

## Exam Questions AZ-305

Designing Microsoft Azure Infrastructure Solutions

<https://www.2passeasy.com/dumps/AZ-305/>



### NEW QUESTION 1

- (Exam Topic 1)

You plan to migrate App1 to Azure. The solution must meet the authentication and authorization requirements. Which type of endpoint should App1 use to obtain an access token?

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

**Answer:** D

#### Explanation:

Scenario: To access the resources in Azure, App1 must use the managed identity of the virtual machines that will host the app.

Managed identities provide an identity for applications to use when connecting to resources that support Azure Active Directory (Azure AD) authentication.

Applications may use the managed identity to obtain Azure AD tokens.

Reference:

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

### NEW QUESTION 2

- (Exam Topic 1)

You migrate App1 to Azure. You need to ensure that the data storage for App1 meets the security and compliance requirement  
 What should you do?

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

**Answer:** A

#### Explanation:

Scenario: Once App1 is migrated to Azure, you must ensure that new data can be written to the app, and the modification of new and existing data is prevented for a period of three years.

As an administrator, you can lock a subscription, resource group, or resource to prevent other users in your organization from accidentally deleting or modifying critical resources. The lock overrides any permissions the user might have.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/lock-resources>

### NEW QUESTION 3

- (Exam Topic 1)

You plan to migrate App1 to Azure.

You need to recommend a storage solution for App1 that meets the security and compliance requirements. Which type of storage should you recommend, and how should you recommend configuring the storage? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

### Answer Area

Storage account type:

	▼
Premium page blobs	
Premium file shares	
Standard general-purpose v2	

Configuration:

	▼
NFSv3	
Large file shares	
Hierarchical namespace	

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

Text, table Description automatically generated

Box 1: Standard general-purpose v2

Standard general-purpose v2 supports Blob Storage.

Azure Storage provides data protection for Blob Storage and Azure Data Lake Storage Gen2. Scenario:

Litware identifies the following security and compliance requirements:

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

Scenario: Plan: Migrate App1 to Azure virtual machines.

Blob storage now supports the Network File System (NFS) 3.0 protocol. This support provides Linux file system compatibility at object storage scale and prices and enables Linux clients to mount a container in Blob storage from an Azure Virtual Machine (VM) or a computer on-premises. Reference:

<https://docs.microsoft.com/en-us/azure/storage/blobs/data-protection-overview>

#### NEW QUESTION 4

- (Exam Topic 1)

You plan to migrate App1 to Azure.

You need to recommend a network connectivity solution for the Azure Storage account that will host the App1 data. The solution must meet the security and compliance requirements.

What should you include in the recommendation?

- A. a private endpoint
- B. a service endpoint that has a service endpoint policy
- C. Azure public peering for an ExpressRoute circuit
- D. Microsoft peering for an ExpressRoute circuit

**Answer:** A

#### Explanation:

Private Endpoint securely connect to storage accounts from on-premises networks that connect to the VNet using VPN or ExpressRoutes with private-peering. Private Endpoint also secure your storage account by configuring the storage firewall to block all connections on the public endpoint for the storage service.

<https://docs.microsoft.com/en-us/azure/expressroute/expressroute-faqs#microsoft-peering>

#### NEW QUESTION 5

- (Exam Topic 1)

You plan to migrate App1 to Azure.

You need to estimate the compute costs for App1 in Azure. The solution must meet the security and compliance requirements.

What should you use to estimate the costs, and what should you implement to minimize the costs? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

To estimate the costs, use:

▼

Azure Advisor

The Azure Cost Management Power BI app

The Azure Total Cost of Ownership (TCO) calculator

Implement:

▼

Azure Reservations

Azure Hybrid Benefit

Azure Spot Virtual Machine pricing

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

Text Description automatically generated

Box 1: The Azure Total Cost of Ownership (TCO) Calculator

The Total Cost of Ownership (TCO) Calculator estimates the cost savings you can realize by migrating your workloads to Azure.

Note: The TCO Calculator recommends a set of equivalent services in Azure that will support your applications. Our analysis will show each cost area with an estimate of your on-premises spend versus your spend in Azure. There are several cost categories that either decrease or go away completely when you move workloads to the cloud.

Box 2: Azure Hybrid Benefit

Azure Hybrid Benefit is a licensing benefit that helps you to significantly reduce the costs of running your workloads in the cloud. It works by letting you use your on-premises Software Assurance-enabled Windows Server and SQL Server licenses on Azure. And now, this benefit applies to RedHat and SUSE Linux subscriptions, too.

Scenario:

Litware identifies the following security and compliance requirements:

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

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

#### NEW QUESTION 6

- (Exam Topic 2)

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

**Answer:** D

#### Explanation:

References:

<https://docs.microsoft.com/en-us/azure/active-directory/hybrid/how-to-connect-health-operations>

#### NEW QUESTION 7

- (Exam Topic 2)

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

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

**Answer:** A

#### NEW QUESTION 8

- (Exam Topic 2)

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

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

**Answer:** A

#### Explanation:

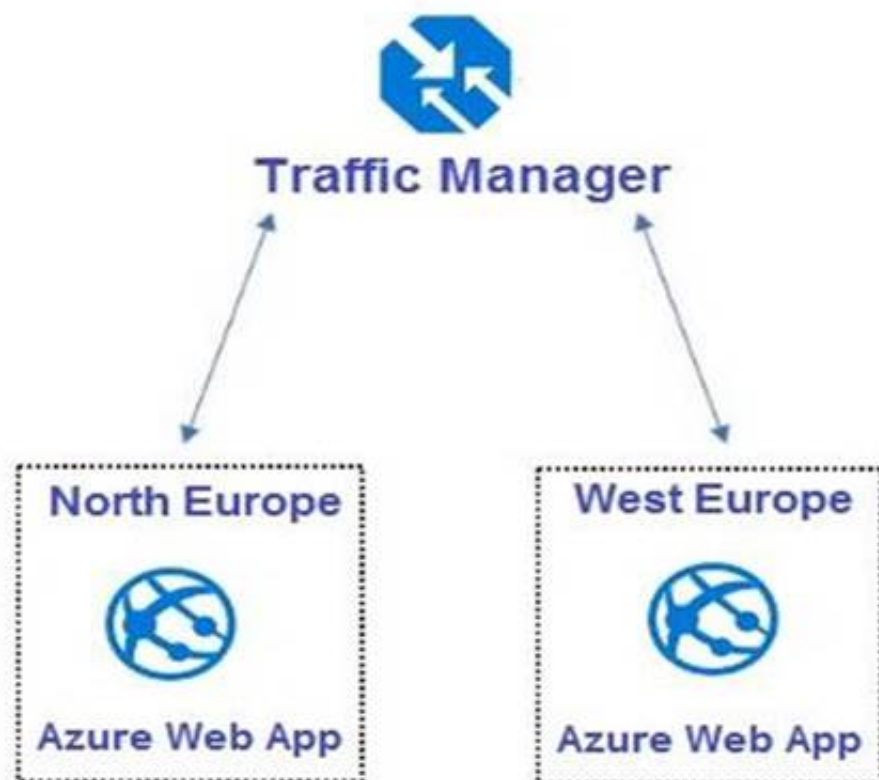
<https://docs.microsoft.com/en-us/azure/azure-sql/database/long-term-retention-overview>

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

#### NEW QUESTION 9

- (Exam Topic 2)

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



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



Statements	Yes	No
The design supports the technical requirements for redundancy.	<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"/>

- A. Mastered  
 B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Yes

Any new deployments to Azure must be redundant in case an Azure region fails.

Traffic Manager uses DNS to direct client requests to the most appropriate service endpoint based on a traffic-routing method and the health of the endpoints. An endpoint is any Internet-facing service hosted inside or outside of Azure. Traffic Manager provides a range of traffic-routing methods and endpoint monitoring options to suit different application needs and automatic failover models. Traffic Manager is resilient to failure, including the failure of an entire Azure region.

Box 2: Yes

Recent changes in Azure brought some significant changes in autoscaling options for Azure Web Apps (i.e. Azure App Service to be precise as scaling happens on App Service plan level and has effect on all Web Apps running in that App Service plan).

Box 3: No

Traffic Manager provides a range of traffic-routing methods and endpoint monitoring options to suit different application needs and automatic failover models. Traffic Manager is resilient to failure, including the failure of an entire Azure region.

Reference:

<https://docs.microsoft.com/en-us/azure/traffic-manager/traffic-manager-overview> <https://blogs.msdn.microsoft.com/hsirtl/2017/07/03/autoscaling-azure-web-apps/>

**NEW QUESTION 10**

- (Exam Topic 2)

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

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

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

- A. Mastered  
 B. Not Mastered

**Answer:** A

**Explanation:**

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

**NEW QUESTION 10**

- (Exam Topic 3)

You need to recommend a solution that meets the data requirements for App1.

What should you recommend deploying to each availability zone that contains an instance of App1?

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

Answer: A

#### NEW QUESTION 11

- (Exam Topic 3)

You need to recommend a solution to ensure that App1 can access the third-party credentials and access strings. The solution must meet the security requirements.

What should you include in the recommendation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Authenticate App1 by using:

<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

- A. Mastered
- B. Not Mastered

Answer: A

#### Explanation:

Graphical user interface, text, application, table Description automatically generated

Scenario: Security Requirement

All secrets used by Azure services must be stored in Azure Key Vault.

Services that require credentials must have the credentials tied to the service instance. The credentials must NOT be shared between services.

Box 1: A service principal

A service principal is a type of security principal that identifies an application or service, which is to say, a piece of code rather than a user or group. A service principal's object ID is known as its client ID and acts like its username. The service principal's client secret acts like its password.

Note: Authentication with Key Vault works in conjunction with Azure Active Directory (Azure AD), which is responsible for authenticating the identity of any given security principal.

A security principal is an object that represents a user, group, service, or application that's requesting access to Azure resources. Azure assigns a unique object ID to every security principal.

Box 2: A role assignment

You can provide access to Key Vault keys, certificates, and secrets with an Azure role-based access control.

Reference:

<https://docs.microsoft.com/en-us/azure/key-vault/general/authentication>

#### NEW QUESTION 16

- (Exam Topic 3)

What should you implement to meet the identity requirements? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

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

- A. Mastered
- B. Not Mastered

Answer: A

#### Explanation:

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

NEW QUESTION 20

- (Exam Topic 3)  
You need to recommend a solution that meets the file storage requirements for App2.  
What should you deploy to the Azure subscription and the on-premises network? To answer, drag the appropriate services to the correct locations. Each service may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.  
NOTE: Each correct selection is worth one point.

Services

Azure Blob Storage

Azure Data Box

Azure Data Box Gateway

Azure Data Lake Storage

Azure File Sync

Azure Files

Answer Area

Azure subscription:

Service

On-premises network:

Service

- A. Mastered
- B. Not Mastered

Answer: A

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

NEW QUESTION 24

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

Answer Area

Azure Traffic Manager:

1
2
3
6

Azure Application Gateway:

1
2
3
6

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Azure Traffic Manager:

1
2
3
6

Azure Application Gateway:

1
2
3
6

NEW QUESTION 26

- (Exam Topic 3)

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

- A. the Azure App Configuration service
- B. Continuous Integration/Continuous Deployment (CI/CD) sources
- C. deployment slots
- D. an Azure Container Registry instance

Answer: C

NEW QUESTION 30

- (Exam Topic 4)

A company has an on-premises file server cbflserver that runs Windows Server 2019. Windows Admin Center manages this server. The company owns an Azure subscription. You need to provide an Azure solution to prevent data loss if the file server fails.

Solution: You decide to create an Azure Recovery Services vault. You then decide to install the Azure Backup agent and then schedule the backup. Would this meet the requirement?

- A. Yes
- B. No

Answer: A

NEW QUESTION 31

- (Exam Topic 5)

You have an Azure subscription. The subscription contains an Azure SQL managed instance that stores employee details, including social security numbers and phone numbers.

You need to configure the managed instance to meet the following requirements:

- The helpdesk team must see only the last four digits of an employee's phone number.
- Cloud administrators must be prevented from seeing the employee's social security numbers.

What should you enable for each column in the managed instance? To answer select the appropriate options in the answer area.

NOTE; Each correct selection is worth one point



Answer Area

Phone numbers:

Always Encrypted  
 Column encryption  
 Dynamic data masking  
 Transparent Data Encryption (TDE)

Social security numbers:

Always Encrypted  
 Column encryption  
 Dynamic data masking  
 Transparent Data Encryption (TDE)

- A. Mastered  
 B. Not Mastered

Answer: A

Explanation:

Answer Area

Phone numbers:

Always Encrypted  
 Column encryption  
 Dynamic data masking  
 Transparent Data Encryption (TDE)

Social security numbers:

Always Encrypted  
 Column encryption  
 Dynamic data masking  
 Transparent Data Encryption (TDE)

NEW QUESTION 33

- (Exam Topic 5)

You plan to migrate on-premises Microsoft SQL Server databases to Azure.

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

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

What should you recommendation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Deployment solution:

Azure SQL Managed Instance  
 SQL Server on Azure Virtual Machines  
 An Azure SQL Database single database

Resiliency solution:

Auto-failover group  
 Active geo-replication  
 Zone-redundant deployment

- A. Mastered  
 B. Not Mastered

Answer: A

Explanation:

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Box 1: An Azure SQL Database single database.

SQL Server Managed instance versus SQL Server Virtual Machines Active geo-replication is not supported by Azure SQL Managed Instance. Box 2: Active geo-replication

Active geo-replication is a feature that lets you to create a continuously synchronized readable secondary database for a primary database. The readable secondary database may be in the same Azure region as the primary, or, more commonly, in a different region. This kind of readable secondary databases are also known as geo-secondaries, or geo-replicas.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/active-geo-replication-overview>

### NEW QUESTION 36

- (Exam Topic 5)

Your company deploys several Linux and Windows virtual machines (VMs) to Azure. The VMs are deployed with the Microsoft Dependency Agent and the Microsoft Monitoring Agent installed by using Azure VM extensions. On-premises connectivity has been enabled by using Azure ExpressRoute. You need to design a solution to monitor the VMs.

Which Azure monitoring services should you use? To answer, select the appropriate Azure monitoring services in the answer area.

NOTE: Each correct selection is worth one point.

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

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

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

Box 1: Azure Network Watcher

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

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

Box 2: Azure Service Map

Service Map automatically discovers application components on Windows and Linux systems and maps the communication between services. With Service Map, you can view your servers in the way that you think of them: as interconnected systems that deliver critical services. Service Map shows connections between servers, processes, inbound and outbound connection latency, and ports across any TCP-connected architecture, with no configuration required other than the installation of an agent.

Reference:

<https://docs.microsoft.com/en-us/azure/network-watcher/traffic-analytics> <https://docs.microsoft.com/en-us/azure/azure-monitor/insights/service-map>

### NEW QUESTION 38

- (Exam Topic 5)

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

**Answer:** B

### NEW QUESTION 43

- (Exam Topic 5)

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

You need to recommend an Azure Key Vault solution for storing and accessing the API key. The solution must minimize administrative effort.

What should you recommend using to store and access the key? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

## Answer Area

Storage: Secret  
 Certificate  
 Key  
 Secret

Access: A managed service identity (MSI)  
 An API token  
 A managed service identity (MSI)  
 A service principal

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Answer Area

Storage: Secret  
 Certificate  
 Key  
 Secret

Access: A managed service identity (MSI)  
 An API token  
 A managed service identity (MSI)  
 A service principal

## NEW QUESTION 46

- (Exam Topic 5)

Your company has offices in the United States, Europe, Asia, and Australia.

You have an on-premises app named App1 that uses Azure Table storage. Each office hosts a local instance of App1.

You need to upgrade the storage for App1. The solution must meet the following requirements:

- > Enable simultaneous write operations in multiple Azure regions.
- > Ensure that write latency is less than 10 ms.
- > Support indexing on all columns.
- > Minimize development effort. Which data platform should you use?

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

**Answer:** D

**Explanation:**

Azure Cosmos DB Table API has

> Single-digit millisecond latency for reads and writes, backed with <10-ms latency reads and <15-ms latency writes at the 99th percentile, at any scale, anywhere in the world.

> Automatic and complete indexing on all properties, no index management.

> Turnkey global distribution from one to 30+ regions. Support for automatic and manual failovers at any time, anywhere in the world. Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/table-support>

## NEW QUESTION 50

- (Exam Topic 5)

Your company plans to deploy various Azure App Service instances that will use Azure SQL databases. The App Service instances will be deployed at the same time as the Azure SQL databases.

The company has a regulatory requirement to deploy the App Service instances only to specific Azure regions. The resources for the App Service instances must reside in the same region.

You need to recommend a solution to meet the regulatory requirement.

Solution: You recommend using an Azure policy to enforce the location of resource groups. Does this meet the goal?

- A. Yes
- B. No

Answer: A

### NEW QUESTION 51

- (Exam Topic 5)

You have an application named App1. App1 generates log files that must be archived for five years. The log files must be readable by App1 but must not be modified.

Which storage solution should you recommend for archiving?

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

Answer: B

### Explanation:

Immutable storage for Azure Blob storage enables users to store business-critical data objects in a WORM (Write Once, Read Many) state.

Immutable storage supports:

Time-based retention policy support: Users can set policies to store data for a specified interval. When a time-based retention policy is set, blobs can be created and read, but not modified or deleted. After the retention period has expired, blobs can be deleted but not overwritten.

Reference:

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

### NEW QUESTION 53

- (Exam Topic 5)

You have an Azure virtual machine named VM1 that runs Windows Server 2019 and contains 500 GB of data files.

You are designing a solution that will use Azure Data Factory to transform the data files, and then load the files to Azure Data Lake Storage

What should you deploy on VM1 to support the design?

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

Answer: A

### NEW QUESTION 54

- (Exam Topic 5)

You are designing a storage solution that will ingest, store, and analyze petabytes (PBs) of structured, semi-structured and unstructured text data. The analyzed data will be offloaded to Azure Data Lake Storage Gen2 for long-term retention.

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

- Stores the processed data
- Provides interactive analytics
- Supports manual scaling, built-in autoscaling. and custom autoscaling

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

### Answer Area

For storage and interactive analytics:

Azure Data Lake Analytics

Azure Data Explorer

Azure Data Lake Analytics

Log Analytics

Query language:

KQL

KQL

Transact-SQL

U-SQL

- A. Mastered
- B. Not Mastered

Answer: A

### Explanation:



Answer Area

For storage and interactive analytics:

Azure Data Lake Analytics

Azure Data Explorer

Azure Data Lake Analytics

Log Analytics

Query language:

KQL

KQL

Transact-SQL

U-SQL

NEW QUESTION 57

- (Exam Topic 5)

You have an Azure App Service web app that uses a system-assigned managed identity.

You need to recommend a solution to store their settings of the web app as secrets in an Azure key vault The solution must meet the following requirements:

- Minimize changes to the app code,
- Use the principle of least privilege.

What should you include in the recommendation? To answer, select the appropriate options in the answer area.

Answer Area

Key Vault integration method:

Key Vault references in Application settings

Key Vault references in Appsettings.json

Key Vault references in Web.config

Key Vault SDK

Key Vault permissions for the managed identity:

Keys: Get

Keys: List and Get

Secrets: Get

Secrets: List and Get

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

Answer Area

Key Vault integration method:

Key Vault references in Application settings

Key Vault references in Appsettings.json

Key Vault references in Web.config

Key Vault SDK

Key Vault permissions for the managed identity:

Keys: Get

Keys: List and Get

Secrets: Get

Secrets: List and Get

NEW QUESTION 60

- (Exam Topic 5)

You have an Azure subscription.

You create a storage account that will store documents.

You need to configure the storage account to meet the following requirements:

- Ensure that retention policies are standardized across the subscription.
- Ensure that data can be purged if the data is copied to an unauthorized location.

Which two settings should you enable? To answer, select the appropriate settings in the answer area. NOTE: Each correct selection is worth one point.

Recovery

✓

☐ Enable operational backup with Azure Backup

✓

☐ Enable point-in-time restore for containers

✓

☐ Enable soft delete for blobs

✓

☐ Enable soft delete for containers

✓

☐ Enable permanent delete for soft deleted items

Tracking

✓

☐ Enable versioning for blobs

✓

☐ Enable blob change feed

Access control

✓

☐ Enable version-level immutability support

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Recovery

☐
Enable operational backup with Azure Backup

☐
Enable point-in-time restore for containers

☐
Enable soft delete for blobs

☐
Enable soft delete for containers

☐
Enable permanent delete for soft deleted items

Tracking

☐
Enable versioning for blobs

☐
Enable blob change feed

Access control

☐
Enable version-level immutability support

#### NEW QUESTION 65

- (Exam Topic 5)

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

Name	Management group
Sub1	MG1
Sub2	MG1
Sub3	Tenant Root Group

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

Name	Subscription
RG1	Sub1
RG2	Sub2
RG3	Sub3

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

Name	Member of
Group1	Group3
Group2	Group3
Group3	None

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

Name	Member of
User1	Group1
User2	Group2
User3	Group1, Group2

You perform the following actions:

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

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

Answer Area

Statements	Yes	No
User1 can create a new virtual machine in RG1.	<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"/>

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

Answer Area

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

NEW QUESTION 67

- (Exam Topic 5)

You have an Azure Load Balancer named LB1 that balances requests to five Azure virtual machines. You need to develop a monitoring solution for LB1. The solution must generate an alert when any of the following conditions are met:

- > A virtual machine is unavailable.
- > Connection attempts exceed 50,000 per minute.

Which signal should you include in the solution for each condition? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

An unavailable virtual machine:

▼

Byte Count

Data Path Availability

Health Probe Status

Packet Count

SYN Count

More than 50,000 connection attempts per minute:

▼

Byte Count

Data Path Availability

Health Probe Status

Packet Count

SYN Count

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

Graphical user interface, text, application Description automatically generated

Box 1: Data path availability

Standard Load Balancer continuously exercises the data path from within a region to the load balancer front end, all the way to the SDN stack that supports your VM. As long as healthy instances remain, the measurement follows the same path as your application's load-balanced traffic. The data path that your customers



use is also validated. The measurement is invisible to your application and does not interfere with other operations.

Note: Load balancer distributes inbound flows that arrive at the load balancer's front end to backend pool instances. These flows are according to configured load-balancing rules and health probes. The backend pool instances can be Azure Virtual Machines or instances in a virtual machine scale set.

Box 2: SYN count

SYN (synchronize) count: Standard Load Balancer does not terminate Transmission Control Protocol (TCP) connections or interact with TCP or UDP packet flows. Flows and their handshakes are always between the source and the VM instance. To better troubleshoot your TCP protocol scenarios, you can make use of SYN packets counters to understand how many TCP connection attempts are made. The metric reports the number of TCP SYN packets that were received.

Reference:

<https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-standard-diagnostics>

#### NEW QUESTION 68

- (Exam Topic 5)

You have the Azure resources shown in the following table.

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

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

What is the minimum number of additional Azure Firewall policies you should create?

- A. 1
- B. 2
- C. 3

**Answer:** B

#### Explanation:

Firewall policies work across regions and subscriptions. Place all your global configurations in the parent policy.

Note: Policies can be created in a hierarchy. You can create a parent/global policy that will contain configurations and rules that will apply to all/a number of firewall instances. Then you create a child policy that inherits from the parent; note that rules changes in the parent instantly appear in the child. The child is associated with a firewall and applies configurations/rules from the parent policy and the child policy instantly to the firewall.

Reference: <https://aidanfinn.com/?p=22006>

#### NEW QUESTION 70

- (Exam Topic 5)

You plan provision a High Performance Computing (HPC) cluster in Azure that will use a third-party scheduler.

You need to recommend a solution to provision and manage the HPC cluster node. What should you include in the recommendation?

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

**Answer:** B

#### Explanation:

You can dynamically provision Azure HPC clusters with Azure CycleCloud. Azure CycleCloud is the simplest way to manage HPC workloads.

Note: Azure CycleCloud is an enterprise-friendly tool for orchestrating and managing High Performance Computing (HPC) environments on Azure. With CycleCloud, users can provision infrastructure for HPC systems, deploy familiar HPC schedulers, and automatically scale the infrastructure to run jobs efficiently at any scale. Through CycleCloud, users can create different types of file systems and mount them to the compute cluster nodes to support HPC workloads.

Reference:

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

#### NEW QUESTION 74

- (Exam Topic 5)

You are designing an Azure web app.

You plan to deploy the web app to the North Europe Azure region and the West Europe Azure region. You need to recommend a solution for the web app. The solution must meet the following requirements:

- Users must always access the web app from the North Europe region, unless the region fails.
- The web app must be available to users if an Azure region is unavailable.
- Deployment costs must be minimized.

What should you include in the recommendation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Request routing method:

- A Traffic Manager profile
- Azure Application Gateway
- Azure Load Balancer

Request routing configuration:

- Cookie-based session affinity
- Performance traffic routing
- Priority traffic routing
- Weighted traffic routing

- A. Mastered  
 B. Not Mastered

Answer: A

**Explanation:**

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

**NEW QUESTION 75**

- (Exam Topic 5)

You have an Azure subscription that contains a virtual network named VNET1 and 10 virtual machines. The virtual machines are connected to VNET1.

You need to design a solution to manage the virtual machines from the internet. The solution must meet the following requirements:

- Incoming connections to the virtual machines must be authenticated by using Azure Multi-Factor Authentication (MFA) before network connectivity is allowed.
- Incoming connections must use TLS and connect to TCP port 443.
- The solution must support RDP and SSH.

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

**Answer Area**

To provide access to virtual machines on VNET1, use:

- Azure Bastion
- Just-in-time (JIT) VM access
- Azure Web Application Firewall (WAF) in Azure Front Door

To enforce Azure MFA, use:

- An Azure Identity Governance access package
- A Conditional Access policy that has the Cloud apps assignment set to Azure Windows VM Sign-In
- A Conditional Access policy that has the Cloud apps assignment set to Microsoft Azure Management

- A. Mastered  
 B. Not Mastered

Answer: A

**Explanation:**

**Answer Area**

To provide access to virtual machines on VNET1, use:

- Azure Bastion
- Just-in-time (JIT) VM access
- Azure Web Application Firewall (WAF) in Azure Front Door

To enforce Azure MFA, use:

- An Azure Identity Governance access package
- A Conditional Access policy that has the Cloud apps assignment set to Azure Windows VM Sign-In
- A Conditional Access policy that has the Cloud apps assignment set to Microsoft Azure Management

**NEW QUESTION 77**

- (Exam Topic 5)

You have an on-premises line-of-business (LOB) application that uses a Microsoft SQL Server instance as the backend.

You plan to migrate the on-premises SQL Server instance to Azure virtual machines.

You need to recommend a highly available SQL Server deployment that meets the following requirements:

- Minimizes costs
  - Minimizes failover time if a single server fails
- What should you include in the recommendation?

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

Answer: A

NEW QUESTION 81

- (Exam Topic 5)

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

Add OAuth2 service

API Management service

Display name \*

Unique name used to reference this authorization server on t...

Id \* ⓘ

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 \*

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

Answer Area

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

Box 1: Web applications

The Authorization Code Grant Type is used by both web apps and native apps to get an access token after a user authorizes an app.

Note: The Authorization Code grant type is used by confidential and public clients to exchange an authorization code for an access token.

After the user returns to the client via the redirect URL, the application will get the authorization code from the URL and use it to request an access token.

Reference:

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

NEW QUESTION 82

- (Exam Topic 5)

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

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

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

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

Level at which to define the blueprints:

The child management groups

The root management group

The subscriptions

Level at which to create the blueprint assignments:

The child management groups

The root management group

The subscriptions

- A. Mastered  
 B. Not Mastered

**Answer:** A

**Explanation:**

- \* 1. Root management group
- \* 2. The subscriptions

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

**NEW QUESTION 83**

- (Exam Topic 5)

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

**Answer:** A

**NEW QUESTION 85**

- (Exam Topic 5)

Your company, named Contoso, Ltd., implements several Azure logic apps that have HTTP triggers. The logic apps provide access to an on-premises web service.

Contoso establishes a partnership with another company named Fabrikam. 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

**Answer:** B

**Explanation:**

API Management helps organizations publish APIs to external, partner, and internal developers to unlock the potential of their data and services.

You can secure API Management using the OAuth 2.0 client credentials flow. Reference:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-key-concepts> <https://docs.microsoft.com/en-us/azure/api-management/api-management-features> <https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-protect-backend-with-aad#ena>

**NEW QUESTION 88**

- (Exam Topic 5)

You have an Azure subscription. The subscription contains an app that is hosted in the East US, Central Europe, and East Asia regions.

You need to recommend a data-tier solution for the app. The solution must meet the following requirements: ➤ Support multiple consistency levels.

- Be able to store at least 1 TB of data.
- Be able to perform read and write operations in the Azure region that is local to the app instance. What should you include in the recommendation?

- A. an Azure Cosmos DB database  
 B. a Microsoft SQL Server Always On availability group on Azure virtual machines



- C. an Azure SQL database in an elastic pool
- D. Azure Table storage that uses geo-redundant storage (GRS) replication

**Answer:** A

**Explanation:**

Azure Cosmos DB approaches data consistency as a spectrum of choices. This approach includes more options than the two extremes of strong and eventual consistency. You can choose from five well-defined levels on the consistency spectrum.

With Cosmos DB any write into any region must be replicated and committed to all configured regions within the account.

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/consistency-levels-tradeoffs>

**NEW QUESTION 90**

- (Exam Topic 5)

You have an Azure subscription.

You need to recommend a solution to provide developers with the ability to provision Azure virtual machines. The solution must meet the following requirements:

- Only allow the creation of the virtual machines in specific regions.
- Only allow the creation of specific sizes of virtual machines. What should you include in the recommendation?

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

**Answer:** B

**Explanation:**

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

**NEW QUESTION 93**

- (Exam Topic 5)

You have an Azure subscription.

You are designing a solution for containerized apps. The solution must meet the following requirements:

- Automatically scale the apps by creating additional instances.
- Minimize administrative effort to maintain nodes and clusters.
- Ensure that containerized apps are highly available across multiple availability zones.
- Provide a central location for the lifecycle management and storage of container images.

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

**Answer Area**

To run the containerized apps:

- ☐ Azure Container Apps
- ☒ Azure Container Instances
- ☐ Azure Container Registry
- ☐ Azure Kubernetes Service (AKS)

For the lifecycle management and storage of container images:

- ☒ Azure Container Apps
- ☐ Azure Container Instances
- ☐ Azure Container Registry
- ☐ Azure Service Fabric

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

To run the containerized apps:

- ☐ Azure Container Apps
- ☒ Azure Container Instances
- ☐ Azure Container Registry
- ☐ Azure Kubernetes Service (AKS)

For the lifecycle management and storage of container images:

- ☒ Azure Container Apps
- ☐ Azure Container Instances
- ☐ Azure Container Registry
- ☐ Azure Service Fabric

#### NEW QUESTION 95

- (Exam Topic 5)

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

**Answer:** D

#### NEW QUESTION 97

- (Exam Topic 5)

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.

**Answer:** A

#### 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.

References:

<https://docs.microsoft.com/en-us/windows-server/identity/securing-privileged-access/securing-privileged-access>

#### NEW QUESTION 98



- (Exam Topic 5)

Your company identifies the following business continuity and disaster recovery objectives for virtual machines that host sales, finance, and reporting application in the company's on-premises data center.

- The finance application requires that data be retained for seven years. In the event of a disaster, the application must be able to run from Azure. The recovery in objective (RTO) is 10 minutes,
- The reporting application must be able to recover point in-time data al a daily granularity. The RTO is eight hours.
- The sales application must be able to fail over to second on-premises data center.

You need to recommend which Azure services meet the business community and disaster recovery objectives. The solution must minimize costs.

What should you recommend for each application? To answer, drag the appropriate services to the correct application. Each service may be used owe. More than once not at an You may need to drag the spin bar between panes or scroll 10 view content.

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

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

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

#### NEW QUESTION 99

- (Exam Topic 5)

You have an Azure subscription.

You need to deploy an Azure Kubernetes Service (AKS) solution that will use Windows Server 2019 nodes. The solution must meet the following requirements:

- Minimize the time it takes to provision compute resources during scale-out operations.
- Support autoscaling of Windows Server containers. Which scaling option should you recommend?

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

**Answer: C**

**Explanation:**

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

#### NEW QUESTION 104

- (Exam Topic 5)

Your on-premises network contains a file server named Server1 that stores 500 GB of data. You need to use Azure Data Factory to copy the data from Server1 to Azure Storage.

You add a new data factory.

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

From Server1:  ▼

Install an Azure File Sync agent
Install a self-hosted integration runtime
Install the File Server Resource Manager role service

From the data factory:  ▼

Create a pipeline
Create an import/export job
Provision an Azure-SQL Server Integration Services (SSIS) integration runtime

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

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

Box 1: Install a self-hosted integration runtime

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

Box 2: Create a pipeline

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

References:

<https://docs.microsoft.com/en-us/azure/machine-learning/team-data-science-process/move-sql-azure-adf>

#### NEW QUESTION 106

- (Exam Topic 5)

You deploy several Azure SQL Database instances.

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

Diagnostics settings

Save
Discard
Delete

Diagnostics

☒ Archive to a storage account

Storage account

>

csa14d260928e42x4ea7xb77

☐ Stream to an event hub

☒ Send to Log Analytics

Log Analytics

>

fabrikamproductionworkspace

LOG

☒ SQLInsights

Retention (days)

90

☒ AutomaticTuning

Retention (days)

30

☐ QueryStoreRuntimeStatistics

Retention (days)

0

☐ QueryStoreWaitStatistics

Retention (days)

0

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.

The amount of time that SQLInsights data will be stored in blob storage is [answer choice].

▼

30 days
90 days
730 days
indefinite

The maximum amount of time that SQLInsights data can be stored in Azure Log Analytics is [answer choice].

▼

30 days
90 days
730 days
indefinite

- A. Mastered
- B. Not Mastered

Answer: A

#### Explanation:

Graphical user interface, text, application Description automatically generated

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

#### NEW QUESTION 111

- (Exam Topic 5)

The accounting department at your company migrates to a new financial accounting software. The accounting department must keep file-based database backups for seven years for compliance purposes. It is unlikely that the backups will be used to recover data.

You need to move the backups to Azure. The solution must minimize costs. Where should you store the backups?

- A. Azure Blob storage that uses the Archive tier
- B. Azure SQL Database
- C. Azure Blob storage that uses the Cool tier
- D. a Recovery Services vault

Answer: A



**Explanation:**

Azure Front Door enables you to define, manage, and monitor the global routing for your web traffic by optimizing for best performance and instant global failover for high availability. With Front Door, you can transform your global (multi-region) consumer and enterprise applications into robust, high-performance personalized modern applications, APIs, and content that reaches a global audience with Azure.

Front Door works at Layer 7 or HTTP/HTTPS layer and uses anycast protocol with split TCP and Microsoft's global network for improving global connectivity.

Reference:

<https://docs.microsoft.com/en-us/azure/frontdoor/front-door-overview>

**NEW QUESTION 116**

- (Exam Topic 5)

You have the Azure resources shown in the following table.

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

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

Azure configuration:

Configure VM1 to forward contoso.com to the public DNS zone.  
 Configure VM1 to forward contoso.com to the Azure-provided DNS at 168.63.129.16.  
 In VNet1, configure a custom DNS server set to the Azure-provided DNS at 168.63.129.16.

On-premises DNS configuration:

Forward contoso.com to VM1.  
 Forward contoso.com to the public DNS zone.  
 Forward contoso.com to the Azure-provided DNS at 168.63.129.16.

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Azure configuration:

Configure VM1 to forward contoso.com to the public DNS zone.  
 Configure VM1 to forward contoso.com to the Azure-provided DNS at 168.63.129.16.  
 In VNet1, configure a custom DNS server set to the Azure-provided DNS at 168.63.129.16.

On-premises DNS configuration:

Forward contoso.com to VM1.  
 Forward contoso.com to the public DNS zone.  
 Forward contoso.com to the Azure-provided DNS at 168.63.129.16.

**NEW QUESTION 118**

- (Exam Topic 5)

You have an on-premises file server that stores 2 TB of data files.

You plan to move the data files to Azure Blob storage in the Central Europe region.

You need to recommend a storage account type to store the data files and a replication solution for the storage account. The solution must meet the following requirements:

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

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

Account type:

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

Replication solution:

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

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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

Account Type: StorageV2

Replication solution: Zone-redundant storage (ZRS)

**NEW QUESTION 121**

- (Exam Topic 5)

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.

**Answer Area**

Virtual machine series:	<div> <div>NC</div> <div>DS</div> <div>NC</div> <div>NV</div> </div>
Disk type:	<div> <div>Premium SSD</div> <div>Standard SSD</div> <div>Premium SSD</div> <div>Ultra Disk</div> </div>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

Virtual machine series:	<div> <div>NC</div> <div>DS</div> <div>NC</div> <div>NV</div> </div>
Disk type:	<div> <div>Premium SSD</div> <div>Standard SSD</div> <div>Premium SSD</div> <div>Ultra Disk</div> </div>

**NEW QUESTION 122**

- (Exam Topic 5)

Your company deploys several Linux and Windows virtual machines (VMs) to Azure. The VMs are deployed with the Microsoft Dependency Agent and the Log Analytics Agent installed by using Azure VM extensions. On-premises connectivity has been enabled by using Azure ExpressRoute.

You need to design a solution to monitor the VMs.

Which Azure monitoring services should you use? To answer, select the appropriate Azure monitoring services in the answer area.

NOTE: Each correct selection is worth one point.

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

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

Graphical user interface, text, application Description automatically generated

Box 1: Azure Traffic Analytics

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

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

Box 2: Azure Service Map

Service Map automatically discovers application components on Windows and Linux systems and maps the communication between services. With Service Map, you can view your servers in the way that you think of them: as interconnected systems that deliver critical services. Service Map shows connections between servers, processes, inbound and outbound connection latency, and ports across any TCP-connected architecture, with no configuration required other than the installation of an agent.

References:

https://docs.microsoft.com/en-us/azure/network-watcher/traffic-analytics

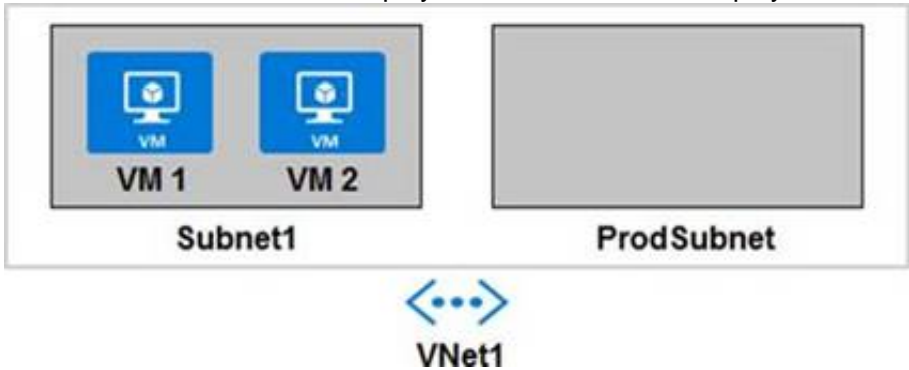
https://docs.microsoft.com/en-us/azure/azure-monitor/insights/service-map

NEW QUESTION 123

- (Exam Topic 5)

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

The current virtual machine deployment is shown in the Deployment exhibit. (Click the Deployment tab).



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

You deploy an Azure API Management (APIM) service. The relevant API Management configuration is shown in the API exhibit. (Click the API tab.)

Virtual network ☐ Off ☒ External ☐ Internal

LOCATION	VIRTUAL NETWORK	SUBNET
West Europe	VNet1	ProdSubnet

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

NOTE: Each correct selection is worth one point.



Statements	Yes	No
The API is available to partners over the Internet.	<input type="radio"/>	<input type="radio"/>
The APIM instance can access real-time data from VM1.	<input type="radio"/>	<input type="radio"/>
A VPN gateway is required for partner access.	<input type="radio"/>	<input type="radio"/>

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

Graphical user interface, text, application Description automatically generated

Reference:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-using-with-vnet>

NEW QUESTION 125

- (Exam Topic 5)

You plan to deploy an Azure App Service web app that will have multiple instances across multiple Azure regions.

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

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

What should you include in the recommendation?

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

Answer: A

Explanation:

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

Reference:

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

NEW QUESTION 127

- (Exam Topic 5)

You have an Azure subscription. The subscription contains 100 virtual machine that am Windows Server. You need to recommend a solution that will provide monitoring and an audit trail of the following modifications:

- Changes to the Windows registry on the virtual machines
- Changes to the DNS settings of the virtual machines

The solution must minimize administrative effort.

What should you recommend using for each change? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Windows registry changes:

Azure Automation Change Tracking

Azure Monitor Change Analysis

Azure Monitor for VM Insights

DNS settings changes:

Azure Automation Change Tracking

Azure Monitor Change Analysis

Azure Monitor for VM Insights

- A. Mastered

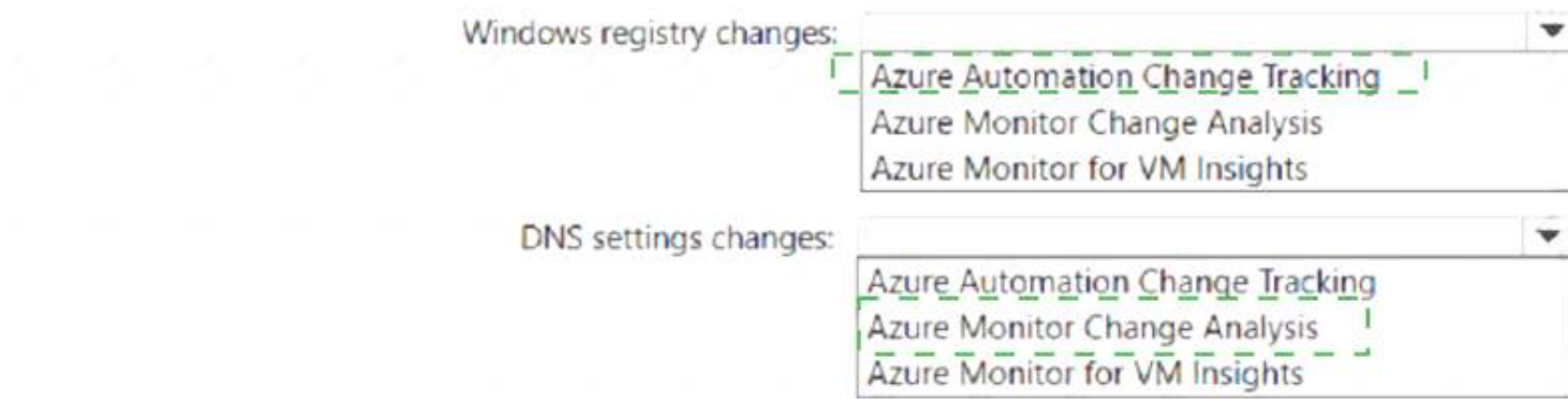


B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**



#### NEW QUESTION 128

- (Exam Topic 5)

You have an app named App1 that uses two on-premises Microsoft SQL Server databases named DB1 and DB2.

You plan to migrate DB1 and DB2 to Azure.

You need to recommend an Azure solution to host DB1 and DB2. The solution must meet the following requirements:

- Support server-side transactions across DB1 and DB2.
- Minimize administrative effort to update the solution. What should you recommend?

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

**Answer:** D

**Explanation:**

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

#### NEW QUESTION 132

- (Exam Topic 5)

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

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

Your company deploys several virtual machines on-premises and to Azure. ExpressRoute is being deployed and configured for on-premises to Azure connectivity. Several virtual machines exhibit network connectivity issues.

You need to analyze the network traffic to identify whether packets are being allowed or denied to the virtual machines.

Solution: Use Azure Traffic Analytics in Azure Network Watcher to analyze the network traffic. Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

Instead use Azure Network Watcher IP Flow Verify, which allows you to detect traffic filtering issues at a VM level.

Note: IP flow verify checks if a packet is allowed or denied to or from a virtual machine. The information consists of direction, protocol, local IP, remote IP, local port, and remote port. If the packet is denied by a security group, the name of the rule that denied the packet is returned. While any source or destination IP can be chosen, IP flow verify helps administrators quickly diagnose connectivity issues from or to the internet and from or to the on-premises environment.

Reference:

<https://docs.microsoft.com/en-us/azure/network-watcher/network-watcher-ip-flow-verify-overview> <https://docs.microsoft.com/en-us/azure/network-watcher/traffic-analytics>

#### NEW QUESTION 136

- (Exam Topic 5)

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

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

Your company has deployed several virtual machines (VMs) on-premises and to Azure. Azure ExpressRoute has been deployed and configured for on-premises to Azure connectivity.

Several VMs are exhibiting network connectivity issues.

You need to analyze the network traffic to determine whether packets are being allowed or denied to the VMs. Solution: Use the Azure Traffic Analytics solution in Azure Log Analytics to analyze the network traffic. Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

Instead use Azure Network Watcher to run IP flow verify to analyze the network traffic. Reference:

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

**NEW QUESTION 137**

- (Exam Topic 5)

You plan to store data in Azure Blob storage for many years. The stored data will be accessed rarely.

You need to ensure that the data in Blob storage is always available for immediate access. The solution must minimize storage costs.

Which storage tier should you use?

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

**Answer: A**

**Explanation:**

Azure cool tier is equivalent to the Amazon S3 Infrequent Access (S3-IA) storage in AWS that provides a low cost high performance storage for infrequently access data.

Note: Azure's cool storage tier, also known as Azure cool Blob storage, is for infrequently-accessed data that needs to be stored for a minimum of 30 days.

Typical use cases include backing up data before tiering to archival systems, legal data, media files, system audit information, datasets used for big data analysis and more.

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

References:

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

**NEW QUESTION 139**

- (Exam Topic 5)

You have an Azure subscription that contains 50 Azure SQL databases.

You create an Azure Resource Manager (ARM) template named. Template1 that enables Transparent Data Encryption (TDE).

You need to create an Azure Policy definition named Policy1 that will use Template1 to enable IDE for any noncompliant Azure SQL databases.

How should you configure Policy 1? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

**Answer Area**

Set available effects to:

▼

DepoIfNotExists

EnforceRegoPolicy

Modify

Include in the definition:

▼

The identity required to perform the remediation task

The scopes of the policy assignments

The role-based access control (RBAC) roles required to perform the remediation task

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

**Answer Area**

Set available effects to:

▼

DepoIfNotExists

EnforceRegoPolicy

Modify

Include in the definition:

▼

The identity required to perform the remediation task

The scopes of the policy assignments

The role-based access control (RBAC) roles required to perform the remediation task

**NEW QUESTION 143**

- (Exam Topic 5)

You have an Azure subscription that contains two applications named App1 and App2. App1 is a sales processing application. When a transaction in App1

requires shipping, a message is added to an Azure Storage account queue, and then App2 listens to the queue for relevant transactions. In the future, additional applications will be added that will process some of the shipping requests based on the specific details of the transactions. You need to recommend a replacement for the storage account queue to ensure that each additional application will be able to read the relevant transactions. What should you recommend?

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

**Answer: B**

**Explanation:**

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

Reference:

<https://docs.microsoft.com/en-us/azure/service-bus-messaging/service-bus-queues-topics-subscriptions>

**NEW QUESTION 147**

- (Exam Topic 5)

You have 100 Microsoft SQL Server integration Services (SSIS) packages that are configured to use 10 on-premises SQL Server databases as their destinations.

You plan to migrate the 10 on-premises databases to Azure SQL Database

You need to recommend a solution to host the SSIS packages in Azure. The solution must ensure that the packages can target the SQL Database instances as their destinations.

What should you include in the recommendation?

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

**Answer: C**

**Explanation:**

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-managed-instance-migrate>

Quote from that page "Azure SQL Database and SQL Server databases in an Azure Virtual Machine. DMS is the recommended method of migration for your enterprise workloads.

If you use SQL Server Integration Services (SSIS) on your SQL Server on premises, DMS does not yet support migrating SSIS catalog (SSISDB) that stores SSIS packages, but you can provision Azure-SSIS Integration Runtime (IR) in Azure Data Factory (ADF) that will create a new SSISDB in a managed instance and then you can redeploy your packages to it, see Create Azure-SSIS IR in ADF.

To learn more about this scenario and configuration steps for DMS, see Migrate your on-premises database to managed instance using DMS."

<https://docs.microsoft.com/en-us/azure/data-factory/how-to-migrate-ssis-job-ssms>

**NEW QUESTION 152**

- (Exam Topic 5)

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
- 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

**Answer: A**

**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>

**NEW QUESTION 155**

- (Exam Topic 5)

You are developing a multi-tier app named App1 that will be hosted on Azure virtual machines. The peak utilization periods for App1 will be from 8 AM to 9 AM and 4 PM to 5 PM on weekdays.

You need to deploy the infrastructure for App1. The solution must meet the following requirements:

- Support virtual machines deployed to four availability zones across two Azure regions.
- Minimize costs by accumulating CPU credits during periods of low utilization.

What is the minimum number of virtual networks you should deploy, and which virtual machine size should you use? To answer, select the appropriate options in



the answer area.

NOTE: Each correct selection is worth one point.

### Answer Area

Number of virtual networks: 2

Virtual machine size: B-Series

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

### Answer Area

Number of virtual networks: 2

Virtual machine size: B-Series

### NEW QUESTION 156

- (Exam Topic 5)

Your company, named Contoso, Ltd, implements several Azure logic apps that have HTTP triggers: The logic apps provide access to an on-premises web service. Contoso establishes a partnership with another company named Fabrikam, Inc.

Fabrikam does not have an existing Azure Active Directory (Azure AD) tenant and uses third-party OAuth 2.0 identity management to authenticate its users.

Developers at Fabrikam plan to use a subset of the logics apps to build applications that will integrate with the on-premises web service of Contoso.

You need to design a solution to provide the Fabrikam developers with access to the logic apps. The solution must meet the following requirements:

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

What should you include in the solution?

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

Answer: C

Explanation:

API Management helps organizations publish APIs to external, partner, and internal developers to unlock the potential of their data and services.

You can secure API Management using the OAuth 2.0 client credentials flow. Reference:

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

<https://docs.microsoft.com/en-us/azure/api-management/api-management-features> <https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-protect-backend-with-aad#ena>

### NEW QUESTION 159

- (Exam Topic 5)

Your company deploys several virtual machines on-premises and to Azure. ExpressRoute is deployed and configured for on-premises to Azure connectivity.

Several virtual machines exhibit network connectivity issues.



You need to analyze the network traffic to identify whether packets are being allowed or denied from the Azure virtual machines to the on-premises virtual machines.

Solution: Use Azure Advisor. Does this meet the goal?

- A. Yes
- B. No

**Answer: B**

#### NEW QUESTION 161

- (Exam Topic 5)

You manage a database environment for a Microsoft Volume Licensing customer named Contoso, Ltd. Contoso uses License Mobility through Software Assurance.

You need to deploy 50 databases. The solution must meet the following requirements:

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

What should you include in the solution? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Purchase model:

DTU
vCore
Azure reserved virtual machine instances

Deployment option:

An Azure SQL managed instance
An Azure SQL Database elastic pool
A SQL Server Always On availability group

- A. Mastered
- B. Not Mastered

**Answer: A**

#### Explanation:

Text, table Description automatically generated

Box 1: vCore

Virtual core (vCore)-based purchasing model (recommended). This purchasing model provides a choice between a provisioned compute tier and a serverless compute tier. With the provisioned compute tier, you choose the exact amount of compute resources that are always provisioned for your workload. With the serverless compute tier, you specify the autoscaling of the compute resources over a configurable compute range

Box 2: An Azure SQL Database Elastic pool

Azure SQL Database provides the following deployment options for a database:

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

Single databases can be moved into and out of an elastic pool.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/purchasing-models>

#### NEW QUESTION 166

- (Exam Topic 5)

You have an on-premises database that you plan to migrate to Azure.

You need to design the database architecture to meet the following requirements:

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

What should you include in the design? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

## Answer Area

Service: 

	▼
Azure SQL Database	
Azure SQL Managed Instance	
Azure Synapse Analytics	
SQL Server on Azure Virtual Machines	

Service tier: 

	▼
Basic	
Business Critical	
General Purpose	
Hyperscale	
Premium	
Standard	

- A. Mastered  
 B. Not Mastered

**Answer:** A

### Explanation:

Box 1: Azure SQL Database Azure SQL Database:

Database size always depends on the underlying service tiers (e.g. Basic, Business Critical, Hyperscale). It supports databases of up to 100 TB with Hyperscale service tier model.

Active geo-replication is a feature that lets you to create a continuously synchronized readable secondary database for a primary database. The readable secondary database may be in the same Azure region as the primary, or, more commonly, in a different region. This kind of readable secondary databases are also known as geo-secondaries, or geo-replicas.

Azure SQL Database and SQL Managed Instance enable you to dynamically add more resources to your database with minimal downtime.

Box 2: Hyperscale Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/active-geo-replication-overview> <https://medium.com/awesome-azure/azure-difference-between-azure-sql-database-and-sql-server-on-vm-compar>

## NEW QUESTION 167

- (Exam Topic 5)

You plan to move a web application named App1 from an on-premises data center to Azure.

App1 depends on a custom COM component that is installed on the host server.

You need to recommend a solution to host App1 in Azure. The solution must meet the following requirements:

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

What should you include in the recommendation?

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

**Answer:** D

### Explanation:

(<https://docs.microsoft.com/en-us/dotnet/azure/migration/app-service#com-and-com-components>)

Azure App Service does not allow the registration of COM components on the platform. If your app makes use of any COM components, these need to be rewritten in managed code and deployed with the site or application. <https://docs.microsoft.com/en-us/dotnet/azure/migration/app-service>

"Azure App Service with Windows Containers If your app cannot be migrated directly to App Service, consider App Service using Windows Containers, which enables usage of the GAC, COM components, MSIs, full access to .NET FX APIs, DirectX, and more."

## NEW QUESTION 168

- (Exam Topic 5)

You plan to deploy an infrastructure solution that will contain the following configurations:

- External users will access the infrastructure by using Azure Front Door.
- External user access to the backend APIs hosted in Azure Kubernetes Service (AKS) will be controlled by using Azure API Management.
- External users will be authenticated by an Azure AD B2C tenant that uses OpenID Connect-based federate with a third-party identity provider.

Which function does each service provide? To answer, drag the appropriate functions to the correct services. Each function may be used once, more than once, or not at all You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Functions	Answer Area
Protection against Open Web Application Security Project (OWASP) vulnerabilities	Front Door: <input type="text"/>
IP filtering on a per-API level	API Management: <input type="text"/>
Validation of Azure B2C JSON Web Tokens (JWTs)	

- A. Mastered  
 B. Not Mastered

**Answer:** A

**Explanation:**

Front Door: Protection against Open Web Application Security Project (OWASP) vulnerabilities<sup>1</sup>

API Management: IP filtering on a per-API level<sup>2</sup> and validation of Azure B2C JSON Web Tokens (JWTs)<sup>3</sup> References:

1: Azure Front Door - Web Application Firewall 2: Azure API Management policy reference - ip-filter 3: to validate an Azure B2C JWT token in a web API?

**NEW QUESTION 170**

- (Exam Topic 5)

You have an Azure Active Directory (Azure AD) tenant named contoso.com that has a security group named Group1. Group1 is configured for assigned membership. Group1 has 50 members, including 20 guest users.

You need to recommend a solution for evaluating the membership of Group1. The solution must meet the following requirements:

- The evaluation must be repeated automatically every three months
- Every member must be able to report whether they need to be in Group1
- Users who report that they do not need to be in Group1 must be removed from Group1 automatically
- Users who do not report whether they need to be in Group1 must be removed from Group1 automatically. What should you include in the recommendation?

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

**Answer:** D

**Explanation:**

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

Have reviews recur periodically: You can set up recurring access reviews of users at set frequencies such as weekly, monthly, quarterly or annually, and the reviewers will be notified at the start of each review. Reviewers can approve or deny access with a friendly interface and with the help of smart recommendations. An administrator creates an access review of Group C with 50 member users and 25 guest users. Makes it a self-review. 50 licenses for each user as self-reviewers.\*

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

There are 4 requirements and every single one is only met by access reviews.

<https://docs.microsoft.com/en-us/azure/active-directory/governance/access-reviews-overview#when-should-you-use-access-reviews>

Dynamic User is needed if a user must be automatically granted access on the basis of its attributes (department, job title, location, etc.)

<https://techcommunity.microsoft.com/t5/itops-talk-blog/dynamic-groups-in-azure-ad-and-microsoft-365/ba-p/22>

Implementing Azure AD PIM is no solution and absolutely not necessary for access reviews. <https://docs.microsoft.com/en-us/azure/active-directory/governance/access-reviews-overview#where-do-you-create-access-reviews>

**NEW QUESTION 173**

- (Exam Topic 5)

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.

To provision the Azure AD identity:	<input type="text"/> <input type="text"/> Create a system-assigned Managed Service Identity <input type="text"/> Create a user-assigned Managed Service Identity <input type="text"/> Register each application in Azure AD
To authenticate request a token by using:	<input type="text"/> <input type="text"/> An Azure AD v1.0 endpoint <input type="text"/> An Azure AD v2.0 endpoint <input type="text"/> An Azure Instance Metadata Service Identity <input type="text"/> OAuth2 endpoint

- A. Mastered  
 B. Not Mastered

**Answer:** A

**Explanation:**

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

**NEW QUESTION 177**

- (Exam Topic 5)

You need to design a highly available Azure SQL database that meets the following requirements:

- \* Failover between replicas of the database must occur without any data loss.
- \* The database must remain available in the event of a zone outage.
- \* Costs must be minimized.

Which deployment option should you use?

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

**Answer:** D

**NEW QUESTION 178**

- (Exam Topic 5)

You are planning an Azure Storage solution for sensitive data. The data will be accessed daily. The data set is less than 10 GB.

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

- All the data written to storage must be retained for five years.
- Once the data is written, the data can only be read. Modifications and deletion must be prevented.
- After five years, the data can be deleted, but never modified.
- Data access charges must be minimized

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

**Answer Area**

Storage account type:

General purpose v2 with Archive access tier for blobs
General purpose v2 with Cool access tier for blobs
General purpose v2 with Hot access tier for blobs

Configuration to prevent modifications and deletions:

Container access level
Container access policy
Storage account resource lock

- A. Mastered  
 B. Not Mastered

**Answer:** A

**Explanation:**

Graphical user interface, text, application Description automatically generated

Box 1: General purpose v2 with Archive acce3ss tier for blobs

Archive - Optimized for storing data that is rarely accessed and stored for at least 180 days with flexible latency requirements, on the order of hours.

Cool - Optimized for storing data that is infrequently accessed and stored for at least 30 days. Hot - Optimized for storing data that is accessed frequently.

Box 2: Storage account resource lock

As an administrator, you can lock a subscription, resource group, or resource to prevent other users in your organization from accidentally deleting or modifying critical resources. The lock overrides any permissions the user might have.

Note: You can set the lock level to CanNotDelete or ReadOnly. In the portal, the locks are called Delete and Read-only respectively.

➤ CanNotDelete means authorized users can still read and modify a resource, but they can't delete the resource.

➤ ReadOnly means authorized users can read a resource, but they can't delete or update the resource.

Applying this lock is similar to restricting all authorized users to the permissions granted by the Reader role.

Reference:

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

**NEW QUESTION 182**

- (Exam Topic 5)

You have an Azure Functions microservice app named Appl that is hosted in the Consumption plan. App1 uses an Azure Queue Storage trigger.

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

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

- Use the same scaling mechanism as the current deployment.



- Support 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).

**Answer:** AD

#### NEW QUESTION 187

- (Exam Topic 5)

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

- Support SQL queries.
- Support geo-replication.
- Store and access data relationally. Which API should you recommend?

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

**Answer:** A

#### NEW QUESTION 189

- (Exam Topic 5)

You are designing an Azure web app.

You plan to deploy the web app to the North Europe Azure region and the West Europe Azure region. You need to recommend a solution for the web app. The solution must meet the following requirements:

- Users must always access the web app from the North Europe region, unless the region fails.
- The web app must be available to users if an Azure region is unavailable.
- Deployment costs must be minimized.

What should you include in the recommendation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Request routing method:

	▼
A Traffic Manager profile	
Azure Application Gateway	
Azure Load Balancer	

Request routing configuration:

	▼
Cookie-based session affinity	
Performance traffic routing	
Priority traffic routing	
Weighted traffic routing	

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

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

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

#### NEW QUESTION 193

- (Exam Topic 5)

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

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

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

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

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

- A. Yes

B. No

**Answer:** B

#### NEW QUESTION 194

- (Exam Topic 5)

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

**Answer:** C

#### Explanation:

Reference:

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

#### NEW QUESTION 199

- (Exam Topic 5)

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

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

Your company has deployed several virtual machines (VMs) on-premises and to Azure. Azure ExpressRoute has been deployed and configured for on-premises to Azure connectivity.

Several VMs are exhibiting network connectivity issues.

You need to analyze the network traffic to determine whether packets are being allowed or denied to the VMs. Solution: Install and configure the Microsoft Monitoring Agent and the Dependency Agent on all VMs. Use the Wire Data solution in Azure Monitor to analyze the network traffic.

Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

#### Explanation:

Instead use Azure Network Watcher to run IP flow verify to analyze the network traffic.

Note: Wire Data looks at network data at the application level, not down at the TCP transport layer. The solution doesn't look at individual ACKs and SYNs.

Reference:

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

#### NEW QUESTION 203

- (Exam Topic 5)

Your company has an on-premises Hyper-V cluster that contains 20 virtual machines. Some of the virtual machines are based on Windows and some in Linux.

You have to migrate the virtual machines onto Azure.

You have to recommend a solution that would be used to replicate the disks of the virtual machines to Azure. The solution needs to ensure that the virtual machines remain available when the migration of the disks is in progress.

You decide to create an Azure storage account and then run AzCopy Would this fulfill the requirement?

- A. Yes
- B. No

**Answer:** B

#### NEW QUESTION 208

- (Exam Topic 5)

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

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

Your company plans to deploy various Azure App Service instances that will use Azure SQL databases. The App Service instances will be deployed at the same time as the Azure SQL databases.

The company has a regulatory requirement to deploy the App Service instances only to specific Azure regions. The resources for the App Service instances must reside in the same region.

You need to recommend a solution to meet the regulatory requirement.

Solution: You recommend using an Azure policy to enforce the resource group location. Does this meet the goal?

- A. Yes
- B. No

**Answer:** A

**Explanation:**

Azure Resource Policy Definitions can be used which can be applied to a specific Resource Group with the App Service instances.

Reference:

<https://docs.microsoft.com/en-us/azure/governance/policy/overview>

**NEW QUESTION 209**

- (Exam Topic 5)

You have an Azure subscription.

Your on-premises network contains a file server named Server1. Server 1 stores 5 TB of company files that are accessed rarely.

You plan to copy the files to Azure Storage.

You need to implement a storage solution for the files that meets the following requirements:

- The files must be available within 24 hours of being requested.
- Storage costs must be minimized.

Which two possible storage solutions achieve this goal? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

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

**Answer: BE**

**Explanation:**

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

**NEW QUESTION 210**

- (Exam Topic 5)

You have the Azure subscriptions shown in the following table.

Name	Location	Azure AD tenant
Sub1	East US	contoso.onmicrosoft.com
Sub2	East US	contoso-recovery.onmicrosoft.com

Contoso.onmicrosoft.com contains a user named User1.

You need to deploy a solution to protect against ransomware attacks. The solution must meet the following requirements:

- Ensure that all the resources in Sub1 are backed up by using Azure Backup.
- Require that User1 first be assigned a role for Sub2 before the user can make major changes to the backup configuration.

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

**Answer Area**

Sub1:

Sub2:

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

## Answer Area

Sub1:

Sub2:

### NEW QUESTION 215

- (Exam Topic 5)

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

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

Your company plans to deploy various Azure App Service instances that will use Azure SQL databases. The App Service instances will be deployed at the same time as the Azure SQL databases.

The company has a regulatory requirement to deploy the App Service instances only to specific Azure regions. The resources for the App Service instances must reside in the same region.

You need to recommend a solution to meet the regulatory requirement.

Solution: You recommend creating resource groups based on locations and implementing resource locks on the resource groups.

Does this meet the goal?

A. Yes

B. No

**Answer: B**

#### 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>

### NEW QUESTION 220

- (Exam Topic 5)

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.



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

- A. Mastered
- B. Not Mastered

Answer: A

#### Explanation:

Graphical user interface, text, application Description automatically generated

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/>

#### NEW QUESTION 223

- (Exam Topic 5)

You plan to create an Azure Storage account that will host file shares. The shares will be accessed from on-premises applications that are transaction-intensive. You need to recommend a solution to minimize latency when accessing the file shares. The solution must provide the highest-level of resiliency for the selected storage tier.

What should you include in the recommendation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Storage tier:

Hot
Premium
Transaction optimized

Resiliency:

Geo-redundant storage (GRS)
Zone-redundant storage (ZRS)
Locally-redundant storage (LRS)

- A. Mastered
- B. Not Mastered

Answer: A

#### Explanation:

Box 1: Premium

Premium: Premium file shares are backed by solid-state drives (SSDs) and provide consistent high performance and low latency, within single-digit milliseconds for most IO operations, for IO-intensive workloads.

Box 2: Zone-redundant storage (ZRS):

Premium Azure file shares only support LRS and ZRS.

Zone-redundant storage (ZRS): With ZRS, three copies of each file stored, however these copies are physically isolated in three distinct storage clusters in different Azure availability zones.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/files/storage-files-planning>

#### NEW QUESTION 225

- (Exam Topic 5)

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.

Scenario	Solution
Store content close to end users.	<div> <div></div> <div> Azure Redis Cache                     Azure Traffic Manager                     Azure Content Delivery Network                     Azure Application Gateway                 </div> </div>
Store content close to the application.	<div> <div></div> <div> Azure Redis Cache                     Azure Traffic Manager                     Azure Content Delivery Network                     Azure Application Gateway                 </div> </div>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Graphical user interface, text Description automatically generated with medium confidence

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

high-bandwidth 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.

References:

<https://docs.microsoft.com/en-us/azure/azure-cache-for-redis/cache-overview>

**NEW QUESTION 229**

- (Exam Topic 5)

You plan to deploy an Azure Databricks Data Science & Engineering workspace and ingest data into the workspace.

Where should you persist the ingested data?

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

**Answer:** B

**Explanation:**

The Azure Databricks Data Science & Engineering data lands in a data lake for long term persisted storage, in Azure Blob Storage or Azure Data Lake Storage.

Reference:

<https://docs.microsoft.com/en-us/azure/databricks/scenarios/what-is-azure-databricks-ws>

**NEW QUESTION 231**

- (Exam Topic 5)

You are designing an Azure Cosmos DB solution that will host multiple writable replicas in multiple Azure regions.

You need to recommend the strongest database consistency level for the design. The solution must meet the following requirements:

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

Which consistency level should you recommend?

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

**Answer:** A

**Explanation:**

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

Timeline Description automatically generated



Note: The service offers comprehensive 99.99% SLAs which covers the guarantees for throughput, consistency, availability and latency for the Azure Cosmos DB Database Accounts scoped to a single Azure region configured with any of the five Consistency Levels or Database Accounts spanning multiple Azure regions, configured with any of the four relaxed Consistency Levels.

Reference:

[https://azure.microsoft.com/en-us/support/legal/sla/cosmos-db/v1\\_3/](https://azure.microsoft.com/en-us/support/legal/sla/cosmos-db/v1_3/)

<https://docs.microsoft.com/en-us/azure/cosmos-db/consistency-levels#consistency-levels-and-latency>

#### NEW QUESTION 235

- (Exam Topic 5)

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

Answer: DE

#### NEW QUESTION 239

- (Exam Topic 5)

You are designing a data storage solution to support reporting.

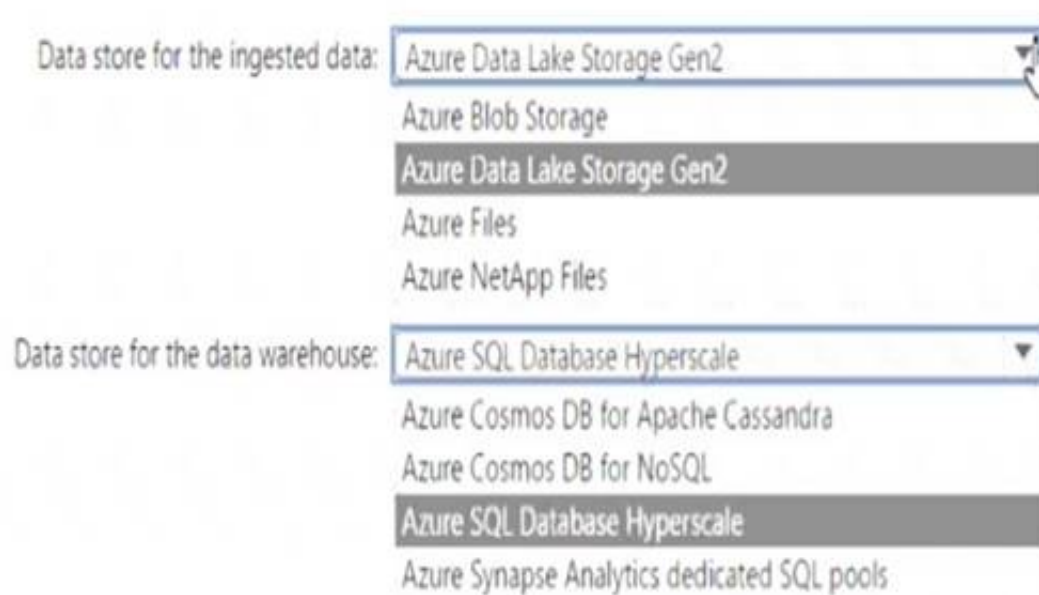
The solution will ingest high volumes of data in the JSON format by using Azure Event Hubs. As the data arrives, Event Hubs will write the data to storage. The solution must meet the following requirements:

- Organize data in directories by date and time.
- Allow stored data to be queried directly, transformed into summarized tables, and then stored in a data warehouse.
- Ensure that the data warehouse can store 50 TB of relational data and support between 200 and 300 concurrent read operations.

Which service should you recommend for each type of data store? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

#### NEW QUESTION 243

- (Exam Topic 5)

You have an Azure subscription.

You need to deploy an Azure Kubernetes Service (AKS) solution that will use Windows Server 2019 nodes.

The solution must meet the following requirements:

Minimize the time it takes to provision compute resources during scale-out operations. Support autoscaling of Windows Server containers.

Which scaling option should you recommend?

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

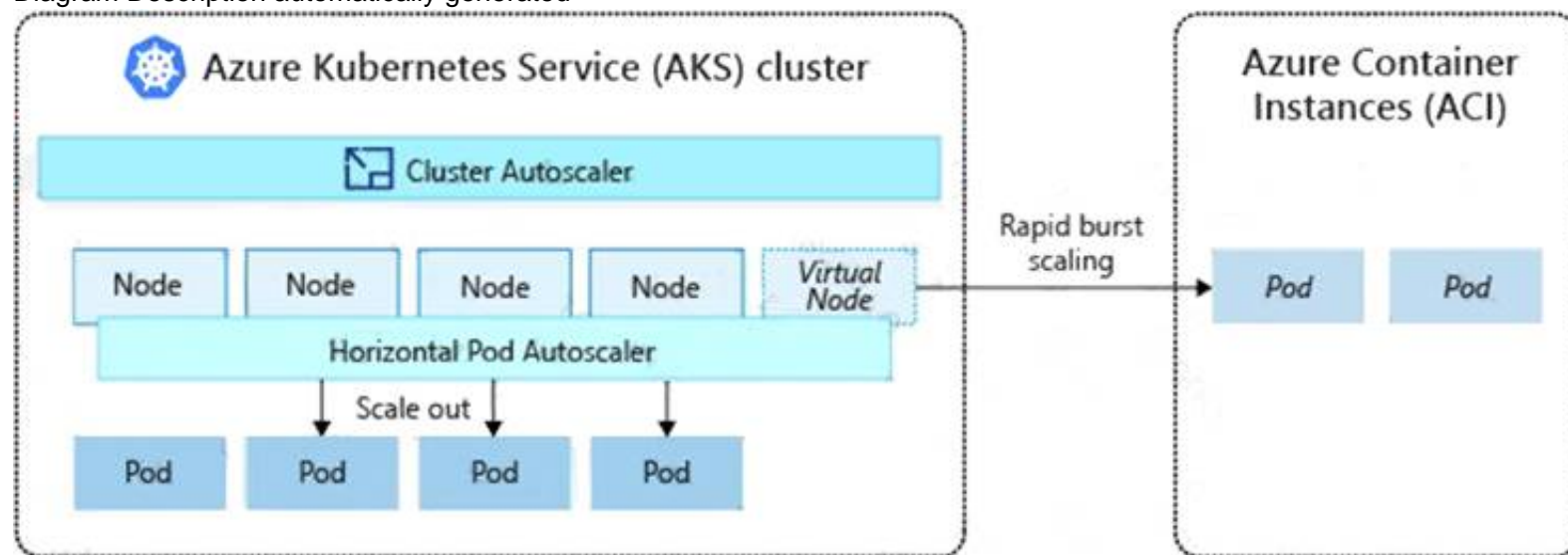
**Answer: D**

**Explanation:**

Azure Container Instances (ACI) lets you quickly deploy container instances without additional infrastructure overhead. When you connect with AKS, ACI becomes a secured, logical extension of your AKS cluster. The virtual nodes component, which is based on Virtual Kubelet, is installed in your AKS cluster that presents ACI as a virtual Kubernetes node. Kubernetes can then schedule pods that run as ACI instances through virtual nodes, not as pods on VM nodes directly in your AKS cluster.

Your application requires no modification to use virtual nodes. Deployments can scale across AKS and ACI and with no delay as cluster autoscaler deploys new nodes in your AKS cluster.

Diagram Description automatically generated



Note: AKS clusters can scale in one of two ways:

> The cluster autoscaler watches for pods that can't be scheduled on nodes because of resource constraints. The cluster then automatically increases the number of nodes.

> The horizontal pod autoscaler uses the Metrics Server in a Kubernetes cluster to monitor the resource demand of pods. If an application needs more resources, the number of pods is automatically increased to meet the demand.

Reference:

<https://docs.microsoft.com/en-us/azure/aks/concepts-scale5>

**NEW QUESTION 244**

- (Exam Topic 5)

You have an Azure subscription that contains an Azure SQL database. You plan to use Azure reservations on the Azure SQL database.

To which resource type will the reservation discount be applied?

- A. vCore compute
- B. DTU compute
- C. Storage
- D. License

**Answer: A**

**Explanation:**

Quantity: The amount of compute resources being purchased within the capacity reservation. The quantity is a number of vCores in the selected Azure region and Performance tier that are being reserved and will get the billing discount. For example, if you run or plan to run multiple databases with the total compute capacity of Gen5 16 vCores in the East US region, then you would specify the quantity as 16 to maximize the benefit for all the databases.

Reference:

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

**NEW QUESTION 247**

- (Exam Topic 5)

You have an Azure App Service web app named Webapp1 that connects to an Azure SQL database named DB1. Webapp1 and DB1 are deployed to the East US Azure region.

You need to ensure that all the traffic between Webapp1 and DB1 is sent via a private connection. What should you do? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



## Answer Area

Create a virtual network that contains at least:

- 1 subnet
- 2 subnets
- 3 subnets

From the virtual network, configure name resolution to use:

- A private DNS zone
- A public DNS zone
- The Azure DNS Private Resolver

- A. Mastered  
 B. Not Mastered

Answer: A

Explanation:

## Answer Area

Create a virtual network that contains at least:

- 1 subnet
- 2 subnets
- 3 subnets

From the virtual network, configure name resolution to use:

- A private DNS zone
- A public DNS zone
- The Azure DNS Private Resolver

## NEW QUESTION 250

- (Exam Topic 5)

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

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

Your company plans to deploy various Azure App Service instances that will use Azure SQL databases. The App Service instances will be deployed at the same time as the Azure SQL databases.

The company has a regulatory requirement to deploy the App Service instances only to specific Azure regions. The resources for the App Service instances must reside in the same region.

You need to recommend a solution to meet the regulatory requirement.

Solution: You recommend using an Azure Policy initiative to enforce the location of resource groups. Does this meet the goal?

- A. Yes  
 B. No

Answer: B

Explanation:

This solution does not meet the goal because an Azure Policy initiative can only enforce the location of resources, not resource groups. Resource groups are not a resource type that can be targeted by Azure Policy<sup>1</sup>. To enforce the location of resource groups, you need to use Azure Resource Manager templates<sup>2</sup> or Azure PowerShell<sup>3</sup> to create them in the desired regions.

References:

1: Understand scope in Azure Policy 2: Create resource groups with Azure Resource Manager templates 3: Create resource groups with Azure PowerShell

## NEW QUESTION 251

- (Exam Topic 5)

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

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

Your company has deployed several virtual machines (VMs) on-premises and to Azure. Azure ExpressRoute has been deployed and configured for on-premises to Azure connectivity.

Several VMs are exhibiting network connectivity issues.

You need to analyze the network traffic to determine whether packets are being allowed or denied to the VMs. Solution: Use the Azure Advisor to analyze the network traffic.

Does the solution meet the goal?

- A. Yes  
 B. No

Answer: B

Explanation:

Instead use Azure Network Watcher to run IP flow verify to analyze the network traffic.

Note: 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>

#### NEW QUESTION 252

- (Exam Topic 5)

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

**Answer:** D

#### Explanation:

Azure SQL Database elastic pools are a simple, cost-effective solution for managing and scaling multiple databases that have varying and unpredictable usage demands. The databases in an elastic pool are on a single server and share a set number of resources at a set price. Elastic pools in Azure SQL Database enable SaaS developers to optimize the price performance for a group of databases within a prescribed budget while delivering performance elasticity for each database. Guaranteed 99.995 percent uptime for SQL Database Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/elastic-pool-overview> <https://azure.microsoft.com/en-us/pricing/details/sql-database/elastic/>

<https://www.azure.cn/en-us/support/sla/virtual-machines/>

<https://techcommunity.microsoft.com/t5/azure-sql/optimize-price-performance-with-compute-auto-scaling-in-az>

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