microsoft Office 365 and an Azure subscription. Contoso has an on-premises identity infrastructure. The infrastructure includes servers that run Active Directory Domain Services (AD DS), and Azure AD Connect Contoso has a partnership with a company named Fabrikam, Inc. Fabrikam has an Active Directory forest and an Office 365 tenant. Fabrikam has the same on-premises identity infrastructure as Contoso. A team of 10 developers from Fabrikam will work on an Azure solution that will be hosted in the Azure subscription of Contoso. The developers must be added to the Contributor role for a resource in the Contoso subscription. You need to recommend a solution to ensure that Contoso can assign the role to the 10 Fabrikam developers. The solution must ensure that the Fabrikam developers use their existing credentials to access resources. What should you recommend?

A. Configure a forest trust between the on-premises Active Directory forests of Contoso and Fabrikam.
B. Configure an organization relationship between the Office 365 tenants of Fabrikam and Contoso.
C. In the Azure AD tenant of Contoso, use MIM to create guest accounts for the Fabrikam developers.
D. Configure an AD FS relying party trust between the fabrikam and Contoso AD FS infrastructures.

Correct Answer: A
Section:
Explanation:
Trust configurations - Configure trust from managed forests(s) or domain(s) to the administrative forest A one-way trust is required from production environment to the admin forest. Selective authentication should be used to restrict accounts in the admin forest to only logging on to the appropriate production hosts.
Reference:
https://docs.microsoft.com/en-us/windows-server/identity/securing-privileged-access/securingprivileged-access-reference-material

QUESTION 99
You are designing a microservices architecture that will support a web application.
The solution must meet the following requirements:
Allow independent upgrades to each microservice
Deploy the solution on-premises and to Azure
Set policies for performing automatic repairs to the microservices
Support low-latency and hyper-scale operations
You need to recommend a technology.
What should you recommend?

A. Azure Service Fabric
B. Azure Container Service
C. Azure Container Instance
D. Azure Virtual Machine Scale Set

Correct Answer: A
Section:
Explanation:
https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-overview

QUESTION 100
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

Correct Answer: A
Section:
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

QUESTION 101
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 account. Create a blob container and copy the files to the blob container.
B. Create a general-purpose v2 storage account that is configured for the Hot default access tier.
Create a blob container, copy the files to the blob container, and set each file to the Archive access tier.
C. Create a general-purpose v1 storage account. Create a file share in the storage account and copy the files to the file share.
D. Create a general-purpose v2 storage account that is configured for the Cool default access tier. Create a file share in the storage account and copy the files to the file share.
E. Create an Azure Blob storage account that is configured for the Cool default access tier. Create a blob container, copy the files to the blob container, and set each file to the Archive access tier.

Correct Answer: B, E
Section:
Explanation:
https://docs.microsoft.com/en-us/azure/storage/blobs/manage-access-tier?tabs=portal

QUESTION 102
You have 100 Microsoft SQL Server integration Services (SSIS) packages that are configured to use 10 on-premises SQL Server databases as their destinations. You plan to migrate the 10 on-premises databases to Azure SQL Database You need to recommend a solution to host the SSIS packages in Azure. The solution must ensure that the packages can target the SQL Database instances as their destinations.
What should you include in the recommendation?

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

Correct Answer: C
Section:
Explanation:

QUESTION 103
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

Correct Answer: D

Section:
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-transactionalityin- azure

QUESTION 104
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

Correct Answer: B
Section:
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

QUESTION 105
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

Correct Answer: A
Section:
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

QUESTION 106
You plan to deploy 10 applications to Azure. The applications will be deployed to two Azure Kubernetes Service (AKS) clusters. Each cluster will be deployed to a separate Azure region. The application deployment must meet the following requirements:
• Ensure that the applications remain available if a single AKS cluster fails.
• Ensure that the connection traffic over the internet is encrypted by using SSL without having to configure SSL on each container. Which service should you include in the recommendation?

A. AKS ingress controller
B. Azure Traffic Manager

C. Azure Front Door
D. Azure Load Balancer

Correct Answer: C
Section:
Explanation:
"Azure Front Door, which focuses on global load-balancing and site acceleration, and Azure CDN Standard, which offers static content caching and acceleration. The new Azure Front Door brings together security with CDN technology for a cloud-based CDN with threat protection and additional capabilities. "

QUESTION 107
Your company has an on-premises Hyper-V cluster that contains 20 virtual machines. Some of the virtual machines are based on Windows and some in Linux. You have to migrate the virtual machines onto Azure. You have to recommend a solution that would be used to replicate the disks of the virtual machines to Azure. The solution needs to ensure that the virtual machines remain available when the migration of the disks is in progress. You decide to create an Azure storage account and then run AzCopy
Would this fulfill the requirement?

A. Yes
B. No

Correct Answer: B
Section:

QUESTION 108
You have an Azure virtual machine named VM1 that runs Windows Server 2019 and contains 500 GB of data files. You are designing a solution that will use Azure Data Factory to transform the data files, and then load the files to Azure Data Lake Storage What should you deploy on VM1 to support the design?

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

Correct Answer: A
Section:

QUESTION 109
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

Correct Answer: B
Section:

QUESTION 110

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

Correct Answer: B
Section:

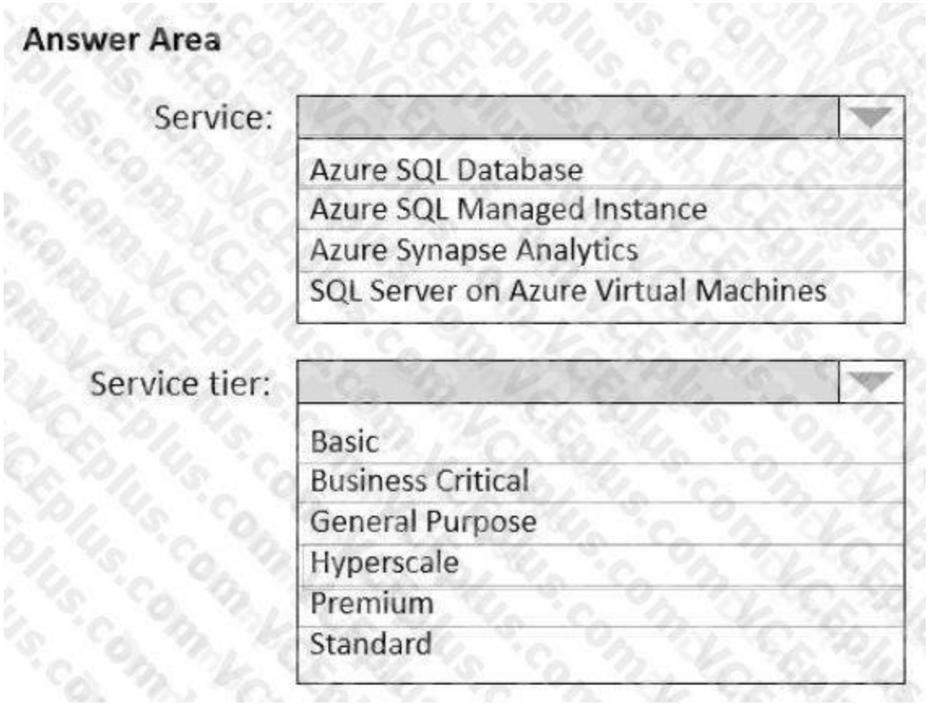
QUESTION 111
You are developing a sates application that will contain several Azure cloud services and handle different components of a transaction. Different cloud services will process customer orders, billing, payment inventory, and shipping. You need to recommend a solution to enable the cloud services to asynchronously communicate transaction information by using XML messages. What should you include in the recommendation?

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

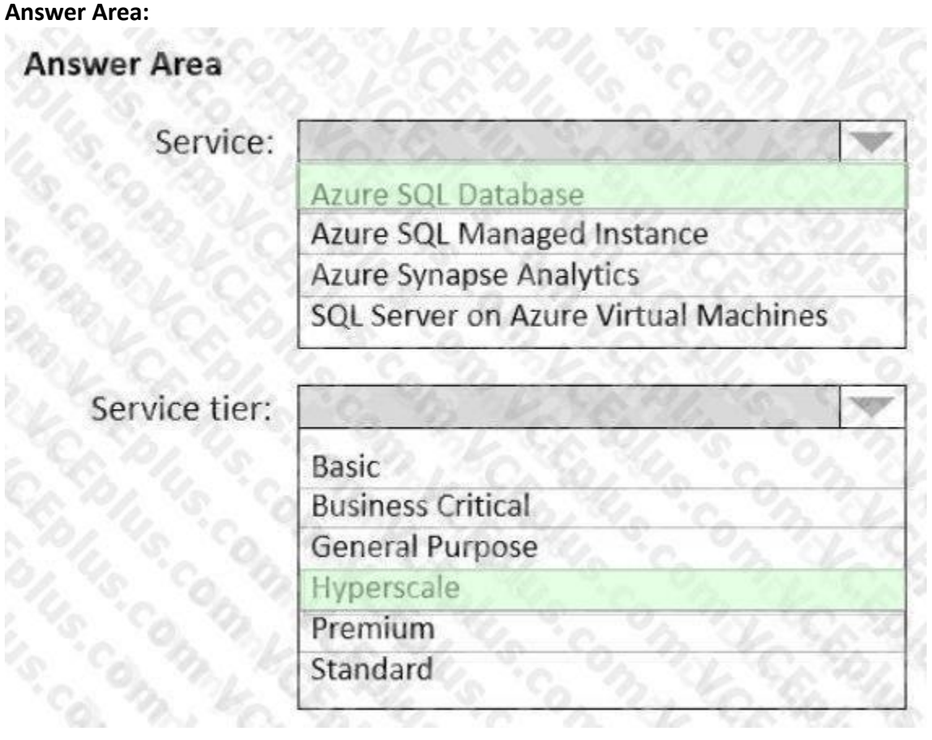
Correct Answer: C
Section:

QUESTION 112
HOTSPOT
You have an on-premises database that you plan to migrate to Azure.
You need to design the database architecture to meet the following requirements:
Support scaling up and down.
Support geo-redundant backups.
Support a database of up to 75 TB.
Be optimized for online transaction processing (OLTP).
What should you include in the design? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area:



Section:

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 Incorrect Answers:
SQL Server on Azure VM: geo-replication not supported.
Azure Synapse Analytics is not optimized for online transaction processing (OLTP).
Azure SQL Managed Instance max database size is up to currently available instance size (depending on the number of vCores). Max instance storage size (reserved) - 2 TB for 4 vCores
- 8 TB for 8 vCores - 16 TB for other sizes
Reference: https://docs.microsoft.com/en-us/azure/azure-sql/database/active-geo-replication-overview https://medium.com/awesome-azure/azure-difference-between-azure-sql-database-and-sql-server-on-vm-comparison-azuresql-vs-sql-server-vm-cf02578a1188

QUESTION 113
HOTSPOT
You have an Azure subscription that contains the SQL servers on Azure shown in the following table.

Name	Resource group	Location
SQLsvr1	RG1	East US
SQLsvr2	RG2	West US

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

Name	Resource group	Location	Account kind
storage1	RG1	East US	StorageV2 (general purposev2)
storage2	RG2	Central US	BlobStorage

You create the Azure SQL databases shown in the following table.

Name	Resource group	Server	Pricing tier
SQLdb1	RG1	SQLsvr1	Standard
SQLdb2	RG1	SQLsvr1	Standard
SQLdb3	RG2	SQLsvr2	Premium

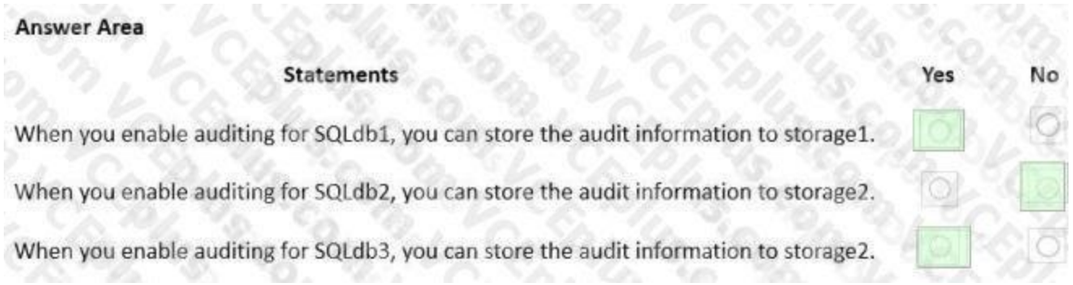
For each of the following statements, select Yes if the statement is true. Otherwise, select No.
NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
When you enable auditing for SQLdb1, you can store the audit information to storage1.	○	○
When you enable auditing for SQLdb2, you can store the audit information to storage2.	○	○
When you enable auditing for SQLdb3, you can store the audit information to storage2.	○	○

Answer Area:

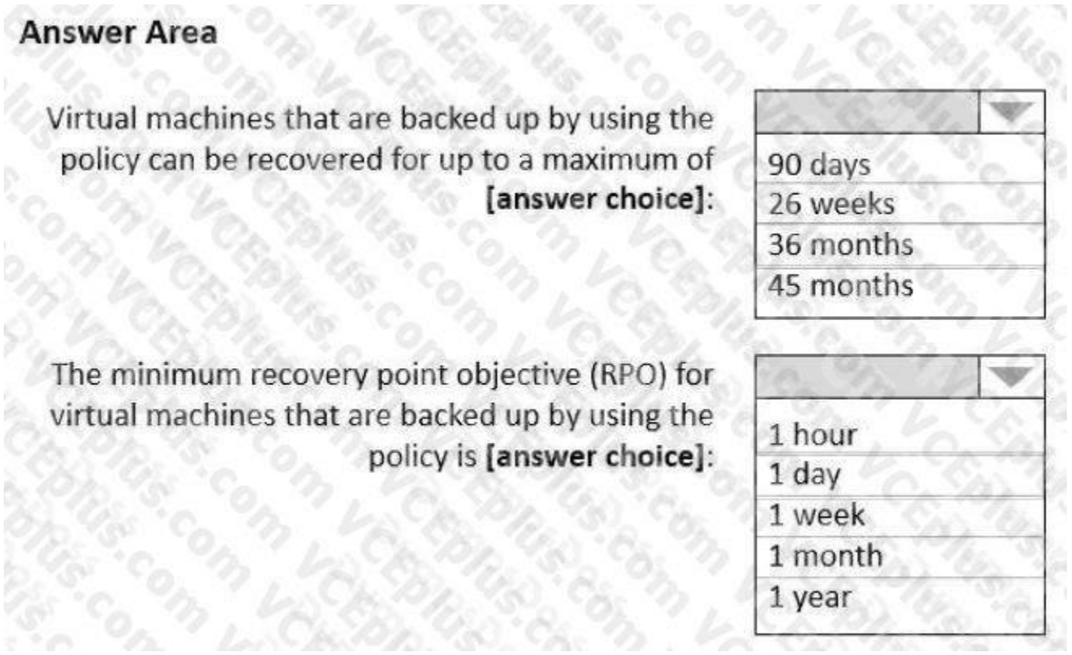


Section:
Explanation:
Box 1: Yes
Be sure that the destination is in the same region as your database and server.
Box 2: Yes
Box 3: Yes
Blob Storage is always standard but SQL database premium supports audit logs.
Reference: https://docs.microsoft.com/en-us/azure/sql-database/sql-database-auditing

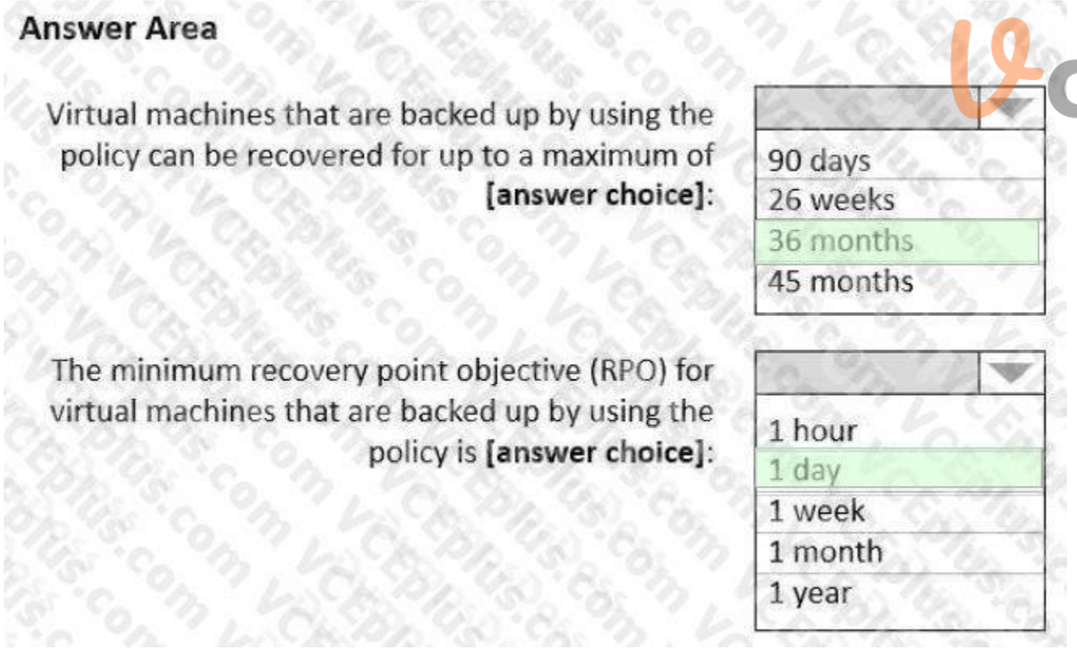
QUESTION 114
HOTSPOT
You plan to deploy the backup policy shown in the following exhibit.

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.

Hot Area:



Answer Area:

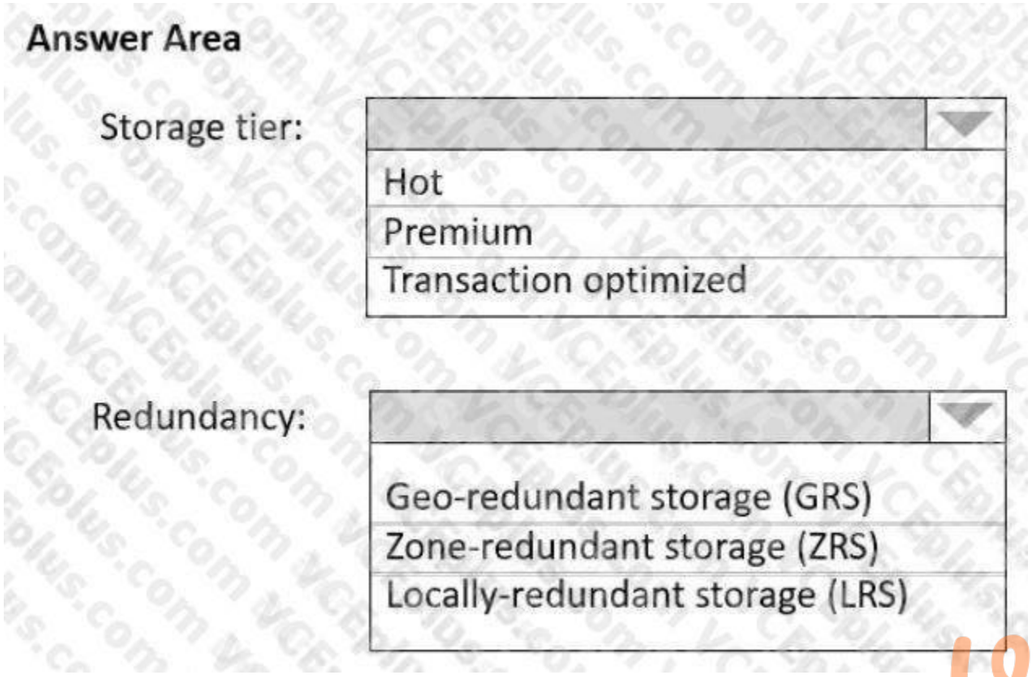


Section:
Explanation:

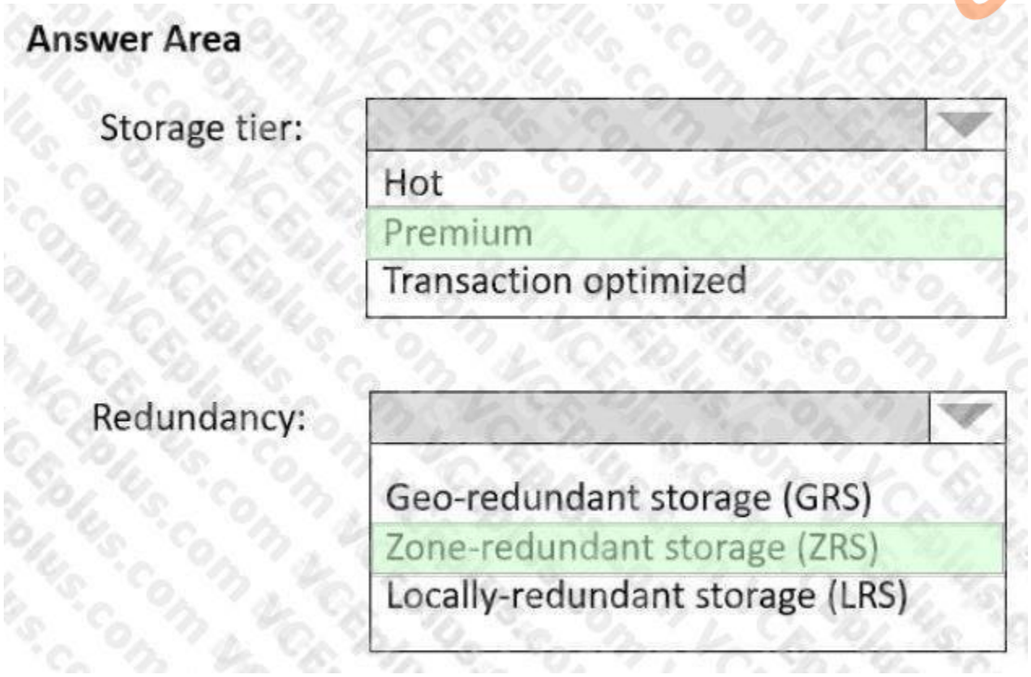
QUESTION 115
HOTSPOT
You plan to create an Azure Storage account that will host file shares. The shares will be accessed from on-premises applications that are transaction-intensive. You need to recommend a solution to minimize latency when accessing the file shares. The solution must provide the highest-level of resiliency for the selected storage tier. What should you include in the recommendation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area:

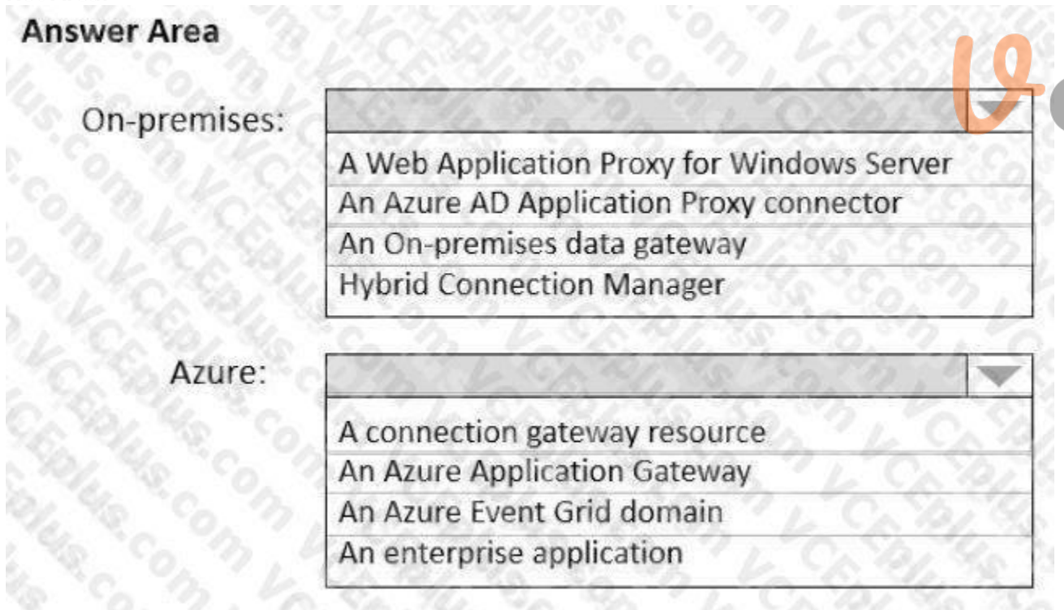


Section:
Explanation:
Box 1: Premium

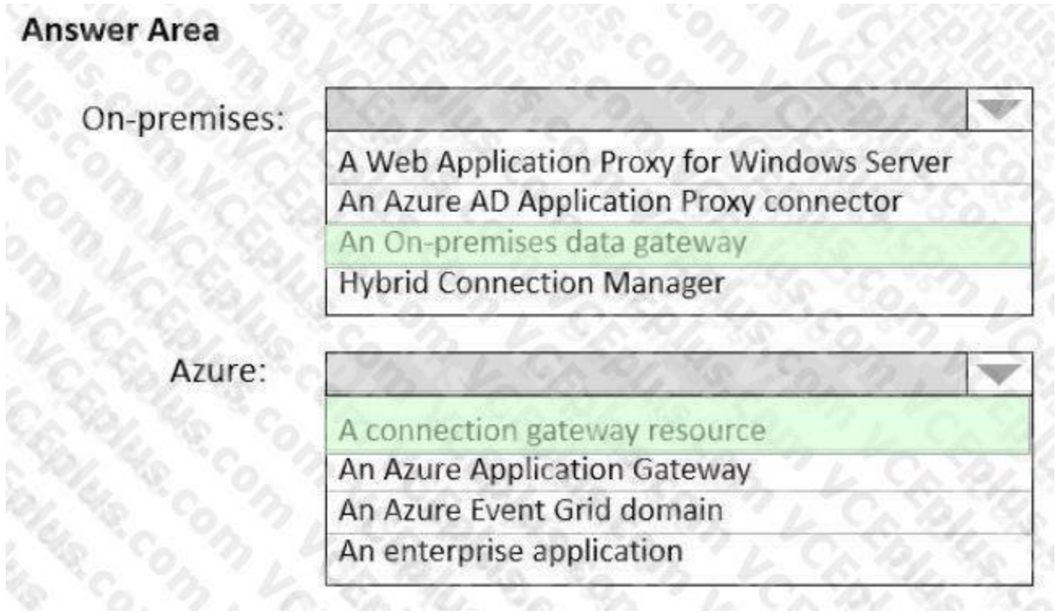
Premium: Premium file shares are backed by solid-state drives (SSDs) and provide consistent high performance and low latency, within single-digit milliseconds for most IO operations, for IO-intensive workloads. Incorrect Answers:
Hot: Hot file shares offer storage optimized for general purpose file sharing scenarios such as team shares. Hot file shares are offered on the standard storage hardware backed by HDDs. Transaction optimized: Transaction optimized file shares enable transaction heavy workloads that don't need the latency offered by premium file shares. Transaction optimized file shares are offered on the standard storage hardware backed by hard disk drives (HDDs). Transaction optimized has historically been called "standard", however this refers to the storage media type rather than the tier itself (the hot and cool are also "standard" tiers, because they are on standard storage hardware).
Box 2: Zone-redundant storage (ZRS):
Premium Azure file shares only support LRS and ZRS.
Zone-redundant storage (ZRS): With ZRS, three copies of each file stored, however these copies are physically isolated in three distinct storage clusters in different Azure availability zones.
Reference: https://docs.microsoft.com/en-us/azure/storage/files/storage-files-planning

QUESTION 116
HOTSPOT
You have an Azure subscription named Subscription1 that is linked to a hybrid Azure Active Directory (Azure AD) tenant.
You have an on-premises datacenter that does NOT have a VPN connection to Subscription1. The datacenter contains a computer named Server1 that has Microsoft SQL Server 2016 installed. Server is prevented from accessing the internet.
An Azure logic app resource named LogicApp1 requires write access to a database on Server1.
You need to recommend a solution to provide LogicApp1 with the ability to access Server1.
What should you recommend deploying on-premises and in Azure? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area:



Section:

Explanation:

Box 1: An on-premises data gateway

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

Box 2: A connection gateway resource

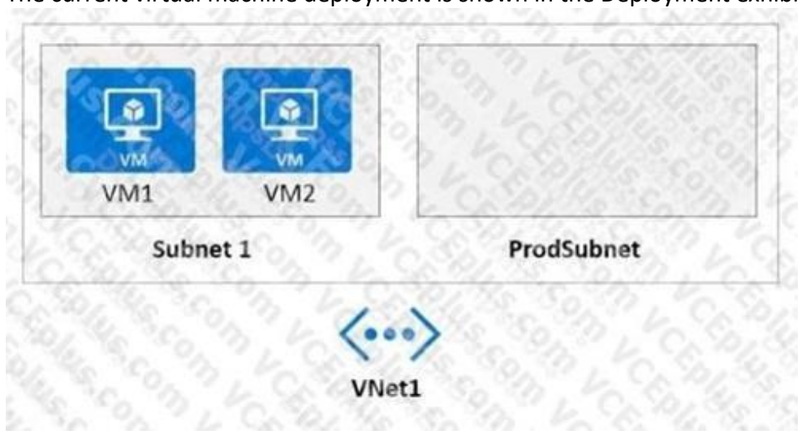
Reference: https://docs.microsoft.com/en-us/azure/connectors/connectors-create-api-sqlazure

QUESTION 117

HOTSPOT

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

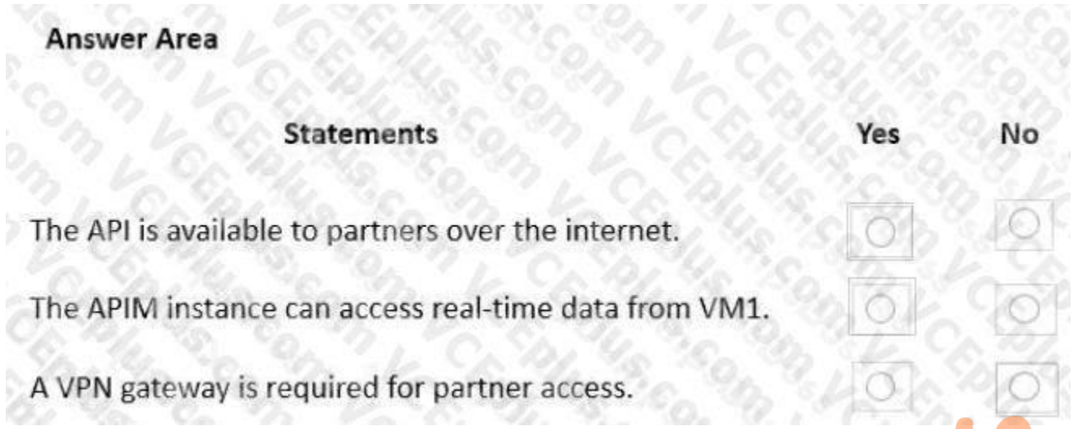
The current virtual machine deployment is shown in the Deployment exhibit.



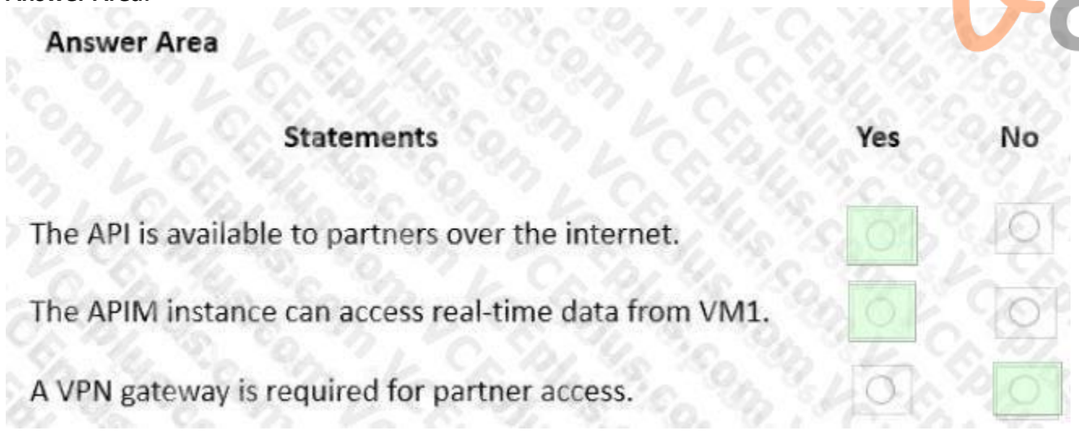
The chief technology officer (CTO) sends you the following email message: "Our developers have deployed the web service to a virtual machine named VM1. Testing has shown that the API is accessible from VM1 and VM2. Our partners must be able to connect to the API over the Internet. Partners will use this data in applications that they develop." You deploy an Azure API Management (APIM) service. The relevant API Management configuration is shown in the API exhibit.

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

Hot Area:



Answer Area:



Section:
Explanation:

QUESTION 118
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 Premium

B. Azure SQL Database Hyperscale
C. Azure SQL Database Basic
D. Azure SQL Managed Instance Business Critical

Correct Answer: D
Section:

QUESTION 119
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

Correct Answer: C
Section:

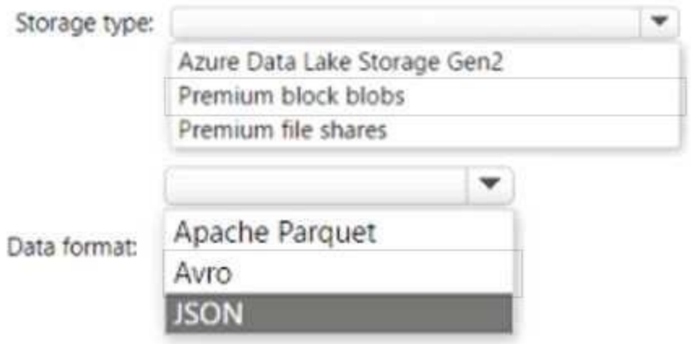
QUESTION 120
You have an on-premises Microsoft SQL server named SQLI that hosts 50 databases.
You plan to migrate SQL 1 to Azure SQL Managed Instance.
You need to perform an offline migration of SQL 1. The solution must minimize administrative effort. What should you include in the solution?

A. SQL Server Migration Assistant (SSMA)
B. Azure Migrate
C. Data Migration Assistant (DMA)
D. Azure Database Migration Service

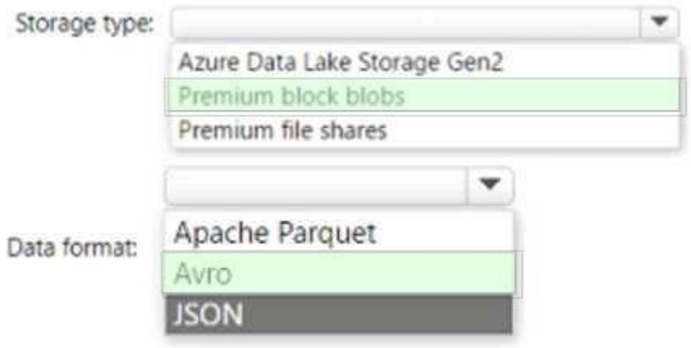
Correct Answer: D
Section:
Explanation:
This Azure service supports migration in the offline mode for applications that can afford downtime during the migration process. Unlike the continuous migration in online mode, offline mode migration runs a one-time restore of a full database backup from the source to the target
https://learn.microsoft.com/en-us/azure/azure-sql/migration-guides/managed-instance/sql-serverto-managed-instance-overview?view=azuresql#compare-migration-options

QUESTION 121
HOTSPOT
You have an app that generates 50,000 events daily.
You plan to Stream the events to an Azure event hub and use Event Hubs Capture to implement cold path processing Of the events Output Of Event Hubs Capture will be consumed by a reporting system. You reed to identify which type of Azure storage must be provisioned to support Event Hubs Capture, and which inbound data format the reporting system must support. What should you identity? To answer. select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area:



Section:
Explanation:

QUESTION 122
DRAG DROP
You have an on-premises named App 1.
Customers App1 to manage digital images.
You plan to migrate App1 to Azure.
You need to recommend a data storage solution for Appl. The solution must meet the following image storage requirements:
Encrypt images at rest.
Allow files up to 50M

Select and Place:

Correct Answer:

Section:
Explanation:

QUESTION 123
You have a multi-tier app named Appl and an Azure SQL database named SQL l. The backend service
Of Appl writes data to Users use the Appl client to read the data from SQL 1.
During periods of high utilization the users experience delays retrieving the data.
You need to minimize how long it takes for data requests.
What should you include in the solution?

A. Azure Synapse Analytics
B. Azure Content Delivery Network (CON)
C. Azure Data Factory
D. Azure Cache for Redis

Correct Answer: D
Section:

QUESTION 124
You are designing an app that will include two components. The components will communicate by sending messages via a queue. You need to recommend a solution to process the messages by using a First in. First out (FIFO) pattern. What should you include in the recommendation?

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

D. storage queues with a stored access policy

Correct Answer: B
Section:

QUESTION 125
You plan to deploy an application named App1 that will run in containers on Azure Kubernetes Service (AKS) clusters. The AKS clusters will be distributed across four Azure regions. You need to recommend a storage solution to ensure that updated container images are replicated automatically to all the Azure regions hosting the AKS clusters. Which storage solution should you recommend?

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

Correct Answer: B
Section:

QUESTION 126
HOTSPOT
You have an on-premises Microsoft SQL Server database named SQL1.
You plan to migrate SQL 1 to Azure.
You need to recommend a hosting solution for SQL1. The solution must meet the following requirements:
• Support the deployment of multiple secondary, read-only replicas.
• Support automatic replication between primary and secondary replicas.
• Support failover between primary and secondary replicas within a 15-minute recovery time objective (RTO).

Hot Area:

Answer Area:

Section:
Explanation:

QUESTION 127
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 Azure to the virtual machines. Solution: Install and configure the Azure Monitoring agent and the Dependency Agent on all the virtual machines. Use VM insights in Azure Monitor to analyze the network traffic. Does this meet the goal?

A. Yes
B. No

Correct Answer: B
Section:

QUESTION 128
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

Correct Answer: C
Section:
Explanation:

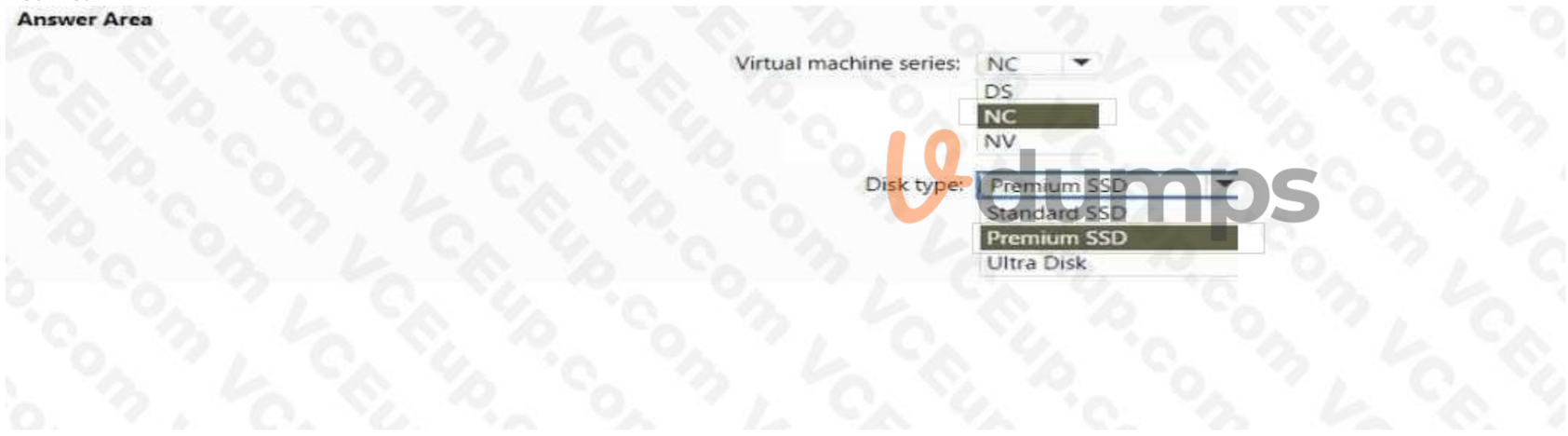
QUESTION 129
You have an on-premises storage solution.
You need to migrate the solution to Azure. The solution must support Hadoop Distributed File System (HDFS). What should you use?

A. Azure Data Lake Storage Gen2
B. Azure NetApp Files
C. Azure Data Share
D. Azure Table storage

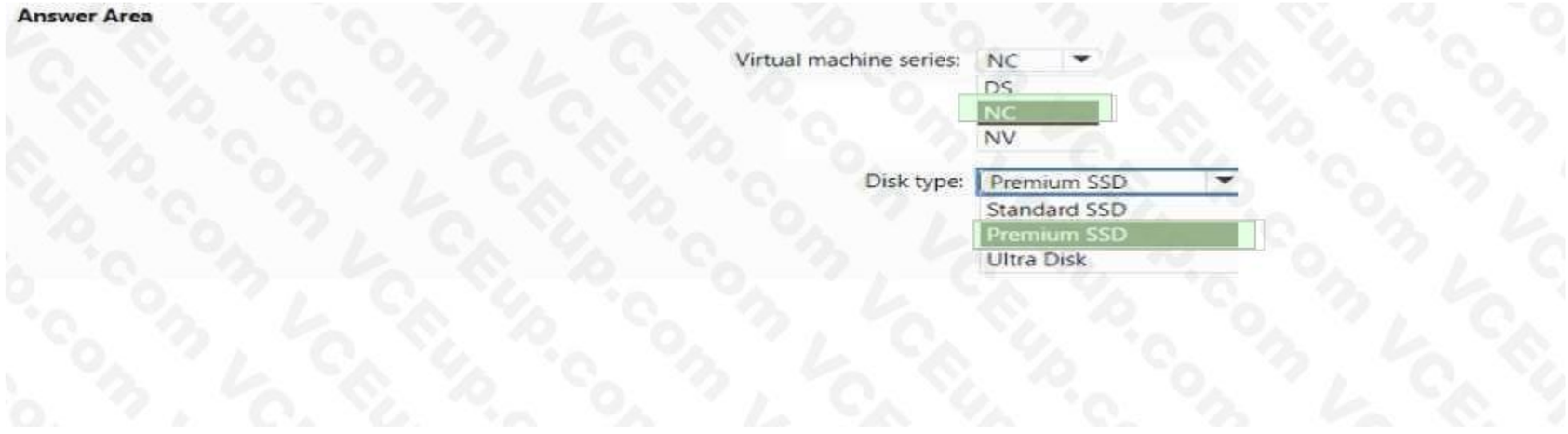
Correct Answer: A
Section:

QUESTION 130
HOTSPOT
You need to deploy an instance of SQL Server on Azure Virtual Machines. The solution must meet the following requirements:
• Support 15.000 disk IOPS.
• Support SR-IOV.
• Minimize costs.
What should you include in the solution? To answer, select the appropriate options in the answer are a. NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area:



Section:
Explanation:

QUESTION 131
Your company plans to deploy various Azure App Service instances that will use Azure SQL databases. The App Service instances will be deployed at the same time as the Azure SQL databases.
The company has a regulatory requirement to deploy the App Service instances only to specific Azure regions. The resources for the App Service instances must reside in the same region. You need to recommend a solution to meet the regulatory requirement.
Solution: You recommend using the Regulatory compliance dashboard in Microsoft Defender for Cloud.
Does this meet the goal?

A. Yes
B. No

Correct Answer: B
Section:

QUESTION 132
You have an Azure subscription that contains the resources shown in the following table.

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

You need to recommend a load balancing solution that will distribute incoming traffic for VMSS1 across NVA1 and NVA2. The solution must minimize administrative effort.
What should you include in the recommendation?

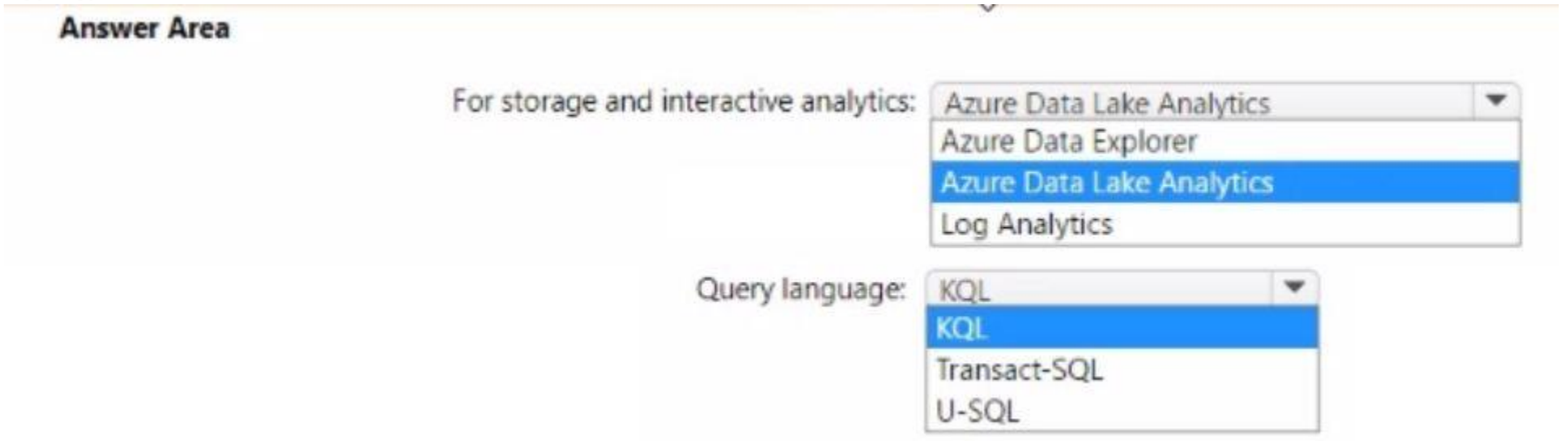
A. Gateway Load Balancer
B. Azure Front Door
C. Azure Application Gateway
D. Azure Traffic Manager

Correct Answer: B
Section:

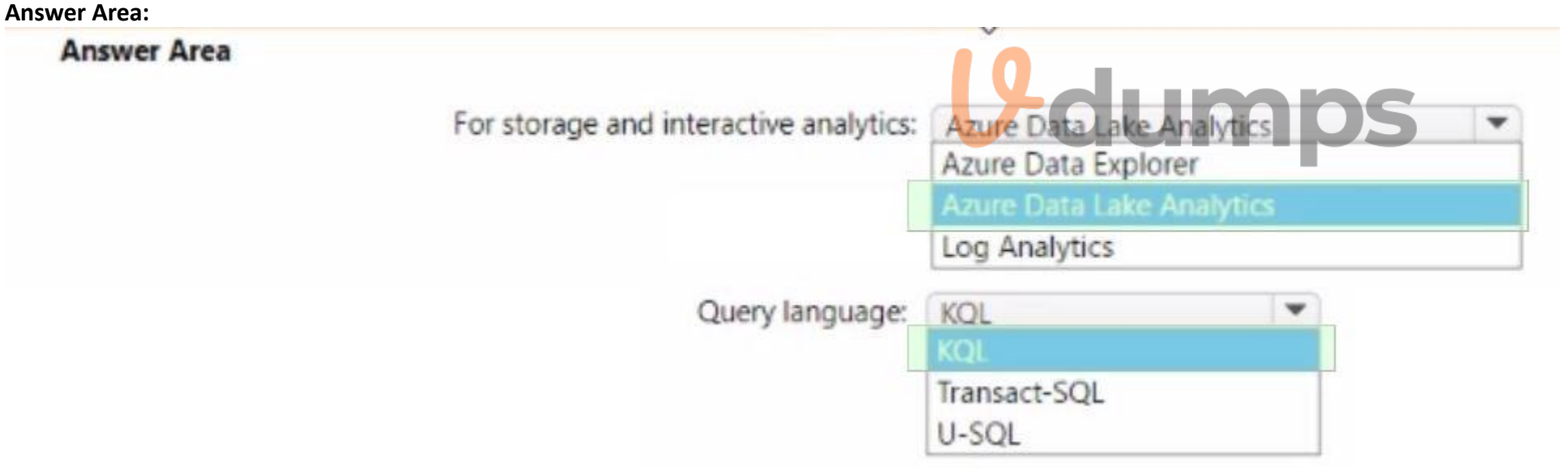
QUESTION 133
HOTSPOT
You are designing a storage solution that will ingest, store, and analyze petabytes (PBs) of structured, semi-structured and unstructured text dat a. The analyzed data will be offloaded to Azure Data Lake Storage Gen2 for long-term retention.
You need to recommend a storage and analytics solution that meets the following requirements:

* Stores the processed data
* Provides interactive analytics
* Supports manual scaling, built-in autoscaling. and custom autoscaling
What should you include in the recommendation? To answer, select the appropriate options in the answer area.
NOTE Each correct selection is worth one point.

Hot Area:



Answer Area:

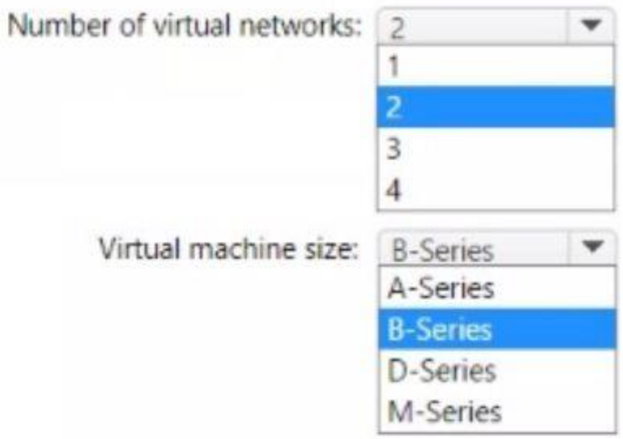


Section:
Explanation:

QUESTION 134
HOTSPOT
You are developing a multi-tier app named App1 that will be hosted on Azure virtual machines. The peak utilization periods for App1 will be from 8 AM to 9 AM and 4 PM to 5 PM on weekdays.
You need to deploy the infrastructure for App1. The solution must meet the following requirements:
* Support virtual machines deployed to four availability zones across two Azure regions.
* Minimize costs by accumulating CPU credits during periods of low utilization.
What is the minimum number of virtual networks you should deploy, and which virtual machine size should you use? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

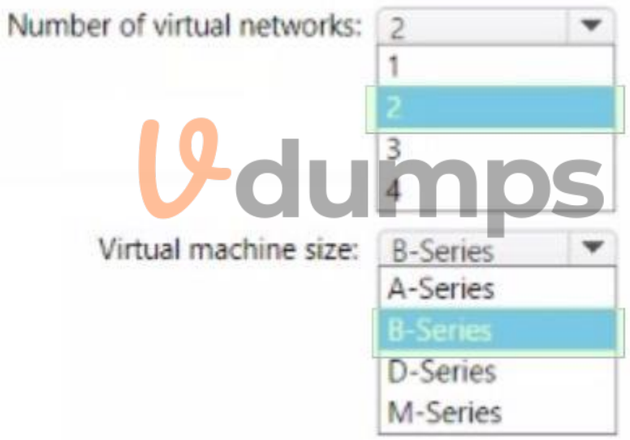
Hot Area:

Answer Area



Answer Area:

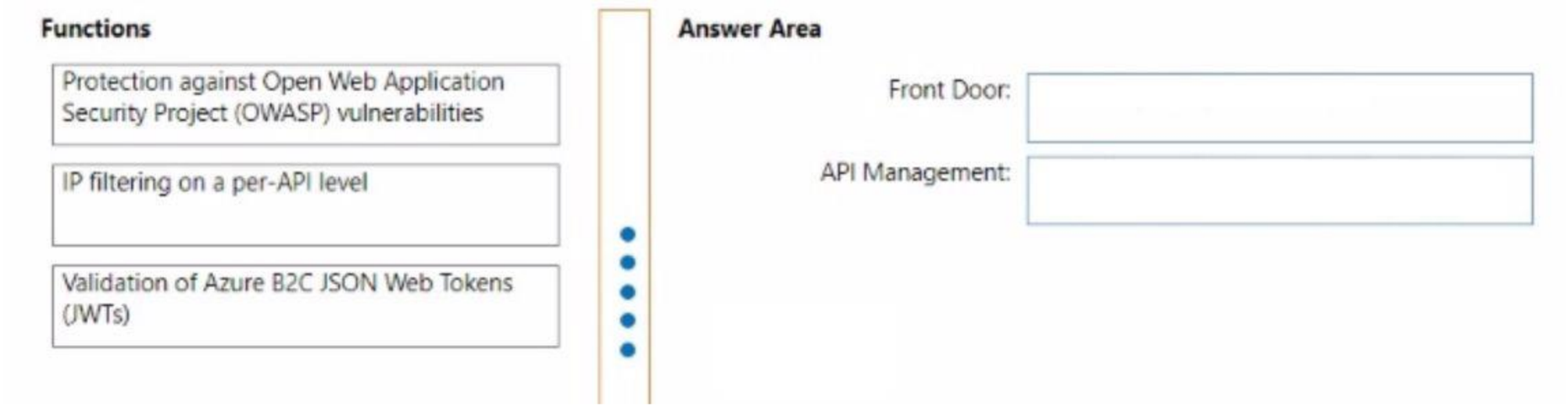
Answer Area



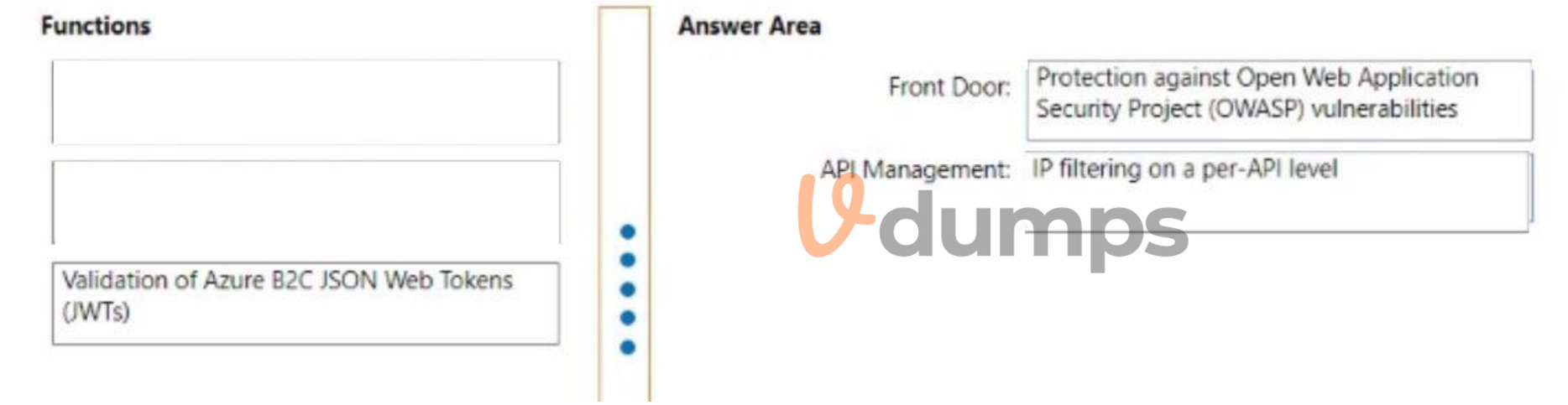
Section:
Explanation:

QUESTION 135
DRAG DROP
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.

Select and Place:



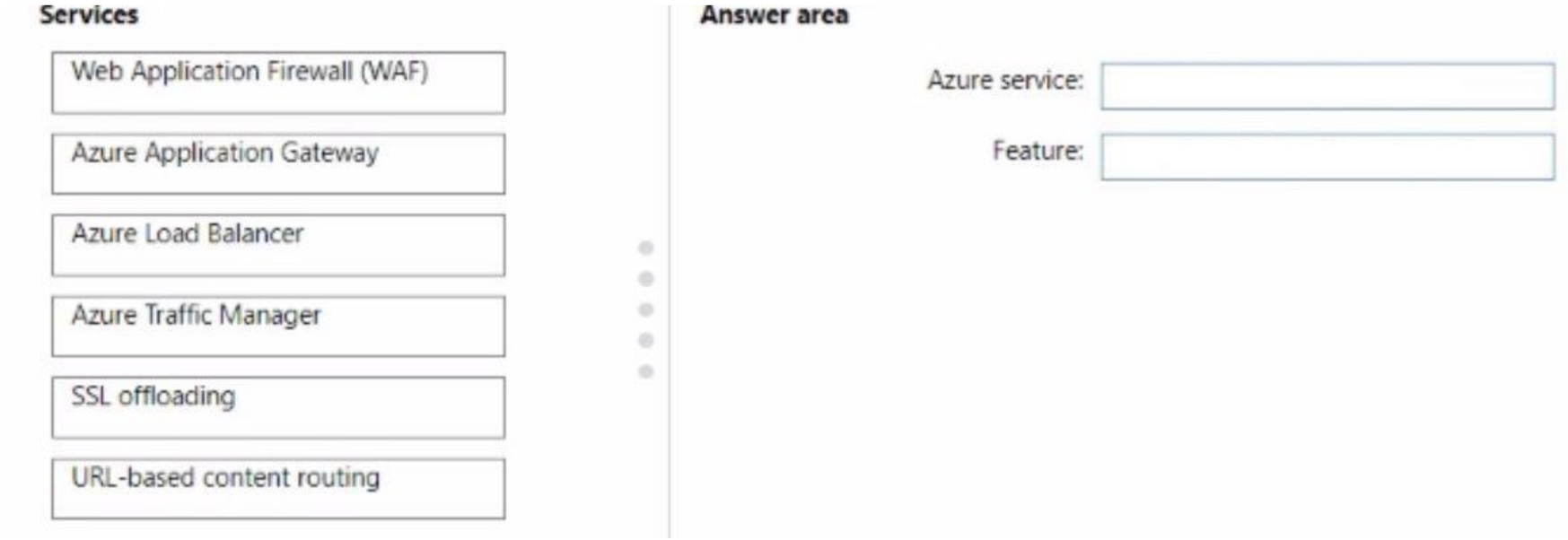
Correct Answer:



Section:
Explanation:
1: Azure Front Door - Web Application Firewall2:Azure API Management policy reference - ip-filter3:How to validate an Azure B2C JWT token in a web API?

QUESTION 136
DRAG DROP
Your company has an existing web app that runs on Azure virtual machines.
You need to ensure that the app is protected from SQL injection attempts and uses a layer-7 load balancer. The solution must minimize disruptions to the code of the app.
What should you recommend? To answer, drag the appropriate services to the correct targets. Each service may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content
NOTE: Each correct selection is worth one point.

Select and Place:



Correct Answer:

Section:
Explanation:

QUESTION 137
HOTSPOT
You have an Azure subscription that contains the resources shown in the following table.

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

Hot Area:

Answer Area

Resource:
- App1
- App1Logs
- Workspace1

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

Answer Area:

Answer Area

Resource:
- App1
- App1Logs
- Workspace1

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

Section:
Explanation:

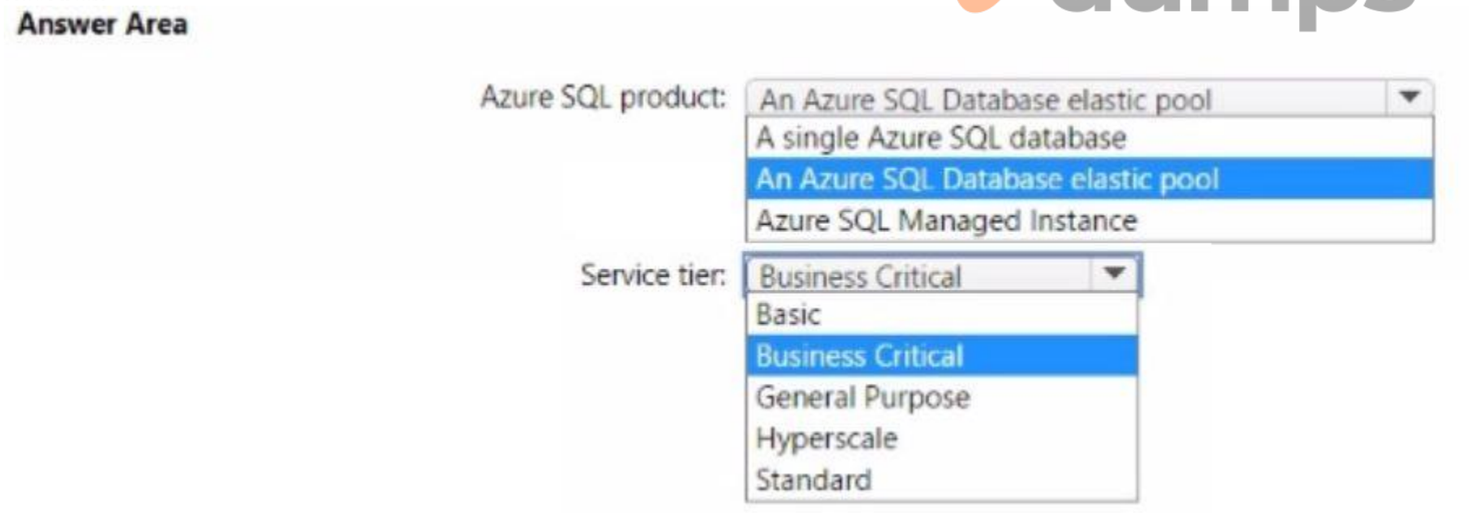
QUESTION 138
You have 12 Azure subscriptions and three projects. Each project uses resources across multiple subscriptions.
You need to use Microsoft Cost Management to monitor costs on a per project basis. The solution must minimize administrate effort
Which two components should you include in the solution? Each correct answer presents part of the solution.
NOTE: Each correct selection is worth one point.

A. budgets
B. resource tags
C. custom role-based access control (RBAC) roles
D. management groups
E. Azure boards

Correct Answer: C, D
Section:

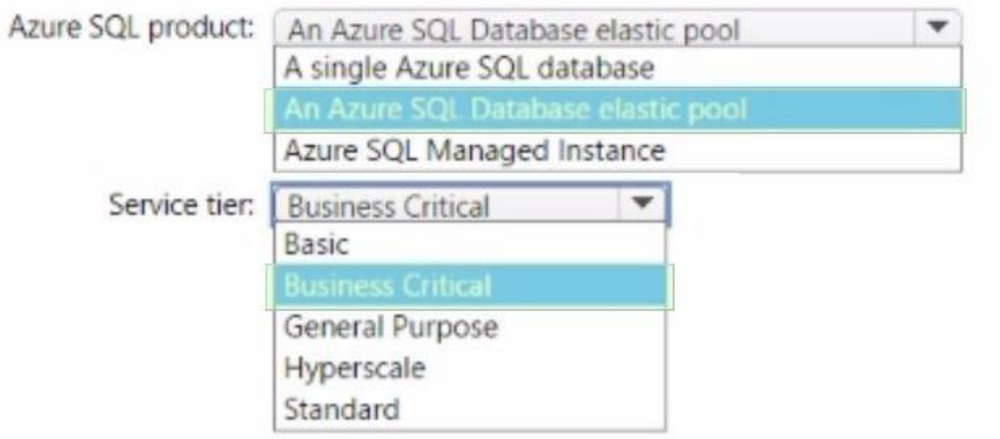
QUESTION 139
HOTSPOT
You plan to use Azure SQL as a database platform.
You need to recommend an Azure SQL product and service tier that meets the following requirements:
* Automatically scales compute resources based on the workload demand
* Provides per second billing
What should you recommend? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area:

Answer Area



Section:
Explanation:

QUESTION 140
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 initiative to enforce the location of resource groups.
Does this meet the goal?

A. Yes
B. No

Correct Answer: B
Section:
Explanation:
This solution does not meet the goal because an Azure Policy initiative can only enforce the location of resources, not resource groups.Resource groups are not a resource type that can be targeted by Azure Policy1.To enforce the location of resource groups, you need to use Azure Resource Manager templates2or Azure PowerShell3to create them in the desired regions.
1:Understand scope in Azure Policy2: Create resource groups with Azure Resource Manager templates3: Create resource groups with Azure PowerShell

QUESTION 141
HOTSPOT
You are designing a data analytics solution that will use Azure Synapse and Azure Data Lake Storage Gen2. You need to recommend Azure Synapse pools to meet the following requirements:
* Ingest data from Data Lake Storage into hash-distributed tables.
* Implement, query, and update data in Delta Lake.
What should you recommend for each requirement? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Ingest data from Data Lake Storage into hash-distributed tables: A dedicated SQL pool

- A dedicated SQL pool
- A serverless Apache Spark pool
- A serverless SQL pool

Implement, query, and update data in Delta Lake: A serverless SQL pool

- A dedicated SQL pool
- A serverless Apache Spark pool
- A serverless SQL pool

Answer Area:

Answer Area

Ingest data from Data Lake Storage into hash-distributed tables: A dedicated SQL pool

- A dedicated SQL pool
- A serverless Apache Spark pool
- A serverless SQL pool

Implement, query, and update data in Delta Lake: A serverless SQL pool

- A dedicated SQL pool
- A serverless Apache Spark pool
- A serverless SQL pool

Section:
Explanation:

QUESTION 142
You have 100 devices that write performance data to Azure Blob Storage.
You plan to store and analyze the performance data in an Azure SQL database.
You need to recommend a solution to continually copy the performance data to the Azure SQL database.
What should you include in the recommendation?

A. Azure Database Migration Service
B. Azure Data Box
C. Data Migration Assistant (DMA)
D. Azure Data Factory

Correct Answer: D
Section:

QUESTION 143
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)

Correct Answer: D
Section:

QUESTION 144
You are designing a solution that calculates 3D geometry from height-map dat
a. You need to recommend a solution that meets the following requirements:
* Performs calculations in Azure.
* Ensures that each node can communicate data to every other node.
* Maximizes the number of nodes to calculate multiple scenes as fast as possible.
* Minimizes the amount of effort to implement the solution.
Which two actions should you include in the recommendation? Each correct answer presents part of the solution.
NOTE: Each correct selection is worth one point.

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

Correct Answer: D, E
Section:

QUESTION 145
What two parameters would you recommend set up to ensure that the new IPSCustomers database will scale to meet the workload demands?

A. Define the maximum of CPU cores
B. Define the maximum resource limit per group of databases
C. Define the maximum of Database Transaction Units
D. Define the maximum of the allocated storage
E. Define the maximum size for a database

Correct Answer: C, E
Section:

QUESTION 146
DRAG DROP
You have an on-premises datacenter named Site1. Site1 contains a VMware vSphere cluster named Cluster1 that hosts 100 virtual machines. Cluster1 is managed by using VMware vCenter.
You have an Azure subscription named Sub1.
You plan to migrate the virtual machines from Cluster1 to Sub1.
You need to identify which resources are required to run the virtual machines in Azure. The solution must minimize administrative effort.
What should you configure? To answer, drag the appropriate resources to the correct targets. Each resource may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.
NOTE: Each correct selection is worth one point.

Select and Place:

Correct Answer:

Section:
Explanation:

QUESTION 147
HOTSPOT
You have an Azure subscription that contains an Azure key vault named KV1 and a virtual machine named VM1. VM1 runs Windows Server 2022: Azure Edition.
You plan to deploy an ASP.NET Core-based application named App1 to VM1.
You need to configure App1 to use a system-assigned managed identity to retrieve secrets from KV1. The solution must minimize development effort.
What should you do? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Configure App1 to use OAuth 2.0: Client credentials grant flows

- Authorization code grant flows
- Client credentials grant flows
- Implicit grant flows

Configure App1 to use a REST API call to retrieve an authentication token from the: OAuth 2.0 access token endpoint of Azure AD

- Azure Instance Metadata Service (IMDS) endpoint
- OAuth 2.0 access token endpoint of Azure AD
- OAuth 2.0 access token endpoint of Microsoft Identity Platform

Answer Area:

Answer Area

Configure App1 to use OAuth 2.0: Client credentials grant flows

- Authorization code grant flows
- Client credentials grant flows
- Implicit grant flows

Configure App1 to use a REST API call to retrieve an authentication token from the: OAuth 2.0 access token endpoint of Azure AD

- Azure Instance Metadata Service (IMDS) endpoint
- OAuth 2.0 access token endpoint of Azure AD
- OAuth 2.0 access token endpoint of Microsoft Identity Platform

Section:
Explanation:

QUESTION 148
Your company has 50 business units across the globe. The business units operate from 08:00 AM to 06:00 PM from Monday to Friday in their local time zone. Transactions are only processed during business hours.
You have an Azure subscription.
You plan to deploy an app named App1 that will manage the transactions for the business units. App1 will use a separate Azure SQL database for each business unit.
You need to recommend an Azure SQL Database configuration for App1. The solution must meet the following requirements:
* Support Azure Hybrid Benefit licensing.
* Minimize costs.
What should you recommend?

A. a vCore purchasing model and multiple single database instances
B. a DTU purchasing model and multiple single database instances
C. a vCore purchasing model and multiple database instances in an elastic pool
D. a DTU purchasing model and multiple database instances in an elastic pool

Correct Answer: A
Section:

QUESTION 149

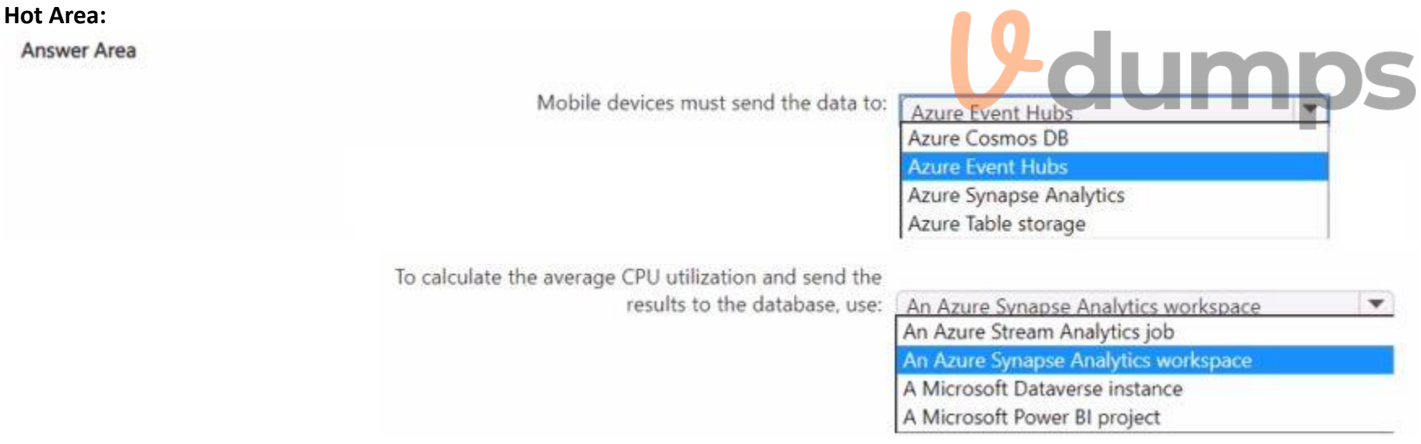
You are designing a point of sale (POS) solution that will be deployed across multiple locations and will use an Azure Databricks workspace in the Standard tier. The solution will include multiple apps deployed to the on-premises network of each location.
You need to configure the authentication method that will be used by the app to access the workspace. The solution must minimize the administrative effort associated with staff turnover and credential management.
What should you configure?

A. a managed identity
B. a service principal
C. a personal access token

Correct Answer: B
Section:

QUESTION 150
HOTSPOT
You have a mobile app that is deployed to 100,000 users. Each instance of the app collects usage data.
You have an Azure subscription.
You need to recommend a solution that meets the following requirements:
* Accepts the usage data from the app instances
* Calculates the average hourly CPU utilization of each app instance and writes the average to an Azure SQL database
* Minimizes costs and administrative effort
What should you include in the recommendation? To answer, select the appropriate options in the answer are a. NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area:

Answer Area

Mobile devices must send the data to: Azure Event Hubs
- Azure Cosmos DB
- Azure Event Hubs
- Azure Synapse Analytics
- Azure Table storage

To calculate the average CPU utilization and send the results to the database, use: An Azure Synapse Analytics workspace
- An Azure Stream Analytics job
- An Azure Synapse Analytics workspace
- A Microsoft Dataverse instance
- A Microsoft Power BI project

Section:
Explanation:

QUESTION 151
HOTSPOT
You have an Azure subscription that contains the resources shown in the following table.

Name	Type	Description
contoso.com	Azure Private DNS zone	*None*
VNet1	Virtual network	Linked to contoso.com Peered with VNet2
VNet2	Virtual network	Linked to contoso.com Peered with VNet1
VNet3	Virtual network	Linked to contoso.com Isolated from VNet1 and VNet2
Workspace1	Log Analytics workspace	Stores logs collected from the virtual machines on all the virtual networks

VNet1. VNet2. and VNet3 each has multiple virtual machines connected. The virtual machines use the Azure DNS service for name resolution.
You need to recommend an Azure Monitor log routing solution that meets the following requirements:
* Ensures that the logs collected from the virtual machines and sent to Workspace1 are routed over the Microsoft backbone network
* Minimizes administrative effort
What should you include in the recommendation? To answer, select the appropriate options in the answer are a. NOTE: Each correct selection is worth one point.

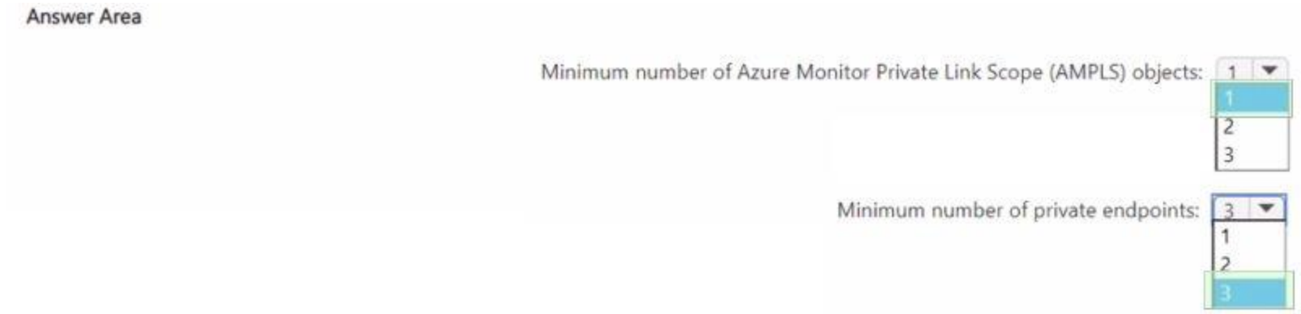
Hot Area:

Answer Area

Minimum number of Azure Monitor Private Link Scope (AMPLS) objects: 1
- 1
- 2
- 3

Minimum number of private endpoints: 3
- 1
- 2
- 3

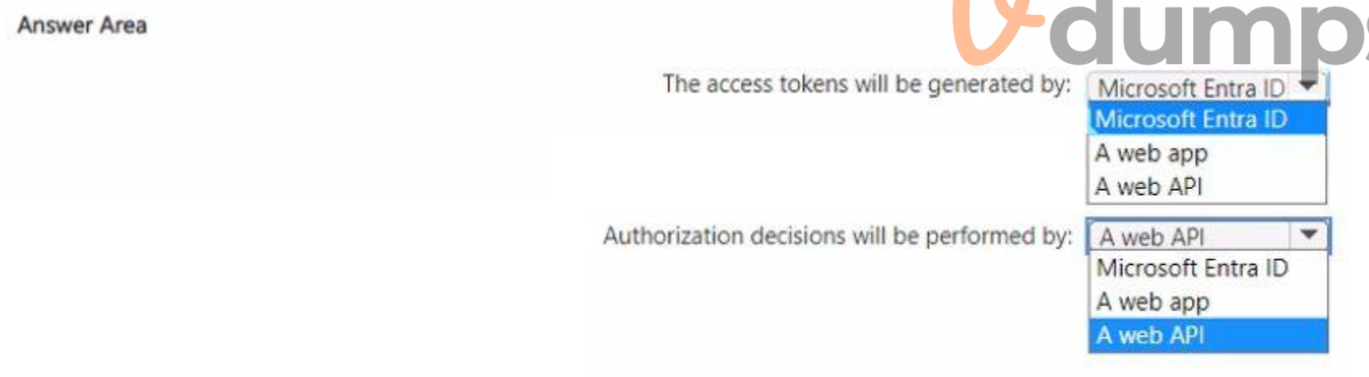
Answer Area:



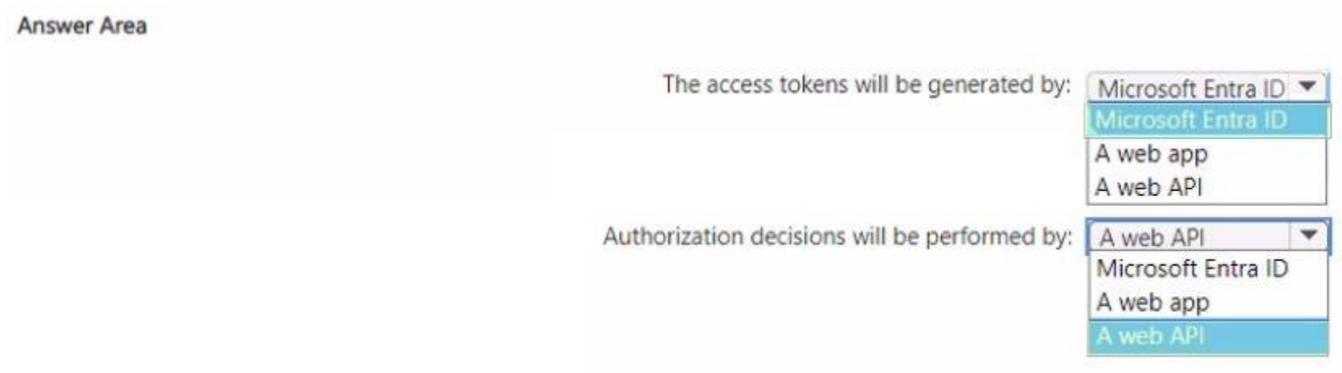
Section:
Explanation:

QUESTION 152
HOTSPOT
You are designing a software as a service (SaaS) application that will enable Microsoft Entra users to create and publish online surveys. The SaaS application will have a front-end web app and a back-end web API. The web app will rely on the web API to handle updates to customer surveys.
You need to design an authorization flow for the SaaS application. The solution must meet the following requirements:
* To access the back-end web API, the web app must authenticate by using OAuth 2 bearer tokens.
* The web app must authenticate by using the identities of individual users.
What should you include in the solution? To answer, select the appropriate options in the answer area.
NOTE: Each correct collection is worth one point.

Hot Area:



Answer Area:



Section:
Explanation: