DP-201^{Q&As}

Designing an Azure Data Solution

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QUESTION 1

A company stores large datasets in Azure, including sales transactions and customer account information. You must design a solution to analyze the data. You plan to create the following HDInsight clusters:

Cluster	Requirement
Sales	This cluster must be optimized for ad hoc HIVE queries.
Accounts	This cluster must be optimized for HIVE queries that are used in batch processes.

You need to ensure that the clusters support the query requirements.

Which cluster types should you recommend? To answer, select the appropriate configuration in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Cluster	Cluster type
Sales	Storm / Hadoop / Interactive Query / Kafka
Accounts	Spark / Hadoop / Interactive Query / Kafka

Correct Answer:

Answer Area

Cluster

Cluster type

Sales

Storm
Hadoop
Interactive Query
Kafka

Accounts

Spark
Hadoop
Interactive Query
Kafka

Box 1: Interactive Query

Choose Interactive Query cluster type to optimize for ad hoc, interactive queries.

Box 2: Hadoop

Choose Apache Hadoop cluster type to optimize for Hive queries used as a batch process.

Note: In Azure HDInsight, there are several cluster types and technologies that can run Apache Hive queries. When you create your HDInsight cluster, choose the appropriate cluster type to help optimize performance for your workload needs.

For example, choose Interactive Query cluster type to optimize for ad hoc, interactive queries. Choose Apache Hadoop cluster type to optimize for Hive queries used as a batch process. Spark and HBase cluster types can also run Hive

queries.

References:

https://docs.microsoft.com/bs-latn-ba/azure/hdinsight/hdinsight-hadoop-optimize-hive-query?toc=%2Fko-kr%2Fazure%2Fhdinsight%2Finteractive-query%2FTOC.jsonandbc=%2Fbs-latn-ba%2Fazure%2Fbread%2Ftoc.json

QUESTION 2

You plan to use an Azure SQL data warehouse to store the customer data. You need to recommend a disaster recovery solution for the data warehouse. What should you include in the recommendation?

A. AzCopy

B. Read-only replicas

C. AdlCopy

D. Geo-Redundant backups

Correct Answer: D

https://docs.microsoft.com/en-us/azure/sql-data-warehouse/backup-and-restore

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QUESTION 3

A company purchases IoT devices to monitor manufacturing machinery. The company uses an IoT appliance to communicate with the IoT devices.

The company must be able to monitor the devices in real-time.

You need to design the solution.

What should you recommend?

A. Azure Analysis Services using Azure Portal

B. Azure Analysis Services using Microsoft Visual Studio

C. Azure Stream Analytics Edge application using Microsoft Visual Studio

D. Azure Data Factory instance using Microsoft Visual Studio

Correct Answer: C

Stream Analytics is a cost-effective event processing engine that helps uncover real-time insights from devices, sensors, infrastructure, applications and data quickly and easily.

Visual Studio 2019 and Visual Studio 2017 support Stream Analytics Tools.

Note: You can also monitor and manage Stream Analytics resources with Azure PowerShell cmdlets and powershell scripting that execute basic Stream Analytics tasks.

Reference:

https://cloudblogs.microsoft.com/sqlserver/2014/10/29/microsoft-adds-iot-streaming-analytics-data-production-and-workflow-services-to-azure/

https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-tools-for-visual-studio-install

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QUESTION 4

HOTSPOT

You use Azure Data Lake Storage Gen2 to store data that data scientists and data engineers will query by using Azure Databricks interactive notebooks. The folders in Data Lake Storage will be secured, and users will have access only to the

folders that relate to the projects on which they work.

You need to recommend which authentication methods to use for Databricks and Data Lake Storage to provide the users with the appropriate access. The solution must minimize administrative effort and development effort

Which authentication method should you recommend for each Azure service? To answer, select the appropriate options in the answer area

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Databricks:

| Azure Active Directory |
| Azure Key Vault secrets |
| Personal access tokens |

Data Lake Storage:

| Azure Active Directory |
| Shared access keys |
| Shared access signatures |

Correct Answer:

Answer Area

Databricks:
- Azure Active Directory
- Azure Key Vault secrets
- Personal access tokens

Data Lake Storage:
- Azure Active Directory
- Shared access keys
- Shared access signatures

Databricks: Personal access tokens

To authenticate and access Databricks REST APIs, you use personal access tokens. Tokens are similar to passwords; you should treat them with care. Tokens expire and can be revoked.

Data Lake Storage: Azure Active Directory

Azure Data Lake Storage Gen1 uses Azure Active Directory for authentication.

References:

https://docs.azuredatabricks.net/dev-tools/api/latest/authentication.html

https://docs.microsoft.com/en-us/azure/data-lake-store/data-lakes-store-authentication-using-azure-active-directory

QUESTION 5

HOTSPOT

A company plans to use Azure SQL Database to support a line of business applications. The application will manage sensitive employee data.

The solution must meet the following requirements:

1. Encryption must be performed by the application.

2. Only the client application must have access keys for encrypting and decrypting data.

3. Data must never appear as plain text in the database.

4. The strongest possible encryption method must be used.

5. Searching must be possible on selected data.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Data type	Encryption method
Searchable data	▼

Always Encrypted with randomized encryption
Always Encrypted with deterministic encryption
CREATE SYMMETRIC KEY statement
CREATE CERTIFICATE statement

Non-searchable data	▼

Always Encrypted with randomized encryption
Always Encrypted with deterministic encryption
CREATE SYMMETRIC KEY statement
CREATE CERTIFICATE statement

Correct Answer:

Answer Area

Data type	Encryption method
Searchable data	▼

Always Encrypted with randomized encryption
Always Encrypted with deterministic encryption
CREATE SYMMETRIC KEY statement
CREATE CERTIFICATE statement

Data type	Encryption method
Non-searchable data	▼

Always Encrypted with randomized encryption
Always Encrypted with deterministic encryption
CREATE SYMMETRIC KEY statement
CREATE CERTIFICATE statement

Explanation:

Box 1: Always Encrypted with deterministic encryption

Deterministic encryption always generates the same encrypted value for any given plain text value. Using deterministic encryption allows point lookups, equality joins, grouping and indexing on encrypted columns. However, it may also allow

unauthorized users to guess information about encrypted values by examining patterns in the encrypted column, especially if there is a small set of possible encrypted values, such as True/False, or North/South/East/West region.

Deterministic encryption must use a column collation with a binary2 sort order for character columns.

Box 2: Always Encrypted with Randomized encryption

Randomized encryption uses a method that encrypts data in a less predictable manner. Randomized encryption is more secure, but prevents searching, grouping, indexing, and joining on encrypted columns.

Note: With Always Encrypted the Database Engine never operates on plaintext data stored in encrypted columns, but it still supports some queries on encrypted data, depending on the encryption type for the column. Always Encrypted

supports two types of encryption: randomized encryption and deterministic encryption.

Use deterministic encryption for columns that will be used as search or grouping parameters, for example a government ID number. Use randomized encryption, for data such as confidential investigation comments, which are not grouped

with other records and are not used to join tables.

References:

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

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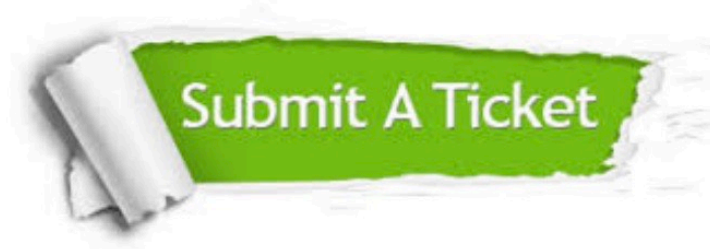Multi-Platform capabilities - Windows, Mac, Android, iPhone, iPod, iPad, Kindle

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