



70-475^{Q&As}

Designing and Implementing Big Data Analytics Solutions

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QUESTION 1

You have a web app that accepts user input, and then uses a Microsoft Azure Machine Learning model to predict a characteristic of the user.

You need to perform the following operations:

Track the number of web app users from month to month.

Track the number of successful predictions made during the last minute.

Create a dashboard showcasing the analytics for the predictions and the web app usage.

Which lambda layer should you query for each operation? To answer, drag the appropriate layers to the correct operations. Each layer 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.

Select and Place:

● ● ● ● ●

<p>Layers</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; width: fit-content;">Batch</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px; width: fit-content;">Serving</div> <div style="border: 1px solid black; padding: 5px; width: fit-content;">Speed</div>	● ● ● ●	<p>Answer Area</p> <p>Track the number of successful predictions made during the last minute: Layers</p> <p>Track the number of web app users from month to month: Layers</p> <p>Create a dashboard showcasing the analytics for the predictions and the web app usage: Layers</p>
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Correct Answer:

● ● ● ● ●

<p>Layers</p> <div style="border: 1px solid black; height: 25px; width: 100%;"></div> <div style="border: 1px solid black; height: 25px; width: 100%;"></div> <div style="border: 1px solid black; height: 25px; width: 100%;"></div>	● ● ● ●	<p>Answer Area</p> <p>Track the number of successful predictions made during the last minute: Speed</p> <p>Track the number of web app users from month to month: Batch</p> <p>Create a dashboard showcasing the analytics for the predictions and the web app usage: Serving</p>
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Lambda architecture is a data-processing architecture designed to handle massive quantities of data by taking



advantage of both batch- and stream-processing methods. This approach to architecture attempts to balance latency, throughput,

and fault-tolerance by using batch processing to provide comprehensive and accurate views of batch data, while simultaneously using real-time stream processing to provide views of online data. The two view outputs may be joined before

presentation

Box 1: Speed

The speed layer processes data streams in real time and without the requirements of fix-ups or completeness. This layer sacrifices throughput as it aims to minimize latency by providing real-time views into the most recent data.

Box 2: Batch

The batch layer precomputes results using a distributed processing system that can handle very large quantities of data. The batch layer aims at perfect accuracy by being able to process all available data when generating views.

Box 3: Serving

Output from the batch and speed layers are stored in the serving layer, which responds to ad-hoc queries by returning precomputed views or building views from the processed data.

Reference: https://en.wikipedia.org/wiki/Lambda_architecture

QUESTION 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 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 have a Microsoft Azure subscription that includes Azure Data Lake and Cognitive Services.

An administrator plans to deploy an Azure Data Factory.

You need to ensure that the administrator can create the data factory.

Solution: You add the user to the Data Factory Contributor role.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

Membership in the Data Factory Contributor role lets users do the following things:



* Create, edit, and delete data factories and child resources including datasets, linked services, pipelines, triggers, and integration runtimes.

Note:

To create Data Factory instances, the user account that you use to sign in to Azure must be a member of the contributor or owner role, or an administrator of the Azure subscription.

References: <https://docs.microsoft.com/en-us/azure/data-factory/concepts-roles-permissions>

QUESTION 3

You have an Apache Hadoop system that contains 5 TB of data.

You need to create queries to analyze the data in the system. The solution must ensure that the queries execute as quickly as possible.

Which language should you use to create the queries?

- A. Apache Pig
- B. Java
- C. Apache Hive
- D. MapReduce

Correct Answer: D

QUESTION 4

Your company plans to deploy a web application that will display marketing data to its customers.

You create an Apache Hadoop cluster in Microsoft Azure HDInsight and an Azure data factory.

You need to implement a linked service to the cluster.

Which JSON specification should you use to create the linked service?

- A.

```
{ "name": "AzureBlobOutput", "properties": { "type": "AzureBlob", "linkedServiceName": "StorageLinkedService", "typeProperties": { "folderPath": "adfgetstarted/partitioneddata", "format": { "type": "TextFormat", "columnDelimiter": "" }, "availability": { "frequency": "Month", "interval": 1 } } }
```
- B.

```
{ "name": "HDInsightOnDemandLinkedService", "properties": { "type": "HDInsightOnDemand", "typeProperties": { "version": "3.2", "clusterSize": 1, "timeToLive": "00:30:00", "linkedServiceName": "StorageLinkedService" } } }
```
- C.

```
{ "name": "StorageLinkedService", "properties": { "type": "AzureStorage", "description": "", "typeProperties": { "connectionString": "DefaultEndpointProtocol=https;AccountName=; AccountKey=" } } }
```
- D.

```
{ "name": "AzureBlobInput", "properties": { "type": "AzureBlob", "linkedServiceName": "StorageLinkedService", "typeProperties": { "folderPath": "adfgetstarted/inputdata", "format": { "type": "TextFormat", "columnDelimiter": "" }, "availability": { "frequency": "Month", "interval": 1, "external": true, "policy": {} } } }
```



Correct Answer: B

QUESTION 5

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 have a Microsoft Azure subscription that includes Azure Data Lake and Cognitive Services.

An administrator plans to deploy an Azure Data Factory.

You need to ensure that the administrator can create the data factory.

Solution: You add the user to the Owner role.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

To create Data Factory instances, the user account that you use to sign in to Azure must be a member of the contributor or owner role, or an administrator of the Azure subscription.

References: <https://docs.microsoft.com/en-us/azure/data-factory/concepts-roles-permissions>

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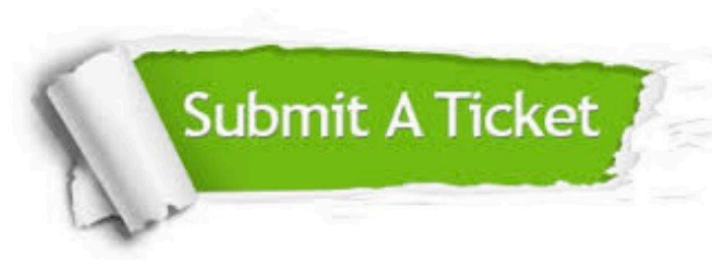
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