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QUESTION 1

HOTSPOT

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

The API must meet the following requirements:

1.

Implement Azure Functions

2.

Provide public read-only operations

3.

Do not allow write operations

4.

You need to recommend configuration options.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Topic	Value
Allowed authentication methods	▼
	All methods
	GET only
	GET and POST only
	GET, POST, and OPTIONS only
Authorization level	▼
	Function
	Anonymous
	Admin

Correct Answer:

Topic	Value

Allowed authentication methods

All methods
GET only
GET and POST only
GET, POST, and OPTIONS only

Authorization level

Function
Anonymous
Admin

Allowed authentication methods: GET only

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

This option provides more flexibility in handling anonymous requests.

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

QUESTION 2

DRAG DROP

You have an Azure AD tenant that contains an administrative unit named MarketingAU. MarketingAU contains 100 users.

You create two users named User1 and User2.

You need to ensure that the users can perform the following actions in MarketingAU:

User1 must be able to create user accounts.

User2 must be able to reset user passwords.

Which role should you assign to each user? To answer, drag the appropriate roles to the correct users. Each role may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

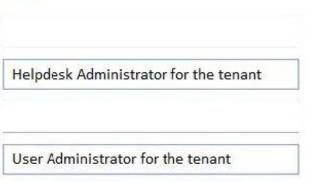NOTE: Each correct selection is worth one point.

Select and Place:

Roles

Helpdesk Administrator for MarketingAU

Helpdesk Administrator for the tenant

User Administrator for MarketingAU

User Administrator for the tenant

Answer Area

User1: | Role |
User2: | Role |

Correct Answer:

Roles

Helpdesk Administrator for the tenant

User Administrator for the tenant

Answer Area

User Administrator for MarketingAU

Helpdesk Administrator for MarketingAU

Box 1: User Administrator for the MarketingAU

User1 must be able to create user accounts.

User Administrator

Can manage all aspects of users and groups, including resetting passwords for limited admins.

Create users

Etc.

Roles that can be assigned with administrative unit scope

The following Azure AD roles can be assigned with administrative unit scope.

*

Helpdesk Administrator

*

User Administrator

*

Etc.

Box 2: Helpdesk Administrator for the MarketingAU

User2 must be able to reset user passwords.

Helpdesk Administrator

Can reset passwords for non-administrators and Helpdesk Administrators.

Administrative units restrict permissions in a role to any portion of your organization that you define. You could, for example, use administrative units to delegate the Helpdesk Administrator role to regional support specialists, so they can

manage users only in the region that they support.

Reference: https://learn.microsoft.com/en-us/azure/active-directory/roles/permissions-reference
https://learn.microsoft.com/en-us/azure/active-directory/roles/admin-units-assign-roles

QUESTION 3

DRAG DROP

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

The finance application requires that data be retained for seven years. In the event of a disaster, the application must be able to run from Azure. The recovery in objective (RTO) is 10 minutes,

The reporting application must be able to recover point in-time data al a daily granularity.

The RTO is eight hours.

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

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

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

view content.

Select and Place:

Actions

Azure Backup only
Azure Site Recovery only
Azure Site Recovery and Azure Backup

Answer Area

Sales:	Service or Services
Finance:	Service or Services
Reporting:	Service or Services

Correct Answer:

Actions

(empty)

Answer Area

Sales:	Azure Site Recovery only
Finance:	Azure Site Recovery and Azure Backup
Reporting:	Azure Backup only

QUESTION 4

HOTSPOT

You have Azure subscription that contains a virtual network named VNet1. VNet1 includes a VPN gateway, uses an IP address space of 10.0.0.0/16 and contains the subnets in the following table.

Name	IP address range
Subnet0	10.0.0.0/24
Subnet1	10.0.1.0/24
Subnet2	10.0.2.0/24
GatewaySubnet	10.0.254.0/24

Subnet1 contains a virtual appliance named VM1 that operates as a router.

You create a routing table named RT1.

You need to route all inbound traffic from the VPN gateway to VNet1 through VM1.

How should you configure RT1? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Address prefix

10.0.0.0/16
10.0.1.0/24
10.0.254.0/24

Next hop type:

Virtual appliance
Virtual network
Virtual network gateway

Assigned to:

GatewaySubnet
Subnet0
Subnet1 and Subnet2

Correct Answer:

Answer Area

Address prefix

| 10.0.0.0/16 |
| 10.0.1.0/24 |
| 10.0.254.0/24 |

Next hop type:

| Virtual appliance |
| Virtual network |
| Virtual network gateway |

Assigned to:

| GatewaySubnet |
| Subnet0 |
| Subnet1 and Subnet2 |

QUESTION 5

DRAG DROP

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

Both disks are P40 managed disks.

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

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

scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Policies

None
ReadOnly
ReadWrite

Answer Area

Log: | Policy |

Data: | Policy |

Correct Answer:

Policies

ReadWrite

Answer Area

Log: | None |

Data: | ReadOnly |

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

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QUESTION 6

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 are designing an Azure solution for a company that has four departments. Each department will deploy several Azure app services and Azure SQL databases.

You need to recommend a solution to report the costs for each department to deploy the app services and the databases. The solution must provide a consolidated view for cost reporting that displays cost broken down by department.

Solution: Create a separate resource group for each department. Place the resources for each department in its respective resource group.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Instead create a resources group for each resource type. Assign tags to each resource group.

Note: Tags enable you to retrieve related resources from different resource groups. This approach is helpful when you need to organize resources for billing or management.

Reference:

https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-using- tags

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QUESTION 7

HOTSPOT

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

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

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

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

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

Hot Area:

Answer Area

App1:

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

App2:

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

Correct Answer:

Answer Area

App1:

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

App2:

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

In conclusion the correct answers are: Box1 --> Storage1 and Storage3 only Box2 --> Storage1 and Storage4 only

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/ https://docs.microsoft.com/en-us/azure/storage/files/storage-how-to-create-file- share?tabs=azure-portal#basics

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QUESTION 8

HOTSPOT

Your on-premises network contains an Active Directory Domain Services (AD DS) domain. The domain contains a server named Server1. Server1 contains an app named App1 that uses AD DS authentication. Remote users access App1 by

using a VPN connection to the on-premises network.

You have an Azure AD tenant that syncs with the AD DS domain by using Azure AD Connect.

You need to ensure that the remote users can access App1 without using a VPN. The solution must meet the following requirements:

Ensure that the users authenticate by using Azure Multi-Factor Authentication (MFA).

Minimize administrative effort.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

In Azure AD:

| A managed identity |
| An access package |
| An app registration |
| An enterprise application |

On-premises:

| A server that runs Windows Server and has the Azure AD Application Proxy connector installed |
| A server that runs Windows Server and has the on-premises data gateway (standard mode) installed |
| A server that runs Windows Server and has the Web Application Proxy role service installed |

Correct Answer:

Answer Area

In Azure AD:

| A managed identity |
| An access package |
| An app registration |
| **An enterprise application** |

On-premises:

| **A server that runs Windows Server and has the Azure AD Application Proxy connector installed** |
| A server that runs Windows Server and has the on-premises data gateway (standard mode) installed |
| A server that runs Windows Server and has the Web Application Proxy role service installed |

Reference: https://learn.microsoft.com/en-us/azure/active-directory/app-proxy/application-proxy-add-on-premises-application https://learn.microsoft.com/en-us/azure/architecture/reference-architectures/identity/azure-ad

QUESTION 9

HOTSPOT

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

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

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

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

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

Data format:
```
                    ▼
Apache Parquet
Avro
JSON
```

Correct Answer:

Answer Area

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

Data format:
```
                    ▼
Apache Parquet
Avro
JSON
```

1.

 Storage Type: Azure Data Lake Storage Gen2

Azure Event Hubs Capture allows captured data to be written either to Azure Blob Storage or Azure Data Lake Storage Gen2. Given the nature of the data and its use in reporting and analysis, Azure Data Lake Storage Gen2 is the more appropriate choice because it is designed for big data analytics.

2.

 Data format: Avro Event Hubs Capture uses Avro format for the data it captures. Avro is a row-oriented format that is suitable for various data types, it\\'s compact, fast, binary, and enables efficient and fast serialization of data. This

makes it a good choice for

Event Hubs Capture.

QUESTION 10

HOTSPOT

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

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

1.

The helpdesk team must see only the last four digits of an employee\\'s phone number.

2.

Cloud administrators must be prevented from seeing the employee\\'s social security numbers.

What should you enable for each column in the managed instance? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Phone numbers: ▼

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

Social security numbers: ▼

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

Correct Answer:

Answer Area

Phone numbers:
- Always Encrypted
- Column encryption
- **Dynamic data masking**
- Transparent Data Encryption (TDE)

Social security numbers:
- **Always Encrypted**
- Column encryption
- Dynamic data masking
- Transparent Data Encryption (TDE)

Box 1: Dynamic data masking

The helpdesk team must see only the last four digits of an employee\\'s phone number.

Dynamic data masking helps prevent unauthorized access to sensitive data by enabling customers to designate how much of the sensitive data to reveal with minimal effect on the application layer. It\\'s a policy-based security feature that hides

the sensitive data in the result set of a query over designated database fields, while the data in the database isn\\'t changed.

Masking functions: A set of methods that control the exposure of data for different scenarios.

* Credit card

Masking method, which exposes the last four digits of the designated fields and adds a constant string as a prefix in the form of a credit card.

XXXX-XXXX-XXXX-1234

Box 2: Always Encrypted

Cloud administrators must be prevented from seeing the employee\\'s social security numbers.

Always Encrypted is a feature designed to protect sensitive data, such as credit card numbers or national/regional identification numbers (for example, U.S. social security numbers), stored in Azure SQL Database, Azure SQL Managed

Instance, and SQL Server databases. Always Encrypted allows clients to encrypt sensitive data inside client applications and never reveal the encryption keys to the Database Engine. This provides a separation between those who own the

data and can view it, and those who manage the data but should have no access - on-premises database administrators, cloud database operators, or other high-privileged unauthorized users. As a result, Always Encrypted enables

customers to confidently store their sensitive data in the cloud, and to reduce the likelihood of data theft by malicious insiders.

Reference: https://learn.microsoft.com/en-us/sql/relational-databases/security/encryption/always-encrypted-database-engine https://learn.microsoft.com/en-us/azure/azure-sql/database/dynamic-data-masking-overview

QUESTION 11

You are planning an Azure IoT Hub solution that will include 50,000 IoT devices.

Each device will stream data, including temperature, device ID, and time data. Approximately 50,000 records will be written every second. The data will be visualized in near real time.

You need to recommend a service to store and query the data.

Which two services can you recommend? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Azure Table Storage

B. Azure Event Grid

C. Azure Cosmos DB SQL API

D. Azure Time Series Insights

Correct Answer: CD

D: Time Series Insights is a fully managed service for time series data. In this architecture, Time Series Insights performs the roles of stream processing, data store, and analytics and reporting. It accepts streaming data from either IoT Hub or Event Hubs and stores, processes, analyzes, and displays the data in near real time.

C: The processed data is stored in an analytical data store, such as Azure Data Explorer, HBase, Azure Cosmos DB, Azure Data Lake, or Blob Storage.

Reference: https://docs.microsoft.com/en-us/azure/architecture/data-guide/scenarios/time-series

QUESTION 12

DRAG DROP

Your on-premises network contains a server named Server1 that runs an ASP.NET application named App1.

You have a hybrid deployment of Azure Active Directory (Azure AD).

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

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

Select and Place:

Services

Services
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

Answer Area

Correct Answer:

Services

Services
an internal Azure Load Balancer
an Azure AD managed identity
a public Azure Load Balancer
an App Service plan

Answer Area

Answer Area
Azure AD Application Proxy
an Azure AD enterprise application
an Azure AD conditional access policy

AD Application Proxy AD Enterprise Application AD Conditional access policy

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

QUESTION 13

You have the resources shown in the following table.

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

CDB1 hosts a container that stores continuously updated operational data.

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

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

What should you include in the recommendation?

A. Azure Cosmos DB change feed

B. Azure Data Factory with Azure Cosmos DB and Azure Synapse Analytics connectors

C. Azure Synapse Analytics with PolyBase data loading

D. Azure Synapse Link for Azure Cosmos DB

Correct Answer: D

Azure Synapse Link for Azure Cosmos DB creates a tight integration between Azure Cosmos DB and Azure Synapse Analytics. It enables customers to run near real-time analytics over their operational data with full performance isolation

from their transactional workloads and without an ETL pipeline.

Reference:

https://docs.microsoft.com/en-us/azure/cosmos-db/synapse-link-frequently-asked-questions

QUESTION 14

HOTSPOT

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

1.

Prevent new data from being modified for one year.

2.

Minimize read latency.

3.

Maximize data resiliency.

You need to recommend a storage solution for the app.

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

Hot Area:

Azure Storage account kind:

| StorageV2 |
| BlobStorage |
| BlockBlobStorage |

Replication:

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

Correct Answer:

Azure Storage account kind:

| StorageV2 |
| BlobStorage |
| **BlockBlobStorage** |

Replication:

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

Box 1:

BlockBlobStorage

Storage accounts with premium performance characteristics for block blobs and append blobs.

Box 2:

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

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QUESTION 15

You have an Azure subscription that contains 1,000 resurces.

You need to generate compliance reports for the subscription. The solution must ensure that the resources can be

grouped by department.

What should you use to organize the resources?

A. application groups and quotas

B. Azure Policy and tags

C. administrative units and Azure Lighthouse

D. resource groups and role assignments

Correct Answer: B

Compliance Report using Azure Policy Azure Policy is a powerful tool for Azure Governance. With Azure Policy we can define rules for all Azure Subscriptions the we manage. We can use this rules for simple limitation actions, like permitting only specific VM Series and Sizes that can be created and also more complex rule sets that helps you standardize the whole Azure deployment.

Enforce tags for resource creation So, why tags? Why we need to add tags to all Azure resources? The Microsoft Azure environments are getting bigger and bigger and managed by multiple people and teams. That makes it difficult to understand who created a resource and what is the purpose of that resource. Another critical matter that we need tags is Cost Management. At the Azure Cost Management Portal, we can sort and arrange the resource cost using the Tags. This way we can provide an expense dashboard with the actual cost of the resources per department, project or whatever tags we have added to the Resource.

Reference: https://www.cloudcorner.gr/microsoft/azure/compliance-report-using-azure-policy/
https://www.cloudcorner.gr/microsoft/azure-policy-enforce-tags-for-resource-creation/

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