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Exam Name: Designing Microsoft Azure Infrastructure Solutions



Topic Contoso

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

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

Authenticate App1 by using:

<input type="checkbox"/>	A certificate
<input type="checkbox"/>	A service principal
<input type="checkbox"/>	A system-assigned managed identity
<input type="checkbox"/>	A user-assigned managed identity

Authorize App1 to retrieve Key Vault secrets by using:

<input type="checkbox"/>	An access policy
<input type="checkbox"/>	A connected service
<input type="checkbox"/>	A private link
<input type="checkbox"/>	A role assignment

Answer Area:

Answer Area

Authenticate App1 by using:

<input type="checkbox"/>	A certificate
<input checked="" type="checkbox"/>	A service principal
<input type="checkbox"/>	A system-assigned managed identity
<input type="checkbox"/>	A user-assigned managed identity

Authorize App1 to retrieve Key Vault secrets by using:

<input type="checkbox"/>	An access policy
<input type="checkbox"/>	A connected service
<input type="checkbox"/>	A private link
<input checked="" type="checkbox"/>	A role assignment

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 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 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 3

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 4**

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

Azure Traffic Manager:

1
2
3
6

Azure Application Gateway:

1
2
3
6

Answer Area:

Answer Area

Azure Traffic Manager:

1
2
3
6

Azure Application Gateway:

1
2
3
6



Section:

Explanation:

QUESTION 5

You need to recommend an App Service architecture that meets the requirements for App1. The solution must minimize costs. What should you 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 6

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 7

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

Service:

<input type="checkbox"/>	Azure AD Identity Governance
<input type="checkbox"/>	Azure AD Identity Protection
<input type="checkbox"/>	Azure AD Privilege Access Management (PIM)
<input type="checkbox"/>	Azure Automation

Feature:

<input type="checkbox"/>	Access packages
<input type="checkbox"/>	Access reviews
<input type="checkbox"/>	Approvals
<input type="checkbox"/>	Runbooks

Answer Area:

Answer Area

Service:

Azure AD Identity Governance
Azure AD Identity Protection
Azure AD Privilege Access Management (PIM)
Azure Automation

Feature:

Access packages
Access reviews
Approvals
Runbooks

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 8

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:

Services	Answer Area
Azure Blob Storage	Azure subscription: Service
Azure Data Box	On-premises network: Service
Azure Data Box Gateway	
Azure Data Lake Storage	
Azure File Sync	
Azure Files	

Correct Answer:

Services	Answer Area
Azure Blob Storage	Azure subscription: Azure Files
Azure Data Box	On-premises network: Azure File Sync
Azure Data Box Gateway	
Azure Data Lake Storage	

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 9

What should you recommend to meet the monitoring requirements for App2?

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

Correct Answer: A

Section:

Topic Fabrikam

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.fabrikam.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.fabrikam.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 to 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 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 2

You need to recommend a strategy for the web tier of WebApp1. The solution must minimize What should you recommend?

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



Correct Answer: D

Section:

QUESTION 3

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-overview>In Azure SQL Database, you can configure a database with a long-term backup retention policy (LTR)to automatically retain the database backups in separate Azure Blob storage containers for up to 10years

QUESTION 4

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 5

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

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



Answer Area:

Answer Area

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

Section:

Explanation:

QUESTION 6

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:

Minimum number of Azure AD tenants:

▼
0
1
2
3
4

Minimum number of custom domains to add:

▼
0
1
2
3
4

Minimum number of conditional access policies to create:

▼
0
1
2
3
4

Answer Area:



Minimum number of Azure AD tenants:

0
1
2
3
4

Minimum number of custom domains to add:

0
1
2
3
4

Minimum number of conditional access policies to create:

0
1
2
3
4

Section:

Explanation:

- 1
- 1
- 0

QUESTION 7

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.	<input type="radio"/>	<input type="radio"/>
The design supports autoscaling.	<input type="radio"/>	<input type="radio"/>
The design requires a manual configuration if an Azure region fails.	<input type="radio"/>	<input type="radio"/>

Answer Area:

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

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 8

You need to recommend a data storage strategy for WebApp1.

What should you include 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 9

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>

Exam A

QUESTION 1

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 2

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 3

HOTSPOT

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

The screenshot shows the 'Add OAuth2 service' configuration page in API Management. The form includes the following fields and options:

- Display name:** Unique name used to reference this authorization server on...
- ID:** [Empty field]
- Description:** Authorization server description
- Client registration page URL:** <https://contoso.com/register>
- Authorization grant types:**
 - Authorization code
 - Implicit
 - Resource owner password
 - Client credentials
- Authorization endpoint URL:** <https://login.microsoftonline.com/contosoonmicrosoft.com...>
- Support state parameter:**
- Authorization request method:**
 - GET
 - POST
- Token endpoint URL:** Token endpoint is used by clients to obtain access tokens in...

A blue 'Create' button is located at the bottom of the form.

 **vdumps**

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:

The selected authorization grant type is for [answer choice].

Background services
Headless device authentication
Web applications

To enable custom data in the grant flow, select [answer choice].

Client credentials
Resource owner password
Support state parameter

Answer Area:

The selected authorization grant type is for [answer choice].

Background services
Headless device authentication
Web applications

To enable custom data in the grant flow, select [answer choice].

Client credentials
Resource owner password
Support state parameter

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 4

HOTSPOT

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

Prevent new data from being modified for one year.

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:

Azure Storage account kind:

StorageV2
BlobStorage
BlockBlobStorage

Replication:

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



Answer Area:

Azure Storage account kind:

StorageV2
BlobStorage
BlockBlobStorage

Replication:

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

Section:

Explanation:

Reference:

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

QUESTION 5

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:

To protect against brute force attacks:

- Azure AD Password Protection
- Conditional access policies
- Pass-through authentication
- Smart lockout

To block legacy authentication attempts:

- Azure AD Application Proxy
- Azure AD Password Protection
- Conditional access policies
- Enable Security defaults

Answer Area:

To protect against brute force attacks:

- Azure AD Password Protection
- Conditional access policies
- Pass-through authentication
- Smart lockout

To block legacy authentication attempts:

- Azure AD Application Proxy
- Azure AD Password Protection
- Conditional access policies
- Enable Security defaults

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 6

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 7

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 identify 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 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 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:

Network Addresses	Answer Area
172.16.0.0/16	Subnet1: Network address
172.16.1.0/28	Gateway subnet: Network address
192.168.0.0/24	
192.168.1.0/28	

Correct Answer:

Network Addresses	Answer Area
172.16.0.0/16	Subnet1: 192.168.0.0/24
172.16.1.0/28	Gateway subnet: 192.168.1.0/28

Section:

Explanation:

QUESTION 8

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 at 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 once. More than once not at an You may need to drag the spin bar between panes or scroll 10 view content.

Select and Place:

Actions	Answer Area
Azure Backup only	Sales: Service or Services
Azure Site Recovery only	Finance: Service or Services
Azure Site Recovery and Azure Backup	Reporting: Service or Services

Correct Answer:

Actions	Answer Area
	Sales: Azure Site Recovery only
	Finance: Azure Site Recovery and Azure Backup
	Reporting: Azure Backup only

Section:

Explanation:

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



QUESTION 9

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:

Scenario	Solution
Store content close to end users.	<ul style="list-style-type: none"> Azure Redis Cache Azure Traffic Manager Azure Content Delivery Network Azure Application Gateway
Store content close to the application.	<ul style="list-style-type: none"> Azure Redis Cache Azure Traffic Manager Azure Content Delivery Network Azure Application Gateway

Answer Area:

Scenario	Solution
Store content close to end users.	<ul style="list-style-type: none"> Azure Redis Cache Azure Traffic Manager Azure Content Delivery Network Azure Application Gateway
Store content close to the application.	<ul style="list-style-type: none"> Azure Redis Cache Azure Traffic Manager Azure Content Delivery Network Azure Application Gateway

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 10

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

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen. You plan to deploy multiple instances of an Azure web app across several Azure regions.

You need to design an access solution for the app. The solution must meet the following replication requirements:

Support rate limiting.

Balance requests between all instances.

Ensure that users can access the app in the event of a regional outage.

Solution: You use Azure Application Gateway to provide access to the app.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Section:

QUESTION 11

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

The front-end tier must be accessible by using a public IP address on port 80.

The backend tier must be accessible by using port 8080 from the front-end tier only.

Both containers must be able to access the same Azure file share.

If a container fails, the application must restart automatically.

Costs must be minimized.

What should you recommend using to host the application?

A. Azure Kubernetes Service (AKS)

B. Azure Service Fabric

C. Azure Container instances

D. Azure Container registries

Correct Answer: C

Section:

Explanation:

Azure Container Instances enables a layered approach to orchestration, providing all of the scheduling and management capabilities required to run a single container, while allowing orchestrator platforms to manage multi-container tasks on top of it.

Because the underlying infrastructure for container instances is managed by Azure, an orchestrator platform does not need to concern itself with finding an appropriate host machine on which to run a single container. Azure Container Instances can schedule both Windows and Linux containers with the same API.

Orchestration of container instances exclusively

Because they start quickly and bill by the second, an environment based exclusively on Azure Container Instances offers the fastest way to get started and to deal with highly variable workloads.

Reference:

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

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

QUESTION 12



You architect a solution that calculates 3D geometry from height-map data.

You have the following requirements:

Perform calculations in Azure.

Each node must communicate data to every other node.

Maximize the number of nodes to calculate multiple scenes as fast as possible.

Require the least amount of effort to implement.

You need to recommend a solution.

Which two actions should you recommend? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

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

Correct Answer: A, C

Section:

QUESTION 13

Your company plans to publish APIs for its services by using Azure API Management.

You discover that service responses include the AspNet-Version header.

You need to recommend a solution to remove AspNet-Version from the response of the published APIs.

What should you include in the recommendation?

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

Correct Answer: C

Section:

Explanation:

Reference:

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

QUESTION 14

You are designing an Azure solution.

The network traffic for the solution must be securely distributed by providing the following features:

HTTPS protocol

Round robin routing

SSL offloading

You need to recommend a load balancing option.

What should you recommend?

- A. Azure Load Balancer
- B. Azure Traffic Manager
- C. Azure Internal Load Balancer (ILB)



D. Azure Application Gateway

Correct Answer: D

Section:

Explanation:

If you are looking for Transport Layer Security (TLS) protocol termination ("SSL offload") or per- HTTP/HTTPS request, application-layer processing, review Application Gateway. Application Gateway is a layer 7 load balancer, which means it works only with web traffic (HTTP,

HTTPS, WebSocket, and HTTP/2). It supports capabilities such as SSL termination, cookie-based session affinity, and round robin for load-balancing traffic. Load Balancer load-balances traffic at layer 4 (TCP or UDP).

Reference:

<https://docs.microsoft.com/en-us/azure/application-gateway/application-gateway-faq>

QUESTION 15

The developers at your company are building a containerized Python Django app.

You need to recommend platform to host the app. The solution must meet the following requirements:

Support autoscaling.

Support continuous deployment from an Azure Container Registry.

Provide built-in functionality to authenticate app users by using Azure Active Directory (Azure AD). Which platform should you include in the recommendation?

- A. Azure Container instances
- B. an Azure App Service instance that uses containers
- C. Azure Kubernetes Service (AKS)

Correct Answer: C

Section:

Explanation:

To keep up with application demands in Azure Kubernetes Service (AKS), you may need to adjust the number of nodes that run your workloads. The cluster autoscaler component can watch for pods in your cluster that can't be scheduled because of resource constraints. When issues are detected, the number of nodes in a node pool is increased to meet the application demand. Azure Container Registry is a private registry for hosting container images. It integrates well with orchestrators like Azure Container Service, including Docker Swarm, DC/OS, and the new Azure Kubernetes service. Moreover, ACR provides capabilities such as Azure Active Directory-based authentication, webhook support, and delete operations.

Reference:

<https://docs.microsoft.com/en-us/azure/aks/cluster-autoscaler>

<https://medium.com/velotio-perspectives/continuous-deployment-with-azure-kubernetes-service-azure-container-registry-jenkins-ca337940151b>

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 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 17

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 18

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 19

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 20

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-instance> SQL Managed Instance allows existing SQL Server customers to lift and shift their on-premises applications to the cloud with minimal application and database changes. At the same time, SQL Managed 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-differences-sql-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 21

You have an Azure subscription that contains an Azure Blob storage account named store1.

You have an on-premises file server named Server1 that runs Windows Server 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 22

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-topicsubscriptions>

QUESTION 23

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 24

You are 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 25

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 data. 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 26

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 27

You have SQL Server on an Azure virtual machine. The databases are written to nightly as part of a batch process. You need to recommend a disaster recovery solution for the data. The solution must meet the following requirements:

Provide the ability to recover in the event of a regional outage.

Support a recovery time objective (RTO) of 15 minutes.

Support a recovery point objective (RPO) of 24 hours.

Support automated recovery.

Minimize costs.

What should you include in the recommendation?

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

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 28

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 29

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 30

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 31



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

QUESTION 32

You have an Azure subscription that contains a Basic Azure virtual WAN named VirtualWAN1 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-wan-about#basicstandard> The current config of virtual WAN is only Basic as given, so it can connect to only site to site VPN, to connect to express route it needs to be upgraded from basic to standard. <https://docs.microsoft.com/en-us/azure/virtual-wan/virtual-wan-about> <https://docs.microsoft.com/en-us/azure/virtual-wan/virtual-wan-about>

QUESTION 33

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 34

Your company has the infrastructure shown in the following table.

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

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

Server1 runs an application named Appl that uses LDAP queries to verify user identities in the on-premises Active Directory domain. You plan to migrate Server1 to a virtual machine in Subscription1.

A company security policy states that the virtual machines and services deployed to Subscription1 must be prevented from accessing the on-premises network. You need to recommend a solution to ensure that 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/overview> Azure Active Directory Domain Services (Azure AD DS) provides managed domain services such as domain join, group policy, lightweight directory access protocol (LDAP), and Kerberos/NTLM authentication. Azure AD Domain Services (Azure AD DS) - This one could work since AAD DS will bring in the existing accounts 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 35

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 36

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 37

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 38

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 39

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 40

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 41

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/en-us/azure/service-bus-messaging/service-bus-messaging-overview>

QUESTION 42

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 are ready 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-your-azure-migration>

QUESTION 43

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 44

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 45

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 46

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 47

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 48

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 49

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 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 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 51

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 52

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 53

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 54

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 55

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 56

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 57

You plan to deploy an application named App1 that will run on five Azure virtual machines.

Additional virtual machines will be deployed later to run App1.

You need to recommend a solution to meet the following requirements for the virtual machines that will run App1:

Ensure that the virtual machines can authenticate to Azure Active Directory (Azure AD) to gain access to an Azure key vault, Azure Logic Apps instances, and an Azure SQL database. Avoid assigning new roles and permissions for Azure services when you deploy additional virtual machines. Avoid storing secrets and certificates on the virtual machines.

Which type of identity should you include in the recommendation?

- A. a service principal that is configured to use a certificate
- B. a system-assigned managed identity
- C. a service principal that is configured to use a client secret
- D. a user-assigned managed identity

Correct Answer: D

Section:

Explanation:

Managed identities for Azure resources is a feature of Azure Active Directory.

User-assigned managed identity can be shared. The same user-assigned managed identity can be associated with more than one Azure resource. Incorrect Answers:

B: System-assigned managed identity cannot be shared. It can only be associated with a single Azure resource.

Reference:

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

QUESTION 58

You have an application that is used by 6,000 users to validate their vacation requests. The application manages its own credential Users must enter a username and password to access the application. The application does NOT support identity providers.

You plan to upgrade the application to use single sign-on (SSO) authentication by using an Azure Active Directory (Azure AD) application registration. Which SSO method should you use?

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

Correct Answer: A

Section:

QUESTION 59

You have data files in Azure Blob Storage.



You plan to transform the files and move them to Azure Data Lake Storage.
You need to transform the data by using mapping data flow.
Which service should you use?

- A. Azure Data Box Gateway
- B. Azure Databricks
- C. Azure Data Factory
- D. Azure Storage Sync

Correct Answer: C

Section:

Explanation:

You can use Copy Activity in Azure Data Factory to copy data from and to Azure Data Lake Storage Gen2, and use Data Flow to transform data in Azure Data Lake Storage Gen2.

Reference:

<https://docs.microsoft.com/en-us/azure/data-factory/connector-azure-data-lake-storage>

QUESTION 60

You plan to deploy an app that will use an Azure Storage account.
You need to deploy the storage account. The solution must meet the following requirements:

- Store the data of multiple users.
- Encrypt each user's data by using a separate key.
- Encrypt all the data in the storage account by using Microsoft keys or customer-managed keys.

What should you deploy?

- A. files in a general purpose v2 storage account.
- B. blobs in an Azure Data Lake Storage Gen2 account.
- C. files in a premium file share storage account.
- D. blobs in a general purpose v2 storage account

Correct Answer: B

Section:

QUESTION 61

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:



Services

- Azure Blob storage
- Azure Cosmos DB
- Azure SQL Database
- Azure Table storage

Answer Area

Image storage: Service

Customer accounts: Service

Correct Answer:

Services

-
- Azure Cosmos DB
-
- Azure Table storage

Answer Area

Image storage: Azure Blob storage

Customer accounts: Azure SQL Database

Section:

Explanation:

QUESTION 62

You have a multi-tier app named Appl and an Azure SQL database named SQL I. 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 63

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 64

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 65

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:

Answer Area



QUESTION 66

You plan to deploy an Azure SQL database that will store Personally Identifiable Information (PII). You need to ensure that only privileged users can view the PII. What should you include in the solution?

- A. Transparent Data Encryption (TDE)
- B. Data Discovery & Classification
- C. dynamic data masking
- D. role-based access control (RBAC)



Correct Answer: C

Section:

QUESTION 67

You have the resources shown in the following table.

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

CDB1 hosts a container that stores continuously updated operational data.

You are designing a solution that will use AS1 to analyze the operational data daily.

You need to recommend a solution to analyze the data without affecting the performance of the operational data store. What should you include in the recommendation?

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

Correct Answer: D

Section:

QUESTION 68

You store web access logs data in Azure Blob storage.

You plan to generate monthly reports from the access logs.

You need to recommend an automated process to upload the data to Azure SQL Database every month.

What should you include in the recommendation?

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

Correct Answer: A

Section:

Explanation:

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

Reference:

<https://docs.microsoft.com/en-gb/azure/data-factory/introduction>

QUESTION 69

HOTSPOT

You plan to deploy Azure Databricks to support a machine learning application. Data engineers will mount an Azure Data Lake Storage account to the Databricks file system. Permissions to folders are granted directly to the data engineers. You need to recommend a design for the planned Databrick deployment. The solution must meet the following requirements:

Ensure that the data engineers can only access folders to which they have permissions. Minimize development effort. Minimize costs.

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

Databricks SKU:

	▼
Premium	
Standard	

Cluster configuration:

	▼
Credential passthrough	
Managed identities	
MLflow	
A runtime that contains Photon	
Secret scope	

Answer Area:

Answer Area

Databricks SKU:

	▼
Premium	
Standard	

Cluster configuration:

	▼
Credential passthrough	
Managed identities	
MLflow	
A runtime that contains Photon	
Secret scope	

 **vdumps**

Section:

Explanation:

Box 1: Standard

Choose Standard to minimize costs.

Box 2: Credential passthrough

Authenticate automatically to Azure Data Lake Storage Gen1 (ADLS Gen1) and Azure Data Lake Storage Gen2 (ADLS Gen2) from Azure Databricks clusters using the same Azure Active Directory (Azure AD) identity that you use to log into Azure Databricks. When you enable Azure Data Lake Storage credential passthrough for your cluster, commands that you run on that cluster can read and write data in Azure Data Lake Storage without requiring you to configure service principal credentials for access to storage.

Reference: <https://docs.microsoft.com/en-us/azure/databricks/security/credential-passthrough/adls-passthrough>

QUESTION 70

HOTSPOT

You plan to deploy an Azure web app named App1 that will use Azure Active Directory (Azure AD) authentication. App1 will be accessed from the internet by the users at your company. All the users have computers that run Windows 10 and are joined to Azure AD. You need to recommend a solution to ensure that the users can connect to App1 without being prompted for authentication and can access App1 only from company-owned computers. What should you recommend for each requirement? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

The users can connect to App1 without being prompted for authentication:

<input type="checkbox"/>	An Azure AD app registration
<input type="checkbox"/>	An Azure AD managed identity
<input type="checkbox"/>	Azure AD Application Proxy

The users can access App1 only from company-owned computers:

<input type="checkbox"/>	A Conditional Access policy
<input type="checkbox"/>	An Azure AD administrative unit
<input type="checkbox"/>	Azure Application Gateway
<input type="checkbox"/>	Azure Blueprints
<input type="checkbox"/>	Azure Policy

Answer Area:

Answer Area

The users can connect to App1 without being prompted for authentication:

<input checked="" type="checkbox"/>	An Azure AD app registration
<input type="checkbox"/>	An Azure AD managed identity
<input type="checkbox"/>	Azure AD Application Proxy

The users can access App1 only from company-owned computers:

<input checked="" type="checkbox"/>	A Conditional Access policy
<input type="checkbox"/>	An Azure AD administrative unit
<input type="checkbox"/>	Azure Application Gateway
<input type="checkbox"/>	Azure Blueprints
<input type="checkbox"/>	Azure Policy

Section:

Explanation:

Box 1: An Azure AD app registration

Azure active directory (AD) provides cloud based directory and identity management services. You can use azure AD to manage users of your application and authenticate access to your applications using azure active directory. You register your application with Azure active directory tenant.

Box 2: A conditional access policy

Conditional Access policies at their simplest are if-then statements, if a user wants to access a resource, then they must complete an action. By using Conditional Access policies, you can apply the right access controls when needed to keep your organization secure and stay out of your user's way when not needed.

Reference:

<https://codingcanvas.com/using-azure-active-directory-authentication-in-your-web-application/> <https://docs.microsoft.com/enus/azure/active-directory/conditional-access/overview>

QUESTION 71

DRAG DROP

You have an Azure subscription. The subscription contains Azure virtual machines that run Windows Server 2016 and Linux. You need to use Azure Monitor to design an alerting strategy for security-related events.

Which Azure Monitor Logs tables should you query? To answer, drag the appropriate tables to the correct log types. Each table 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:

The screenshot shows a drag-and-drop interface for selecting Azure Monitor Logs tables. On the left, under the heading "Tables", there are four boxes: "AzureActivity", "AzureDiagnostics", "Event", and "Syslog". On the right, under the heading "Answer Area", there are two boxes: "Events from Windows event logs:" and "Events from Linux system logging:". Each box contains a "Table" placeholder. A watermark "VCEplus.com" is visible across the interface.

Correct Answer:

Tables	Answer Area
AzureActivity	Events from Windows event logs: Event
AzureDiagnostics	Events from Linux system logging: Syslog

Section:

Explanation:

Reference:

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/data-sources-windows-events> <https://docs.microsoft.com/en-us/azure/azure-monitor/agents/data-sources-syslog>

QUESTION 72

DRAG DROP

Your on-premises network contains a server named Server1 that runs an ASP.NET application named App1. You have a hybrid deployment of Azure Active Directory (Azure AD).

You need to recommend a solution to ensure that users sign in by using their Azure AD account and Azure Multi-Factor Authentication (MFA) when they connect to App1 from the internet. Which three features should you recommend be deployed and configured in sequence? To answer, move the appropriate features from the list of features to the answer area and arrange them in the correct order.

Select and Place:

Services	Answer Area
an internal Azure Load Balancer	
an Azure AD conditional access policy	
Azure AD Application Proxy	
an Azure AD managed identity	
a public Azure Load Balancer	
an Azure AD enterprise application	
an App Service plan	

Correct Answer:

Services

an internal Azure Load Balancer

an Azure AD managed identity

a public Azure Load Balancer

an App Service plan

Answer Area

Azure AD Application Proxy

an Azure AD enterprise application

an Azure AD conditional access policy

Section:

Explanation:

QUESTION 73

HOTSPOT

You need to design a storage solution for an app that will store large amounts of frequently used data. The solution must meet the following requirements:

Maximize data throughput.

Prevent the modification of data for one year.

Minimize latency for read and write operations.

Which Azure Storage account type and storage service should you recommend? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Storage account type:

	▼
BlobStorage	
BlockBlobStorage	
FileStorage	
StorageV2 with Premium performance	
StorageV2 with Standard performance	

Storage service:

	▼
Blob	
File	
Table	

Answer Area:

Answer Area

Storage account type:

	▼
BlobStorage	
BlockBlobStorage	
FileStorage	
StorageV2 with Premium performance	
StorageV2 with Standard performance	

Storage service:

	▼
Blob	
File	
Table	

Section:

Explanation:

Box 1: BlockBlobStorage

Block Blob is a premium storage account type 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. Box 2: Blob

The Archive tier is an offline tier for storing blob data that is rarely accessed. The Archive tier offers the lowest storage costs, but higher data retrieval costs and latency compared to the online tiers (Hot and Cool). Data must remain in the Archive tier for at least 180 days or be subject to an early deletion charge.

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

QUESTION 74

HOTSPOT

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

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

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

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

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

Hot Area:

Answer Area

App1:

▼
Storage1 and storage2 only
Storage1 and storage3 only
Storage1, storage2, and storage3 only
Storage1, storage2, storage3, and storage4

App2:

▼
Storage4 only
Storage1 and storage4 only
Storage1, storage2, and storage4 only
Storage1, storage2, storage3, and storage4



Answer Area:

Answer Area

App1:

Storage1 and storage2 only
Storage1 and storage3 only
Storage1, storage2, and storage3 only
Storage1, storage2, storage3, and storage4

App2:

Storage4 only
Storage1 and storage4 only
Storage1, storage2, and storage4 only
Storage1, storage2, storage3, and storage4

Section:

Explanation:

Box 1: Storage1 and storage3 only

Azure Blob Storage lifecycle management offers a rich, rule-based policy for GPv2 and blob storage accounts. Storage 2 does not support access tiers. Box 2: Storage1 and storage4 only
FileStorage storage accounts allow you to deploy Azure file shares on premium/solid-state disk-based (SSD-based) hardware.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-lifecycle-management-concepts> <https://docs.microsoft.com/jajp/azure/storage/common/storage-account-overview>

QUESTION 75

HOTSPOT

You plan to deploy a custom database solution that will have multiple instances as shown in the following table.

Host virtual machine	Azure Availability Zone	Azure region
USDB1	1	US East
USDB2	2	US East
USDB3	3	US East
EADB1	1	West Europe
EADB2	2	West Europe
EADB3	3	West Europe

Client applications will access database servers by using db.contoso.com.

You need to recommend load balancing services for the planned deployment. The solution must meet the following requirements:

Access to at least one database server must be maintained in the event of a regional outage.

The virtual machines must not connect to the internet directly.

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

Hot Area:

Global load balancing service:

- Azure Application Gateway
- Azure Front Door
- Azure Load Balancer
- Azure Traffic Manager

Availability Zone load balancing service:

- Azure Application Gateway
- Azure Front Door
- Azure Load Balancer
- Azure Traffic Manager

Answer Area:

Global load balancing service:

- Azure Application Gateway
- Azure Front Door
- Azure Load Balancer
- Azure Traffic Manager

Availability Zone load balancing service:

- Azure Application Gateway
- Azure Front Door
- Azure Load Balancer
- Azure Traffic Manager

Section:

Explanation:

Box 1: Azure Traffic Manager

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

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

Reference:

QUESTION 76

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:

Permission to assign so that App1 can copy the secrets to KV2:



Answer 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

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 77

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:

Send Azure AD logs to:

- An Azure event hub
- An Azure Log Analytics workspace
- An Azure Storage account

Signal type to use for triggering the alerts:

- Activity log
- Log
- Metric

Answer Area:

Send Azure AD logs to:

- An Azure event hub
- An Azure Log Analytics workspace
- An Azure Storage account

Signal type to use for triggering the alerts:

- Activity log
- Log
- Metric

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 78

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:



Account type:

▼
Blob storage
Storage (general purpose v1)
StorageV2 (general purpose v2)

Replication solution:

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

Answer Area:

Account type:

▼
Blob storage
Storage (general purpose v1)
StorageV2 (general purpose v2)

Replication solution:

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

Section:

Explanation:

Account Type: StorageV2

Replication solution: Zone-redundant storage (ZRS)

QUESTION 79

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 data. 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:

Policies

- None
- ReadOnly
- ReadWrite

Answer Area

Log: Policy

Data: Policy

Correct Answer:

Policies

-
-
- ReadWrite

Answer Area

Log: None

Data: ReadOnly

Section:

Explanation:

Reference:

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/sql/virtual-machines-windows-sql-performance>



QUESTION 80

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:

Storage Types	Answer Area
A geo-redundant storage (GRS) account	Operating system:
A locally-redundant storage (LRS) account	Databases and logs:
A premium managed disk	Backups:
A standard managed disk	

Correct Answer:

Storage Types	Answer Area
A geo-redundant storage (GRS) account	Operating system: A premium managed disk
A locally-redundant storage (LRS) account	Databases and logs: A premium managed disk
A premium managed disk	Backups: A locally-redundant storage (LRS) account
A standard managed disk	

Section:

Explanation:

QUESTION 81

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:

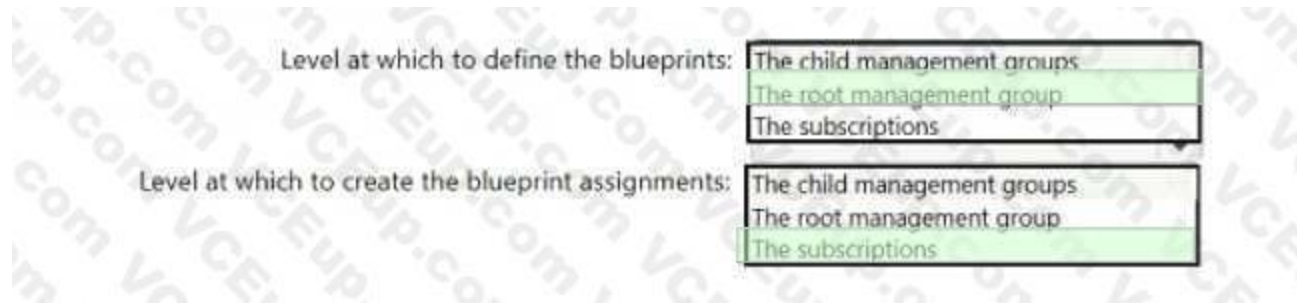
- Use Azure Blueprints to control governance across all the subscriptions and resource groups.
- Ensure that Blueprints-based configurations are consistent across all the subscriptions and resource groups.
- Minimize the number of blueprint definitions and assignments.

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

Hot Area:

Level at which to define the blueprints:	<input type="checkbox"/> The child management groups <input type="checkbox"/> The root management group <input type="checkbox"/> The subscriptions
Level at which to create the blueprint assignments:	<input type="checkbox"/> The child management groups <input type="checkbox"/> The root management group <input type="checkbox"/> The subscriptions

Answer Area:



Section:

Explanation:

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

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

QUESTION 82

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:

To provision the Azure AD identity:

- Create a system-assigned Managed Service Identity
- Create a user-assigned Managed Service Identity
- Register each application in Azure AD

To authenticate request a token by using:

- An Azure AD v1.0 endpoint
- An Azure AD v2.0 endpoint
- An Azure Instance Metadata Service Identity
- OAuth2 endpoint

Answer Area:

To provision the Azure AD identity:

- Create a system-assigned Managed Service Identity
- Create a user-assigned Managed Service Identity
- Register each application in Azure AD

To authenticate request a token by using:

- An Azure AD v1.0 endpoint
- An Azure AD v2.0 endpoint
- An Azure Instance Metadata Service Identity
- OAuth2 endpoint

Section:

Explanation:

QUESTION 83

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:

Virtual machine size:

Compute optimized Standard_F8s
General purpose Standard_B8ms
High performance compute Standard_H16r
Memory optimized Standard_E16s_v3

Feature:

Receive side scaling (RSS)
Remote Direct Memory Access (RDMA)
Single root I/O virtualization (SR-IOV)
Virtual Machine Multi-Queue (VMMQ)

Answer Area:

Virtual machine size:

Compute optimized Standard_F8s
General purpose Standard_B8ms
High performance compute Standard_H16r
Memory optimized Standard_E16s_v3

Feature:

Receive side scaling (RSS)
Remote Direct Memory Access (RDMA)
Single root I/O virtualization (SR-IOV)
Virtual Machine Multi-Queue (VMMQ)

Section:

Explanation:

Reference:

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

QUESTION 84

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 85

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 86

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 87

You are 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 to 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 88

You have an on-premises network to which you deploy a virtual appliance.

You plan to deploy several Azure virtual machines and connect the on-premises network to Azure by using a Site-to-Site connection.

All network traffic that will be directed from the Azure virtual machines to a specific subnet must flow through the virtual appliance.

You need to recommend solutions to manage network traffic.

Which two options should you recommend? Each correct answer presents a complete solution.

- A. Configure Azure Traffic Manager.
- B. Implement an Azure virtual network.
- C. Implement Azure ExpressRoute.
- D. Configure a routing table.

Correct Answer: C, D

Section:

Explanation:

Connectivity can be from an any-to-any (IP VPN) network, a point-to-point Ethernet network, or a virtual cross-connection through a connectivity provider at a co-location facility. ExpressRoute connections do not go over the public Internet. This allows ExpressRoute connections to offer more reliability, faster speeds, lower latencies, and higher security than typical connections over the Internet.

Reference:

<https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-forced-tunneling-rm>

<https://docs.microsoft.com/en-us/azure/expressroute/expressroute-introduction>

QUESTION 89

You are designing a message application that will run on an on-premises Ubuntu virtual machine.

The application will use Azure Storage queues.

You need to recommend a processing solution for the application to interact with the storage queues. The solution must meet the following requirements:

Create and delete queues daily.

Be scheduled by using a CRON job.

Upload messages every five minutes.

What should developers use to interact with the queues?

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

Correct Answer: D

Section:

Explanation:

Reference:

<https://docs.microsoft.com/en-us/azure/storage/queues/storage-tutorial-queues>

QUESTION 90

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 Business Critical
- B. Azure SQL Database Managed Instance Business Critical
- C. Azure SQL Database Serverless
- D. Azure SQL Database Premium

Correct Answer: D

Section:

Explanation:



QUESTION 91

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

- A. Cool
- B. Archive
- C. Hot

Correct Answer: A

Section:

Explanation:

Azure cool tier is equivalent to the Amazon S3 Infrequent Access (S3-IA) storage in AWS that provides a low cost high performance storage for infrequently access data. Note: Azure's cool storage tier, also known as Azure cool Blob storage, is for infrequently-accessed data that needs to be stored for a minimum of 30 days. Typical use cases include backing up data before tiering to archival systems, legal data, media files, system audit information, datasets used for big data analysis and more.

The storage cost for this Azure cold storage tier is lower than that of hot storage tier. Since it is expected that the data stored in this tier will be accessed less frequently, the data access charges are high when compared to hot tier. There are no additional changes required in your applications as these tiers can be accessed using APIs in the same manner that you access Azure storage.

Reference:

<https://cloud.netapp.com/blog/low-cost-storage-options-on-azure>

QUESTION 92

You use Azure virtual machines to run a custom application that uses an Azure SQL database on the back end. The IT apartment at your company recently enabled forced tunneling, Since the configuration change, developers have noticed degraded performance when they access the database You need to recommend a solution to minimize latency when accessing the database. The solution must minimize costs What should you include in the recommendation?

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

Correct Answer: D

Section:

Explanation:

<https://docs.microsoft.com/en-us/azure/virtual-network/virtual-network-service-endpointsoverview>

QUESTION 93

Your network contains an on-premises Active Directory forest.

You discover that when users change jobs within your company, the membership of the user groups are not being updated. As a result, the users can access resources that are no longer relevant to their job. You plan to integrate Active Directory and Azure Active Directory (Azure AD) by using Azure AD Connect. You need to recommend a solution to ensure that group owners are emailed monthly about the group memberships they manage. What should you include in the recommendation?

- A. conditional access policies
- B. Tenant Restrictions
- C. Azure AD access reviews
- D. Azure AD Identity Protection

Correct Answer: C

Section:

Explanation:

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/governance/access-reviews-overview>

QUESTION 94

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 95

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 96

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 97

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 98

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 99

DRAG DROP

You have two app registrations named App1 and App2 in Azure AD. App1 supports role-based access control (RBAC) and includes a role named Writer.

You need to ensure that when App2 authenticates to access App1, the tokens issued by Azure AD include the Writer role claim.

Which blade should you use to modify each app registration? To answer, drag the appropriate blades to the correct app registrations. Each blade may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

The screenshot shows a 'Blades' pane on the left with three buttons: 'API permissions', 'App roles', and 'Token configuration'. To the right is an 'Answer Area' with two input fields. The top field is labeled 'App1:' and the bottom field is labeled 'App2:'.

Correct Answer:

The screenshot shows the 'Blades' pane with two empty input fields and one 'Token configuration' button. The 'Answer Area' has 'App1:' with 'App roles' and 'App2:' with 'API permissions'.

Section:

Explanation:

QUESTION 100

HOTSPOT

You have an Azure subscription.

You plan to deploy five storage accounts that will store block blobs and five storage accounts that will host file shares. The file shares will be accessed by using the SMB protocol.

You need to recommend an access authorization solution for the storage accounts. The solution must meet the following requirements:

- * Maximize security.
- * Prevent the use of shared keys.
- * Whenever possible, support time-limited access.

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

For the blobs:

- A user delegation shared access signature (SAS) only
- A user delegation shared access signature (SAS) only**
- A shared access signature (SAS) and a stored access policy
- A user delegation shared access signature (SAS) and a stored access policy

For the file shares:

- Azure AD credentials
- Azure AD credentials**
- A user delegation shared access signature (SAS) only
- A user delegation shared access signature (SAS) and a stored access policy



Answer Area:

Answer Area

For the blobs:

- A user delegation shared access signature (SAS) only
- A user delegation shared access signature (SAS) only**
- A shared access signature (SAS) and a stored access policy
- A user delegation shared access signature (SAS) and a stored access policy

For the file shares:

- Azure AD credentials
- Azure AD credentials**
- A user delegation shared access signature (SAS) only
- A user delegation shared access signature (SAS) and a stored access policy

Section:

Explanation:

QUESTION 101

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 102

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 103

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 104

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 105

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 106

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 107

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 108

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

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

Correct Answer: C

Section:

QUESTION 109

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 110

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 111

You have an on-premises Microsoft SQL server named SQL1 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-server-to-managed-instance-overview?view=azuresql#compare-migration-options>

QUESTION 112

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 need 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 identify? To answer. select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Storage type:
Azure Data Lake Storage Gen2
Premium block blobs
Premium file shares

Data format:
Apache Parquet
Avro
JSON

Answer Area:

Storage type:
Azure Data Lake Storage Gen2
Premium block blobs
Premium file shares

Data format:
Apache Parquet
Avro
JSON



Section:

Explanation:

QUESTION 113

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 114

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 115

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 116

HOTSPOT

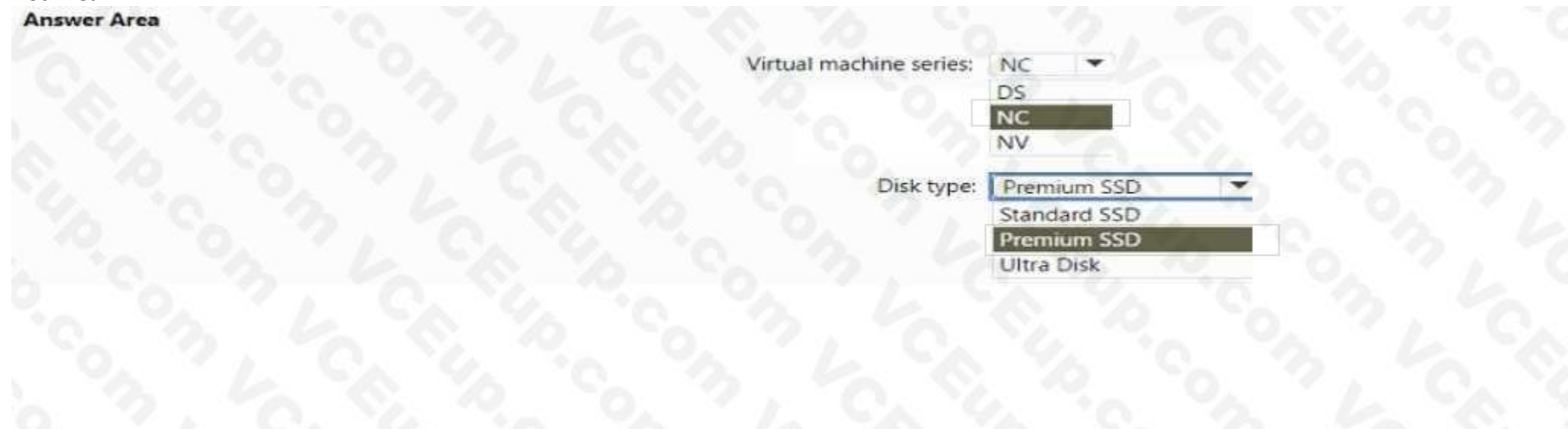
You need to deploy an instance of SQL Server on Azure Virtual Machines. The solution must meet the following requirements:

- 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 area. NOTE: Each correct selection is worth one point.

Hot Area:

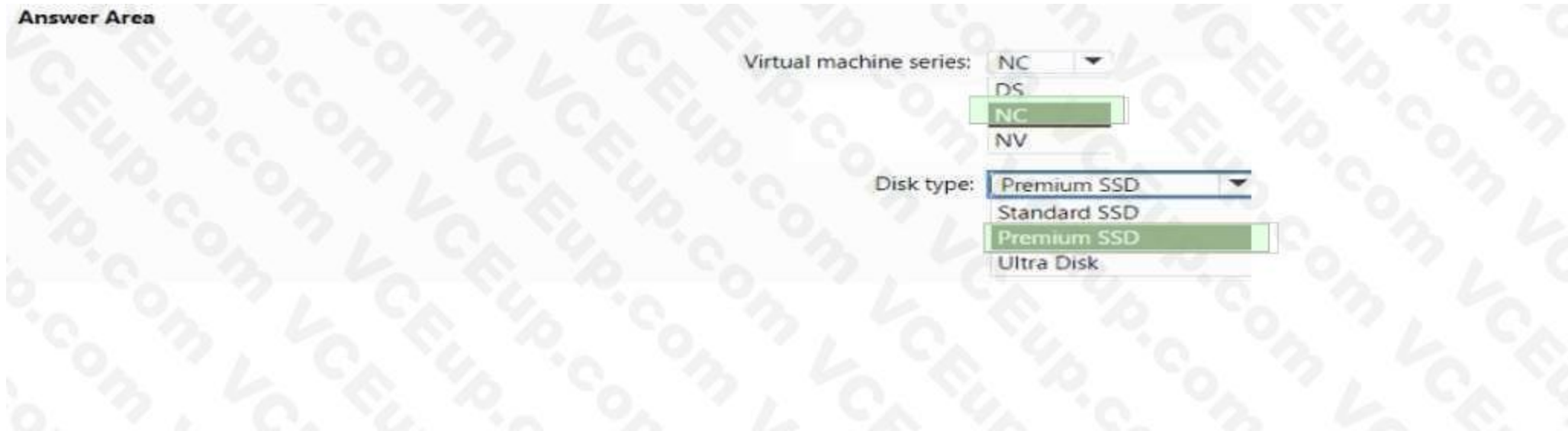
Answer Area



Virtual machine series: NC

Disk type: Premium SSD

Answer Area:



Section:

Explanation:

QUESTION 117

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 118

You plan to deploy multiple instances of an Azure web app across several Azure regions.

You need to design an access solution for the app. The solution must meet the following replication requirements:

- Support rate limiting.
- Balance requests between all instances.
- Ensure that users can access the app in the event of a regional outage.

Solution: You use Azure Front Door to provide access to the app.

Does this meet the goal?

- A. Yes
- B. No

Correct Answer: A

Section:

QUESTION 119

Your company has the divisions shown in the following table.

Division	Azure subscription	Azure AD tenant
East	Sub1	Contoso.com
West	Sub2	Fabrikam.com

Sub1 contains an Azure App Service web app named App1. App1 uses Azure AD for single-tenant user authentication. Users from contoso.com can authenticate to App1. You need to recommend a solution to enable users in the fabrikam.com tenant to authenticate to App1. What should you recommend?

- A. Configure Azure AD join.
- B. Configure Supported account types in the application registration and update the sign-in endpoint.
- C. Configure assignments for the fabrikam.com users by using Azure AD Privileged IdentityManagement (PIM).
- D. Enable Azure AD pass-through authentication and update the sign-in endpoint

Correct Answer: C

Section:

QUESTION 120

You are developing an app that will use Azure Functions to process Azure Event Hubs events. Request processing is estimated to take between five and 20 minutes. You need to recommend a hosting solution that meets the following requirements:

- Supports estimates of request processing runtimes
- Supports event-driven autoscaling for the app

Which hosting plan should you recommend?

- A. Consumption
- B. App Service
- C. Dedicated
- D. Premium

Correct Answer: D

Section:

QUESTION 121

HOTSPOT

You are designing a data storage solution to support reporting.

The solution will ingest high volumes of data in the JSON format by using Azure Event Hubs. As the data arrives, Event Hubs will write the data to storage. The solution must meet the following requirements:

- Organize data in directories by date and time.
- Allow stored data to be queried directly, transformed into summarized tables, and then stored in a data warehouse.
- Ensure that the data warehouse can store 50 TB of relational data and support between 200 and 300 concurrent read operations. Which service should you recommend for each type of data store? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

Data store for the ingested data:

- Azure Data Lake Storage Gen2
- Azure Blob Storage
- Azure Data Lake Storage Gen2
- Azure Files
- Azure NetApp Files

Data store for the data warehouse:

- Azure SQL Database Hyperscale
- Azure Cosmos DB for Apache Cassandra
- Azure Cosmos DB for NoSQL
- Azure SQL Database Hyperscale
- Azure Synapse Analytics dedicated SQL pools

Answer Area:

Answer Area

Data store for the ingested data:

- Azure Data Lake Storage Gen2
- Azure Blob Storage
- Azure Data Lake Storage Gen2
- Azure Files
- Azure NetApp Files

Data store for the data warehouse:

- Azure SQL Database Hyperscale
- Azure Cosmos DB for Apache Cassandra
- Azure Cosmos DB for NoSQL
- Azure SQL Database Hyperscale
- Azure Synapse Analytics dedicated SQL pools

Section:

Explanation:

QUESTION 122

You have an on-premises application named App1 that uses an Oracle database.

You plan to use Azure Databricks to transform and load data from App1 to an Azure Synapse Analytics instance. You need to ensure that the App1 data is available to Databricks.

Which two Azure services should you include in the solution? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Azure Data Box Edge
- B. Azure Data Lake Storage
- C. Azure Data Factory
- D. Azure Data Box Gateway
- E. Azure Import/Export service

Correct Answer: C, E

Section:

QUESTION 123

HOTSPOT

You are designing a cost-optimized solution that uses Azure Batch to run two types of jobs on Linux nodes. The first job type will consist of short-running tasks for a development environment. The second job type will consist of long-running Message Passing Interface (MPI) applications for a production environment that requires timely job completion. You need to recommend the pool type and node type for each job type. The solution must minimize compute charges and leverage Azure Hybrid Benefit whenever possible. What should you recommend? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

First job: User subscription and low-priority virtual machines
 Batch service and dedicated virtual machines
 User subscription and dedicated virtual machines
 User subscription and low-priority virtual machines

Second job: Batch service and dedicated virtual machines
 Batch service and dedicated virtual machines
 User subscription and dedicated virtual machines
 User subscription and low-priority virtual machines



Answer Area:

Answer Area

First job: User subscription and low-priority virtual machines
 Batch service and dedicated virtual machines
 User subscription and dedicated virtual machines
 User subscription and low-priority virtual machines

Second job: Batch service and dedicated virtual machines
 Batch service and dedicated virtual machines
 User subscription and dedicated virtual machines
 User subscription and low-priority virtual machines

Section:

Explanation:

QUESTION 124

HOTSPOT

Your company has 20 web APIs that were developed in-house.

The company is developing 10 web apps that will use the web APIs. The web apps and the APIs are registered in the company's Azure AD tenant. The web APIs are published by using Azure API Management. You need to recommend a solution to block unauthorized requests originating from the web apps from reaching the web APIs. The solution must meet the following requirements:

- Use Azure AD-generated claims.
- Minimize configuration and management effort

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

Hot Area:

Answer Area

Grant permissions to allow the web apps to access the web APIs by using:

- Azure AD
- Azure AD
- Azure API Management
- The web APIs

Configure a JSON Web Token (JWT) validation policy by using:

- Azure API Management
- Azure AD
- Azure API Management
- The web APIs

Answer Area:

Answer Area

Grant permissions to allow the web apps to access the web APIs by using:

- Azure AD
- Azure AD
- Azure API Management
- The web APIs

Configure a JSON Web Token (JWT) validation policy by using:

- Azure API Management
- Azure AD
- Azure API Management
- The web APIs

Section:

Explanation:

QUESTION 125

You have an Azure AD tenant.

You plan to deploy Azure Cosmos DB databases that will use the SQL API.

You need to recommend a solution to provide specific Azure AD user accounts with read access to the Cosmos DB databases. What should you include in the recommendation?

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

Correct Answer: A

Section:

QUESTION 126

HOTSPOT

You have several Azure App Service web apps that use Azure Key Vault to store data encryption keys. Several departments have the following requests to support the web app:

Department	Request
Security	<ul style="list-style-type: none"> • Review the membership of administrative roles and require users to provide a justification for continued membership. • Get alerts about changes in administrator assignments. • See a history of administrator activation, including which changes administrators made to Azure resources.
Development	<ul style="list-style-type: none"> • Enable the applications to access Key Vault and retrieve keys for use in code.

Which service should you recommend for each department's request? To answer, configure the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Security:	<input type="text" value="Azure AD Privileged Identity Management"/>
	<ul style="list-style-type: none">Azure AD Privileged Identity ManagementAzure Managed IdentityAzure AD ConnectAzure AD Identity Protection
Development:	<input type="text" value="Azure Managed Identity"/>
	<ul style="list-style-type: none">Azure AD Privileged Identity ManagementAzure Managed IdentityAzure AD ConnectAzure AD Identity Protection
Quality Assurance:	<input type="text" value="Azure AD Privileged Identity Management"/>
	<ul style="list-style-type: none">Azure AD Privileged Identity ManagementAzure Managed IdentityAzure AD ConnectAzure AD Identity Protection

Answer Area:

Answer Area

Security:	<input type="text" value="Azure AD Privileged Identity Management"/>
	<ul style="list-style-type: none">Azure AD Privileged Identity ManagementAzure Managed IdentityAzure AD ConnectAzure AD Identity Protection
Development:	<input type="text" value="Azure Managed Identity"/>
	<ul style="list-style-type: none">Azure AD Privileged Identity ManagementAzure Managed IdentityAzure AD ConnectAzure AD Identity Protection
Quality Assurance:	<input type="text" value="Azure AD Privileged Identity Management"/>
	<ul style="list-style-type: none">Azure AD Privileged Identity ManagementAzure Managed IdentityAzure AD ConnectAzure AD Identity Protection

Section:

Explanation:

QUESTION 127

You have an Azure Functions microservice app named App1 that is hosted in the Consumption plan.

App1 uses an Azure Queue Storage trigger.

You plan to migrate App1 to an Azure Kubernetes Service (AKS) cluster.

You need to prepare the AKS cluster to support App1. The solution must meet the following requirements:

- Use the same scaling mechanism as the current deployment.
- Support kubernetes and Azure Container Networking Interface (CNI) networking.

Which two actions should you perform? Each correct answer presents part of the solution. NOTE:
Each correct answer is worth one point.

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

Correct Answer: A, D

Section:

QUESTION 128

You plan to migrate on-premises MySQL databases to Azure Database for MySQL Flexible Server.
You need to recommend a solution for the Azure Database for MySQL Flexible Server configuration.

The solution must meet the following requirements:

- The databases must be accessible if a datacenter fails.
- Costs must be minimized.

Which compute tier should you recommend?

- A. Burstable
- B. General Purpose
- C. Memory Optimized
- D. Other option

Correct Answer: C

Section:

QUESTION 129

You have an app named App1 that uses an on-premises Microsoft SQL Server database named DB1.

You plan to migrate DB1 to an Azure SQL managed instance.

You need to enable customer-managed Transparent Data Encryption (TDE) for the instance. The solution must maximize encryption strength.

Which type of encryption algorithm and key length should you use for the TDE protector?

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

Correct Answer: D

Section:

QUESTION 130

HOTSPOT

You have an Azure subscription named Sub1 that is linked to an Azure AD tenant named contoso.com.

You plan to implement two ASP.NET Core apps named App1 and App2 that will be deployed to 100 virtual machines in Sub1. Users will sign in to App1 and App2 by using their contoso.com credentials. App1 requires read



permissions to access the calendar of the signed-in user. App2 requires write permissions to access the calendar of the signed-in user. You need to recommend an authentication and authorization solution for the apps. The solution must meet the following requirements:

- Use the principle of least privilege.
- Minimize administrative effort

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

Hot Area:

Answer Area

Authentication: Application registration in Azure AD

- Application registration in Azure AD
- A system-assigned managed identity
- A user-assigned managed identity

Authorization: Azure role-based access control (Azure RBAC)

- Application permissions
- Azure role-based access control (Azure RBAC)
- Delegated permissions

Answer Area:

Answer Area

Authentication: Application registration in Azure AD

- Application registration in Azure AD
- A system-assigned managed identity
- A user-assigned managed identity

Authorization: Azure role-based access control (Azure RBAC)

- Application permissions
- Azure role-based access control (Azure RBAC)
- Delegated permissions

Vdumps

Section:

Explanation:

QUESTION 131

You are designing an app that will use Azure Cosmos DB to collate sales data from multiple countries. You need to recommend an API for the app. The solution must meet the following requirements:

- Support SQL queries.
- Support geo-replication.
- Store and access data relationally.

Which API should you recommend?

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

Correct Answer: A

Section:

QUESTION 132

HOTSPOT

You have an Azure AD tenant that contains a management group named MG1. You have the Azure subscriptions shown in the following table.

Name	Management group
Sub1	MG1
Sub2	MG1
Sub3	Tenant Root Group

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

Name	Subscription
RG1	Sub1
RG2	Sub2
RG3	Sub3

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

Name	Member of
Group1	Group3
Group2	Group3
Group3	None

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

Name	Member of
User1	Group1
User2	Group2
User3	Group1, Group2

You perform the following actions:

- Assign User3 the Contributor role for Sub1.
- Assign Group1 the Virtual Machine Contributor role for MG1.
- Assign Group3 the Contributor role for the Tenant Root Group.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
User1 can create a new virtual machine in RG1.	<input type="radio"/>	<input type="radio"/>
User2 can grant permissions to Group2.	<input type="radio"/>	<input type="radio"/>
User3 can create a storage account in RG2.	<input type="radio"/>	<input type="radio"/>

Answer Area:



Answer Area

Statements

User1 can create a new virtual machine in RG1.

Yes

No

User2 can grant permissions to Group2.

User3 can create a storage account in RG2.

Section:

Explanation:

QUESTION 133

HOTSPOT

You are designing an app that will be hosted on Azure virtual machines that run Ubuntu. The app will use a third-party email service to send email messages to users. The third-party email service requires that the app authenticate by using an API key.

You need to recommend an Azure Key Vault solution for storing and accessing the API key. The solution must minimize administrative effort. What should you recommend using to store and access the key? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

The screenshot shows the configuration for storing and accessing a key in Azure Key Vault. Under the 'Storage' section, the 'Secret' option is selected. Under the 'Access' section, 'A managed service identity (MSI)' is selected. A watermark 'Vdumps' is visible over the image.

Answer Area:

Answer Area

This screenshot is identical to the one above, but with the 'Secret' option under 'Storage' and 'A managed service identity (MSI)' under 'Access' highlighted in green to indicate they are the correct selections.

Section:

Explanation:

QUESTION 134

Your company deploys several virtual machines on-premises and to Azure. ExpressRoute is deployed and configured for on-premises to Azure connectivity. Several virtual machines exhibit network connectivity issues. You need to analyze the network traffic to identify whether packets are being allowed or denied from the Azure virtual machines to the on-premises virtual machines. Solution: Use Azure Advisor. Does this meet the goal?

- A. Yes
- B. No

Correct Answer: B

Section:

QUESTION 135

You are designing a solution that calculates 3D geometry from height-map data.

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 136

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 137

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:

Resources

An Azure Migrate appliance

An Azure Migrate project

An Azure VMware Solution private cloud

An Azure VMware Solution host

Answer Area

Sub1:

Cluster1:

Correct Answer:

Resources

An Azure VMware Solution private cloud

An Azure VMware Solution host

Answer Area



Sub1:

Cluster1:

Section:

Explanation:

QUESTION 138

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: