

Exam Questions AZ-305

Designing Microsoft Azure Infrastructure Solutions

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



NEW QUESTION 1

- (Exam Topic 1)

How should the migrated databases DB1 and DB2 be implemented in Azure?

Database:

| | |
|------------------------------------|---|
| | ▼ |
| A single Azure SQL database | |
| Azure SQL Managed Instance | |
| An Azure SQL Database elastic pool | |

Service tier:

| | |
|-------------------|---|
| | ▼ |
| Hyperscale | |
| Business Critical | |
| General Purpose | |

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Table Description automatically generated

Box 1: SQL Managed Instance

Scenario: Once migrated to Azure, DB1 and DB2 must meet the following requirements:

- > Maintain availability if two availability zones in the local Azure region fail.
- > Fail over automatically.
- > Minimize I/O latency.

The auto-failover groups feature allows you to manage the replication and failover of a group of databases on a server or all databases in a managed instance to another region. It is a declarative abstraction on top of the existing active geo-replication feature, designed to simplify deployment and management of geo-replicated databases at scale. You can initiate a geo-failover manually or you can delegate it to the Azure service based on a user-defined policy. The latter option allows you to automatically recover multiple related databases in a secondary region after a catastrophic failure or other unplanned event that results in full or partial loss of the SQL Database or SQL Managed Instance availability in the primary region.

Box 2: Business critical

SQL Managed Instance is available in two service tiers:

General purpose: Designed for applications with typical performance and I/O latency requirements. Business critical: Designed for applications with low I/O latency requirements and minimal impact of underlying maintenance operations on the workload.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/auto-failover-group-overview> <https://docs.microsoft.com/en-us/azure/azure-sql/managed-instance/sql-managed-instance-paas-overview>

NEW QUESTION 2

- (Exam Topic 1)

You 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 3

- (Exam Topic 1)

You plan to migrate DB1 and DB2 to Azure.

You need to ensure that the Azure database and the service tier meet the resiliency and business requirements. What should you configure? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Database:

- A single Azure SQL database
- Azure SQL Managed Instance
- An Azure SQL Database elastic pool

Service tier:

- Hyperscale
- Business Critical
- General Purpose

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Database:

- A single Azure SQL database
- Azure SQL Managed Instance
- An Azure SQL Database elastic pool

Service tier:

- Hyperscale
- Business Critical
- General Purpose

NEW QUESTION 4

- (Exam Topic 2)

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

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

Answer: D

Explanation:

Before you upload a Windows virtual machine (VM) from on-premises to Azure, you must prepare the virtual hard disk (VHD or VHDX).

Scenario: WebApp1 has a web tier that uses Microsoft Internet Information Services (IIS) and a database tier that runs Microsoft SQL Server 2016. The web tier and the database tier are deployed to virtual machines that run on Hyper-V.

Reference:

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/prepare-for-upload-vhd-image>

NEW QUESTION 5

- (Exam Topic 2)

You need to recommend a data storage strategy for WebApp1. What should you include in the recommendation?

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

Answer: B

NEW QUESTION 6

- (Exam Topic 3)

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

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

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

Answer: A

NEW QUESTION 7

- (Exam Topic 3)

You need to recommend a solution 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 | Answer Area |
|-------------------------|------------------------------|
| Azure Blob Storage | Azure subscription: Service |
| Azure Data Box | On-premises network: Service |
| Azure Data Box Gateway | |
| Azure Data Lake Storage | |
| Azure File Sync | |
| Azure Files | |

- 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 8

- (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 9

- (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 10

- (Exam Topic 5)

You have an Azure subscription that contains a Basic Azure virtual WAN named VirtualWAN1 and the virtual hubs shown in the following table.

| Name | Azure region |
|------|--------------|
| Hub1 | US East |
| Hub2 | US West |

You have an ExpressRoute circuit in the US East region.

You need to create an ExpressRoute association to VirtualWAN1. What should you do first?

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

Answer: A

Explanation:

US East and US West are in the same geopolitical region so there is no need for enabling ExpressRoute premium add-on <https://docs.microsoft.com/en-us/azure/virtual-wan/virtual-wan-about#basicstandard>

The current config of virtual WAN is only Basic as given, so it can connect to only site to site VPN, to connect to express route it needs to be upgraded from basic to standard.

<https://docs.microsoft.com/en-us/azure/virtual-wan/virtual-wan-about>

<https://docs.microsoft.com/en-us/azure/virtual-wan/virtual-wan-about>

NEW QUESTION 10

- (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 15

- (Exam Topic 5)

You have an Azure subscription.

You need to recommend an Azure Kubernetes service (AKS) solution that will use Linux nodes. The solution must meet the following requirements:

- Minimize the time it takes to provision compute resources during scale-out operations.
- Support autoscaling of Linux containers.
- Minimize administrative effort.

Which scaling option should you recommend?

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

Answer: B

Explanation:

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

NEW QUESTION 17

- (Exam Topic 5)

You need to design an architecture to capture the creation of users and the assignment of roles. The captured data must be stored in Azure Cosmos DB.

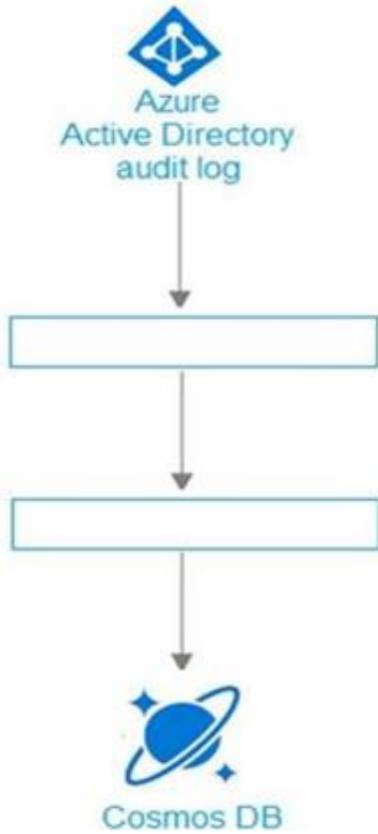
Which Azure services should you include in the design? To answer, drag the appropriate services to the correct targets. Each service may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Azure Services

Answer Area

- Azure Event Grid
- Azure Event Hubs
- Azure Functions
- Azure Log Analytics
- Azure Notification Hubs



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Diagram Description automatically generated

* 1. AAD audit log -> Event Hub (other two choices, LAW, storage, but not available in this question) <https://docs.microsoft.com/en-us/azure/active-directory/reports-monitoring/tutorial-azure-monitor-stream-logs-t>

* 2. Azure function has the Event hub trigger and Cosmos output binding

* a. Event Hub trigger for function

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-bindings-event-hubs-trigger?tabs=csharp>

NEW QUESTION 22

- (Exam Topic 5)

You need to recommend a solution for the App1 maintenance task. The solution must minimize costs. What should you include in the recommendation?

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

Answer: C

Explanation:

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

NEW QUESTION 27

- (Exam Topic 5)

You have an Azure subscription that contains a Basic Azure virtual WAN named VirtualWAN1 and the virtual hubs shown in the following table.

| Name | Azure region |
|------|--------------|
| Hub1 | US East |
| Hub2 | US West |

You have an ExpressRoute circuit in the US East region.

You need to create an ExpressRoute association to VirtualWAN1. What should you do first?

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

Answer: A

Explanation:

US East and US West are in the same geopolitical region so there is no need for enabling ExpressRoute premium add-on <https://docs.microsoft.com/en-us/azure/virtual-wan/virtual-wan-about#basicstandard>

The current config of virtual WAN is only Basic as given, so it can connect to only site to site VPN, to connect to express route it needs to be upgraded from basic

to standard.
<https://docs.microsoft.com/en-us/azure/virtual-wan/virtual-wan-about>
<https://docs.microsoft.com/en-us/azure/virtual-wan/virtual-wan-about>

NEW QUESTION 29

- (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 32

- (Exam Topic 5)

You have .NET web service named service1 that has the following requirements.

- > Must read and write to the local file system.
- > Must write to the Windows Application event log.

You need to recommend a solution to host Service1 in Azure.

The solution must meet the following requirements:

- > Minimize maintenance overhead.
- > Minimize costs.

What should you include in the recommendation?

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

Answer: A

Explanation:

<https://social.msdn.microsoft.com/Forums/vstudio/en-US/294b9e3e-e89c-4095-b8d0-ee1646e77268/writing-to-l>

NEW QUESTION 33

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

Answer: D

Explanation:

General Purpose / Standard prevents data loss through high available storage <https://docs.microsoft.com/en-us/azure/azure-sql/database/service-tier-general-purpose?view=azuresql>. This architectural model relies on high availability and reliability of Azure Blob storage that transparently replicates database files and guarantees no data loss if underlying infrastructure failure happens. General Purpose / Standard support Zone Redundancy For General Purpose tier the zone-redundant configuration is Generally Available in the following regions: <https://docs.microsoft.com/en-us/azure/azure-sql/database/high-availability-sla?view=azuresql&tabs=azure-pow> Without any information regarding the usage pattern, serverless is possible. Other option is D <https://docs.microsoft.com/en-us/azure/azure-sql/database/serverless-tier-overview?view=azuresql>

NEW QUESTION 35

- (Exam Topic 5)

A company has an existing web application that runs on virtual machines (VMs) in Azure.

You need to ensure that the application is protected from SQL injection attempts and uses a layer-7 load balancer. The solution must minimize disruption to the code for the existing web application.

What should you recommend? To answer, drag the appropriate values to the correct items. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

| Values | Answer Area | |
|--------------------------------|---------------|----------------------|
| Web Application Firewall (WAF) | Item | Value |
| Azure Application Gateway | Azure service | <input type="text"/> |
| Azure Load Balancer | Feature | <input type="text"/> |
| Azure Traffic Manager | | |
| SSL offloading | | |
| URL-based content routing | | |

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Graphical user interface, text, application Description automatically generated

Box 1: Azure Application Gateway

Azure Application Gateway provides an application delivery controller (ADC) as a service. It offers various layer 7 load-balancing capabilities for your applications.

Box 2: Web Application Firewall (WAF)

Application Gateway web application firewall (WAF) protects web applications from common vulnerabilities and exploits.

This is done through rules that are defined based on the OWASP core rule sets 3.0 or 2.2.9.

There are rules that detects SQL injection attacks. References:

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

NEW QUESTION 39

- (Exam Topic 5)

Your company has offices in New York City, Sydney, Paris, and Johannesburg. The company has an Azure subscription.

You plan to deploy a new Azure networking solution that meets the following requirements:

- Connects to ExpressRoute circuits in the Azure regions of East US, Southeast Asia, North Europe, and South Africa
- Minimizes latency by supporting connections in three regions
- Supports Site-to-Site VPN connections
- Minimizes costs

You need to identify the minimum number of Azure Virtual WAN hubs that you must deploy, and which virtual WAN SKU to use. What should you identify? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Number of Virtual WAN hubs:

Virtual WAN SKU:

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Number of Virtual WAN hubs:

Virtual WAN SKU:

NEW QUESTION 42

- (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:

Request routing configuration:

- 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 45

- (Exam Topic 5)

A company plans to implement an HTTP-based API to support a web app. The web app allows customers to check the status of their orders. The API must meet the following requirements:

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

You need to recommend configuration options.

What should you recommend? To answer, configure the appropriate options in the dialog box in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

| Topic | Value |
|--------------------------------|---|
| Allowed authentication methods | <div style="border: 1px solid gray; padding: 2px;"> <div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div style="padding: 2px;"> <p>All methods</p> <p>GET only</p> <p>GET and POST only</p> <p>GET, POST, and OPTIONS only</p> </div> </div> |
| Authorization level | <div style="border: 1px solid gray; padding: 2px;"> <div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div style="padding: 2px;"> <p>Function</p> <p>Anonymous</p> <p>Admin</p> </div> </div> |

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Graphical user interface, table Description automatically generated

Allowed authentication methods: GET only Authorization level: Anonymous

The option is Allow Anonymous requests. This option turns on authentication and authorization in App Service, but defers authorization decisions to your application code. For authenticated requests, App Service also passes along authentication information in the HTTP headers.

This option provides more flexibility in handling anonymous requests. References:

<https://docs.microsoft.com/en-us/azure/app-service/overview-authentication-authorization>

NEW QUESTION 49

- (Exam Topic 5)

You are designing a message application that will run on an on-premises Ubuntu virtual machine. The application will use Azure Storage queues.

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

- > Create and delete queues daily.
- > Be scheduled by using a CRON job.
- > Upload messages every five minutes.

What should developers use to interact with the queues?

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

Answer: D

Explanation:

Reference:

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

NEW QUESTION 54

- (Exam Topic 5)

You are designing an Azure solution.

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

- > HTTPS protocol
- > Round robin routing
- > SSL offloading

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

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

Answer: D

Explanation:

If you are looking for Transport Layer Security (TLS) protocol termination ("SSL offload") or per-HTTP/HTTPS request, application-layer processing, review Application Gateway.

Application Gateway is a layer 7 load balancer, which means it works only with web traffic (HTTP, HTTPS, WebSocket, and HTTP/2). It supports capabilities such as SSL termination, cookie-based session affinity, and round robin for load-balancing traffic. Load Balancer load-balances traffic at layer 4 (TCP or UDP).

References:

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

NEW QUESTION 56

- (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 61

- (Exam Topic 5)

You have an app that generates 50,000 events daily.

You plan to Stream the events to an Azure event hub and use Event Hubs Capture to implement cold path processing Of the events Output Of Event Hubs Capture will be consumed by a reporting system.

You need to identify which type of Azure storage must be provisioned to support Event Hubs Capture, and which inbound data format the reporting system must support.

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

Storage type:

- Azure Data Lake Storage Gen2
- Premium block blobs
- Premium file shares

Data format:

- Apache Parquet
- Avro
- JSON

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Storage type:

- Azure Data Lake Storage Gen2
- Premium block blobs
- Premium file shares

Data format:

- Apache Parquet
- Avro
- JSON

NEW QUESTION 63

- (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 65

- (Exam Topic 5)

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

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

App1 and the data are used on the first day of the month only. The data is not expected to grow more than 3% each year.

The company is rewriting App1 as an Azure web app and plans to migrate all the data to Azure. You need to migrate the data to Azure SQL Database. The solution must minimize costs. Which service tier should you use?

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

Answer: C

Explanation:

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

NEW QUESTION 70

- (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:

Include in the definition:

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Set available effects to:

- DepoyIfNotExists
- 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 73

- (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 75

- (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 77

- (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 78

- (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 79

- (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-s>

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

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

Dynamic User is needed if a user must be automatically granted access on base of its attributes (department, jobtitle, location, etc.)

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

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

NEW QUESTION 81

- (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> <https://docs.microsoft.com/pl-pl/azure/data-factory/tutorial-hybrid-copy-data-tool>

syu31svc 3 months, 4 weeks ago

<https://docs.microsoft.com/en-us/azure/data-factory/create-self-hosted-integration-runtime?tabs=data-factory> "A self-hosted integration runtime can run copy activities between a cloud data store and a data store in a private network"

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

"With Data Factory, you can use the Copy Activity in a data pipeline to move data from both on-premises and cloud source data stores to a centralization data store in the cloud for further analysis"

NEW QUESTION 82

- (Exam Topic 5)

You architect a solution that calculates 3D geometry from height-map data. You have the following requirements:

Perform calculations in Azure.

Each node must communicate data to every other node.

Maximize the number of nodes to calculate multiple scenes as fast as possible. Require the least amount of effort to implement.

You need to recommend a solution.

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

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

Answer: AC

NEW QUESTION 84

- (Exam Topic 5)

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

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

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

- Use the same scaling mechanism as the current deployment.

• Support kubernetes and Azure Container Networking Interface (CNI) networking.

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

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

Answer: AD

NEW QUESTION 85

- (Exam Topic 5)

Your company has two on-premises sites in New York and Los Angeles and Azure virtual networks in the East US Azure region and the West US Azure region.

Each on-premises site has Azure ExpressRoute circuits to both regions.

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

- > Outbound traffic to the Internet from workloads hosted on the virtual networks must be routed through the closest available on-premises site.
- > If an on-premises site fails, traffic from the workloads on the virtual networks to the Internet must reroute automatically to the other site.

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

Answer Area

| | |
|---|--|
| Routing from the virtual networks to the on-premises locations must be configured by using: | <div style="border: 1px solid #ccc; background-color: #f9f9f9; padding: 2px;"> <div style="background-color: #e0e0e0; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <ul style="list-style-type: none"> <li style="padding: 2px;">Azure default routes <li style="padding: 2px;">Border Gateway Protocol (BGP) <li style="padding: 2px;">User-defined routes </div> |
| The automatic routing configuration following a failover must be handled by using: | <div style="border: 1px solid #ccc; background-color: #f9f9f9; padding: 2px;"> <div style="background-color: #e0e0e0; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <ul style="list-style-type: none"> <li style="padding: 2px;">Border Gateway Protocol (BGP) <li style="padding: 2px;">Hot Standby Routing Protocol (HSRP) <li style="padding: 2px;">Virtual Router Redundancy Protocol (VRRP) </div> |

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

An on-premises network gateway can exchange routes with an Azure virtual network gateway using the border gateway protocol (BGP). Using BGP with an Azure virtual network gateway is dependent on the type you selected when you created the gateway. If the type you selected were: ExpressRoute: You must use BGP to advertise on-premises routes to the Microsoft Edge router. You cannot create user-defined routes to force traffic to the ExpressRoute virtual network gateway if you deploy a virtual network gateway deployed as type: ExpressRoute. You can use user-defined routes for forcing traffic from the Express Route to, for example, a Network Virtual Appliance.

<https://docs.microsoft.com/ja-jp/azure/expressroute/designing-for-disaster-recovery-with-expressroute-privatepe> <https://docs.microsoft.com/en-us/azure/expressroute/expressroute-optimize-routing#suboptimal-routing-from-cu>

NEW QUESTION 88

- (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 90

- (Exam Topic 5)

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

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

Answer: A

NEW QUESTION 94

- (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 97

- (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 102

- (Exam Topic 5)

You have the resources shown in the following table.

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

CDB1 hosts a container that stores continuously updated operational data.

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

You need to recommend a solution to analyze the data without affecting the performance of the operational data store.

What should you include in the recommendation?

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

Answer: D

NEW QUESTION 106

- (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

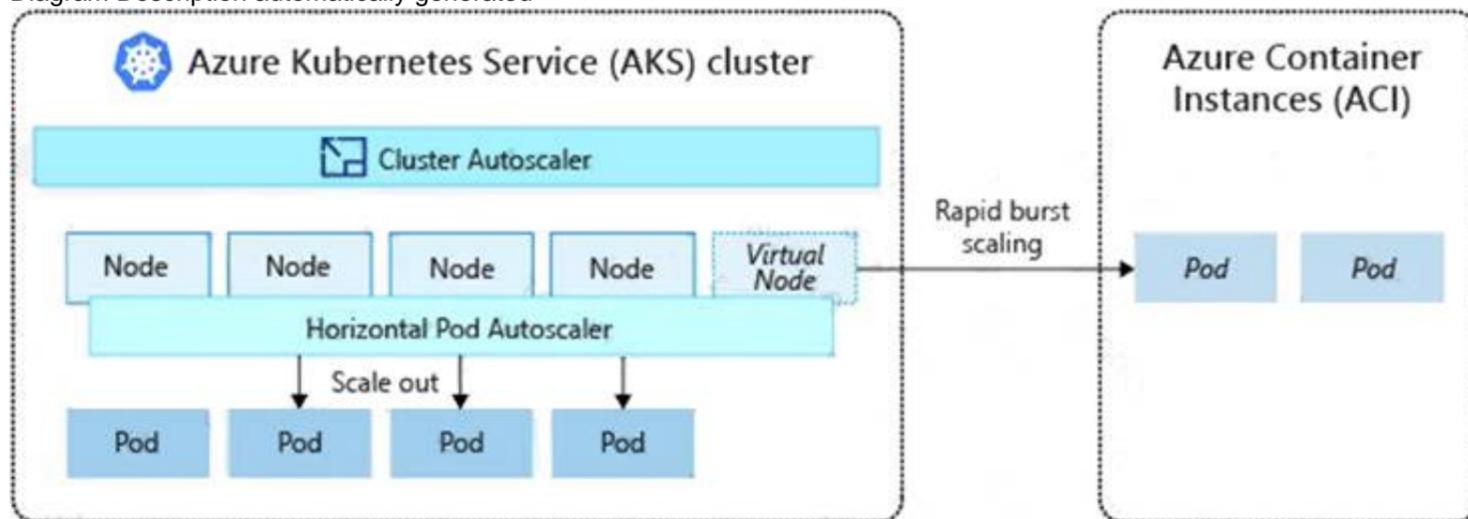
Answer: D

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 111

- (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 Policy¹. To enforce the location of resource groups, you need to use Azure Resource Manager templates² or Azure PowerShell³ 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 112

- (Exam Topic 5)

Your on-premises datacenter contains a server that runs Linux and hosts a Java app named Appl. App1 has the following characteristics:

- App1 is an interactive app that users access by using HTTPS connections.
- The number of connections to App1 changes significantly throughout the day.
- App1 runs multiple concurrent instances.
- App1 requires major changes to run in a container. You plan to migrate App1 to Azure.

You need to recommend a compute solution for Appl. The solution must meet the following requirements:

- The solution must run multiple instances of Appl.
- The number of instances must be managed automatically depending on the load.
- Administrative effort must be minimized.

What should you include in the recommendation?

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

Answer: C

NEW QUESTION 115

- (Exam Topic 5)

You have an Azure Active Directory (Azure AD) tenant that syncs with an on-premises Active Directory domain.

Your company has a line-of-business (LOB) application that was developed internally.

You need to implement SAML single sign-on (SSO) and enforce multi-factor authentication (MFA) when users attempt to access the application from an unknown location.

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

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

Answer: AD

NEW QUESTION 118

- (Exam Topic 5)

You are designing a data pipeline that will integrate large amounts of data from multiple on-premises Microsoft SQL Server databases into an analytics platform in Azure. The pipeline will include the following actions:

- Database updates will be exported periodically into a staging area in Azure Blob storage.
- Data from the blob storage will be cleansed and transformed by using a highly parallelized load process.
- The transformed data will be loaded to a data warehouse.
- Each batch of updates will be used to refresh an online analytical processing (OLAP) model in a managed serving layer.
- The managed serving layer will be used by thousands of end users. You need to implement the data warehouse and serving layers.

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

Answer Area

To implement the data warehouse:

- An Apache Spark pool in Azure Synapse Analytics
- An Azure Synapse Analytics dedicated SQL pool
- Azure Data Lake Analytics

To implement the serving layer:

- Azure Analysis Services
- An Apache Spark pool Azure Synapse Analytics
- An Azure Synapse Analytics dedicated SQL pool

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

To implement the data warehouse:

- An Apache Spark pool in Azure Synapse Analytics
- An Azure Synapse Analytics dedicated SQL pool
- Azure Data Lake Analytics

To implement the serving layer:

- Azure Analysis Services
- An Apache Spark pool Azure Synapse Analytics
- An Azure Synapse Analytics dedicated SQL pool

NEW QUESTION 121

- (Exam Topic 5)

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

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

App1 requires read permissions to access the calendar of the signed-in user. App2 requires write permissions to access the calendar of the signed-in user.

You need to recommend an authentication and authorization solution for the apps. The solution must meet the following requirements:

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

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

Answer Area

Authentication:

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

Authorization:

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Graphical user interface, text, application Description automatically generated

NEW QUESTION 126

- (Exam Topic 5)

Your company has the divisions shown in the following table.

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

You plan to deploy a custom application to each subscription. The application will contain the following: > A resource group

- > An Azure web app
- > Custom role assignments
- > An Azure Cosmos DB account

You need to use Azure Blueprints to deploy the application to each subscription.

What is the minimum number of objects required to deploy the application? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Management groups:

Blueprint definitions:

Blueprint assignments:

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: 2
 One management group for East, and one for West.
 When creating a blueprint definition, you'll define where the blueprint is saved. Blueprints can be saved to a management group or subscription that you have Contributor access to. If the location is a management group, the blueprint is available to assign to any child subscription of that management group.

Box 2: 2
 Box 3: 4
 One assignment for each subscription.
 "Assigning a blueprint definition to a management group means the assignment object exists at the management group. The deployment of artifacts still targets a subscription. To perform a management group assignment, the Create Or Update REST API must be used and the request body must include a value for properties.scope to define the target subscription."
<https://docs.microsoft.com/en-us/azure/governance/blueprints/overview#blueprint-assignment>

NEW QUESTION 129

- (Exam Topic 5)
 You plan to deploy an Azure SQL database that will store Personally Identifiable Information (PII). You need to ensure that only privileged users can view the PII. What should you include in the solution?

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

Answer: C

NEW QUESTION 133

- (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 the Regulatory compliance dashboard in Azure Security Center. Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

The Regulatory compliance dashboard in Azure Security Center is not used for regional compliance. Note: Instead Azure Resource Policy Definitions can be used which can be applied to a specific Resource Group with the App Service instances.
 Note 2: In the Azure Security Center regulatory compliance blade, you can get an overview of key portions of your compliance posture with respect to a set of

supported standards. Currently supported standards are Azure CIS, PCI DSS 3.2, ISO 27001, and SOC TSP.

Reference:

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

<https://azure.microsoft.com/en-us/blog/regulatory-compliance-dashboard-in-azure-security-center-now-available>

NEW QUESTION 134

- (Exam Topic 5)

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

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

App1 and the data are used on the first day of the month only. The data is not expected to grow more than 3% each year.

The company is rewriting App1 as an Azure web app and plans to migrate all the data to Azure. You need to migrate the data to Azure SQL Database. The solution must minimize costs. Which service tier should you use?

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

Answer: B

Explanation:

DTU-based Standard supports databases up to 1 TB in size. Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/service-tiers-dtu>

NEW QUESTION 139

- (Exam Topic 5)

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

You need to recommend a solution to ensure that users sign in by using their Azure AD account and Azure Multi-Factor Authentication (MFA) when they connect to App1 from the internet.

Which three Azure services should you recommend be deployed and configured in sequence? To answer, move the appropriate services from the list of services to the answer area and arrange them in the correct order.

Services

Answer Area

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



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

AD Application Proxy

AD Enterprise Application AD Conditional access policy

<https://thesleepyadmins.com/2019/02/>

NEW QUESTION 144

- (Exam Topic 5)

You have 100 servers that run Windows Server 2012 R2 and host Microsoft SQL Server 2012 R2 instances. The instances host databases that have the following

characteristics:

- > The largest database is currently 3 TB. None of the databases will ever exceed 4 TB.
- > Stored procedures are implemented by using CLR.

You plan to move all the data from SQL Server to Azure.

You need to recommend an Azure service to host the databases. The solution must meet the following requirements:

- > Whenever possible, minimize management overhead for the migrated databases.
- > Minimize the number of database changes required to facilitate the migration.
- > Ensure that users can authenticate by using their Active Directory credentials.

What should you include in the recommendation?

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

Answer: B

Explanation:

References:

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

SQL Managed Instance allows existing SQL Server customers to lift and shift their on-premises applications to the cloud with minimal application and database changes. At the same time, SQL Managed Instance preserves all PaaS capabilities (automatic patching and version updates, automated backups, high availability) that drastically reduce management overhead and TCO.

<https://docs.microsoft.com/en-us/azure/azure-sql/managed-instance/transact-sql-tsql-differences-sql-server#clr> <https://docs.microsoft.com/en-gb/azure/azure-sql/database/transact-sql-tsql-differences-sql-server#transact-sql-s>

NEW QUESTION 145

- (Exam Topic 5)

Your company develops Azure applications.

You need to recommend a solution for the deployment of Azure subscriptions. The solution must meet the following requirements:

What should you include in the recommendation?

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

Answer: D

Explanation:

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

Reference:

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

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

NEW QUESTION 149

- (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 150

- (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 West Europe Azure region,

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

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

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

Answer Area

Storage Account type:

| |
|-----------------------------|
| Premium block blobs |
| Standard general-purpose v1 |
| Standard general-purpose v2 |

Redundancy:

| |
|--|
| 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:

Account Type: StorageV2

Replication solution: Zone-redundant storage (ZRS) <https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy>

<https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy#supported-azure-storage-services> <https://docs.microsoft.com/en-us/azure/storage/common/storage-account-overview#types-of-storage-accounts>

Data must be available if a single Azure datacenter fails. It means the storage account must support ZRS replication. Also, solution should support storage tiers.

Only General-purpose V2 supports ZRS and storage tiers.

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

NEW QUESTION 155

- (Exam Topic 5)

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

You have an on-premises file server named Server1 that runs Windows Server 2016. Server1 stores 500 GB of company files.

You need to store a copy of the company files from Server 1 in store1.

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

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

Answer: DE

Explanation:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-import-export-data-from-blobs> <https://docs.microsoft.com/en-us/answers/questions/311113/fastest-method-to-copy-500gb-table-from-on-premise>

NEW QUESTION 157

- (Exam Topic 5)

You plan to deploy an app that will use an Azure Storage account.

You need to deploy the storage account. The solution must meet the following requirements:

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

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

Answer: B

NEW QUESTION 160

- (Exam Topic 5)

You have an Azure subscription that contains the SQL servers shown in the following table.

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

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

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

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

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

Answer Area

| Statements | Yes | No |
|---|-----------------------|-----------------------|
| When you enable auditing for SQLdb1, you can store the audit information to storage1. | <input type="radio"/> | <input type="radio"/> |
| When you enable auditing for SQLdb2, you can store the audit information to storage2. | <input type="radio"/> | <input type="radio"/> |
| When you enable auditing for SQLdb3, you can store the audit information to storage2. | <input type="radio"/> | <input type="radio"/> |

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: Yes

Be sure that the destination is in the same region as your database and server. Box 2: No

Box 3: Yes

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-auditing> Reference:

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

[https://docs.microsoft.com/en-us/previous-versions/azure/dn741340\(v=azure.100\)?redirectedfrom=MSDN](https://docs.microsoft.com/en-us/previous-versions/azure/dn741340(v=azure.100)?redirectedfrom=MSDN)

NEW QUESTION 164

- (Exam Topic 5)

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

- > Maximize data throughput.
- > Prevent the modification of data for one year.
- > Minimize latency for read and write operations.

Which Azure Storage account type and storage service should you recommend? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Storage account type:

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

Storage service:

| | |
|-------|---|
| | ▼ |
| Blob | |
| File | |
| Table | |

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: BlockBlobStorage

Block Blob is a premium storage account type for block blobs and append blobs. Recommended for scenarios with high transactions rates, or scenarios that use smaller objects or require consistently low storage latency.

Box 2: Blob

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

Reference:

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

NEW QUESTION 166

- (Exam Topic 5)

Your company has the infrastructure shown in the following table.

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

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

Server1 runs an application named Appl that uses LDAP queries to verify user identities in the on-premises Active Directory domain.

You plan to migrate Server1 to a virtual machine in Subscription1.

A company security policy states that the virtual machines and services deployed to Subscription1 must be prevented from accessing the on-premises network.

You need to recommend a solution to ensure that Appl continues to function after the migration. The solution must meet the security policy.

What should you include in the recommendation?

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

Answer: A

Explanation:

<https://docs.microsoft.com/en-us/azure/active-directory-domain-services/overview>

Azure Active Directory Domain Services (Azure AD DS) provides managed domain services such as domain join, group policy, lightweight directory access protocol (LDAP), and Kerberos/NTLM authentication

Azure AD Domain Services (Azure AD DS) - This one could work since AAD DS will bring in the existing accounts from Azure AD which in turn are synchronised from on-premise AD over AD connect. However, you would probably need to reconfigure the app and update the LDAP connection

Azure Active Directory (Azure AD) supports LDAP Authentication via Azure AD Domain Services (AD DS). <https://docs.microsoft.com/en-us/azure/active-directory/fundamentals/auth-ldap>

<https://docs.microsoft.com/en-us/azure/active-directory-domain-services/synchronization>

NEW QUESTION 167

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