



70-475^{Q&As}

Designing and Implementing Big Data Analytics Solutions

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**QUESTION 1**

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

the 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 plan to deploy a Microsoft Azure SQL data warehouse and a web application.

The data warehouse will ingest 5 TB of data from an on-premises Microsoft SQL Server database daily. The web application will query the data warehouse.

You need to design a solution to ingest data into the data warehouse.

Solution: You use SQL Server Integration Services (SSIS) to transfer data from SQL Server to Azure SQL Data Warehouse.

Does this meet the goal?

A. Yes

B. No

Correct Answer: B

Integration Services (SSIS) is a powerful and flexible Extract Transform and Load (ETL) tool that supports complex workflows, data transformation, and several data loading options. The main drawback is speed. We should use Polybase instead.

References: <https://docs.microsoft.com/en-us/sql/integration-services/sql-server-integration-services>

QUESTION 2

Your company has 2,000 servers.

You plan to aggregate all of the log files from the servers in a central repository that uses Microsoft Azure HDInsight. Each log file contains approximately one million records. All of the files use the .log file name extension.

The following is a sample of the entries in the log files.

```
2017-02-03 20:26:41 SampleClass3 [ERROR] verbose detail for id
```

In Apache Hive, you need to create a data definition and a query capturing the number of records that have an error level of [ERROR].

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

NOTE: Each correct selection is worth one point.



Hot Area:

Answer Area

```

CREATE  log4jLogs (t1 string, t2 string,
t3 string, t4 string, t5 string, t6 string, t7 string)
ROW FORMAT DELIMITED FIELDS TERMINATED BY 
STORED AS TEXTFILE LOCATION 'wasbs:///example/data/';
SELECT t4 AS sev,  AS count
FROM log4jLogs
WHERE t4 = ' [ERROR] '
AND INPUT_FILE_NAME LIKE 
GROUP BY t4;

```

Correct Answer:



Answer Area

CREATE log4jLogs (t1 string, t2 string, t3 string, t4 string, t5 string, t6 string, t7 string)

ROW FORMAT DELIMITED FIELDS TERMINATED BY

STORED AS TEXTFILE LOCATION 'wasbs:///example/data/';

SELECT t4 AS sev, AS count

FROM log4jLogs
WHERE t4 = ' [ERROR] '
AND INPUT_FILE_NAME LIKE

GROUP BY t4;

Box 1: table

Box 2: /t

Apache Hive example:

CREATE TABLE raw (line STRING)

ROW FORMAT DELIMITED FIELDS TERMINATED BY '\\t\\' LINES TERMINATED BY '\\n\\';

Box 3: count(*)

Box 4: '*.log\\'

Reference: <https://cwiki.apache.org/confluence/display/Hive/CompressedStorage>

QUESTION 3

You plan to use Microsoft Azure IoT Hub to capture data from medical devices that contain sensors.

You need to ensure that each device has its own credentials. The solution must minimize the number of required privileges.

Which policy should you apply to the devices?

A. iothubowner



- B. service
- C. registryReadWrite
- D. device

Correct Answer: D

Per-Device Security Credentials. Each IoT Hub contains an identity registry For each device in this identity registry, you can configure security credentials that grant DeviceConnect permissions scoped to the corresponding device endpoints. Incorrect Answers:

A: An iothubowner would have all permissions.

QUESTION 4

You plan to deploy a storage solution to store the output of stream analytics.

You plan to store the data for the following three types of data streams: Unstructured JSON data Exploratory analytics Pictures

You need to implement a storage solution for the data stream types.

Which storage solution should you implement for each data stream type? To answer, drag the appropriate storage solutions to the correct data stream types. Each storage solution may be used once, more than once, or not at all. You may need to drag the split bar between the panes or scroll to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Storage Solutions

- Azure Data Lake
- Azure Blob Storage
- Azure Table Storage
- Azure Service Bus Queue
- Azure Cosmos DB

Answer Area

- Exploratory analytics
- Unstructured JSON data
- Pictures

Correct Answer:



Storage Solutions	Answer Area
<input type="text"/>	Exploratory analytics <input type="text" value="Azure Data Lake"/>
<input type="text"/>	Unstructured JSON data <input type="text" value="Azure Cosmos DB"/>
<input type="text" value="Azure Table Storage"/>	Pictures <input type="text" value="Azure Blob Storage"/>
<input type="text" value="Azure Service Bus Queue"/>	
<input type="text"/>	

Box 1: Azure Data Lake Store

Stream Analytics supports Azure Data Lake Store. Azure Data Lake Store is an enterprise-wide hyper-scale repository for big data analytic workloads. Data Lake Store enables you to store data of any size, type and ingestion speed for operational and exploratory analytics. Stream Analytics has to be authorized to access the Data Lake Store.

Box 2: Azure Cosmos DB

Stream Analytics can target Azure Cosmos DB for JSON output, enabling data archiving and low-latency queries on unstructured JSON data.

Box 3: Azure Blob Storage

Blob storage offers a cost-effective and scalable solution for storing large amounts of unstructured data in the cloud.

Incorrect Answers:

Azure SQL Database:

Azure SQL Database can be used as an output for data that is relational in nature or for applications that depend on content being hosted in a relational database. Stream Analytics jobs write to an existing table in an Azure SQL Database.

Azure Service Bus Queue:

Service Bus Queues offer a First In, First Out (FIFO) message delivery to one or more competing consumers. Typically, messages are expected to be received and processed by the receivers in the temporal order in which they were added to

the queue, and each message is received and processed by only one message consumer.

Azure Table Storage

Azure Table storage offers highly available, massively scalable storage, so that an application can automatically scale to meet user demand. Table storage is Microsoft's NoSQL key/attribute store, which one can leverage for structured data with fewer constraints on the schema. Azure Table storage can be used to store data for persistence and efficient



retrieval.

References: <https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-define-outputs>

QUESTION 5

You have data generated by sensors. The data is sent to Microsoft Azure Event Hubs.

You need to have an aggregated view of the data in near real time by using five-minute tumbling windows to identify short-term trends. You must also have hourly and a daily aggregated views of the data.

Which technology should you use for each task? To answer, drag the appropriate technologies to the correct tasks. Each technology may be used once, more than once, or not at all. You may need to drag the spilt bar between panes or scroll

to view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Correct Answer:

Box 1: Azure HDInsight MapReduce

Azure Event Hubs allows you to process massive amounts of data from websites, apps, and devices. The Event Hubs spout makes it easy to use Apache Storm on HDInsight to analyze this data in real time.

Box 2: Azure Event Hub

Box 3: Azure Stream Analytics

Stream Analytics is a new service that enables near real time complex event processing over streaming data. Combining Stream Analytics with Azure Event Hubs enables near real time processing of millions of events per second.



This

enables you to do things such as augment stream data with reference data and output to storage (or even output to another Azure Event Hub for additional processing).

Reference:

<https://blogs.msdn.microsoft.com/kaevans/2015/02/26/using-stream-analytics-with-event-hubs/>

<https://docs.microsoft.com/en-us/azure/hdinsight/hdinsight-storm-develop-csharp-event-hub-topology>

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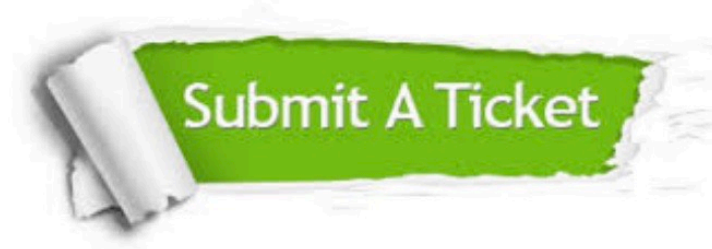
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