DP-201^{Q&As}

Designing an Azure Data Solution

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QUESTION 1

You need to design a telemetry data solution that supports the analysis of log files in real time.

Which two Azure services should you include in the solution? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

A. Azure Databricks

B. Azure Data Factory

C. Azure Event Hubs

D. Azure Data Lake Storage Gent 2

E. Azure IoT Hub

Correct Answer: AC

You connect a data ingestion system with Azure Databricks to stream data into an Apache Spark cluster in near real-time. You set up data ingestion system using Azure Event Hubs and then connect it to Azure Databricks to process the messages coming through.

Note: Azure Event Hubs is a highly scalable data streaming platform and event ingestion service, capable of receiving and processing millions of events per second. Event Hubs can process and store events, data, or telemetry produced by distributed software and devices. Data sent to an event hub can be transformed and stored using any real-time analytics provider or batching/storage adapters.

References: https://docs.microsoft.com/en-us/azure/azure-databricks/databricks-stream-from-eventhubs

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QUESTION 2

You have an on-premises MySQL database that is 800 GB in size.

You need to migrate a MySQL database to Azure Database for MySQL. You must minimize service interruption to live sites or applications that use the database.

What should you recommend?

A. Azure Database Migration Service

B. Dump and restore

C. Import and export

D. MySQL Workbench

Correct Answer: A

You can perform MySQL migrations to Azure Database for MySQL with minimal downtime by using the newly introduced continuous sync capability for the Azure Database Migration Service (DMS). This functionality limits the amount of downtime that is incurred by the application.

References: https://docs.microsoft.com/en-us/azure/mysql/howto-migrate-online

QUESTION 3

You are designing an Azure Data Factory pipeline for processing data. The pipeline will process data that is stored in general-purpose standard Azure storage.

You need to ensure that the compute environment is created on-demand and removed when the process is completed.

Which type of activity should you recommend?

A. Databricks Python activity

B. Data Lake Analytics U-SQL activity

C. HDInsight Pig activity

D. Databricks Jar activity

Correct Answer: C

The HDInsight Pig activity in a Data Factory pipeline executes Pig queries on your own or on-demand HDInsight cluster.

References: https://docs.microsoft.com/en-us/azure/data-factory/transform-data-using-hadoop-pig

QUESTION 4

You have a MongoDB database that you plan to migrate to an Azure Cosmos DB account that uses the MongoDB API.

During testing, you discover that the migration takes longer than expected.

You need to recommend a solution that will reduce the amount of time it takes to migrate the data.

What are two possible recommendations to achieve this goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Increase the Request Units (RUs).

B. Turn off indexing.

C. Add a write region.

D. Create unique indexes.

E. Create compound indexes.

Correct Answer: AB

A: Increase the throughput during the migration by increasing the Request Units (RUs).

For customers that are migrating many collections within a database, it is strongly recommend to configure database-

level throughput. You must make this choice when you create the database. The minimum database-level throughput capacity is 400 RU/sec. Each collection sharing database-level throughput requires at least 100 RU/sec.

B: By default, Azure Cosmos DB indexes all your data fields upon ingestion. You can modify the indexing policy in Azure Cosmos DB at any time. In fact, it is often recommended to turn off indexing when migrating data, and then turn it back on when the data is already in Cosmos DB.

References: https://docs.microsoft.com/bs-latn-ba/Azure/cosmos-db/mongodb-pre-migration

QUESTION 5

HOTSPOT You are designing the security for a mission critical Azure SQL database named DB1. DB1 contains several columns that store Personally Identifiable Information (PII) data You need to recommend a security solution that meets the following requirements:

1. Ensures that DB1 is encrypted at rest

2. Ensures that data from the columns containing PII data is encrypted in transit

Which security solution should you recommend for DB1 and the columns? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

DB1:

Always Encrypted
Dynamic data masking
Row-level security
Transparent Data Encryption (TDE)

Columns:

Always Encrypted
Dynamic data masking
Row-level security
Transparent Data Encryption (TDE)

Correct Answer:

Answer Area

DB1:

| Always Encrypted |
| Dynamic data masking |
| Row-level security |
| Transparent Data Encryption (TDE) |

Columns:

| Always Encrypted |
| Dynamic data masking |
| Row-level security |
| Transparent Data Encryption (TDE) |

DB1: Transparent Data Encryption

Azure SQL Database currently supports encryption at rest for Microsoft-managed service side and client-side encryption scenarios.

Support for server encryption is currently provided through the SQL feature called Transparent Data Encryption.

Columns: Always encrypted

Always Encrypted is a feature designed to protect sensitive data stored in Azure SQL Database or SQL Server databases. Always Encrypted allows clients to encrypt sensitive data inside client applications and never reveal the encryption

keys to the database engine (SQL Database or SQL Server).

Note: Most data breaches involve the theft of critical data such as credit card numbers or personally identifiable information. Databases can be treasure troves of sensitive information. They can contain customers\\' personal data (like national

identification numbers), confidential competitive information, and intellectual property. Lost or stolen data, especially customer data, can result in brand damage, competitive disadvantage, and serious fines--even lawsuits.

References:

https://docs.microsoft.com/en-us/azure/security/fundamentals/encryption-atrest

https://docs.microsoft.com/en-us/azure/security/fundamentals/database-security-overview

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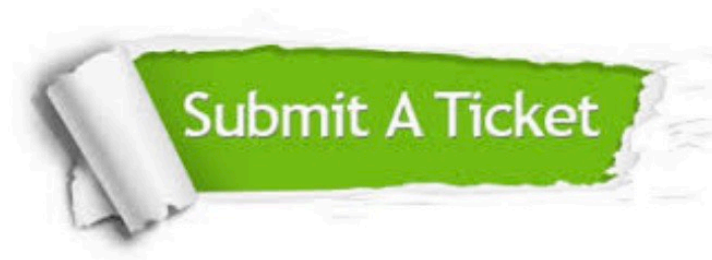Multi-Platform capabilities - Windows, Mac, Android, iPhone, iPod, iPad, Kindle

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