



70-475^{Q&As}

Designing and Implementing Big Data Analytics Solutions

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QUESTION 1

You have a Microsoft Azure data factory.

You assign administrative roles to the users in the following table.

User name	Role
User1	Contributor
User2	Administrator
User3	Reader
User4	Automation Operator
User5	Owner

You discover that several new data factory instances were created.

You need to ensure that only User5 can create a new data factory instance.

Which two roles should you change? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. User2 to Reader
- B. User3 to Contributor
- C. User1 to Reader
- D. User4 to Contributor
- E. User5 to Administrator

Correct Answer: AC

QUESTION 2

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

-
-
- Azure Table Storage
- Azure Service Bus Queue
-

Answer Area

- Exploratory analytics
- Unstructured JSON data
- Pictures

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 3

You need to create a new Microsoft Azure data factory by using Azure PowerShell. The data factory will have a pipeline that copies data to and from Azure Storage.

Which four cmdlets should you use in sequence? To answer, move the appropriate cmdlets from the list of cmdlets to the answer area and arrange them in the correct order.

Select and Place:

Cmdlets	Answer Area
New-AzureRMDataFactoryLinkedService	
New-AzureDataFactoryRMDDataFactoryHub	
New-AzureRMDDataFactory	
New-AzureRMDDataFactoryDataset	
New-AzureDataFactoryRMDDataFactoryGateway	
New-AzureRMDDataFactoryPipeline	

Correct Answer:



Cmdlets

New-AzureDataFactoryRMDataFactoryHub
New-AzureDataFactoryRMDataFactoryGateway

Answer Area

New-AzureRMDataFactory
New-AzureRMDataFactoryLinkedService
New-AzureRMDataFactoryDataset
New-AzureRMDataFactoryPipeline

Perform these operations in the following order:

1. Create a data factory.
2. Create linked services.
3. Create datasets.
4. Create a pipeline.

Step 1: New-AzureRMDataFactory

Create a data factory

The New-AzureRmDataFactory cmdlet creates a data factory with the specified resource group name and location.

Step 2: New-AzureRMDataFactoryLinkedService

Create linked services in a data factory to link your data stores and compute services to the data factory.

The New-AzureRmDataFactoryLinkedService cmdlet links a data store or a cloud service to Azure Data Factory.

Step 3: New-AzureRMDataFactoryDataset

You define a dataset that represents the data to copy from a source to a sink. It refers to the Azure Storage linked service you created in the previous step.

The New-AzureRmDataFactoryDataset cmdlet creates a dataset in Azure Data Factory.

Step 4: New-AzureRMDataFactoryPipeline

You create a pipeline.

The New-AzureRmDataFactoryPipeline cmdlet creates a pipeline in Azure Data Factory.

References:



<https://docs.microsoft.com/en-us/azure/data-factory/quickstart-create-data-factory-powershell>

<https://docs.microsoft.com/en-us/powershell/module/azurermdatafactories/new-azurermdatafactory>

QUESTION 4

Note: The 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.

Your company has multiple databases that contain millions of sales transactions.

You plan to implement a data mining solution to identify purchasing fraud.

You need to design a solution that mines 10 terabytes (TB) of sales data. The solution must meet the following requirements:

Run the analysis to identify fraud once per week.

Continue to receive new sales transactions while the analysis runs.

Be able to stop computing services when the analysis is NOT running.

Solution: You create a Cloudera Hadoop cluster on Microsoft Azure virtual machines.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

Processing large amounts of unstructured data requires serious computing power and also maintenance effort. As load on computing power typically fluctuates due to time and seasonal influences and/or processes running on certain times, a cloud solution like Microsoft Azure is a good option to be able to scale up easily and pay only for what is actually used.

Reference: <http://blog.cloudera.com/blog/2016/02/how-to-install-cloudera-enterprise-on-microsoft-azure-part-1/>

QUESTION 5

You have a Microsoft Azure Stream Analytics solution.

You need to identify which types of windows must be used to group the following types of events:

Events that have random time intervals and are captured in a single fixed-size window



Events that have random time intervals and are captured in overlapping windows

Which window type should you identify for each event type? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Events that have random time intervals and are captured in a single fixed-size window:

A hopping window	<input type="checkbox"/>
A sliding window	<input type="checkbox"/>
A tumbling window	<input type="checkbox"/>

Events that have random time intervals and are captured in overlapping windows:

A hopping window	<input type="checkbox"/>
A sliding window	<input type="checkbox"/>
A tumbling window	<input type="checkbox"/>

Correct Answer:

Answer Area

Events that have random time intervals and are captured in a single fixed-size window:

A hopping window	<input type="checkbox"/>
A sliding window	<input checked="" type="checkbox"/>
A tumbling window	<input type="checkbox"/>

Events that have random time intervals and are captured in overlapping windows:

A hopping window	<input type="checkbox"/>
A sliding window	<input checked="" type="checkbox"/>
A tumbling window	<input type="checkbox"/>

Box 1. A sliding Window

Box 2: A sliding Window

With a Sliding Window, the system is asked to logically consider all possible windows of a given length and output events for cases when the content of the window actually changes ?that is, when an event entered or existed the window.

Reference: <https://blogs.technet.microsoft.com/machinelearning/2015/06/01/the-azure-stream-analytics-query-language/>

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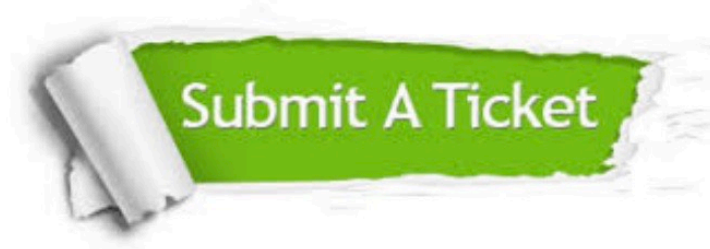
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