Knowledge check

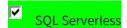
Total points 6

1. Question 1

Much of the functionality of Azure Data Factory appears in Azure Synapse Analytics as a feature called pipelines. You can use it to integrate data pipelines between which of the following?

Select all options that apply.

1/1 point



Correct

Pipelines enable you to integrate data pipelines between SQL Pools, Spark Pools, and SQL Serverless.



Correct

Pipelines enable you to integrate data pipelines between SQL Pools, Spark Pools, and SQL Serverless.

Apache Hive



Correct

Pipelines enable you to integrate data pipelines between SQL Pools, Spark Pools, and SQL Serverless.

2. Question 2

Which of the following provides a cloud-based data integration service that orchestrates the movement and transformation of data between various data stores and compute resources?

1/1 point



Azure Databricks

C Azure HDInsight

C Azure SQL Database

Correct

Azure Data Factory is the platform that solves such data scenarios. It is the cloud-based ETL and data integration service that allows you to create data-driven workflows for orchestrating data movement and transforming data at scale.

3. Question 3

ADF has native functionality to ingest and transform data, sometimes it will instruct another service, such as Databricks, to perform the actual work required on its behalf. Which of the following terms best describes this process?

1/1 point



C Integration

Transformation

Correct

ADF orchestrates the execution of a query, and then provides the pipelines to move the data onto the next step or destination.

4. Question 4

Which of the following terms describes analyzing past data patterns and trends by looking at historical data and customer insights?

1/1 point



Predictive Analytics

C Prescriptive Analytics

Correct

Descriptive Analytics tells you what happened in the past.

5. Question 5

Microsoft Azure provides a variety of data platform services that enables you to perform different types of analytics. Predictive analytics can be implemented through which of the following features?

Select all options that apply

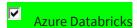
0.75 / 1 point



Correct

Machine Learning Services enables you to perform different types of analytics including predictive analytics.

HDInsight



Correct

Azure Databricks enables you to perform different types of analytics including predictive analytics.
Azure Data Lake Storage Gen2
You didn't select all the correct answers
6. Question 6 Data integration includes extraction, transformation, and loading of data. It is commonly referred to as Extract-Transform-Load or ETL.
At which stage in the ETL process is the splitting, combining, deriving, adding, and removing data carried out?
1 / 1 point
Transform
Correct
Data transformation operations can include splitting, combining, deriving, adding, removing, or pivoting columns.
Extract
Load

Knowledge check

Total points 6

-	\sim	. •	- 4
	()11e	stion	- 1
_,	Que	ouon	

You are creating a new Azure Data Factory instance. The instance name must be unique within which of the following?

1/1 point

0	Globally within Azure
0	The Resource Group
0	The Azure Subscription
O	The region

Correct

The name of the Azure data factory instance must be globally unique within Azure.

2. Question 2

How would you define an Azure factory dataset?

1/1 point

- A Dataset does not exist in Azure Data factory
- A Dataset is a table that holds a copy of the data for the destination.
- A dataset is a named view that points to, or references, the data.
- A dataset is a table that holds a copy of the data from the source.

Correct

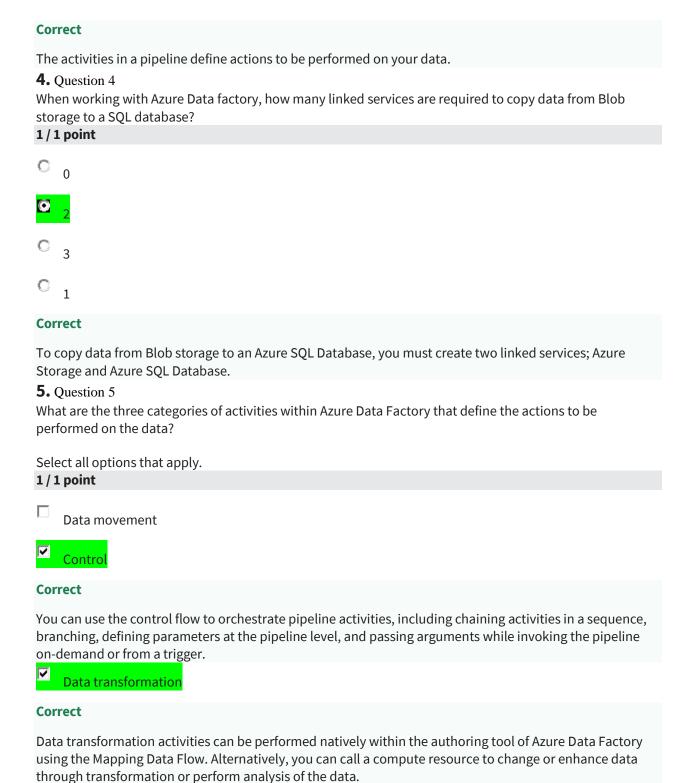
A dataset is a named view of data that simply points to, or references, the data you want to use in your activities as inputs and outputs.

3. Question 3

How would you define an Azure Data Factory pipeline?

1/1 point

- A pipeline contains the transformation logic, or the analysis commands, of the Azure Data Factory's work.
- A Pipeline is a named view of data.
- A pipeline is a logical grouping of activities that together perform a task.



Linked Service

6. Question 6

When graphically authoring ADF solutions, you can use the control flow within the design to orchestrate which of the following pipeline activities?

Select all options that apply.

1/1 point

Execute Pipeline Activity

Correct

Execute Pipeline activity allows an Azure Data Factory pipeline to invoke another pipeline.

Parameters Activity

WebActivity

Correct

Web Activity can be used to call a custom REST endpoint from an Azure Data Factory pipeline. You can pass datasets and linked services to be consumed and accessed by the activity.

ForEach Activity

Correct

For Each Activity defines a repeating control flow in your pipeline. This activity is used to iterate over a collection and execute specified activities in a loop.

Knowledge check

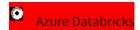
Total points 5

1. Question 1

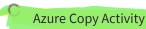
Which of the following methods provides the ability to build code-free data ingestion pipelines with zero transformation during the extraction of the data?

0 / 1 point

Azure Machine Learning Studio



C Azure SQL Data Warehouse



Incorrect

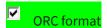
Azure Data Factory can call on compute resources to process data by a data platform service that may be better suited to the job. Azure Databricks is more suitable for use with Notebook, Jar and Python files.

2. Ouestion 2

Connectors are Azure Data Factory objects that enable your Linked Services and Datasets to connect to a wide variety of data sources and sinks. Which of the following are supported file formats?

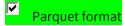
Select all options that apply.

1/1 point



Correct

The ORC format is a supported file format.



Correct

The Parquet format is a supported file format.

YAML Format



Correct

The Binary format is a supported file format.

3. Question 3

You want to ingest data from a SQL Server database hosted on an on-premises Windows Server. What integration runtime is required for Azure Data Factory to ingest data from the on-premises server?

1/1 point **Self-Hosted Integration Runtime Correct** A self-hosted integration runtime can run copy activities between a cloud data store and a data store in a private network. It also can dispatch transform activities against compute resources in an on-premises network or an Azure virtual network. Azure-SSIS Integration Runtime Azure Integration Runtime **4.** Ouestion 4 In Azure Data Factory when creating a new Copy Activity, which of the following steps do you carry out? 1/1 point Click on Author, and create a new copy activity Click on Monitor and add a new pipeline and copy activity Click on Manage, and add a new copy activity Open the authoring canvas, create a new Pipeline, or use an existing pipeline and then add a new cop activity **Correct** The correct process is to open the authoring canvas, create a new Pipeline and then add a new copy activity. **5.** Question 5 Azure Data Factory provides the ability to lift and shift existing SQL Server Integration Services workloads and natively execute these packages. Which of the following would you select to do this? 1/1 point An Azure-SSIS Integration Runtime Integrate with Azure Databricks Use Azure Machine Learning

Correct

An Azure Function

Azure Data Factory provides the ability to lift and shift existing SSIS workload by creating an Azure-SSIS Integration Runtime to natively execute SSIS packages.

Knowledge check

Total points 6

1. Question 1

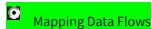
Azure Data Factory provides a range of methods to perform transformations. Which of the following would you use to perform transformations without writing code?

1/1 point

Q.	Azure Machine Learning	Studio
	, Lare machine Learning	0

HDInsight Pig activity

Stored procedure activity



Correct

Mapping data flows are visually designed data transformations in Azure Data Factory. Data flows allow data engineers to develop graphical data transformation logic without writing code. The resulting data flows are executed as activities within Azure Data Factory pipelines that use scaled-out Spark clusters. Data flow activities can be operationalized via existing Data Factory scheduling, control, flow, and monitoring capabilities.

2. Question 2

Which of the following transformations are directly available in the Mapping Data Flows activity?

Select all options that apply.

1/1 point



Correct

Exists checks whether your data exists in another source or stream.

Conditional Split

Correct Conditional Split can be used to route rows of data to different streams based on matching conditions. Insert Aggregate **Correct** Define different types of aggregations such as SUM, MIN, MAX, and COUNT grouped by existing or computed columns. 3. Question 3 Mapping Data Flow follows an extract, load, transform (ELT) approach and works with staging datasets that are in Azure. Which of the following datasets can be used in a source transformation? Select all options that apply. 0.5 / 1 point Azure Synapse Analytics Azure CosmosDB **Correct** Mapping Data Flow supports Azure Cosmos DB Azure Blob Storage (JSON, Avro, Text, Parquet) **Correct** Mapping Data Flow supports Azure Blob Storage (JSON, Avro, Text, Parquet) Microsoft SQL Server This should not be selected Mapping Data Flow currently supports staging datasets that are all in Azure. 4. Question 4 Mapping Data Flows support Debug so that you can interactively watch how the data transformations are executing. When enabling Debug you are be prompted to select the Integration runtime to use. If you select AutoResolveIntegrationRuntime a cluster will be made available automatically. How many Cores will be made available in the cluster and what will the time to live be in minutes? 1/1 point 4 Cores and 60 Minutes 8 cores and 60 minutes 8 Cores and 30 Minutes

O	4 Cores and 30 Minutes
Cor	rect
Sel	ecting AutoResolveIntegr

Selecting AutoResolveIntegrationRuntime, will create a cluster of 8 cores and a time to live of 60 Minutes

5. Question 5

When working with Azure Data Factory and wrangling data flows. You add a Source dataset for your wrangling data flow and select a sink dataset. If you use an Azure Data Lake Storage Gen2 Connector what type of authentication is supported in this instance?

Select all options that apply.

1/1 point



Account Key

Correct

Azure Data Lake Storage Gen2 supports Data Formats of CSV and Parquet and Authentication of Account Key and Service Principal.

SQL authentication

Azure Data Lake Storage Gen2 supports Data Formats of CSV and Parquet and Authentication of Account Key and Service Principal.



Azure Data Lake Storage Gen2 supports Data Formats of CSV and Parquet and Authentication of Account Key and Service Principal.

Correct

Anonymous Access

6. Question 6

In Azure Data Factory Transformations which transformation in the Mapping Data Flow is used to route data rows to different streams based on matching conditions?

1/1 point

C Lookup



Select

Union

Correct

A Conditional Split transformation routes data rows to different streams based on matching conditions. The conditional split transformation is similar to a CASE decision structure in a programming language.

Knowledge check

Total points 5

1. Question 1

Star schema design theory refers to common SCD types. In this design approach, the Dimension Table always reflects the latest values, and when changes in source data are detected, the dimension table data is overwritten. What SCD Type is being referred to in this scenario?

1/1 point

Type 6 SCD

Type 3 SCD

Type 1 SCD

Type 2 SCD

Correct

A Type 1 SCD always reflects the latest values, and when changes in source data are detected, the dimension table data is overwritten. This design approach is common for columns that store supplementary values, like the email address or phone number of a customer.

2. Question 2

Star schema design theory refers to common SCD types. In this design approach, the Dimension Table s supports storing two versions of a dimension member as separate columns. What SCD Type is being referred to in this scenario?

1/1 point

Type 2 SCD

Type 3 SCI

C Type 1 SCD

Type 6 SCD

Correct

A Type 3 SCD supports storing two versions of a dimension member as separate columns. The table includes a column for the current value of a member plus either the original or previous value of the member. So, Type 3 uses additional columns to track one key instance of history, rather than storing additional rows to track each change like in a Type 2 SCD.

3. Question 3

You want to load a dimension table in Azure Synapse from source data in your Azure Synapse database using mapping data flows. Which of the following options would you choose in Synapse Studio Hub to create a Type 1 SCD in a Mapping Data Flow pipeline activity?

т/л	t point
0	Data
O	Integrate
0	Develop
0	Manage

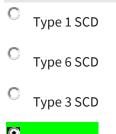
Correct

The Develop hub contains your SQL scripts, notebooks, data flows, and Spark job definitions.

4. Question 4

Which SCD type would you use to keep history of changes in dimension members by adding a new row to the table for each change?

1/1 point



Correct

When a value changes, Type 2 SCD will add a new row for the entity with a start date, end date, and unique key which will join back to any transactions in the fact table within the effective data range.

5. Question 5

Which SCD type would you use to update the dimension members without keeping track of history?

1/1 point

C Type 2 SCD



Type 3 SCD
Type 6 SCD
Correct
When a value changes, Type 1 SCD will update the existing record without keeping history.
Managed and an all and a
Knowledge check Total points 6
1. Question 1 Control flow is the orchestration of pipeline activities. The If-condition activity which is similar to an if-statement provided in programming languages is an example of which type of control flow activity? 1/1 point
C Looping Containers
Trigger based floes
Chaining Activity
Correct A branching activity evaluates a set of activities, and when the condition evaluates to true, a set of activities are executed. When it evaluates to false, then an alternative set of activities is executed.
2. Question 2 In Azure Data Factory activities in which a combination of ingesting and cleaning log data alongside a mapping data flow that analyzes the log data is referred to as which of the following?
1/1 point
Branching activity

C Looping containers

Custom State passing



Correct

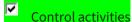
A pipeline in Azure Data Factory represents a logical grouping of activities where the activities together perform a certain task. An example of a combination of activities in one pipeline can be, ingesting and cleaning log data in combination with a mapping data flow that analyzes the log data that has been cleaned.

3. Question 3

In Azure Data factory there are many activities that are possible in a pipeline. These activities are grouped into 3 categories. Which of the following are categories of activities?

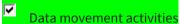
Select all options that apply.

1/1 point



Correct

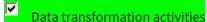
Examples of control flow activities are 'get metadata', 'For Each', and 'Execute Pipeline'.



Correct

The Copy Activity in Data Factory copies data from a source data store to a sink data store.

Branching Activities



Correct

Azure Data Factory supports transformation activities such as Data Flow, Azure Function, Spark, and others that can be added to pipelines either individually or chained with another activity.

4. Question 4

In Azure Data factory activity dependency defines how subsequent activities depend on previous activities. In order to complete a task, an activity that depends on one or more previous activities, can have different dependency conditions.

What are the four dependency conditions?

Select all options that apply.

1/1 point

Completed with Errors



Correct

Failed is a valid dependency.



Correct

Succeeded is a valid dependency.



Correct

Skipped is a valid dependency.

Completed
Correct
Completed is a valid dependency.
Pending
5. Question 5
True or False
In Azure Data Factory, Pipelines or activities must be published prior to being debugged.
1/1 point
C
True
False
Correct
In Azure Data Factory, there is no need to publish changes in the pipeline or activities before you want to
debug. This is helpful in a scenario where you want to test the changes and see if it works as expected
before you actually save and publish them.
6. Question 6
True or False
In Azure Data Factory you enable Debug by selecting the Debug slider. What features will be enabled when
selecting the Slider?
1/1 point
Enables the Debug feature and run the pipeline
Enables the Debug feature runs the Pipeline and publishes the pipeline
Enables the Debug feature only
Enables the Debug feature and publishes the pipeline
Correct
Enabling the Debug feature will run the pipeline.

Knowledge Check

Total points 6

1. Question 1

In SQL Server, which of the following is a unit of deployment for SSIS solutions?

1/1 point



SSIS Packages

Correct

A project is the unit of deployment for SSIS solutions. You can deploy projects to an SSIS catalog in a SQL Server instance, and configure project-level parameter values and connections as appropriate for execution environments.

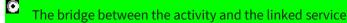
2. Question 2

In Azure data factory an Integration Runtime (IR) can be defined as which of the following?

1/1 point

The Action to be performed

A target data store on a compute service



An Integration Runtime (IR) provides the bridge between the Activity and Linked Services.

3. Question 3

When creating a new SSIS Integration Runtime which of the following pieces of information are required on the General setting page?

Select all options that apply. 0.8 / 1 point 哮 Name **Correct** Name is a required entry.

Location

Correct

Location is a required entry.

Node Number **Node Size**

Node Size is a required entry.

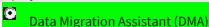
Description

You didn't select all the correct answers

4. Question 4

When you migrate your database workloads from SQL Server on premises to Azure SQL database services, you may have to migrate SSIS packages as well. The first step required is to perform an assessment of you current SSIS packages to make sure that they are compatible in Azure. Which of the following tools would be most appropriate to check for compatibility issues?

1/1 point



SQL Server Management Studio (SSMS)

SQL Server Data Tools (SSDT)

Correct

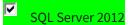
The first step required is to perform an assessment of your current SSIS packages to make sure that they are compatible in Azure. You can use the Data Migration Assistant (DMA) to perform an assessment of the SSIS packages that exist and identify any compatibility issues with them.

5. Question 5

An SSIS Project is the unit of deployment for SSIS solutions. In which version of SQL Server was SSIS Projects introduced?

1/1 point

SQL Server 2016



Correct

SSIS Projects were introduced in SQL Server 2012 and is the unit of deployment for SSIS solutions.

SQL Server 2008

6. Question 6

Which tool is used to create and deploy SQL Server Integration Packages on an Azure-SSIS integration runtime, or for on-premises SQL Server?

SQL Server Management Studio

SQL Server Data Tools

Correct

SQL Server Data Tools is typically used to create and deploy SQL Server Integration Services (SSIS) packages.

dtexec

This should not be selected

The dtexec command prompt utility is used to configure and execute SQL Server Integration Services packages.

Knowledge check

Total points 6

1. Question 1

In Azure Data Factory you can programmatically interact with multiple languages and SDKs. Which of the following languages and SDKs can you use?

Select all options that apply.

1/1 point

Yaml



Correct

In Azure Data Factory you can programmatically interact with languages and SDKs such as Python.



Correct

In Azure Data Factory you can programmatically interact with languages and SDKs such as PowerShell.



Correct

In Azure Data Factory you can programmatically interact with languages and SDKs such as .NET.



Correct

In Azure Data Factory you can programmatically interact with languages and SDKs such as REST API's.

2. Question 2

Azure Data Factory allows you to configure a Git repository with either Azure Repos or GitHub.

Which of the following are advantages of using GIT Integration?

Select all options that apply.

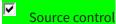
1/1 point

PowerShell or an SDK changes are published directly to GIT



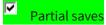
Correct

With GIT integration makes certain actions easier such as Configuring release pipeline to trigger automatically as soon as there are any changes made to your 'dev' factory.



Correct

Using GOT Source Control provides benefits such as the ability to track/audit changes and revert changes that introduced bugs.



Correct

Configuring a git repository allows you to save changes, letting you only publish when you have tested your changes to your satisfaction.

3. Question 3

Which of the following would you select when you need to merge changes in your feature Branch to your collaboration branch?

0/1 point



Create Merge Request

Create pull request

Incorrect

There is no Create Push request when you need to merge changes in your feature Branch to your collaboration branch.

4. Question 4

What effect does removing a Git configuration from a Data Factory have on the repository?

1/1 point

It does not delete anything from the repository and the factory will still contain all published resources and you can continue to edit the factory directly against the service.

It deletes everything from the repository. The factory will also lose access to all published resources, and you cannot continue to edit the factory directly against the service.

It deletes everything from the repository. The factory will still contain all published resources and you can continue to edit the factory directly against the service.

Correct

Removing Git configuration from a data factory doesn't delete anything from the repository. The factory will contain all published resources. You can continue to edit the factory directly against the service.

5. Question 5

Mapping data flows allow you to build code-free data transformation logic that runs at scale. When building your logic, you can turn on a debug session to interactively work with your data. Which of the following is created when turning on Debug?

1/1 point

Data Lake Storage Account

Spark Cluster

© Blob Storage

MS SQL Cluster

Correct

When building your logic, you can turn on a debug session to interactively work with your data using a live Spark cluster.

6. Question 6

In Azure Data factory what is a supported connector for built-in parameterization?

1/1 point

Azure Synapse Analytics

C Azure Data Lake Storage Gen2

C Azure Key Vault

Correct

Azure Synapse Analytics is a supported connector for built-in parameterization for Linked Services in Azure Data Factory.

Knowledge check

Total points 6

1. Question 1

True or False

Azure Data Factory provides support for both code-free Extract Transform Load (ETL) and Extract Load Transform (ELT) processes.

1/1 point



False



Correct

Azure Data Factory gives you the opportunity to perform code-free Extract Transform Load (ETL) and Extract Load Transform (ELT).

2. Question 2

As a data provider, you can share datasets with third parties or between departments within your organization. You would like to give your data consumers the ability to automatically get refreshed data, in this scenario, which feature would you enable?

1/1 point



Snapshots



Data Ingestion

Correct

You can configure a snapshot schedule, so that your data consumers have an option to automatically get refreshed data.

3. Question 3

Azure Data Share provides open and flexible data sharing, including the ability to share from and to different data stores. Which of the following Data stores support incremental snapshots?

Azure Data Lake Storage Gen2 Correct Azure Data Share supports incremental snapshots for Azure Data Lake Storage Gen2. Azure Blob Storage Correct Azure Data Share supports incremental snapshots for Blob Storage. Azure Data Lake Storage Gen1 Correct Azure Data Share supports incremental snapshots for Azure Data Lake Storage Gen1.
Correct Azure Data Share supports incremental snapshots for Azure Data Lake Storage Gen2. Azure Blob Storage Correct Azure Data Share supports incremental snapshots for Blob Storage. Azure Data Lake Storage Gen1 Correct
Azure Data Share supports incremental snapshots for Azure Data Lake Storage Gen2. Azure Blob Storage Correct Azure Data Share supports incremental snapshots for Blob Storage. Azure Data Lake Storage Gen1 Correct
Azure Blob Storage Correct Azure Data Share supports incremental snapshots for Blob Storage. Azure Data Lake Storage Gen1 Correct
Correct Azure Data Share supports incremental snapshots for Blob Storage. Azure Data Lake Storage Gen1 Correct
Azure Data Share supports incremental snapshots for Blob Storage. Azure Data Lake Storage Gen1 Correct
Azure Data Lake Storage Gen1 Correct
Correct
Azura Data Share sunnorts incremental snanshots for Azura Data Lake Storage (201)
Azure Data Share supports incrementat shapshots for Azure Data Lake Storage Gent.
Azure SQL Database
4. Question 4
When creating an Azure Data Share from within the portal you must specify which of the following?
Select all options that apply.
1/1 point
Correct
You must select a Location for the Data Share.
Name Name
Correct
You must specify a Name for the Data Share.
Tag
Version
Resource Group Name
Correct
Resource Group name must be specified by either selecting an existing Resource Group or creating a new
Resource Group.
5. Question 5
You are defining the connection information for Azure Data Factory to an external resource that you want
to connect with, such as an Azure SQL Database. In this scenario, which of the following do you need to create to connect to an external resource?
0 / 1 point
Linked Service
Pipeline

Incorrect

a dataset is a named view of data that simply points or references the data you want to use in your activities as inputs and outputs.

6. Question 6

When creating Azure Data Shares which of the following should be selected to enable access to data at source?

1/1 point



Snapshot sharing

Correct

Choose in-place sharing to provide access to data at its source. Supported data stores include Azure Data Explorer.

Knowledge check

Total points 6

1. Question 1

A Mapping Data Flow is a visually designed transformation service in Azure Data Factory. With the ability to visually design things such as different types of joins, aggregate functions etc. Which of the following Join types are supported in Mapping Data Flow?

Select all options that apply.

1/1 point



Correct

Mapping data flows supports Inner join which only outputs rows that have matching values in both tables.

Union

Right Outer

Correct

Mapping data flows supports Right outer join which returns all rows from the right stream and matched records from the left stream.



Correct

Mapping data flows supports Left outer join which returns all rows from the left stream and matched records from the right stream.

2. Question 2

In Azure Data factory after you have finished joining and transforming a dataset through a mapping data flow, it is important to write the newly created dataset into a destination store. Which of the following options would you use to do this?

options would you use to do this? 1/1 point
Sink
C Copy
Union
© Merge
Correct In a mapping data flow after you finish transforming your data, you write it into a destination store by using the sink transformation.
3. Question 3 In a Mapping Data Flow after you finish transforming your data, you write it into a destination store by using the sink transformation. When using sink transformations which of the following statements is True? 1/1 point
Every data flow requires at least one sink transformation, and you can write to multiple sinks as necessary. Every data flow requires at least one sink transformation, but cannot write to multiple sinks.
Correct Every data flow requires at least one sink transformation, but you can write to as many sinks as necessary to complete your transformation flow. To write to additional sinks, create new streams via new branches and conditional splits.
4. Question 4 In Azure Data Factory, what is a logical grouping of activities referred to as?
1/1 point
Data Ingestion
A Linked Service
A Sink

Correct

A Pipeline

A pipeline in Azure Data Factory is a logical grouping of activities such as copy to perform a task. The activity defines the operation that you're performing on the data (therefore, a copy means copying the same data to another data store).

5. Question 5

To add or remove datasets created with Azure Data Share which of the following is True?

1/1 point

- It is only possible to remove or add datasets before it's sent within Azure Data Share.
- It is not possible to add or remove datasets if created with Azure Data Share.
- It is possible to add or remove datasets within Azure Data Share after it has been created.

Correct

It is possible to add or remove datasets after it has been created in Azure Data Share.

6. Question 6

What must be done when a connector in Azure Data Factory is not supported in a mapping data flow task to transform data from one of these sources?

1/1 point

- Ingest the data into a supported source using the copy activity.
- Use an aggregate transformation in the Dataflow activity.
- Use a group by activity in the Dataflow activity.

Correct

If a connector in Data factory is not supported, create a copy activity of the source data into a supported data source in mapping dataflow and continue the transformations from there.

Test prep

Latest Submission Grade 90%

1. Question 1

Which of the following processes will allow data to be extracted and loaded in its native format?

Select all options that apply.

1 / 1 point



Correct

In an ELT process, data is extracted and loaded in its native format. This change reduces the time required to load the data into a destination system. The difference with ELTL is that it also has a final load into a destination system.



Correct

In an ELT process, data is extracted and loaded in its native format. This change reduces the time required to load the data into a destination system.

2. Question 2

Select all options that apply.

Pipelines in Azure Data Factory typically perform the four distinct steps. Identify these steps?

1/1 point



Correct

Azure Data Factory has built-in support for pipeline monitoring via Azure Monitor, API, PowerShell, Azure Monitor logs, and health panels on the Azure portal, to monitor the scheduled activities and pipelines for success and failure rates.

Connect and Collect

Correct

The first step is to define and connect all the required sources of data together, such as databases, file shares, and FTP web services. The next step is to ingest the data as needed to a centralized location for subsequent processing.



Correct

After the raw data has been refined into a business-ready consumable form from the transform and enrich phase, you can load the data into the Azure Data Warehouse.



Correct

Compute services such as Databricks and Machine Learning can be used to prepare or produce transformed data on a maintainable and controlled schedule to feed production environments with cleansed and transformed data.
Data Analysis
3. Question 3
To create and manage child resources including publishing in the Azure portal, which Data Factory role must you belong to at the resource group level or above?
1/1 point
Data Factory User
Data Factory Reader
Data Factory Contributor
Data Factory Writer
Correct
Users must have the Data Factory contributor role on the Resource Group that contains the Data Factory to be able to publish.
4. Question 4
When setting up Azure Data factory through the Azure Portal. Which of the following pieces of Information are required?
Select all options that apply.
1/1 point
Resource Group name
Correct When posting up Anyre Date Footen you are required to supply the Decourse Crown Name
When setting up Azure Data Factory you are required to supply the Resource Group Name. Subscription
Correct
When setting up Azure Data Factory you are required to supply the subscription in which the ADF instance
is created.
Region
Correct When setting up Azure Data Factory you are required to supply the Region Information.
Instance Name
Correct
When setting up Azure Data Factory you are required to supply the name of the Azure Data Factory

Management Group Name

5. Question 5

Azure Data Factory integration runtime enables bridging between activities and linked Services objects. Which of the following are types of Integration Runtime in Azure data factory?

Select all options that apply.

1/1 point

Azure-SQL
Self Hosted
Correct There are three types of Integration Runtime available in Azure Data Factory, including Self-hosted.
Azure-SSIS
Correct
There are three types of Integration Runtime available in Azure Data Factory, including Azure-SSIS. Azure
Correct The way are the real transportation Duration Duration and I labels in Arraya Data Factors, including Arraya
There are three types of Integration Runtime available in Azure Data Factory, including Azure.
Azure-Spark 6. Question 6
An integration runtime provides which of the following?
1 / 1 point
A target data store or a compute service.
The infrastructure for the activity and linked services.
The action to be performed.
Correct An integration runtime provides the infrastructure for the activity and linked services.
7. Question 7
Data Factory offers three types of Integration Runtime.
Azure
Self-hosted
 Azure-SSIS Which of these provides support for both Public Networks and Private Networks?
1/1 point
Azure-SSIS only
Self Hosted and Azure-SSIS
Azure only
Azure and Self Hosted
C Azure and Azure-SSIS
C Self Hosted only
Correct Self Hosted and Azure-SSIS support both Public and Private networks

8. Question 8

You are moving data from an Azure Data Lake Gen2 store to Azure Synapse Analytics. Which Azure Data Factory integration runtime would be used in a data copy activity?

1/1 point
C Azure-SSIS
Self-hosted
Azure Azure
Correct When moving data between Azure data platform technologies, the Azure Integration runtime is used when copying data between two Azure data platforms.
9. Question 9 Which Azure Data Factory component orchestrates a data movement command?
0 / 1 point
Linked Services Activities Datasets
Incorrect Try going back and reviewing the Set up and manage Azure Data Factory lesson.
10. Question 10 Which Azure Data Factory process involves using compute services to produce data to feed production environments with cleansed data?
1/1 point
Transform and enrich
Publish
Connect and collect
© Monitor
Correct Transform and enrich is used to invoke compute services to produce date to feed production environments with cleansed data

Test prep

Latest Submission Grade 82.5%

1. Question 1

Azure Data Factory can call on compute resources to process data by a specific data platform service that may be better suited to the job. Which compute resource can carry out the following activities, Spark, MapReduce and Hadoop Streaming activities?

1/1 point
C Azure Machine Learning
On-demand HDInsight cluster
C Azure Batch
Azure Databricks
Correct
On-demand HDInsight cluster or your own HDInsight cluster can carry out activities such as Hive, Pig, Spark, MapReduce, Hadoop Streaming.
2. Question 2 What are the benefits of Azure-SSIS Integration Runtime?
Select all options that apply.
1/1 point
Create On-demand HDInsight clusters
Process Azure Databricks Activities
Natively execute existing SSIS packages
Correct
Azure Data Factory provides the ability to lift and shift existing SSIS workload, by creating an Azure-SSIS Integration Runtime to natively execute SSIS packages, and will enable you to deploy and manage your existing SSIS packages with little to no change.
Deales and manage original SSIS made and

Correct

Azure Data Factory provides the ability to lift and shift existing SSIS workload, by creating an Azure-SSIS Integration Runtime to natively execute SSIS packages, and will enable you to deploy and manage your existing SSIS packages with little to no change.

3. Question 3

In Azure Data factory integration runtime defines which of the following?

1 / 1 point	
The Target Data Store or Compute service	
The bridge between the activity and linked services	
C The action to be performed	
Correct	
An integration runtime provides the bridge between the activity and linked services. 4. Question 4 Azure Data factory Copy Activity supports which of the following?	
Select all options that apply.	
1 / 1 point	
Code-free data ingestion pipelines.	
Correct	
The Copy Activity method can be used to build code-free data ingestion pipelines that do not require an transformation during the extraction of the data.	у
Support for over 100 native connectors.	
Correct	
The Copy Activity has support for over 100 native connectors. This method can suit green-field projects that have a simple method of extraction to an intermediary data store.	
Complex business logic.	
Complex transformation during the extraction of data.	
5. Question 5 In the Azure Data Factory Authoring Tool, where would you find the Copy data activity?	
1 / 1 point	
Batch Service	
C Databricks	
Move & Transform	

Correct

The Move & Transform section contains activities that are specific to Azure Data Factory copying data and defining data flows.

6. Question 6

You can use which of the following tools to deploy and manage existing SSIS packages using Azure Data Factory?

Select all options that apply. 1/1 point Azure Copy Activity Azure Data Factory Pipelines SQL Server Data Tools (SSDT) **Correct** To deploy and manage your existing SSIS packages with little to no change using familiar tools such as SQL Server Data Tools (SSDT) and SQL Server Management Studio (SSMS), just like using SSIS on-premises. **SQL Server Management Studio (SSMS) Correct** To deploy and manage your existing SSIS packages with little to no change using familiar tools such as SQL Server Data Tools (SSDT) and SQL Server Management Studio (SSMS), just like using SSIS on-premises. **7.** Question 7 To create Data Factory instances, the user account that you use to sign into Azure must be a member of which of the following roles? 0.5 / 1 point The Owner role This should not be selected Try going back and reviewing the Ingest Source Data lesson. The Contributor Role **Correct**

8. Question 8

Monitoring Contributor

Azure RBAC, manage assignments in Azure Blueprints.

When using Azure-SSIS Integration runtime, you are given the option to join a virtual network. This option enables Azure Data Factory to create network resources, an example of which is a Network Security Group. What port is configured by default to allow all traffic through the NSG?

The Contributor Role grants full access to manage all resources, but does not allow you to assign roles in

0 / 1 point

C Port 80
O Port 21
C Port 443
C Port 3389
Incorrect
Try going back and reviewing the Ingest Source Data lesson. 9. Question 9
When configuring Azure Data Factory integration runtimes you can deny communication with known IP addresses. Which of the following must you enable to do so?
0.75 / 1 point
Azure Identity and Access management (IAM)
Distributed Denial of Service (DDoS)
Correct
You can deny communication with known IP addresses by enabling distributed denial of service (DDoS) protection
Azure Security Center Integrated Threat Intelligence
Azure Firewall with Threat Intelligence
Correct
Azure Firewall with Threat Intelligence can be used to control network access. You didn't select all the correct answers
10. Question 10 True or False
Azure Data Factory can ingest data from an on-premises server, or a virtual machine that is hosted within Azure.
1/1 point
C True
C False
Correct
Azure Data Factory can ingest data from an on-premises server, or a virtual machine that is hosted within Azure.

Test prep

Latest Submission Grade 88.89%

1. Question 1

Azure Data Factory can also call on compute resources to transform data. Which Compute environment can be used with Notebook, Jar and Python Activities?

1/1	point	
0	Azure Machine Learning Studio Machine	
0	Azure SQL, Azure SQL Data Warehouse, SQL Server	
0	Azure Data Lake Analytics	
0	Azure Databricks	
Correct		
Azure Databricks supports Notebook, Jar and Python activities.		

2. Question 2

Star schema design theory refers to common SCD types. In this design approach, the Dimension Table always reflects the latest values, and when changes in source data are detected, the dimension table data is overwritten. What SCD Type is being referred to in this scenario?

is overwritten. What SCD Type is being referred to in this scenario? 1/1 point Type 2 SCD Type 6 SCD Type 1 SCD Type 3 SCD

Correct

A Type 1 SCD always reflects the latest values, and when changes in source data are detected, the dimension table data is overwritten. This design approach is common for columns that store supplementary values, like the email address or phone number of a customer.

3. Ouestion 3

When building data flows, you can enable debug mode allowing for interactive preview of the output of your transformation logic. Enabling Debug Mode turns on which of the following?

1/1 point



© SQL Cluster
Correct When building data flows, you can enable debug mode, which turns on a small interactive Spark cluster.
4. Question 4 You are currently working on a Mapping Data Flow transformation for a Movie Database. You are interested in how a movie ranks within its year for its specific genre. Which of the following transformations should you use to generate the required transformation?
1/1 point
Window Transformation
Aggregate Transformation
Alter Row Transformation
A Derive Transformation
Correct The Window transformation is where you will define window-based aggregations of columns in your data streams. In the Expression Builder, you can define different types of aggregations that are based on data or time windows.
5. Question 5
You want to load a dimension table in Azure Synapse from source data in your Azure Synapse database using mapping data flows. Which of the following options would you choose in Synapse Studio Hub to create a Type 1 SCD in a Mapping Data Flow pipeline activity?
1/1 point
Integrate
Data
C Manage
Develop Develop
Correct The Develop hub contains your SQL scripts, notebooks, data flows, and Spark job definitions.
6. Question 6
When creating transformations in Azure Data factory which of the following uses a grid type interface for basic data preparation similar to Excel, known as an Online Mashup Editor, while also allowing complex data preparation using formulas?
1/1 point
Wrangling Data Flow
Mapping Data Flow
Azure-SSIS Integration Runtime
Correct Wrangling Data Flow was a grid type interface for basis data proporation similar to Eyeal known as an
Wrangling Data Flow uses a grid type interface for basic data preparation similar to Excel, known as an Online Mashup Editor, while also allowing complex data preparation using formulas.

7. Question 7
Which transformation is used to load data into a data store or compute resource?
1/1 point
Sink
Window
Source
Surrogate key
Correct
A Sink transformation allows you to choose a dataset definition for the destination output data. You can have as many sink transformations as your data flow requires.
8. Question 8
Which SCD type would you use to keep history of changes in dimension members by adding a new row to the table for each change?
0 / 1 point
Type 3 SCD
C Type 1 SCD

Incorrect

Try going back and reviewing the Populate slowly changing dimensions in Azure Synapse Analytics pipelines lesson.

9. Question 9

Type 2 SCD

Type 6 SCD

Which of the following transformations are directly available in the Mapping Data Flows activity?

Select all options that apply.

1/1 point

Conditional Split

Correct

Try going back and reviewing the Transform and cleanse data with Data Factory lesson.



Correct

Define different types of aggregations such as SUM, MIN, MAX, and COUNT grouped by existing or computed columns.



Correct

Exists checks whether your data exists in another source or stream.

Insert

Latest Submission Grade 87.5%

1. Ouestion 1

In Azure Data Factory to get a view of the history of debug runs, or see all the active debug runs, you can navigate to the monitor tab. How many days does Azure Data Factory service keep Debug run history for?

1/1 point 365 Days 15 days 5 Days 30 Days Correct Azure Data Factory service keeps Debug run history for 15 Days.

2. Ouestion 2

In Azure Data factory you need to connect to several different databases that are on the same SQL server. Which of the following will require the least administrative effort?

1/1 point

Create a linked service for each database



Correct

The benefit of parameterizing the database name in the linked service definition is that you don't have to create a single linked service for each database that is on the same SQL Server. It is also possible to parameterize other properties of the linked service like a Username.

3. Question 3

In Azure Data Factory activities in which repetition occurs in a pipeline enabling you to iterate over a collection is referred to as which of the following?

O/1 point Custom State passing Pipeline Branching activity

Looping containers

Incorrect

Try going back and reviewing the Orchestrate data movement and transformations lesson.

4. Ouestion 4

One of the features of Azure Pipelines is the ability to create Continuous Integration and Continuous Delivery (CI/CD) to persistently build and test the code and finally ship a high-performing, high-quality product.

Which of the following definitions are correct?

Select all options that apply.

1/1 point Continuous Integration produces deployable code, infrastructure, and other artifacts to be deployed Continuous Integration produces deployable code, infrastructure, and other artifacts to be deployed. Continuous Delivery helps in deploying the integrated and built code into different delivery stages as new versions of the product.

Correct

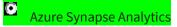
Continuous Delivery helps in deploying the integrated and built code into different delivery stages as new versions of the product.

Continuous Delivery produces deployable code, infrastructure, and other artifacts to be deployed
Continuous Integration helps in deploying the integrated and built code into different delivery stages
new versions of the product.

5. Ouestion 5

In Azure Data Factory which of the following is a supported connector for built-in parameterization for linked services?

1/1 point



Azure Data Lake Storage Gen2

Azure Key Vault

Correct

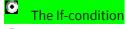
Azure Synapse Analytics is a supported connector for built-in parameterization for Linked Services in Azure Data Factory.

6. Question 6

In Azure Data factory which of the following is an example of a branching activity used in control flows?

1/1 point

Until-condition



Lookup-condition

An example of a branching activity is The If-condition activity which is similar to an if-statement provided in programming languages.

7. Question 7

In Azure Data Factory you enable Debug by selecting the Debug slider. Selecting the slider will enable which of the following features?

1/1 point

0	Enables the Debug feature and run the pipeline

Enables the Debug feature runs the Pipeline and publishes the pipeline.

Enables the Debug feature and publishes the pipeline.

Enables the Debug feature only.

Correct

Enabling the Debug feature will run the pipeline.

8. Question 8

In Azure Data Factory a logical grouping of activities where the activities together perform a certain task is referred to as which of the following?

1/1 point

Custom State passing



Branching activity

C Looping containers

Correct

A pipeline in Azure Data Factory represents a logical grouping of activities where the activities together perform a certain task. An example of a combination of activities in one pipeline can be, ingesting and cleaning log data in combination with a mapping data flow that analyzes the log data that has been cleaned.

Latest Submission Grade 97.5%

1. Question 1

SQL Server Integration Services (SSIS) is a platform for building which of the following?

1/1 point



Extract Transform and Load (ETL) solutions

Extr

Extract Load Transform (ELT) Solutions

Correct

SQL Server Integration Services (SSIS) is a platform for building complex Extract Transform and Load (ETL) solutions.

2. Question 2

SSIS packages defining a workflow of tasks to be executed. The workflow of tasks in a package is referred to as which of the following?

1/1 point



SSIS Project



Control flow

Data Flow

Correct

SSIS packages, define a workflow of tasks to be executed. The workflow of tasks in a package is referred to as its control flow.

3. Question 3

To lift and shift an existing SSIS workload, you can create an Azure-SSIS IR to natively execute SSIS packages. The location for your Azure-SSIS IR is important to achieve high performance in your extract-transform-load (ETL) workflows. Select which of the following statements are true.

1/1 point



The location of your Azure-SSIS IR must be the same as the location of your data factory.

⊙

The location of your Azure-SSIS IR does not need to be the same as the location of your data factory.

Correct

To lift and shift an existing SSIS workload, The location of your Azure-SSIS IR does not need to be the same as the location of your data factory.

4. Question 4

When creating a new SSIS Integration Runtime which of the following pieces of information are required on the Deployment setting page?

Select all options that apply

1/1 point



Create Catalog (SSISDB)



Admin Username

Admin Username is a required entry.
Subscription
Correct
Subscription must be selected.
Catalog database Server Endpoint
Correct
Catalog database Server Endpoint must be completed.
5. Question 5
When migrating SSIS packages. you need to consider the location of the SSIS packages that you are
migrating, as this can impact how you migrate the packages. Which of the following storage types are
available when migrating SSIS packages?
Select all options that apply.
0.8 / 1 point
SSIS Package Store
Correct
There are four types of storage including SSIS Package store.
Azure Key Vault
File system
SSIS Catalog (SSISDB)
Correct
There are four types of storage including SSIS Catalog.
MSDB Database in SQL Server
Correct
There are four types of storage including MSDB Database in SQL Server.
You didn't select all the correct answers
6. Question 6
Which tool is used to perform an assessment of migrating SSIS packages to Azure SQL Database services?
1/1 point
Data Migration Assistant
Correct
The Data Migration Assistant is used to perform an assessment of migrating SSIS packages to Azure SQL
Database services.
Data Migration Service
Data Migration Assessment
7. Question 7
You want to ingest data from a SQL Server database hosted on an on-premises Windows Server. What
integration runtime is required for Azure Data Factory to ingest data from the on-premises server?
1/1 point
C Azure Integration Runtime

Azure-SSIS Integration Runtime



Self-Hosted Integration Runtime

Correct

A self-hosted integration runtime can run copy activities between a cloud data store and a data store in a private network. It also can dispatch transform activities against compute resources in an on-premises network or an Azure virtual network.

8. Question 8

When you migrate your database workloads from SQL Server on premises to Azure SQL database services, you may have to migrate SSIS packages as well. The first step required is to perform an assessment of your current SSIS packages to make sure that they are compatible in Azure. Which of the following tools would be most appropriate to check for compatibility issues?

1/1 point

SQL Server Management Studio (SSMS)



SQL Server Data Tools (SSDT)



Data Migration Assistant (DMA)

Correct

The first step required is to perform an assessment of your current SSIS packages to make sure that they are compatible in Azure. You can use the Data Migration Assistant (DMA) to perform an assessment of the SSIS packages that exist and identify any compatibility issues with them.

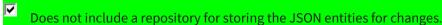
Latest Submission Grade 84%

1. Question 1

By default, the Azure Data Factory user interface experience (UX) authors directly against the data factory service. Which of the following are true in respect of the Azure Data Factory user interface experience?

Select all options that apply.

1/1 point



Correct

The Data Factory service does not include a repository for storing the JSON entities for your changes. The only way to save changes is via the Publish All button and all changes are published directly to the data factory service.

The Data Factory service is not optimized for collaboration and version control.

Correct

The Data Factory service isn't optimized for collaboration and version control.

Includes a repository for storing the JSON entities for changes.

The Data Factory service is optimized for collaboration and version control.

2. Question 2

Using the Azure Data factory user interface, which of the following can be used to connect a Git repository to your data factory for both Azure Repos and GitHub?

Select all options that apply.

0.4 / 1 point

ADF Management hub

ADF Monitor Hub

This should not be selected

Try going back and reviewing the Use Azure Data Factory to build your data integration solutions lesson.

During factory creation

Correct

When creating a new data factory in the Azure portal, you can configure Git repository information in the Git configuration tab.

ADF Authoring Hub

Correct

In the Azure Data Factory UX authoring canvas, select the Data Factory drop-down menu, and then select Set up code repository.

ADF Home Page

3. Question 3

Each Azure Repos Git repository that's associated with a data factory has a collaboration branch with a default name of main. Users can also create feature branches. Which of the following statements are true?

1/1 point

C v
You can publish to the Data Factory service from your Feature branch only. You can publish to the Data Factory service from your collaboration branch only.
C
You can publish to the Data Factory service from both Collaboration and Feature Branches.
You are only allowed to publish to the Data Factory service from your collaboration branch.
4. Question 4 When implementing Git integration with your Azure Data Factory you typically don't want every team member to have permissions to update the Data Factory. To publish to the Data Factory a user must have which of the following permissions? 1/1 point
6
Data Factory contributor
Managed Application Operator Role Correct
Data Factory Contributor allows a user to create and manage data factories, as well as child resources within them.
5. Question 5 If your ADF development factory has an associated git repository, you can override the default Resource Manager template parameters of the Resource Manager template generated by publishing or exporting the template. However, there is a limit on the number of allowed parameters in a template. Which limit applies to Resource Manager template parameters?
1/1 point
512 256 1024 125
Correct 256 is the limit on the number of parameters allowed in an ARM Resource Manager template.
6. Question 6 Azure Data Factory can integrate with which version control software?
1 / 1 point Git repositories
C Team Foundation Server
Source Safe
Correct
Azure Data Factory allows you to configure a Git repository with either Azure Repos or GitHub and is a version control system that allows for easier change tracking and collaboration.

7. Question 7

Which feature commits the changes of Azure Data Factory work in a custom branch created with the main branch in a Git repository?

1/1 point

0

Repo



Commit



Pull request

Correct

After a developer is satisfied with their changes, they create a pull request from their feature branch to the master or collaboration branch to get their changes reviewed by peers.

8. Question 8

Which feature in alerts can be used to determine how an alert is fired?

0 / 1 point





Add criteria



Add rule

Incorrect

Try going back and reviewing the Use Azure Data Factory to build your data integration solutions lesson.

9. Question 9

Azure Data Factory allows you to configure a Git repository with either Azure Repos or GitHub. Which of the following are advantages of using GIT Integration?

Select all options that apply.

1/1 point



Source control

Correct

Using GOT Source Control provides benefits such as the ability to track/audit changes and revert changes that introduced bugs.

Partial saves

Correct

Configuring a git repository allows you to save changes, letting you only publish when you have tested your changes to your satisfaction.

Better CI/CD

GIT integration makes certain actions easier such as Configuring release pipeline to trigger automatically as soon as there are any changes made to your 'dev' factory.

PowerShell or an SDK changes are published directly to GIT

10. Question 10

Mapping data flows allow you to build code-free data transformation logic that runs at scale. When building your logic, you can turn on a debug session to interactively work with your data. Turning on Debug creates which of the following?

1/1 point

MS SQL Cluster

Spark Cluster

Data Lake Storage Account

Blob Storage

Correct

When building your logic, you can turn on a debug session to interactively work with your data using a live Spark cluster

Latest Submission Grade 83.33%

1. Question 1

You want to add a data now activity to a pipeline, which of the following options would you choose?
1/1 point
Move and Transform
C General
C Batch Service
C Azure Data Explorer
Correct
The Move and Transform option in pipelines allows you to create a data flow activity.
2. Question 2
In Azure Data factory when you create multiple pipelines it is important to keep track of the pipelines. To do so, there is a Monitor tab in Azure Data Factory, which by default will store all the run information. How many days is the run information stored?
0 / 1 point
10 Days
C 45 Days
30 Days
365 Days
Incorrect Try going back and reviewing the Join and transform shared and owned data lesson.
3. Question 3
Which transformation can be used to load data into a data store or compute resource?
1/1 point
© Window
Source
Sink
Correct
A Sink transformation allows you to choose a dataset definition for the destination output data. You can have as many sink transformations as your data flow requires.
,

4. Question 4

When a connector in Azure Data Factory is not supported in a mapping data flow task to transform data from one of these sources what must be done?

1/1 point

Ingest the data into a supported source using the copy activity.

Use a group by activity in the Dataflow activity.

Use an aggregate transformation in the Dataflow activity.

Correct

If a connector in Data factory is not supported, create a copy activity of the source data into a supported data source in mapping dataflow and continue the transformations from there.

5. Question 5

In a Mapping Data Flow after you finish transforming your data, you write it into a destination store by using the sink transformation when using sink transformations which of the following statements is True? **1/1 point**

Every data flow requires at least one sink transformation, but cannot write to multiple sinks.

Every data flow requires at least one sink transformation, and you can write to multiple sinks as necessary.

Correct

Every data flow requires at least one sink transformation, but you can write to as many sinks as necessary to complete your transformation flow. To write to additional sinks, create new streams via new branches and conditional splits.

6. Question 6

As a data provider, you can share datasets with third parties or between departments within your organization. To enable your data consumers the ability to automatically get refreshed data. What feature should you enable?

1/1 point



Data Ingestion

Correct

You can configure a snapshot schedule, so that your data consumers have an option to automatically get refreshed data.

Course practice exam

Latest Submission Grade 83.33%

1. Ouestion 1

Much of the functionality of Azure Data Factory appears in Azure Synapse Analytics as a feature called pipelines. You can use it to integrate data pipelines between which of the following?

1/1 point



Correct

Much of the functionality of Azure Data Factory appears in Azure Synapse Analytics as a feature referred to as Pipelines, which enables you to integrate data pipelines between SQL Pools, Spark Pools and SQL Serverless.

Apache Hive



Correct

Much of the functionality of Azure Data Factory appears in Azure Synapse Analytics as a feature referred to as Pipelines, which enables you to integrate data pipelines between SQL Pools, Spark Pools and SQL Serverless.



Correct

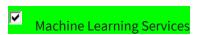
Much of the functionality of Azure Data Factory appears in Azure Synapse Analytics as a feature referred to as Pipelines, which enables you to integrate data pipelines between SQL Pools, Spark Pools and SQL Serverless.

2. Question 2

Microsoft Azure provides a variety of data platform services that enables you to perform different types of analytics. Predictive analytics can be implemented through which of the following features?

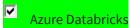
Select all options that apply.

0.75 / 1 point



Correct

Microsoft Azure provides a variety of data platform services that enables you to perform different types of analytics including predictive analytics within HDInsight, Azure Databricks or Machine Learning Services.



Microsoft Azure provides a variety of data platform services that enables you to perform different types of analytics including predictive analytics within HDInsight, Azure Databricks or Machine Learning Services. Azure Data Lake Storage Gen2 **HDInsight** You didn't select all the correct answers **3.** Question 3 When setting up Azure Data factory through the Azure Portal. Which of the following pieces of Information are required? Select all options that apply. 1/1 point **Correct** When setting up Azure Data Factory you are required to supply the Region Information. Subscription **Correct** When setting up Azure Data Factory you are required to supply the subscription in which the ADF instance is created. Resource Group name **Correct** When setting up Azure Data Factory you are required to supply the Resource Group Name. Management Group Name **Instance Name Correct** When setting up Azure Data Factory you are required to supply the name of the Azure Data Factory instance. **4.** Question 4 Which of the following is true in respect of Azure data factory datasets?

A dataset is a named view that points or references the data.

0 / 1 point

A dataset is a table that holds a copy of the data for the destination

A dataset does not exist in Azure Data factory
A dataset is a table that holds a copy of the data from the source.
Incorrect
Try going back and reviewing Set up and manage Azure Data Factory. 5. Question 5 Data Factory offers three types of Integration Runtime.
 Azure Self-hosted Azure-SSIS Which of these provides support for both Public Networks and Private Networks?
Select all options that apply.
1/1 point
Azure only
C Azure and Self Hosted
Self Hosted and Azure-SSIS
Azure and Azure-SSIS
C Azure-SSIS only
Self Hosted only
Correct
Self Hosted and Azure-SSIS support both Public and Private networks.
Question 6Which Azure Data Factory component contains the transformation logic or the analysis commands of the Azure Data Factory's work?1/1 point
C Linked Services
• Activities
C Pipelines
C Datasets

Correct

Activities contains the transformation logic or the analysis commands of the Azure Data Factory's work.

7. Question 7

Azure Data Factory can call on compute resources to process data by a specific data platform service that may be better suited to the job. Which compute resource can carry out the following activities, Spark, MapReduce and Hadoop Streaming activities?

1/1 point

\cap				
0	Azure	Data	bric	ks

α			
	Azure	Machine	Learning

α		
£	Azure	Batch



On-demand HDInsight cluster

Correct

On-demand HDInsight cluster or your own HDInsight cluster can carry out activities such as Hive, Pig, Spark, MapReduce, Hadoop Streaming.

8. Question 8

You want to ingest data from a SQL Server database hosted on an on-premises Windows Server. What integration runtime is required for Azure Data Factory to ingest data from the on-premises server?

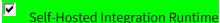
Azure Integration Runtime



Azure-SSIS Integration Runtime

This should not be selected

Try going back and reviewing **Petabyte-scale ingestion with Azure Data Factory or Azure Synapse Pipeline.**



Correct

A self-hosted integration runtime can run copy activities between a cloud data store and a data store in a private network. It also can dispatch transform activities against compute resources in an on-premises network or an Azure virtual network.

9. Ouestion 9

To create Data Factory instances, the user account that you use to sign into Azure must be a member of which of the following roles?

Select all options that apply.

0.75 / 1 point

The Owner role
Correct
The Owner role grants full access to manage all resources, including the ability to assign roles in Azure RBA. Managed Application Operator Role
The Contributor Role
Correct
The Contributor Role grants full access to manage all resources, but does not allow you to assign roles in Azure RBAC, manage assignments in Azure Blueprints.
Monitoring Contributor
This should not be selected
Try going back and reviewing Petabyte-scale ingestion with Azure Data Factory or Azure Synapse Pipeline.
10. Question 10 Azure Data Factory provides a range of methods to perform transformations. You need to perform transformations without writing code. Which transformations would you use in this scenario?
0 / 1 point
Stored procedure activity
C HDInsight Pig activity
Mapping Data Flows
Azure Machine Learning Studio
Incorrect
Feedback: In this scenario, you would not use Azure Machine Learning Studio. Try going back and reviewing Perform code-free transformation at scale with Azure Data Factory or Azure Synapse Pipeline.
11. Question 11 Which transformation is used to load data into a data store or compute resource?
1/1 point
C Source
Sink.
C Window

Surrogate key

Correct

A Sink transformation allows you to choose a dataset definition for the destination output data. You can have as many sink transformations as your data flow requires.

12. Question 12

You want to load a dimension table in Azure Synapse from source data in your Azure Synapse database using mapping data flows. Which of the following options would you choose in Synapse Studio Hub to create a Type 1 SCD in a Mapping Data Flow pipeline activity?

1/1 point



Integrate

Manage

C Data

Correct

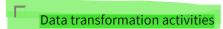
The Develop hub contains your SQL scripts, notebooks, data flows, and Spark job definitions.

13. Ouestion 13

In Azure Data factory there are many activities that are possible in a pipeline. These activities are grouped into 3 categories. Which of the following are categories of activities?

Select all options that apply.

0.5 / 1 point



Control activities

Correct

Examples of control flow activities are 'get metadata', 'ForEach', and 'Execute Pipeline'.

Branching Activities

This should not be selected

Try going back and reviewing **Orchestrate data movement and transformation in Azure Data Factory or Azure Synapse Pipeline**.

Data movement activities





Correct

Azure Data Factory service keeps Debug run history for 15 Days.

15. Question 15

To lift and shift an existing SSIS workload, you can create an Azure-SSIS IR to natively execute SSIS packages. The location for your Azure-SSIS IR is important to achieve high performance in your extract-transform-load (ETL) workflows. Select which of the following statements are true.

1/1 point

- The location of your Azure-SSIS IR must be the same as the location of your data factory.
- The location of your Azure-SSIS IR does not need to be the same as the location of your data factory

Correct

To lift and shift an existing SSIS workload, The location of your Azure-SSIS IR does not need to be the same as the location of your data factory.

16. Ouestion 16

When you migrate your database workloads from SQL Server on premises to Azure SQL database services, you may have to migrate SSIS packages as well. The first step required is to perform an assessment of your current SSIS packages to make sure that they are compatible in Azure. Which of the following tools would be most appropriate to check for compatibility issues?

1/1 point

- SQL Server Data Tools (SSDT)
- Data Migration Assistant (DMA)
- SQL Server Management Studio (SSMS)

The first step required is to perform an assessment of you current SSIS packages to make sure that they are compatible in Azure. You can use the Data Migration Assistant (DMA) to perform an assessment of the SSIS packages that exist and identify any compatibility issues with them.

17. Question 17

An SSIS Project is the unit of deployment for SSIS solutions. In which version of SQL Server was SSIS Projects introduced?

1/1 point

SOL Server 2008.

SQL Server 2016



Correct

SSIS Projects were introduced in SQL Server 2012 and is the unit of deployment for SSIS solutions.

18. Question 18

Azure Data Factory allows you to configure a Git repository with either Azure Repos or GitHub. Which of the following are advantages of using GIT Integration?

Select all options that apply.

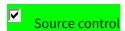
1/1 point



Correct

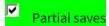
GIT integration makes certain actions easier such as Configuring release pipeline to trigger automatically as soon as there are any changes made to your 'dev' factory.

PowerShell or an SDK changes are published directly to GIT.



Correct

Using GOT Source Control provides benefits such as the ability to track/audit changes and revert changes that introduced bugs.



Correct

Configuring a git repository allows you to save changes, letting you only publish when you have tested your changes to your satisfaction.

19. Question 19

Mapping data flows allow you to build code-free data transformation logic that runs at scale. When building your logic, you can turn on a debug session to interactively work with your data. Turning on Debug creates which of the following?

1/1 point C MS SQL Cluster C Data Lake Storage Account Spark Cluster C Blob Storage

Correct

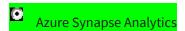
When building your logic, you can turn on a debug session to interactively work with your data using a live Spark cluster.

20. Question 20

In Azure Data factory what is a supported connector for built-in parameterization?

1/1 point

C Azure Data Lake Storage Gen2.



Azure Key Vault

Correct

Azure Synapse Analytics is a supported connector for built-in parameterization for Linked Services in Azure Data Factory.