



70-475^{Q&As}

Designing and Implementing Big Data Analytics Solutions

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QUESTION 1

You plan to design a solution to gather data from 5,000 sensors that are deployed to multiple machines. The sensors generate events that contain data on the health status of the machines.

You need to create a new Microsoft Azure event hub to collect the event data.

Which command should you run? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Add-Type -Path "C:\temp\Microsoft.ServiceBus.dll"	Get-AzureSBNamespace -Name \$Namespace -NamespaceType Messaging	Get-AzureSBNamespace -Name \$Namespace	Add-Type -TypeName Microsoft.ServiceBus.Messaging.EventHubDescription
New-Object -Path "C:\temp\Microsoft.ServiceBus.dll"	New-AzureSBNamespace -Name \$Namespace -NamespaceType Messaging	Set-AzureSBNamespace -Name \$Namespace	New-Object -TypeName Microsoft.ServiceBus.Messaging.EventHubDescription

Correct Answer:

Answer Area

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Add-Type -Path "C:\temp\Microsoft.ServiceBus.dll"	Get-AzureSBNamespace -Name \$Namespace -NamespaceType Messaging	Get-AzureSBNamespace -Name \$Namespace	Add-Type -TypeName Microsoft.ServiceBus.Messaging.EventHubDescription
New-Object -Path "C:\temp\Microsoft.ServiceBus.dll"	New-AzureSBNamespace -Name \$Namespace -NamespaceType Messaging	Set-AzureSBNamespace -Name \$Namespace	New-Object -TypeName Microsoft.ServiceBus.Messaging.EventHubDescription

Set-AzureSBNameSpace

Box 1: Add-Type -Path "C:\temp\Microsoft.ServiceBus.dll"

Make sure to reference the latest version of the \Microsoft.ServiceBus.dll by using the Add-Type -Path command.

Box 2: New-AzureSBNamespace -Name \$Namespace -NameSpaceType Messaging

To create a new Azure Service Bus namespace you can use the New-AzureSBNamespace PowerShell cmdlet

Box 3: Get-AzureSBNamespace -Name \$Namespace -NameSpaceType Messaging

Example:

Write-Output "Creating the [\$Namespace] namespace in the [\$Location] region..."

New-AzureSBNamespace -Name \$Namespace -Location \$Location -CreateACSNamespace \$CreateACSNamespace -NamespaceType Messaging

\$CurrentNamespace = Get-AzureSBNamespace -Name \$Namespace

Write-Host "The [\$Namespace] namespace in the [\$Location] region has been successfully created."

Box 4: New-Object -TypeName Microsoft.ServiceBus.Messaging.EventHubDescription



References:

<https://blogs.msdn.microsoft.com/paolos/2014/12/01/how-to-create-a-service-bus-namespace-and-an-event-hub-using-a-powershell-script/>

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 a Microsoft Azure SQL database that contains Personally Identifiable Information (PII).

To mitigate the PII risk, you need to ensure that data is encrypted while the data is at rest. The solution must minimize any changes to front-end applications.

What should you use?



- A. Transport Layer Security (TLS)
- B. transparent data encryption (TDE)
- C. a shared access signature (SAS)
- D. the ENCRYPTBYPASSPHRASE T-SQL function

Correct Answer: B

Transparent data encryption (TDE) helps protect Azure SQL Database, Azure SQL Managed Instance, and Azure Data Warehouse against the threat of malicious activity. It performs real-time encryption and decryption of the database, associated backups, and transaction log files at rest without requiring changes to the application.

References: <https://docs.microsoft.com/en-us/azure/sql-database/transparent-data-encryption-azure-sql>

QUESTION 4

Your company supports multiple Microsoft Azure subscriptions.

You plan to deploy several virtual machines to support the services in Azure.

You need to automate the management of all the subscriptions. The solution must minimize administrative effort.

Which two cmdlets should you run? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Clear-AzureProfile
- B. Add-AzureSubscription
- C. Add-AzureRMAccount
- D. Import-AzurePublishSettingsFile
- E. Get-AzurePublishSettingsFile

Correct Answer: DE

QUESTION 5

Overview:

Relecloud is a social media company that processes hundreds of millions of social media posts per day and sells advertisements to several hundred companies. Relecloud has a Microsoft SQL Server database named DB1 that stores

information about the advertisers. DB1 is hosted on a Microsoft Azure virtual machine.

Relecloud has two main offices. The offices are located in San Francisco and New York City.

The offices connect to each other by using a site-to-site VPN. Each office connects directly to the Internet.



Relecloud modifies the pricing of its advertisements based on trending topics. Topics are considered to be trending if they generate many mentions in a specific country during a 15-minute time frame. The highest trending topics generate the

highest advertising revenue.

Relecloud wants to deliver reports to the advertisers by using Microsoft Power BI. The reports will provide real-time data on trending topics, current advertising rates, and advertising costs for a given month. Relecloud will analyze the trending

topics data, and then store the data in a new data warehouse for ad-hoc analysis. The data warehouse is expected to grow at a rate of 1 GB per hour or 8.7 terabytes (TB) per year. The data will be retained for five years for the purpose of

long-term trending.

Requirements:

Management at Relecloud must be able to view which topics are trending to adjust advertising rates in near real-time.

Relecloud plans to implement a new streaming analytics platform that will report on trending topics.

Relecloud plans to implement a data warehouse named DB2.

Relecloud identifies the following technical requirements:

Social media data must be analyzed to identify trending topics in real-time.

The use of Infrastructure as a Service (IaaS) platforms must be minimized, whenever possible.

The real-time solution used to analyze the social media data must support scaling up and down without service interruption.

Relecloud identifies the following technical requirements for the advertisers:

The advertisers must be able to see only their own data in the Power BI reports.

The advertisers must authenticate to Power BI by using Azure Active Directory (Azure AD) credentials.

The advertisers must be able to leverage existing Transact-SQL language knowledge when developing the real-time streaming solution.

Members of the internal advertising sales team at Relecloud must be able to see only the sales date of the advertisers to which they are assigned.

The internal Relecloud advertising sales team must be prevented from inserting, updating, and deleting rows for the advertisers to which they are not assigned.

The internal Relecloud advertising sales team must be able to use a text file to update the list of advertisers, and then to upload the file to Azure Blob storage.

Relecloud identifies the following requirements for DB1:

Data generated by the streaming analytics platform must be stored in DB1.

The user names of the advertisers must be mapped to CustomerID in a table named Table2.

The advertisers in DB1 must be stored in a table named Table1 and must be refreshed nightly.



The user names of the employees at Relecloud must be mapped to EmployeeID in a table named Table3.

Relecloud identifies the following requirements for DB2:

DB2 must have minimal storage costs.

DB2 must run load processes in parallel.

DB2 must support massive parallel processing.

DB2 must be able to store more than 40 TB of data.

DB2 must support scaling up and down, as required.

Data from DB1 must be archived in DB2 for long-term storage.

All of the reports that are executed from DB2 must use aggregation.

Users must be able to pause DB2 when the data warehouse is not in use.

Users must be able to view previous versions of the data in DB2 by using aggregates.

Relecloud identifies the following requirements for extract, transformation, and load (ETL):

Data movement between DB1 and DB2 must occur each hour.

An email alert must be generated when a failure of any type occurs during ETL processing.

Sample code and data:

You execute the following code for a table named rls_table1.

```
create function rls_table1 (@CustomerId int, @SalesPersonId int)
    returns table
    with schemabinding
as
return
select 1 as result
from dbo.table1
join dbo.table2 on table1.customerid = Table2.CustomerId
where table2.UserName = suser_sname()
    and table1.customerid = @CustomerId
union all
select 1 as result
from dbo.table1
join dbo.table3 on table1.salespersonid = table3.EmployeeId
where table3.UserName = suser_sname()
    and table1.salespersonid = @SalesPersonId
go
```

You use the following code to create Table1.

```
create table table1 (customerid int, salespersonid int ... ) Go
```




The following is a sample of the streaming data.

User	Country	Topic	Time
user1	USA	Topic1	2017-01-01T00:00:01.0000000Z
user1	USA	Topic3	2017-01-01T00:02:01.0000000Z
user2	Canada	Topic2	2017-01-01T00:01:11.0000000Z
user3	India	Topic1	2017-01-01T00:03:14.0000000Z

You need to configure the alert to meet the requirements for ETL.

Which settings should you use for the alert? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Event:
Activity Run Finished
Activity Run Started
On-Demand HDI Cluster Create Start
On-Demand HDI Cluster Created Successfully
On-Demand HDI Cluster Deleted

Status:
Failed
Succeeded

Substatus:
--
Abandoned
Failed Execution
Failed Resource Allocation
Failed Validation
Timed Out

Correct Answer:



Answer Area

Event:

Activity Run Finished
Activity Run Started
On-Demand HDI Cluster Create Start
On-Demand HDI Cluster Created Successfully
On-Demand HDI Cluster Deleted

Status:

Failed
Succeeded

Substatus:

--
Abandoned
Failed Execution
Failed Resource Allocation
Failed Validation
Timed Out

QUESTION 6

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:

● ● ● ● ●

Layers

Batch

Serving

Speed

Answer Area

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

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

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

Layers

Layers

Layers

Correct Answer:

● ● ● ● ●

Layers

Answer Area

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

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

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

Speed

Batch

Serving

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 7

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 AzCopy to transfer the data as text files from SQL Server to Azure Blob storage, and then you use PolyBase to run Transact-SQL statements that refresh the data warehouse database.

Does this meet the goal?

A. Yes

B. No

Correct Answer: A

If you need the best performance, then use PolyBase to import data into Azure SQL warehouse.

Note: Often the speed of migration is an overriding concern compared to ease of setup and maintainability, particularly when there's a large amount of data to move. Optimizing purely for speed, a source controlled differentiated approach relying on bcp to export data to files, efficiently moving the files to Azure Blob storage, and using the Polybase engine to import from blob storage works best. References: <https://docs.microsoft.com/en-us/azure/sql-data-warehouse/sql-data-warehouse-migrate-data>

QUESTION 8

You have a Microsoft Azure data factory named ADF1 that contains a pipeline named Pipeline1.

You plan to automate updates to Pipeline1.

You need to build the URL that must be called to update the pipeline from the REST API.

How should you complete the URL? To answer, drag the appropriate URL elements to the correct locations. Each URL element 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:

URL Elements

-
-
-
-
-

Answer Area

https:// /subscriptions/
12300000-0000-0000-0000-000000000212/resourcegroups/adf/providers/
 /
 ?api-version=2015-02-28

Correct Answer:

URL Elements

-
-
-
-

Answer Area

https:// /subscriptions/
12300000-0000-0000-0000-000000000212/resourcegroups/adf/providers/
 /
 ?api-version=2015-02-28

Box 1: management.azure.com

The Create or Update Data Factory request may be constructed as follows (HTTPS is recommended): PUT
<https://management.azure.com/subscriptions/{SubscriptionID}/resourcegroups/{ResourceGroupName}/providers/>

[Microsoft.DataFactory/datafactories/{DataFactoryName}?api-version={api-version}](https://management.azure.com/subscriptions/{SubscriptionID}/resourcegroups/{ResourceGroupName}/providers/Microsoft.DataFactory/datafactories/{DataFactoryName}?api-version={api-version})

Box 2: Microsoft.DataFactory/datafactories/adf1

The Microsoft Azure data factory is named ADF1.

Box 3: datapipelines/pipeline1

The pipeline is named Pipeline1.

References:

<https://docs.microsoft.com/en-us/rest/api/datafactory/v1/data-factory-data-factory>

QUESTION 9

Overview:

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from dbo.table1
join dbo.table2 on table1.customerid = Table2.CustomerId
where table2.UserName = suser_sname()
    and table1.customerid = @CustomerId
union all
select 1 as result
from dbo.table1
join dbo.table3 on table1.salespersonid = table3.EmployeeId
where table3.UserName = suser_sname()
    and table1.salespersonid = @SalesPersonId
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user2	Canada	Topic2	2017-01-01T00:01:11.0000000Z
user3	India	Topic1	2017-01-01T00:03:14.0000000Z

You need to implement a solution that meets the data refresh requirement for DB1.

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.

Select and Place:



Actions

Answer Area

- In DB1, create external objects.
- From the Azure portal, export the storage account key.
- In DB1, create a stored procedure that imports data from an external table to Table1.
- From the Azure portal, create and schedule an Azure Automation job that executes the stored procedure.
- In DB1, create a staging table.



Correct Answer:

Actions

Answer Area

- In DB1, create external objects.
-
-
-
- In DB1, create a staging table.



- In DB1, create a stored procedure that imports data from an external table to Table1.
- From the Azure portal, export the storage account key.
- From the Azure portal, create and schedule an Azure Automation job that executes the stored procedure.



Azure Data Factory can be used to orchestrate the execution of stored procedures. This allows more complex pipelines to be created and extends Azure Data Factory's ability to leverage the computational power of SQL Data Warehouse.

From scenario:

Relecloud has a Microsoft SQL Server database named DB1 that stores information about the advertisers. DB1 is hosted on a Microsoft Azure virtual machine.

Relecloud identifies the following requirements for DB1:

Data generated by the streaming analytics platform must be stored in DB1.



The advertisers in DB1 must be stored in a table named Table1 and must be refreshed nightly.

Reference: <https://docs.microsoft.com/en-us/azure/machine-learning/machine-learning-data-science-move-sql-server-virtual-machine>

QUESTION 10

Your company has two Microsoft Azure SQL databases named db1 and db2.

You need to move data from a table in db1 to a table in db2 by using a pipeline in Azure Data Factory.

You create an Azure Data Factory named ADF1.

Which two types of objects should you create in ADF1 to complete the pipeline? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. a linked service
- B. an Azure Service Bus
- C. sources and targets
- D. input and output datasets
- E. transformations

Correct Answer: AD

You perform the following steps to create a pipeline that moves data from a source data store to a sink data store:

Create linked services to link input and output data stores to your data factory.

Create datasets to represent input and output data for the copy operation.

Create a pipeline with a copy activity that takes a dataset as an input and a dataset as an output.

Reference: <https://docs.microsoft.com/en-us/azure/data-factory/data-factory-azure-table-connector>

QUESTION 11

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others might not have a correct solution.

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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 12

You are designing an Internet of Thing: (IoT) solution intended to identify trends. The solution requires the real-time analysis of data originating from sensors. The results of the analysis will be stored in a SQL database.

You need to recommend a data processing solution that uses the Transact-SQL language.

Which data processing solution should you recommend?

A. Microsoft Azure Stream Analytics

B. Microsoft Azure HDInsight Spark clusters

C. Microsoft Azure Event Hubs

D. Microsoft Azure HDInsight Hadoop clusters

Correct Answer: A

For your Internet of Things (IoT) scenarios that use Event Hubs, Azure Stream Analytics can serve as a possible first step to perform near real-time analytics on telemetry data. Just like Event Hubs, Stream Analytics supports the streaming of millions of event per second. Unlike a standard database, analysis is performed on data in motion. This streaming input data can also be combined with reference data inputs to perform lookups or do correlation to assist in unlocking business insights. It uses a SQL-like language to simplify the analysis of data inputs and detect anomalies, trigger alerts or transform the data in order to create valuable outputs.

Reference: <https://www.linkedin.com/pulse/getting-started-azure-iot-services-stream-analytics-rob-tiffany>



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