Microsoft

Exam Questions DP-200

Implementing an Azure Data Solution
NEW QUESTION 1
- (Exam Topic 2)
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 questions 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 need to implement diagnostic logging for Data Warehouse monitoring. Which log should you use?
A. RequestSteps
B. DmsWorkers
C. SqlRequests
D. ExecRequests

Answer: C

Explanation:
Scenario:
The Azure SQL Data Warehouse cache must be monitored when the database is being used.

<table>
<thead>
<tr>
<th>Metric</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Low cache hit %, high cache usage %</td>
</tr>
<tr>
<td>B</td>
<td>Low cache hit %, low cache usage %</td>
</tr>
<tr>
<td>C</td>
<td>High cache hit %, high cache usage %</td>
</tr>
</tbody>
</table>

References:

NEW QUESTION 2
- (Exam Topic 2)
You need to process and query ingested Tier 9 data. Which two options should you use? Each correct answer presents part of the solution.
NOTE: Each correct selection is worth one point.
A. Azure Notification Hub
B. Transact-SQL statements
C. Azure Cache for Redis
D. Apache Kafka statements
E. Azure Event Grid
F. Azure Stream Analytics

Answer: EF

Explanation:
Event Hubs provides a Kafka endpoint that can be used by your existing Kafka based applications as an alternative to running your own Kafka cluster. You can stream data into Kafka-enabled Event Hubs and process it with Azure Stream Analytics, in the following steps:
1. Create a Kafka enabled Event Hubs namespace.
2. Create a Kafka client that sends messages to the event hub.
3. Create a Stream Analytics job that copies data from the event hub into an Azure blob storage.

Scenario:
Tier 9 reporting must be moved to Event Hubs, queried, and persisted in the same Azure region as the company’s main office.

References:
https://docs.microsoft.com/en-us/azure/event-hubs/event-hubs-kafka-stream-analytics

NEW QUESTION 3
- (Exam Topic 3)
A company plans to use Platform-as-a-Service (PaaS) to create the new data pipeline process. The process must meet the following requirements.
Ingest:
• Access multiple data sources
• Provide the ability to orchestrate workflow
• Provide the capability to run SQL Server Integration Services packages. Store:
• Optimize storage for big data workloads.
• Provide encryption of data at rest.
• Operate with no size limits. Prepare and Train:
• Provide a fully-managed and interactive workspace for exploration and visualization.
• Provide seamless user authentication with Azure Active Directory. Model & Serve:
• Implement native columnar storage.
• Support for the SQL language
• Provide support for structured streaming.

You need to build the data integration pipeline. Which technologies should you use? To answer, select the appropriate options in the answer area.
NEW QUESTION 4  
- (Exam Topic 3)  
A company is planning to use Microsoft Azure Cosmos DB as the data store for an application. You have the following Azure CLI command:  
```
avs cosmosdb create -–name "cosmosdbdev1" –-resource-group "rgdev"  
```
You need to minimize latency and expose the SQL API. How should you complete the command? To answer, select the appropriate options in the answer area.  
NOTE: Each correct selection is worth one point.

A. Mastered  
B. Not Mastered  

**Answer:** A  

**Explanation:**  
Box 1: Eventual  
With Azure Cosmos DB, developers can choose from five well-defined consistency models on the consistency spectrum. From strongest to more relaxed, the models include strong, bounded staleness, session, consistent prefix, and eventual consistency.  
The following image shows the different consistency levels as a spectrum.
NEW QUESTION 5
- (Exam Topic 3)
You are developing the data platform for a global retail company. The company operates during normal working hours in each region. The analytical database is used once a week for building sales projections.

Building the sales projections is very resource intensive and generates upwards of 20 terabytes (TB) of data. Microsoft Azure SQL Databases must be provisioned.

- Database provisioning must maximize performance and minimize cost
- The daily sales for each region must be stored in an Azure SQL Database instance
- Once a day, the data for all regions must be loaded into an analytical Azure SQL Database instance

You need to provision Azure SQL database instances. How should you provision the database instances? To answer, drag the appropriate Azure SQL products to the correct databases. Each Azure SQL product 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.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Box 1: Azure SQL Database elastic pools
SQL Database elastic pools are a simple, cost-effective solution for managing and scaling multiple databases that have varying and unpredictable usage demands. The databases in an elastic pool are on a single Azure SQL Database server and share a set number of resources at a set price. Elastic pools in Azure SQL Database enable SaaS developers to optimize the price performance for a group of databases within a prescribed budget while delivering performance elasticity for each database.

Box 2: Azure SQL Database Hyperscale
A Hyperscale database is an Azure SQL database in the Hyperscale service tier that is backed by the Hyperscale scale-out storage technology. A Hyperscale database supports up to 100 TB of data and provides high throughput and performance, as well as rapid scaling to adapt to the workload requirements. Scaling is transparent to the application – connectivity, query processing, and so on, work like any other SQL database.

NEW QUESTION 6
- (Exam Topic 3)
Your company has on-premises Microsoft SQL Server instance.
The data engineering team plans to implement a process that copies data from the SQL Server instance to Azure Blob storage. The process must orchestrate and manage the data lifecycle.

You need to configure Azure Data Factory to connect to the SQL Server instance.
Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Box 2: GlobalDocumentDB
Select Core(SQL) to create a document database and query by using SQL syntax.

Note: The API determines the type of account to create. Azure Cosmos DB provides five APIs: Core(SQL) and MongoDB for document databases, Gremlin for graph databases, Azure Table, and Cassandra.

References:
https://docs.microsoft.com/en-us/azure/cosmos-db/consistency-levels
https://docs.microsoft.com/en-us/azure/cosmos-db/create-sql-api-dotnet
NEW QUESTION 7
- (Exam Topic 3)
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.
A company uses Azure Data Lake Gen 1 Storage to store big data related to consumer behavior. You need to implement logging.
Solution: Configure Azure Data Lake Storage diagnostics to store logs and metrics in a storage account. Does the solution meet the goal?
A. Yes
B. No
Answer: A

Explanation:

NEW QUESTION 8
- (Exam Topic 3)
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 the Azure SQL Database server, set the Active Directory to administrator.
C. For each Azure SQL Database, set the Active Directory administrator role.
D. For the Azure SQL Database server, set the Access Control to administrator.
Answer: A

NEW QUESTION 9
- (Exam Topic 3)
You implement an event processing solution using Microsoft Azure Stream Analytics. The solution must meet the following requirements:
• Ingest data from Blob storage
• Analyze data in real time
• Store processed data in Azure Cosmos DB
Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.
A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 10
(Exam Topic 3)
You are a data engineer implementing a lambda architecture on Microsoft Azure. You use an open-source big data solution to collect, process, and maintain data. The analytical data store performs poorly.
You must implement a solution that meets the following requirements:

- Provide data warehousing
- Reduce ongoing management activities
- Deliver SQL query responses in less than one second

You need to create an HDInsight cluster to meet the requirements. Which type of cluster should you create?

A. Interactive Query
B. Apache Hadoop
C. Apache HBase
D. Apache Spark

Answer: D

Explanation:

Lambda Architecture with Azure:
Azure offers you a combination of following technologies to accelerate real-time big data analytics:

- Azure Cosmos DB, a globally distributed and multi-model database service.
- Apache Spark for Azure HDInsight, a processing framework that runs large-scale data analytics applications.
- The Spark to Azure Cosmos DB Connector
Lambda architecture is a data-processing architecture designed to handle massive quantities of data by taking advantage of both batch processing and stream processing methods, and minimizing the latency involved in querying big data.

References:

NEW QUESTION 11
- (Exam Topic 3)
You develop data engineering solutions for a company.
You need to deploy a Microsoft Azure Stream Analytics job for an IoT solution. The solution must:
• Minimize latency.
• Minimize bandwidth usage between the job and IoT device.
Which four actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
NEW QUESTION 12
- (Exam Topic 3)
A company plans to develop solutions to perform batch processing of multiple sets of geospatial data. You need to implement the solutions. Which Azure services should you use? To answer, select the appropriate configuration to the answer area. NOTE: Each correct selection is worth one point.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 13
- (Exam Topic 3)
Note: This question is part of series of questions that present the same scenario. Each question in the series contain a unique solution. Determine whether the solution meets the stated goals.
You develop data engineering solutions for a company.
A project requires the deployment of resources to Microsoft Azure for batch data processing on Azure.
HDInsight. Batch processing will run daily and must: Scale to minimize costs
Be monitored for cluster performance

You need to recommend a tool that will monitor clusters and provide information to suggest how to scale. Solution: Monitor cluster load using the Ambari Web UI.

Does the solution meet the goal?

A. Yes
B. No

Answer: B

Explanation:
Ambari Web UI does not provide information to suggest how to scale.

NEW QUESTION 14
- (Exam Topic 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.

A. Mastered
B. Not Mastered

Answer: A

Explanation:

NEW QUESTION 15
- (Exam Topic 3)
You plan to create a new single database instance of Microsoft Azure SQL Database. The database must only allow communication from the data engineer’s workstation. You must connect directly to the instance by using Microsoft SQL Server Management Studio.
You need to create and configure the Database. Which three Azure PowerShell cmdlets should you use to develop the solution? To answer, move the appropriate cmdlets from the list of cmdlets to the answer area and arrange them in the correct order.

A. Mastered
B. Not Mastered
NEW QUESTION 16
- (Exam Topic 3)
You configure monitoring for a Microsoft Azure SQL Data Warehouse implementation. The implementation uses PolyBase to load data from comma-separated value (CSV) files stored in Azure Data Lake Gen 2 using an external table. Files with an invalid schema cause errors to occur. You need to monitor for an invalid schema error. For which error should you monitor?

A. EXTERNAL TABLE access failed due to internal error: 'Java exception raised on call to HdfsBridge_Connect:
Error[com.microsoft.polybase.client.KerberosSecureLogin] occurred while accessing external files.'

B. EXTERNAL TABLE access failed due to internal error: 'Java exception raised on call to HdfsBridge_Connect: Error [No FileSystem for scheme: wasbs] occurred while accessing external file.'

C. Cannot execute the query "Remote Query" against OLE DB provider "SQLNCLI11": for linked server "(null)", Query aborted- the maximum reject threshold (0 rows) was reached while reading from an external source: 1 rows rejected out of total 1 rows processed.

D. EXTERNAL TABLE access failed due to internal error: 'Java exception raised on call to HdfsBridge_Connect: Error [Unable to instantiate LoginClass] occurred while accessing external files.'

Answer: C

Explanation:
Customer Scenario:
SQL Server 2016 or SQL DW connected to Azure blob storage. The CREATE EXTERNAL TABLE DDL points to a directory (and not a specific file) and the directory contains files with different schemas.

SSMS Error:
Select query on the external table gives the following error: Msg 7320, Level 16, State 110, Line 14
Cannot execute the query "Remote Query" against OLE DB provider "SQLNCLI11": for linked server "(null)". Query aborted- the maximum reject threshold (0 rows) was reached while reading from an external source: 1 rows rejected out of total 1 rows processed.

Possible Reason:
The reason this error happens is because each file has different schema. The PolyBase external table DDL when pointed to a directory recursively reads all the files in that directory. When a column or data type mismatch happens, this error could be seen in SSMS.

Possible Solution:
If the data for each table consists of one file, then use the filename in the LOCATION section prepended by the directory of the external files. If there are multiple files per table, put each set of files into different directories in Azure Blob Storage and then you can point LOCATION to the directory instead of a particular file.

The latter suggestion is the best practices recommended by SQLCAT even if you have one file per table.

NEW QUESTION 17
- (Exam Topic 3)
You manage the Microsoft Azure Databricks environment for a company. You must be able to access a private Azure Blob Storage account. Data must be available to all Azure Databricks workspaces. You need to provide the data access.

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

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Step 1: Create a secret scope
Step 2: Add secrets to the scope
Note: dbutils.secrets.get(scope = <scope-name>, key = <key-name>) gets the key that has been stored as a secret in a secret scope.
Step 3: Mount the Azure Blob Storage container
You can mount a Blob Storage container or a folder inside a container through Databricks File System - DBFS. The mount is a pointer to a Blob Storage container, so the data is never synced locally.

Note: To mount a Blob Storage container or a folder inside a container, use the following command:

```python
dbutils.fs.mount(
    source = "wasbs://<your-container-name>@<your-storage-account-name>.blob.core.windows.net",
    mount_point = "/mnt/<mount-name>",
    extra_configs = {
        "<conf-key>" : dbutils.secrets.get(scope = "<scope-name>", key = "<key-name>")
    }
)
```

where:
- `dbutils.secrets.get(scope = "<scope-name>", key = "<key-name>")` gets the key that has been stored as a secret in a secret scope.

References:

NEW QUESTION 18

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