

AZ-305 Dumps

Designing Microsoft Azure Infrastructure Solutions

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



NEW QUESTION 1

- (Exam Topic 5)

You need to deploy resources to host a stateless web app in an Azure subscription. The solution must meet the following requirements:

- Provide access to the full .NET framework.
- Provide redundancy if an Azure region fails.
- Grant administrators access to the operating system to install custom application dependencies. Solution: You deploy a Azure virtual machine scale set that uses autoscaling.

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Instead, you should deploy two Azure virtual machines to two Azure regions, and you create a Traffic Manager profile.

NEW QUESTION 2

- (Exam Topic 5)

You need to design a solution that will execute custom C# code in response to an event routed to Azure Event Grid. The solution must meet the following requirements:

- The executed code must be able to access the private IP address of a Microsoft SQL Server instance that runs on an Azure virtual machine. Costs must be minimized.

What should you include in the solution?

- A. Azure Logic Apps in the integrated service environment
- B. Azure Functions in the Dedicated plan and the Basic Azure App Service plan
- C. Azure Logic Apps in the Consumption plan
- D. Azure Functions in the Consumption plan

Answer: D

Explanation:

When you create a function app in Azure, you must choose a hosting plan for your app. There are three basic hosting plans available for Azure Functions: Consumption plan, Premium plan, and Dedicated (App Service) plan.

For the Consumption plan, you don't have to pay for idle VMs or reserve capacity in advance. Connect to private endpoints with Azure Functions

As enterprises continue to adopt serverless (and Platform-as-a-Service, or PaaS) solutions, they often need a way to integrate with existing resources on a virtual network. These existing resources could be databases, file storage, message queues or event streams, or REST APIs.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-scale> <https://techcommunity.microsoft.com/t5/azure-functions/connect-to-private-endpoints-with-azure-functions/ba-p> Reference:

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-scale#hosting-plans-comparison>

NEW QUESTION 3

- (Exam Topic 5)

You plan to migrate data to Azure.

The IT department at your company identifies the following requirements:

- The storage must support 1 PB of data.
- The data must be stored in blob storage.
- The storage must support three levels of subfolders.
- The storage must support access control lists (ACLs).

You need to meet the requirements. What should you use?

- A. a premium storage account that is configured for block blobs
- B. a general purpose v2 storage account that has hierarchical namespace enabled
- C. a premium storage account that is configured for page blobs
- D. a premium storage account that is configured for files shares and supports large file shares

Answer: B

Explanation:

Microsoft recommends that you use a GPv2 storage account for most scenarios. It supports up to 5 PB, and blob storage including Data Lake storage.

Note: A key mechanism that allows Azure Data Lake Storage Gen2 to provide file system performance at object storage scale and prices is the addition of a hierarchical namespace. This allows the collection of objects/files within an account to be organized into a hierarchy of directories and nested subdirectories in the same way that the file system on your computer is organized. With a hierarchical namespace enabled, a storage account becomes capable of providing the scalability and cost-effectiveness of object storage, with file system semantics that are familiar to analytics engines and frameworks.

References:

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

NEW QUESTION 4

- (Exam Topic 5)

You are designing an application that will use Azure Linux virtual machines to analyze video files. The files will be uploaded from corporate offices that connect to Azure by using ExpressRoute.

You plan to provision an Azure Storage account to host the files.

You need to ensure that the storage account meets the following requirements:

- Supports video files of up to 7 TB
 - Provides the highest availability possible
 - Ensures that storage is optimized for the large video files
 - Ensures that files from the on-premises network are uploaded by using ExpressRoute
- How should you configure the storage account? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Answer Area

Storage account type:

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

Data redundancy:

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

Networking:

- Azure Route Server
- A private endpoint
- A service endpoint

These are the selections for Data redundancy

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Storage account type:

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

Data redundancy:

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

Networking:

- Azure Route Server
- A private endpoint
- A service endpoint

These are the selections for Data redundancy

NEW QUESTION 5

- (Exam Topic 5)

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

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

Answer: D

NEW QUESTION 6

- (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 need to deploy resources to host a stateless web app in an Azure subscription. The solution must meet the following requirements:

- > Provide access to the full .NET framework.
- > Provide redundancy if an Azure region fails.
- > Grant administrators access to the operating system to install custom application dependencies.

Solution: You deploy two Azure virtual machines to two Azure regions, and you create a Traffic Manager profile.

Does this meet the goal?

- A. Yes
- B. No

Answer: A

Explanation:

Azure Traffic Manager is a DNS-based traffic load balancer that enables you to distribute traffic optimally to services across global Azure regions, while providing high availability and responsiveness.

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

NEW QUESTION 7

- (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 8

- (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 9

- (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 10

- (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:

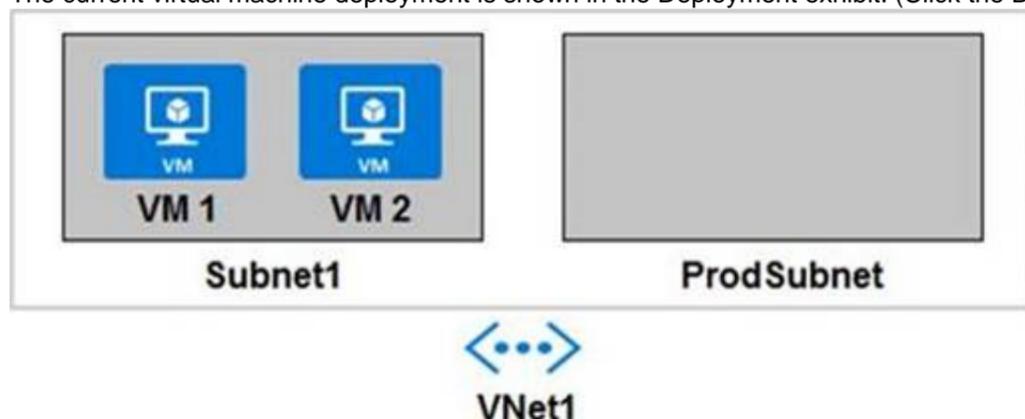
<https://docs.microsoft.com/en-us/azure/azure-sql/database/reserved-capacity-overview>

NEW QUESTION 10

- (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 15

- (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 18

- (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 19

- (Exam Topic 5)

You plan to archive 10 TB of on-premises data files to Azure.

You need to recommend a data archival solution. The solution must minimize the cost of storing the data files. Which Azure Storage account type should you include in the recommendation?

- A. Standard StorageV2 (general purpose v2)
- B. Standard Storage (general purpose v1)
- C. Premium StorageV2 (general purpose v2)
- D. Premium Storage (general purpose v1)

Answer: A

Explanation:

Standard StorageV2 supports the Archive access tier, which would be the cheapest solution. Reference:
<https://docs.microsoft.com/en-us/azure/storage/common/storage-introduction>

NEW QUESTION 23

- (Exam Topic 5)

You need to deploy resources to host a stateless web app in an Azure subscription. The solution must meet the following requirements:

- Provide access to the full .NET framework.
- Provide redundancy if an Azure region fails.
- Grant administrators access to the operating system to install custom application dependencies.

Solution: You deploy an Azure virtual machine to two Azure regions, and you deploy an Azure Application Gateway.

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

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

NEW QUESTION 24

- (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 AS1 to analyze the operational data dairy.

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 Data Factory with Azure Cosmos DB and Azure Synapse Analytics connectors
- B. Azure Synapse Analytics with PolyBase data loading

C. Azure Cosmos DB change feed

Answer: B

NEW QUESTION 29

- (Exam Topic 5)

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

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

Answer: A

Explanation:

Reference:

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

This allows for limited-time fine grained access control to resources. So you can generate URL, specify duration (for month of April) and disseminate URL to 10 team members. On May 1, the SAS token is automatically invalidated, denying team members continued access.

NEW QUESTION 33

- (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 34

- (Exam Topic 5)

You have an Azure subscription.

You need to deploy 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 Kubelet
- B. cluster autoscaler
- C. horizontal pod autoscaler
- D. AKS virtual nodes

Answer: D

Explanation:

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

NEW QUESTION 38

- (Exam Topic 5)

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

You have the named locations shown in the following table.

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

You have the users shown in the following table.

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

You plan to deploy the Conditional Access policies shown in the following table.

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

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 |
|---|-----------------------|-----------------------|
| To ensure that the conditions in CA1 can be evaluated, you must enforce an Azure Active Directory (Azure AD) Identity Protection user risk policy . | <input type="radio"/> | <input type="radio"/> |
| To ensure that the conditions in CA2 can be evaluated, you must enforce an Azure Active Directory (Azure AD) Identity Protection sign-in risk policy. | <input type="radio"/> | <input type="radio"/> |
| To ensure that the conditions in CA3 can be evaluated, you must deploy Microsoft Endpoint Manager. | <input type="radio"/> | <input type="radio"/> |

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

A screenshot of a computer Description automatically generated with medium confidence

NEW QUESTION 39

- (Exam Topic 5)

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

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

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

What should you include in the recommendation?

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

Answer: B

Explanation:

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

Reference:

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

NEW QUESTION 42

- (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 46

- (Exam Topic 5)

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

- Prevent new data from being modified for one year.
- Maximize data resiliency.
- Minimize read latency.

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

Answer Area

Storage Account type:

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

Redundancy:

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Storage Account type:

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

Redundancy:

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

NEW QUESTION 47

- (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 48

- (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 49

- (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 54

- (Exam Topic 5)

You need to design an Azure policy that will implement the following functionality:

- For new resources, assign tags and values that match the tags and values of the resource group to which the resources are deployed.
- For existing resources, identify whether the tags and values match the tags and values of the resource group that contains the resources.
- For any non-compliant resources, trigger auto-generated remediation tasks to create missing tags and values. The solution must use the principle of least privilege.

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

Azure Policy effect to use:

Append
EnforceOPAConstraint
EnforceRegoPolicy
Modify

Azure Active Directory (Azure AD) object and RBAC role to use for the remediation tasks:

A managed identity with the Contributor role
A managed identity with the User Access Administrator role
A service principal with the Contributor role
A service principal with the User Access Administrator role

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

Box 1: Modify

Modify is used to add, update, or remove properties or tags on a resource during creation or update. A common example is updating tags on resources such as costCenter. Existing non-compliant resources can be remediated with a remediation task. A single Modify rule can have any number of operations.

Box 2: A managed identity with the Contributor role

> Managed identity

How remediation security works: When Azure Policy runs the template in the deployIfNotExists policy definition, it does so using a managed identity. Azure Policy creates a managed identity for each assignment, but must have details about what roles to grant the managed identity.

> Contributor role

The Contributor role grants the required access to apply tags to any entity. Reference:

<https://docs.microsoft.com/en-us/azure/governance/policy/concepts/effects> <https://docs.microsoft.com/en-us/azure/governance/policy/how-to/remediate-resources>

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/tag-resources> <https://docs.microsoft.com/en-us/azure/governance/policy/concepts/effects#modify>

NEW QUESTION 57

- (Exam Topic 5)

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

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

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

You need to recommend solutions to manage network traffic.

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

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

Answer: CD

Explanation:

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

Reference:

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

NEW QUESTION 61

- (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 66

- (Exam Topic 5)

You need to design a solution that will execute custom C# code in response to an event routed to Azure Event Grid. The solution must meet the following requirements:

- > The executed code must be able to access the private IP address of a Microsoft SQL Server instance that runs on an Azure virtual machine.

Costs must be minimized.

What should you include in the solution?

- A. Azure Logic Apps in the integrated service environment
- B. Azure Functions in the Dedicated plan and the Basic Azure App Service plan
- C. Azure Logic Apps in the Consumption plan
- D. Azure Functions in the Consumption plan

Answer: D

Explanation:

When you create a function app in Azure, you must choose a hosting plan for your app. There are three basic hosting plans available for Azure Functions: Consumption plan, Premium plan, and Dedicated (App Service) plan.

For the Consumption plan, you don't have to pay for idle VMs or reserve capacity in advance. Connect to private endpoints with Azure Functions

As enterprises continue to adopt serverless (and Platform-as-a-Service, or PaaS) solutions, they often need a way to integrate with existing resources on a virtual network. These existing resources could be databases, file storage, message queues or event streams, or REST APIs.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-scale> <https://techcommunity.microsoft.com/t5/azure-functions/connect-to-private-endpoints-with-azure-functions/ba-p>

NEW QUESTION 67

- (Exam Topic 5)

You store web access logs data in Azure Blob storage. You plan to generate monthly reports from the access logs.

You need to recommend an automated process to upload the data to Azure SQL Database every month. What should you include in the recommendation?

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

Answer: A

Explanation:

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

Reference:

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

NEW QUESTION 70

- (Exam Topic 5)

You plan to import data from your on-premises environment to Azure. The data is shown in the following table.

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

What should you recommend using to migrate the data? To answer, drag the appropriate tools to the correct data sources-Each tool may be used once, more than

once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Tools

AzCopy

Azure Cosmos DB Data Migration Tool

Data Management Gateway

Data Migration Assistant

Answer Area

From the SQL Server 2012 database:

From the table in the SQL Server 2014 database:

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

References:

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

NEW QUESTION 71

- (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 72

- (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: D

Explanation:

<https://docs.microsoft.com/bs-cyrl-ba/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 77

- (Exam Topic 5)

You have an on-premises network that uses on IP address space of 172.16.0.0/16 You plan to deploy 25 virtual machines to a new azure subscription.

You identify the following technical requirements.

- > All Azure virtual machines must be placed on the same subnet subnet1.
- > All the Azure virtual machines must be able to communicate with all on premises servers.
- > The servers must be able to communicate between the on-premises network and Azure by using a site to site VPN.

You need to recommend a subnet design that meets the technical requirements.

What should you include in the recommendation? To answer, drag the appropriate network addresses to the correct subnet. Each network address may be used

once, more than once or not at all. You may need to drag the split bar between panes or scroll to view content.
NOTE: Each correct selection is worth one point.

Network Addresses

- 172.16.0.0/16
- 172.16.1.0/28
- 192.168.0.0/24
- 192.168.1.0/28

Answer Area




Subnet1:

Gateway subnet:

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Graphical user interface, application Description automatically generated

NEW QUESTION 79

- (Exam Topic 5)

You have an Azure web app named App1 and an Azure key vault named KV1. App1 stores database connection strings in KV1. App1 performs the following types of requests to KV1:

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

You are evaluating the continuity of service for App1.

You need to identify the following if the Azure region that hosts KV1 becomes unavailable:

- > To where will KV1 fail over?
- > During the failover, which request type will be unavailable?

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

NOTE: Each correct selection is worth one point.

To where will KV1 fail over?

To where will KV1 fail over?
▼

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

During the failover, which request type will be unavailable?

During the failover, which request type will be unavailable?
▼

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Table Description automatically generated

Box 1: A server in the same paired region

The contents of your key vault are replicated within the region and to a secondary region at least 150 miles away, but within the same geography to maintain high durability of your keys and secrets.

Box 2: Delete

During failover, your key vault is in read-only mode. Requests that are supported in this mode are:

- > List certificates
- > Get certificates
- > List secrets
- > Get secrets
- > List keys
- > Get (properties of) keys
- > Encrypt
- > Decrypt
- > Wrap
- > Unwrap
- > Verify
- > Sign
- > Backup

Reference:

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

NEW QUESTION 81

- (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-licenses>

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 the basis 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 86

- (Exam Topic 5)

You are designing a microservices architecture that will be hosted in an Azure Kubernetes Service (AKS) cluster. Apps that will consume the microservices will be hosted on Azure virtual machines. The virtual machines and the AKS cluster will reside on the same virtual network.

You need to design a solution to expose the microservices to the consumer apps. The solution must meet the following requirements:

- Ingress access to the microservices must be restricted to a single private IP address and protected by using mutual TLS authentication.
- The number of incoming microservice calls must be rate-limited.
- Costs must be minimized.

What should you include in the solution?

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

Answer: A

Explanation:

One option is to deploy APIM (API Management) inside the cluster VNet.

The AKS cluster and the applications that consume the microservices might reside within the same VNet, hence there is no reason to expose the cluster publicly as all API traffic will remain within the VNet. For these scenarios, you can deploy API Management into the cluster VNet. API Management Premium tier supports VNet deployment.

Reference:

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

NEW QUESTION 88

- (Exam Topic 5)

You have an Azure subscription that contains a custom application named Application1. The application was developed by an external company named Fabric, Ltd. Developers at Fabrikam were assigned role-based access control (RBAC) permissions to the Application1 components. All users are licensed for the Microsoft 365 E5 plan. You need to recommend a solution to verify whether the Fabric developers still require permissions to Application1. The solution must meet the following requirements.

* To the manager of the developers, send a monthly email message that lists the access permissions to Application1.

* If the manager does not verify access permission, automatically revoke that permission.

* Minimize development effort. What should you recommend?

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

Answer: D

Explanation:

<https://docs.microsoft.com/en-us/azure/active-directory/governance/manage-user-access-with-access-reviews> Azure Active Directory (Azure AD) access reviews enable organizations to efficiently manage group memberships, access to enterprise applications, and role assignments. User's access can be reviewed on a regular basis to make sure only the right people have continued access. Have reviews recur periodically: You can set up recurring access reviews of users at set frequencies such as weekly, monthly, quarterly or annually, and the reviewers will be notified at the start of each review. Reviewers can approve or deny access with a friendly interface and with the help of smart recommendations.

Why are access reviews important?

"Azure AD enables you to collaborate with users from inside your organization and with external users. Users can join groups, invite guests, connect to cloud apps, and work remotely from their work or personal devices. The convenience of using self-service has led to a need for better access management capabilities."

NEW QUESTION 92

- (Exam Topic 5)

You use Azure virtual machines to run a custom application that uses an Azure SQL database on the back end. The IT department at your company recently enabled forced tunneling,

Since the configuration change, developers have noticed degraded performance when they access the database

You need to recommend a solution to minimize latency when accessing the database. The solution must minimize costs

What should you include in the recommendation?

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

Answer: D

Explanation:

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

NEW QUESTION 93

- (Exam Topic 5)

You have an Azure subscription that contains a Windows Virtual Desktop tenant.

You need to recommend a solution to meet the following requirements:

- > Start and stop Windows Virtual Desktop session hosts based on business hours.
- > Scale out Windows Virtual Desktop session hosts when required.
- > Minimize compute costs.

What should you include in the recommendation?

- A. Microsoft Intune
- B. a Windows Virtual Desktop automation task
- C. Azure Automation
- D. Azure Service Health

Answer: C

Explanation:

Reference:

<https://www.ciraltos.com/automatically-start-and-stop-wvd-vms-with-azure-automation/> <https://wvdlogix.net/windows-virtual-desktop-host-pool-automation-2>

<https://getnerdio.com/academy/how-to-optimize-windows-virtual-desktop-wvd-azure-costs-with-event-based-au>

NEW QUESTION 94

- (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 96

- (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>

NEW QUESTION 100

- (Exam Topic 5)

You plan to deploy a network-intensive application to several Azure virtual machines. You need to recommend a solution that meets the following requirements:

- Minimizes the use of the virtual machine processors to transfer data
- Minimizes network latency

Which virtual machine size and feature should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Virtual machine size:

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

Feature:

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Graphical user interface, text, application Description automatically generated

References:

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

NEW QUESTION 101

- (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 106

- (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 109

- (Exam Topic 5)

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

| Name | Type | Performance |
|----------|-------------|-------------|
| storage1 | StorageV2 | Standard |
| storage2 | SrorageV2 | Premium |
| storage3 | BlobStorage | Standard |
| storage4 | FileStorage | Premium |

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

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

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

App1:

Storage1 and storage2 only

Storage1 and storage3 only

Storage1, storage2, and storage3 only

Storage1, storage2, storage3, and storage4

App2:

Storage4 only

Storage1 and storage4 only

Storage1, storage2, and storage4 only

Storage1, storage2, storage3, and storage4

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-account-overview> <https://www.edureka.co/community/40011/different-storage-accounts-there-major-difference-between> <https://insidemstech.com/tag/general-purpose-v2/>
In conclusion the correct answers are: Box1 --> Storage1 and Storage3 only Box2 --> Storage1 and Storage4 only
<https://docs.microsoft.com/en-us/azure/storage/files/storage-how-to-create-file-share?tabs=azure-portal#basics>

NEW QUESTION 110

- (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 114

- (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 117

- (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: D

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 122

- (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 124

- (Exam Topic 5)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.
After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.
You have an Azure Storage account that contains two 1-GB data files named File1 and File2. The data files are set to use the archive access tier. You need to ensure that File1 is accessible immediately when a retrieval request is initiated. Solution: For File1, you set Access tier to Cool. Does this meet the goal?

- A. Yes
- B. No

Answer: A

Explanation:

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

NEW QUESTION 129

- (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 132

- (Exam Topic 5)

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

- > Prevent new data from being modified for one year.
- > Minimize read latency.
- > Maximize data resiliency.

You need to recommend a storage solution for the app.

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

Azure Storage account kind:

| | |
|------------------|---|
| | ▼ |
| StorageV2 | |
| BlobStorage | |
| BlockBlobStorage | |

Replication:

| | |
|--|---|
| | ▼ |
| 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 Description automatically generated

Reference:

<https://docs.microsoft.com/en-us/azure/storage/common/storage-account-overview> <https://docs.microsoft.com/en-us/azure/storage/common/storage-redundancy?toc=/azure/storage/blobs/toc.json>

NEW QUESTION 134

- (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.

| | |
|--------------------------------|---|
| | ▼ |
| Azure Redis Cache | |
| Azure Traffic Manager | |
| Azure Content Delivery Network | |
| Azure Application Gateway | |

Store content close to the application.

| | |
|--------------------------------|---|
| | ▼ |
| Azure Redis Cache | |
| Azure Traffic Manager | |
| Azure Content Delivery Network | |
| Azure Application Gateway | |

- 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 139

- (Exam Topic 5)

You are designing a microservices architecture that will support a web application. The solution must meet the following requirements:

- > Allow independent upgrades to each microservice
- > Deploy the solution on-premises and to Azure
- > Set policies for performing automatic repairs to the microservices
- > Support low-latency and hyper-scale operations

You need to recommend a technology. What should you recommend?

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

Answer: A

Explanation:

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

NEW QUESTION 142

- (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 144

- (Exam Topic 5)

You plan to automate the deployment of resources to Azure subscriptions.
What is a difference between using Azure Blueprints and Azure Resource Manager templates?

- A. Azure Resource Manager templates remain connected to the deployed resources.
- B. Only Azure Resource Manager templates can contain policy definitions.
- C. Azure Blueprints remain connected to the deployed resources.
- D. Only Azure Blueprints can contain policy definitions.

Answer: C

Explanation:

With Azure Blueprints, the relationship between the blueprint definition (what should be deployed) and the blueprint assignment (what was deployed) is preserved. This connection supports improved tracking and auditing of deployments. Azure Blueprints can also upgrade several subscriptions at once that are governed by the same blueprint.

Reference:

<https://docs.microsoft.com/en-us/answers/questions/26851/how-is-azure-blue-prints-different-from-resource-m.h>

NEW QUESTION 147

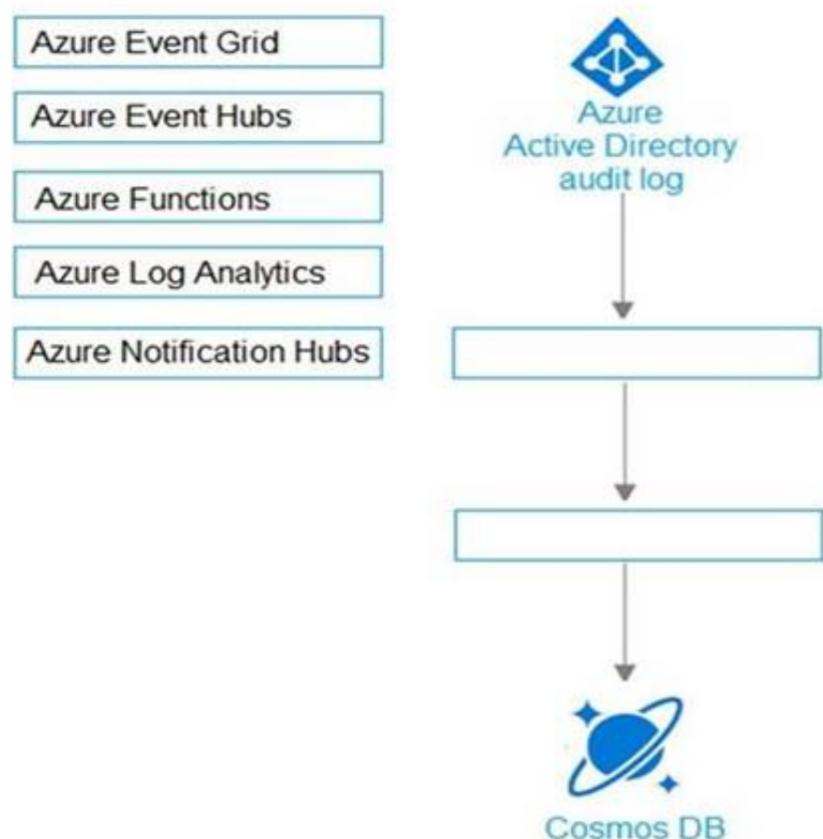
- (Exam Topic 5)

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



- 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 150

- (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 151

- (Exam Topic 5)

You are designing an Azure governance solution.

All Azure resources must be easily identifiable based on the following operational information environment, owner, department and cost center

You need to ensure that you can use the operational information when you generate reports for the Azure resources.

What should you include in the solution?

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

Answer: C

Explanation:

You use Azure Policy to enforce tagging rules and conventions. By creating a policy, you avoid the scenario of resources being deployed to your subscription that don't have the expected tags for your organization. Instead of manually applying tags or searching for resources that aren't compliant, you create a policy that automatically applies the needed tags during deployment.

Note: Organizing cloud-based resources is a crucial task for IT, unless you only have simple deployments. Use naming and tagging standards to organize your resources for these reasons:

Resource management: Your IT teams will need to quickly locate resources associated with specific workloads, environments, ownership groups, or other important information. Organizing resources is critical to assigning organizational roles and access permissions for resource management.

Reference:

<https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/decision-guides/resource-tagging> <https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/tag-policies>

NEW QUESTION 155

- (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 157

- (Exam Topic 5)

You have an on-premises network that uses an IP address space of 172.16.0.0/16. You plan to deploy 25 virtual machines to a new Azure subscription. You identify the following technical requirements:

- All Azure virtual machines must be placed on the same subnet named Subnet1.
- All the Azure virtual machines must be able to communicate with all on-premises servers.
- The servers must be able to communicate between the on-premises network and Azure by using a site-to-site VPN.

You need to recommend a subnet design that meets the technical requirements.

What should you include in the recommendation? To answer, drag the appropriate network addresses to the correct subnets. Each network address may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content

NOTE: Each correct selection is worth one point.

Network Addresses

- 172.16.0.0/16
- 172.16.1.0/27
- 192.168.0.0/24
- 192.168.1.0/27

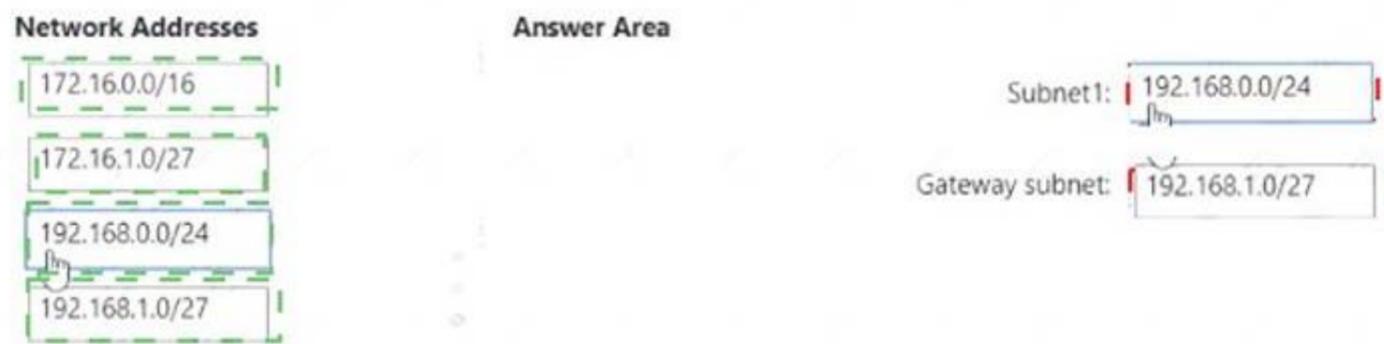
Answer Area

- Subnet1: Network address
- Gateway subnet: Network address

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 160

- (Exam Topic 5)

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

- > Provide the ability to recover in the event of a regional outage.
- > Support a recovery time objective (RTO) of 15 minutes.
- > Support a recovery point objective (RPO) of 24 hours.
- > Support automated recovery.
- > Minimize costs.

What should you include in the recommendation?

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

Answer: D

Explanation:

Replication with Azure Site Recover:

- > RTO is typically less than 15 minutes.
- > RPO: One hour for application consistency and five minutes for crash consistency. Reference: <https://docs.microsoft.com/en-us/azure/site-recovery/site-recovery-sql>

NEW QUESTION 161

- (Exam Topic 5)

You have an Azure subscription that contains an Azure SQL database.

You are evaluating whether to use Azure reservations on the Azure SQL database. Which tool should you use to estimate the potential savings?

- A. The Purchase reservations blade in the Azure portal
- B. The Advisor blade in the Azure portal
- C. The SQL database blade in the Azure portal

Answer: A

Explanation:

Buy reserved capacity

- > Sign in to the Azure portal.
- > Select All services > Reservations.
- > Select Add and then in the Purchase Reservations pane, select SQL Database to purchase a new reservation for SQL Database.
- > Fill in the required fields. Existing databases in SQL Database and SQL Managed Instance that match the attributes you select qualify to get the reserved capacity discount. The actual number of databases or managed instances that get the discount depends on the scope and quantity selected. Graphical user interface, text Description automatically generated

Select the product you want to purchase

SQL Reserved vCores provide a significant discount over pay-as-you-go prices by allowing you to pre-pay for the future use of compute capacity for your Azure SQL Database (PaaS) deployments. Additional software costs will still apply. For SQL Server on Azure VMs (IaaS), purchase Reserved Virtual Machines Instances. [Learn More](#)

• Scope: Single resource group • Subscription: Finance-App - Test • Resource Group: cloud-shell-storage-westus

Filter by name... Region: West US 2 Term: One Year Add Filter Reset filters

| PERFORMANCE TIER | REGION | TERM | DEPLOYMENT TYPE |
|---|-----------|----------|----------------------------------|
| SQL Database Managed Instance Business Critical - Compute Gen4 | West US 2 | One Year | SQL Database Managed Instance |
| SQL Database Managed Instance Business Critical - Compute Gen5 | West US 2 | One Year | SQL Database Managed Instance |
| SQL Database Managed Instance General Purpose - Compute Gen4 | West US 2 | One Year | SQL Database Managed Instance |
| SQL Database Managed Instance General Purpose - Compute Gen5 | West US 2 | One Year | SQL Database Managed Instance |
| SQL Database Single/Elastic Pool Business Critical - Compute Gen4 | West US 2 | One Year | SQL Database Single/Elastic Pool |
| SQL Database Single/Elastic Pool Business Critical - Compute Gen5 | West US 2 | One Year | SQL Database Single/Elastic Pool |
| SQL Database Single/Elastic Pool General Purpose - Compute Gen4 | West US 2 | One Year | SQL Database Single/Elastic Pool |
| SQL Database Single/Elastic Pool General Purpose - Compute Gen5 | West US 2 | One Year | SQL Database Single/Elastic Pool |

Select Cancel Price per unit: <UnitPrice> **34% Estimated savings**

- > Review the cost of the capacity reservation in the Costs section. Select Purchase.
- > Select View this Reservation to see the status of your purchase.
- > Reference:
<https://docs.microsoft.com/en-us/azure/azure-sql/database/reserved-capacity-overview>

NEW QUESTION 166

- (Exam Topic 5)

You are designing a virtual machine that will run Microsoft SQL Server and will contain two data disks. The first data disk will store log files, and the second data disk will store data. Both disks are P40 managed disks.

You need to recommend a caching policy for each disk. The policy must provide the best overall performance for the virtual machine.

Which caching policy should you recommend for each disk? To answer, drag the appropriate policies to the correct disks. Each policy may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Policies

- None
- ReadOnly
- ReadWrite

Answer Area

Log: Policy

Data: Policy

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Graphical user interface, application Description automatically generated

References:

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

NEW QUESTION 169

- (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 174

- (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 179

- (Exam Topic 5)

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

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

Which deployment option should you use?

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

Answer: C

NEW QUESTION 182

- (Exam Topic 5)

You have an on-premises network and an Azure subscription. The on-premises network has several branch offices.

A branch office in Toronto contains a virtual machine named VM1 that is configured as a file server. Users access the shared files on VM1 from all the offices.

You need to recommend a solution to ensure that the users can access the shares files as quickly as possible if the Toronto branch office is inaccessible.

What should you include in the recommendation?

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

Answer: B

Explanation:

Use Azure File Sync to centralize your organization's file shares in Azure Files, while keeping the flexibility, performance, and compatibility of an on-premises file server. Azure File Sync transforms Windows Server into a quick cache of your Azure file share.

You need an Azure file share in the same region that you want to deploy Azure File Sync.

Reference:

<https://docs.microsoft.com/en-us/azure/storage/files/storage-sync-files-deployment-guide>

NEW QUESTION 185

- (Exam Topic 5)

You have an on-premises Microsoft SQL server named SQL1 that hosts 50 databases.

You plan to migrate SQL 1 to Azure SQL Managed Instance.

You need to perform an offline migration of SQL 1. The solution must minimize administrative effort. What should you include in the solution?

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

Answer: D

Explanation:

This Azure service supports migration in the offline mode for applications that can afford downtime during the migration process. Unlike the continuous migration in online mode, offline mode migration runs a one-time restore of a full database backup from the source to the target
<https://learn.microsoft.com/en-us/azure/azure-sql/migration-guides/managed-instance/sql-server-to-managed-ins>

NEW QUESTION 189

- (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 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)

You have the Free edition of a hybrid Azure Active Directory (Azure AD) tenant. The tenant uses password hash synchronization.

You need to recommend a solution to meet the following requirements:

- > Prevent Active Directory domain user accounts from being locked out as the result of brute force attacks targeting Azure AD user accounts.
- > Block legacy authentication attempts to Azure AD integrated apps.
- > Minimize costs.

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

NOTE: Each correct selection is worth one point.

To protect against brute force attacks:

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

To block legacy authentication attempts:

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Graphical user interface, text, application Description automatically generated

Box 1: Smart lockout

Smart lockout helps lock out bad actors that try to guess your users' passwords or use brute-force methods to get in. Smart lockout can recognize sign-ins that come from valid users and treat them differently than ones of attackers and other unknown sources. Attackers get locked out, while your users continue to access their accounts and be productive.

Box 2: Conditional access policies

If your environment is ready to block legacy authentication to improve your tenant's protection, you can accomplish this goal with Conditional Access.

How can you prevent apps using legacy authentication from accessing your tenant's resources? The recommendation is to just block them with a Conditional Access policy. If necessary, you allow only certain users and specific network locations to use apps that are based on legacy authentication.

Reference:

<https://docs.microsoft.com/en-us/azure/active-directory/authentication/howto-password-smart-lockout> <https://docs.microsoft.com/en-us/azure/active-directory/conditional-access/block-legacy-authentication>

NEW QUESTION 201

- (Exam Topic 5)

You are developing a sales application that will contain several Azure cloud services and will handle different components of a transaction. Different cloud services will process customer orders, billing, payment, inventory, and shipping.

You need to recommend a solution to enable the cloud services to asynchronously communicate transaction information by using REST messages.

What should you include in the recommendation?

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

Answer: A

Explanation:

Service Bus is a transactional message broker and ensures transactional integrity for all internal operations against its message stores. All transfers of messages inside of Service Bus, such as moving messages to a dead-letter queue or automatic forwarding of messages between entities, are transactional.

Reference:

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

"Service Bus offers a reliable and secure platform for asynchronous transfer of data and state." ... "Service Bus supports standard AMQP 1.0 and HTTP/REST protocols."

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

NEW QUESTION 202

- (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>

NEW QUESTION 207

- (Exam Topic 5)

Your organization has developed and deployed several Azure App Service Web and API applications. The

applications use Azure Key Vault to store several authentication, storage account, and data encryption keys. Several departments have the following requests to support the applications:

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

You need to recommend the appropriate Azure service for each department request. What should you recommend? To answer, configure the appropriate options in the dialog box in the answer area.
NOTE: Each correct selection is worth one point.

| Department | Azure Service |
|-------------------|--|
| Security | <div style="border: 1px solid black; padding: 2px;"> <div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div style="padding: 2px;"> <ul style="list-style-type: none"> Azure AD Privileged Identity Management Azure AD Managed Service Identity Azure AD Connect Azure AD Identity Protection </div> </div> |
| Development | <div style="border: 1px solid black; padding: 2px;"> <div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div style="padding: 2px;"> <ul style="list-style-type: none"> Azure AD Privileged Identity Management Azure AD Managed Service Identity Azure AD Connect Azure AD Identity Protection </div> </div> |
| Quality Assurance | <div style="border: 1px solid black; padding: 2px;"> <div style="background-color: #f0f0f0; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div style="padding: 2px;"> <ul style="list-style-type: none"> Azure AD Privileged Identity Management Azure AD Managed Service Identity Azure AD Connect Azure AD Identity Protection </div> </div> |

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Text Description automatically generated with medium confidence
<https://docs.microsoft.com/en-us/azure/active-directory/managed-identities-azure-resources/overview>

NEW QUESTION 210

- (Exam Topic 5)

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

Add OAuth2 service
×

API Management service

Display name *

Id * ⓘ

Description

Authorization server description

Client registration page URL *

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 214

- (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 215

- (Exam Topic 5)

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

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

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

Solution: You use Azure Traffic Manager to provide access to the app Does this meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 216

- (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 220

- (Exam Topic 5)

You are planning an Azure solution that will host production databases for a high-performance application. The solution will include the following components:

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

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

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

Which storage type should you recommend for each data type? To answer, drag the appropriate storage types to the correct data types. Each storage type may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Storage Types

Answer Area

A geo-redundant storage (GRS) account

A locally-redundant storage (LRS) account

A premium managed disk

A standard managed disk

Operating system:

Databases and logs:

Backups:

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 223

- (Exam Topic 5)

You plan to deploy 10 applications to Azure. The applications will be deployed to two Azure Kubernetes Service (AKS) clusters. Each cluster will be deployed to a separate Azure region.

The application deployment must meet the following requirements:

- Ensure that the applications remain available if a single AKS cluster fails.
- Ensure that the connection traffic over the internet is encrypted by using SSL without having to configure SSL on each container.

Which service should you include in the recommendation?

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

Answer: C

Explanation:

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

NEW QUESTION 225

- (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 227

- (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 232

- (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 237

- (Exam Topic 5)

You have to deploy an Azure SQL database named db1 for your company. The databases must meet the following security requirements

When IT help desk supervisors query a database table named customers, they must be able to see the full number of each credit card

When IT help desk operators query a database table named customers, they must only see the last four digits of each credit card number

A column named Credit Card rating in the customers table must never appear in plain text in the database system. Only client applications must be able to decrypt the information that is stored in this column

Which of the following can be implemented for the Credit Card rating column security requirement?

- A. Always Encrypted
- B. Azure Advanced Threat Protection
- C. Transparent Data Encryption
- D. Dynamic Data Masking

Answer: A

Explanation:

<https://docs.microsoft.com/en-us/sql/relational-databases/security/encryption/always-encrypted-database-engine>

NEW QUESTION 241

- (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 Hyperscale
- D. Azure SQL Database Standard

Answer: D

Explanation:

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/database/service-tier-business-critical>

NEW QUESTION 245

- (Exam Topic 5)

You have an on-premises network and an Azure subscription. The on-premises network has several branch offices.

A branch office in Toronto contains a virtual machine named VM1 that is configured as a file server. Users access the shared files on VM1 from all the offices.

You need to recommend a solution to ensure that the users can access the shares files as quickly as possible if the Toronto branch office is inaccessible.

What should you include in the recommendation?

- A. a Recovery Services vault and Azure Backup

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

Answer: B

Explanation:

Use Azure File Sync to centralize your organization's file shares in Azure Files, while keeping the flexibility, performance, and compatibility of an on-premises file server. Azure File Sync transforms Windows Server into a quick cache of your Azure file share.

You need an Azure file share in the same region that you want to deploy Azure File Sync. Reference:

<https://docs.microsoft.com/en-us/azure/storage/files/storage-sync-files-deployment-guide>

NEW QUESTION 247

- (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.

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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 250

- (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 255

- (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 259

- (Exam Topic 4)

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

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

Answer: CE

NEW QUESTION 260

- (Exam Topic 4)

A company is planning on deploying an application onto Azure. The application will be based on the .Net core programming language. The application would be hosted using Azure Web apps. Below is part of the various requirements for the application

Give the ability to correlate Azure resource usage and the performance data with the actual application configuration and performance data

Give the ability to visualize the relationships between application components

Give the ability to track requests and exceptions to specific lines of code from within the application Give the ability to actually analyse how users return to an application and see how often they only select a particular drop-down value

Which of the following service would be best suited for fulfilling the requirement of

“Give the ability to correlate Azure resource usage and the performance data with the actual application configuration and performance data”

- A. Azure Application Insights
- B. Azure Service Map
- C. Azure Log Analytics
- D. Azure Activity Log

Answer: C

NEW QUESTION 264

.....

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