



DP-200^{Q&As}

Implementing an Azure Data Solution

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QUESTION 1

DRAG DROP

You have an Azure Data Lake Storage Gen2 account that contains JSON files for customers. The files contain two attributes named FirstName and LastName.

You need to copy the data from the JSON files to an Azure SQL data Warehouse table by using Azure Databricks. A new column must be created that concatenates the FirstName and LastName values.

You create the following components:

1.

A destination table in SQL Data Warehouse

2.

An Azure Blob storage container

3.

A service principal

Which five actions should you perform in sequence next in a Databricks notebook? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

Actions

- Write the results to Data Lake Storage.
- Drop the data frame.
- Perform transformations on the data frame.
- Mount the Data Lake Storage onto DBFS.
- Perform transformations on the file.
- Read the file into a data frame.
- Specify a temporary folder to stage the data.
- Write the results to a table in SQL Data Warehouse.

Answer Area

Five empty rectangular boxes with red borders, arranged vertically, intended for the user to place and order the selected actions.

Correct Answer:



Actions

Write the results to Data Lake Storage.
Mount the Data Lake Storage onto DBFS.
Perform transformations on the file.

Answer Area

Read the file into a data frame.
Perform transformations on the data frame.
Specify a temporary folder to stage the data.
Write the results to a table in SQL Data Warehouse.
Drop the data frame.

Step 1: Read the file into a data frame.

You can load the json files as a data frame in Azure Databricks.

Step 2: Perform transformations on the data frame.

Step 3: Specify a temporary folder to stage the data

Specify a temporary folder to use while moving data between Azure Databricks and Azure SQL Data Warehouse.

Step 4: Write the results to a table in SQL Data Warehouse

You upload the transformed data frame into Azure SQL Data Warehouse. You use the Azure SQL Data Warehouse connector for Azure Databricks to directly upload a dataframe as a table in a SQL data warehouse.

Step 5: Drop the data frame

Clean up resources. You can terminate the cluster. From the Azure Databricks workspace, select Clusters on the left. For the cluster to terminate, under Actions, point to the ellipsis (...) and select the Terminate icon.

References:

<https://docs.microsoft.com/en-us/azure/azure-databricks/databricks-extract-load-sql-data-warehouse>

QUESTION 2

What should you include in the Data Factory pipeline for Race Central?

A. a copy activity that uses a stored procedure as a source



- B. a copy activity that contains schema mappings
- C. a delete activity that has logging enabled
- D. a filter activity that has a condition

Correct Answer: B

Scenario:

An Azure Data Factory pipeline must be used to move data from Cosmos DB to SQL Database for Race Central. If the data load takes longer than 20 minutes, configuration changes must be made to Data Factory.

The telemetry data is sent to a MongoDB database. A custom application then moves the data to databases in SQL Server 2017. The telemetry data in MongoDB has more than 500 attributes. The application changes the attribute names

when the data is moved to SQL Server 2017.

You can copy data to or from Azure Cosmos DB (SQL API) by using Azure Data Factory pipeline.

Column mapping applies when copying data from source to sink. By default, copy activity map source data to sink by column names. You can specify explicit mapping to customize the column mapping based on your need. More specifically,

copy activity:

Read the data from source and determine the source schema

Use default column mapping to map columns by name, or apply explicit column mapping if specified.

Write the data to sink

Write the data to sink

References:

<https://docs.microsoft.com/en-us/azure/data-factory/copy-activity-schema-and-type-mapping>

QUESTION 3

Your company uses Microsoft Azure SQL Database configure with Elastic pool. You use Elastic Database jobs to run queries across all databases in the pod.

You need to analyze, troubleshoot, and report on components responsible for running Elastic Database jobs.

You need to determine the component responsible for running job service tasks.

Which components should you use for each Elastic pool job services task? To answer, drag the appropriate component to the correct task. Each component 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:

Control Database	Execution results and diagnostics	Component
Azure Service Bus	Job launcher and tracker	Component
Azure Storage	Job metadata and state	Component
Job Service		

Correct Answer:

	Execution results and diagnostics	Azure Service Bus
Azure Storage	Job launcher and tracker	Job Service
	Job metadata and state	Control Database

QUESTION 4

A company runs Microsoft SQL Server in an on-premises virtual machine (VM).

You must migrate the database to Azure SQL Database. You synchronize users from Active Directory to Azure Active Directory (Azure AD).

You need to configure Azure SQL Database to use an Azure AD user as administrator.

What should you configure?

- A. For each Azure SQL Database, set the Access Control to administrator.
- B. For each Azure SQL Database server, set the Active Directory to administrator.
- C. For each Azure SQL Database, set the Active Directory administrator role.
- D. For each Azure SQL Database server, set the Access Control to administrator.

Correct Answer: C

There are two administrative accounts (Server admin and Active Directory admin) that act as administrators.



One Azure Active Directory account, either an individual or security group account, can also be configured as an administrator. It is optional to configure an Azure AD administrator, but an Azure AD administrator must be configured if you

want to use Azure AD accounts to connect to SQL Database.

References:

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

QUESTION 5

Your company uses Azure SQL Database and Azure Blob storage.

All data at rest must be encrypted by using the company's own key. The solution must minimize administrative effort and the impact to applications which use the database.

You need to configure security.

What should you implement? To answer, select the appropriate option in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Azure SQL Database

- always encrypted
- cell-level encryption
- row-level security
- transparent data encryption

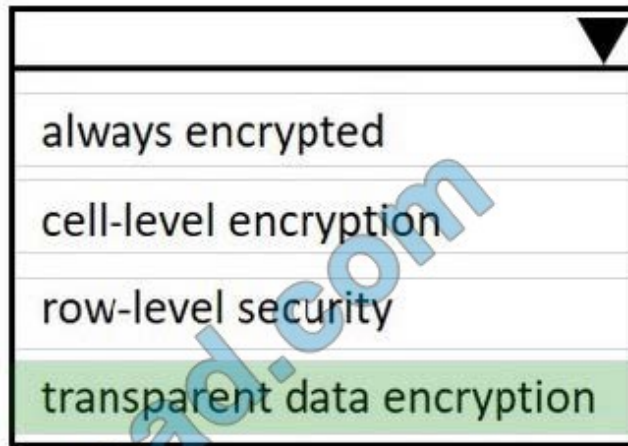
Azure Storage

- Azure disk encryption
- secure transport layer security (TLS)
- storage account keys
- default storage service encryption

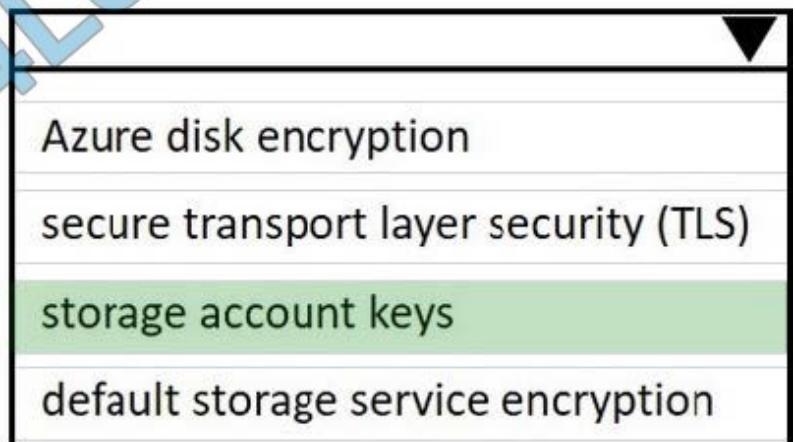
Correct Answer:



Azure SQL Database



Azure Storage



Box 1: transparent data encryption

TDE with customer-managed keys in Azure Key Vault allows to encrypt the Database Encryption Key (DEK) with a customer-managed asymmetric key called TDE Protector. This is also generally referred to as Bring Your Own Key (BYOK)

support for Transparent Data Encryption.

Note: Transparent data encryption encrypts the storage of an entire database by using a symmetric key called the database encryption key. This database encryption key is protected by the transparent data encryption protector.

Transparent data encryption (TDE) helps protect Azure SQL Database, Azure SQL Managed Instance, and Azure Data Warehouse against the threat of malicious offline activity by encrypting data at rest. It performs real-time encryption and decryption of the database, associated backups, and transaction log files at rest without requiring changes to the application.

Box 2: Storage account keys

You can rely on Microsoft-managed keys for the encryption of your storage account, or you can manage encryption with your own keys, together with Azure Key Vault.

References:

<https://docs.microsoft.com/en-us/azure/sql-database/transparent-data-encryption-azure-sql>



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<https://docs.microsoft.com/en-us/azure/storage/common/storage-service-encryption>

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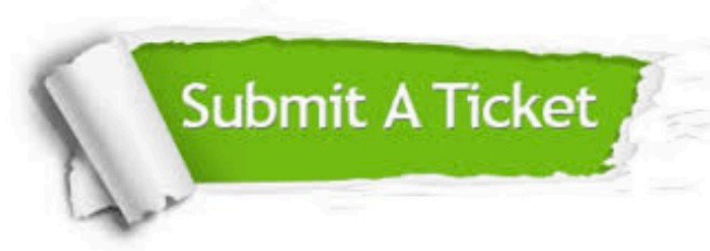
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