Microsoft Azure Architect Design

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Question 1

You need to recommend a solution for protecting the content of the payment processing system.

What should you include in the recommendation?

Options:

A. Transparent Data Encryption (TDE)

B. Azure Storage Service Encryption

C. Always Encrypted with randomized encryption

D. Always Encrypted with deterministic encryption

Answer: D

Explanation:

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Topic 1, Contoso, Ltd

Planned Changes

Contoso plans to implement the following changes:

* Migrate the payment processing system to Azure.

* Migrate the historical transaction data to Azure Cosmos DB to address the performance issues.

Migration Requirements

Contoso identifies the following general migration requirements:

Infrastructure services must remain available if a region or a data center fails. Failover must occur without any administrative intervention

* Whenever possible. Azure managed serves must be used to management overhead

* Whenever possible, costs must be minimized.

Contoso identifies the following requirements for the payment processing system:

* If a data center fails, ensure that the payment processing system remains available without any administrative intervention. The middle-tier and the web front end must continue to operate without any additional configurations-

* If that the number of compute nodes of the from -end and the middle tiers of the payment

processing system can increase or decrease automatically based on CPU utilization.

* Ensure that each tier of the payment processing system is subject to a Service level Agreement (SLA) of 9959 percent availability

* Minimize the effort required to modify the middle tier API and the back-end tier of the payment processing system.

* Generate alerts when unauthorized login attempts occur on the middle-tier virtual machines.

* Insure that the payment processing system preserves its current compliance status.

* Host the middle tier of the payment processing system on a virtual machine.

Contoso identifies the following requirements for the historical transaction query system:

* Minimize the use of on-premises infrastructure service.

* Minimize the effort required to modify the .NET web service querying Azure Cosmos DB.

* If a region fails, ensure that the historical transaction query system remains available without any administrative intervention.

Current Issue

The Contoso IT team discovers poor performance of the historical transaction query as the queries frequently cause table scans.

Information Security Requirements

The IT security team wants to ensure that identity management is performed by using Active Directory. Password hashes must be stored on-premises only.

Access to all business-critical systems must rely on Active Directory credentials. Any suspicious authentication attempts must trigger a multi-factor authentication prompt automatically. legitimate users must be able to authenticate successfully by using multi-factor authentication.

Explanation:

Question 2

You need to recommend a compute solution for the middle tier of the payment processing system.

What should you include in the recommendation?

Options:

A. Azure Kubernetes Service (AKS)

B. virtual machine scale sets

C. availability sets

D. App Service Environments (ASEs)

Answer: B

Question 3

You need to recommend a solution for data of the historical transaction query system.

What should you include in the recommendation? To answer, Select the appropriate or options in the

answer area.

NOTE: Each correct selection is worth one point

Answer Area

Sizing requirements:

| A table that has unlimited capacity |
| A table that has a fixed capacity |
| Multiple tables that have unlimited capacity |
| Multiple tables that have fixed capacity |

Resiliency:

| An additional read region |
| An availability set |
| An availability zone |

Options:

A.

Answer Area

Sizing requirements:

| A table that has unlimited capacity |
| A table that has a fixed capacity |
| Multiple tables that have unlimited capacity |
| Multiple tables that have fixed capacity |

Resiliency:

| An additional read region |
| An availability set |
| An availability zone |

Answer: A

Question 4

You need to recommend a solution for protecting the content of the back-end tier of the payment processing system.

What should you include in the recommendations?

Options:

A. Always Encrypted with deterministic encryption

B. Transparent Date Encryption (TDE)

C. Azure Storage Service Encryption

D. Always Encrypted with randomized encryption

Answer: A

Question 5

You need to recommend a solution for the user at Contoso to authenticate to the cloud-based sconces and the Azure AD-integrated application. What should you include in the recommendation? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Install Azure AD Connect and set the
user sign-in option to:

▼
Federation with AD FS
Pass-through Authentication
Password Synchronization

Implement load balancing for the
components of the authentication
solution by using:

▼
Azure Application Gateway and a Basic Load Balancer
Azure Application Gateway and a Standard Load Balancer
Traffic Manager and a Basic Load Balancer
Traffic Manager and a Standard Load Balancer

Options:

A.

Answer Area

Install Azure AD Connect and set the
user sign-in option to:

▼
Federation with AD FS
Pass-through Authentication
Password Synchronization

Implement load balancing for the
components of the authentication
solution by using:

▼
Azure Application Gateway and a Basic Load Balancer
Azure Application Gateway and a Standard Load Balancer
Traffic Manager and a Basic Load Balancer
Traffic Manager and a Standard Load Balancer

Answer: A

Question 6

You need to recommend a solution for the collection of security logs the middle tier of the
payment processing system.
What should you include in the recommendation?

Options:

A. Azure Notification Hubs

B. the Azure Diagnostics agent

C. Azure Event Hubs

D. the Azure Log Analytics agent

Answer: D

Explanation:

ttps://docs.microsoft.com/en-us/azure/azure-monitor/platform/diagnostics-extension-overview
Explanation:

Question 7

You need to recommend a solution for the data store of the historical transaction query

system.

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.

Sizing requirements:

- A table that has unlimited capacity
- A table that has a fixed capacity
- Multiple tables that have unlimited capacity
- Multiple tables that have fixed capacity

Resiliency:

- An additional read region
- An availability set
- An availability zone

Options:

A.

Sizing requirements:

A table that has unlimited capacity
A table that has a fixed capacity
Multiple tables that have unlimited capacity
Multiple tables that have fixed capacity

Resiliency:

An additional read region
An availability set
An availability zone

Answer: A

Question 8

You need to design a solution for securing access to the historical transaction data.
What should you include in the solution? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Answer Area

The Azure Cosmos DB account will be used to:

▼
Create users and generate resource tokens
Create users and request resource tokens
Generate resource tokens and perform authentication
Request resource tokens and perform authentication

The .NET web service will be used to:

▼
Create users and generate resource tokens
Create users and request resource tokens
Generate resource tokens and perform authentication
Request resource tokens and perform authentication

Options:

A.

Answer Area

The Azure Cosmos DB account will be used to:

▼
Create users and generate resource tokens
Create users and request resource tokens
Generate resource tokens and perform authentication
Request resource tokens and perform authentication

The .NET web service will be used to:

▼
Create users and generate resource tokens
Create users and request resource tokens
Generate resource tokens and perform authentication
Request resource tokens and perform authentication

Answer: A

Question 9

You need to recommend a backup solution for the data store of the payment processing.
What should you include in the recommendation?

Options:

A. Microsoft System Center Data Protection Manager (DPM)

B. long-term retention

C. a Recovery Services vault

D. Azure Backup Server

Answer: B

Explanation:
ttps://docs.microsoft.com/en-us/azure/sql-database/sql-database-long-term-backup-retention-configure
Explanation:

Question 10

You need to recommend a high-availability solution for the middle tier of the payment processing system. What should you include in the recommendation?

Options:

A. availability zones

B. an availability set

C. the Premium App Service plan

D. the Isolated App Server plan

Answer: A

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