



# 70-475<sup>Q&As</sup>

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 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>

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## QUESTION 2

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 3

You have data in an on-premises Microsoft SQL Server database.

You must ingest the data in Microsoft Azure Blob Storage from the on-premises SQL Server database by using Azure Data Factory.

You need to identify which tasks must be performed from Azure.

In which sequence should you perform the actions? To answer, move all of the actions from the list of actions to the answer area and arrange them in the correct order.

NOTE: More than one order of answer choices is correct. You will receive credit for any of the correct orders you select.

Select and Place:

| Actions   | Answer Area |
|---|-------------|
| Create a pipeline that contains a Copy Activity that uses a source type of SqlSource and a sink type of BlobSink. |             |
| Configure a Microsoft Data Management Gateway.  |             |
| Create an input dataset and an output dataset.  |             |
| Create a linked service for Azure Blob storage.   |             |
| Create a linked service for SQL Server.   |             |

Correct Answer:



| Actions | Answer Area   |
|---------|---|
|         | Configure a Microsoft Data Management Gateway.  |
|         | Create a linked service for Azure Blob storage.   |
|         | Create a linked service for SQL Server.   |
|         | Create an input dataset and an output dataset.  |
|         | Create a pipeline that contains a Copy Activity that uses a source type of SqlSource and a sink type of BlobSink. |

#### Step 1: Configure a Microsoft Data Management Gateway

Install and configure Azure Data Factory Integration Runtime.

The Integration Runtime is a customer managed data integration infrastructure used by Azure Data Factory to provide data integration capabilities across different network environments. This runtime was formerly called "Data Management

Gateway".

#### Step 2: Create a linked service for Azure Blob storage

Create an Azure Storage linked service (destination/sink). You link your Azure storage account to the data factory.

#### Step 3: Create a linked service for SQL Server

Create and encrypt a SQL Server linked service (source)

In this step, you link your on-premises SQL Server instance to the data factory.

#### Step 4: Create an input dataset and an output dataset.

Create a dataset for the source SQL Server database. In this step, you create input and output datasets. They represent input and output data for the copy operation, which copies data from the on-premises SQL Server database to Azure

Blob storage.

#### Step 5: Create a pipeline..

You create a pipeline with a copy activity. The copy activity uses SqlServerDataset as the input dataset and AzureBlobDataset as the output dataset. The source type is set to SqlSource and the sink type is set to BlobSink.

References: <https://docs.microsoft.com/en-us/azure/data-factory/tutorial-hybrid-copy-powershell>

### QUESTION 4

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>

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## QUESTION 5

You plan to implement a Microsoft Azure Data Factory pipeline. The pipeline will have custom business logic that requires a custom processing step.

You need to implement the custom processing step by using C#.

Which interface and method should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



## Answer Area

Interface:

|                  |   |
|------------------|---|
|                  | ▼ |
| ICustomActivity  |   |
| IDotNetActivity  |   |
| IGenericActivity |   |

Method:

|         |   |
|---------|---|
|         | ▼ |
| Copy    |   |
| Execute |   |
| Run     |   |
| Update  |   |

Correct Answer:



## Answer Area

Interface:

|                  |   |
|------------------|---|
|                  | ▼ |
| ICustomActivity  |   |
| IDotNetActivity  |   |
| IGenericActivity |   |

Method:

|         |   |
|---------|---|
|         | ▼ |
| Copy    |   |
| Execute |   |
| Run     |   |
| Update  |   |

References: <https://github.com/MicrosoftDocs/azure-docs/blob/master/articles/data-factory/v1/data-factory-use-custom-activities.md>

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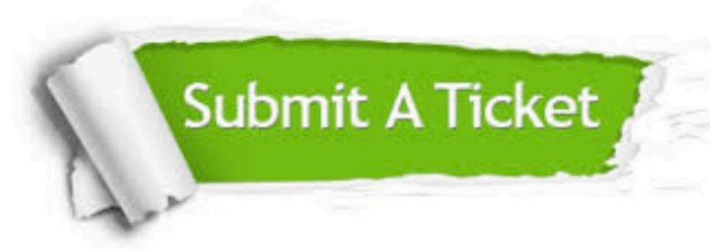
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