



# Microsoft

## Exam Questions DP-200

Implementing an Azure Data Solution

### NEW QUESTION 1

- (Exam Topic 1)

You need to ensure that phone-based polling data can be analyzed in the PollingData database. How should you configure Azure Data Factory?

- A. Use a tumbling schedule trigger
- B. Use an event-based trigger
- C. Use a schedule trigger
- D. Use manual execution

**Answer: C**

#### Explanation:

When creating a schedule trigger, you specify a schedule (start date, recurrence, end date etc.) for the trigger, and associate with a Data Factory pipeline.

Scenario:

All data migration processes must use Azure Data Factory

All data migrations must run automatically during non-business hours

References:  
<https://docs.microsoft.com/en-us/azure/data-factory/how-to-create-schedule-trigger>

### NEW QUESTION 2

- (Exam Topic 2)

You need to set up access to Azure SQL Database for Tier 7 and Tier 8 partners.

Which three actions should you perform in sequence? To answer, move the appropriate three actions from the list of actions to the answer area and arrange them in the correct order.

Actions	Answer Area
Connect to the Database and use Azure PowerShell to create a database firewall rule	
Set the Allow Azure Services to Access Server to Disabled	
In the Azure portal, create a database firewall rule	
In the Azure portal, create a server firewall rule	
Connect to the database and use Transact-SQL to create a database firewall rule	
Set the Allow Azure Services to Access Server setting to Enabled	

- A. Mastered
- B. Not Mastered

**Answer: A**

#### Explanation:

Tier 7 and 8 data access is constrained to single endpoints managed by partners for access Step 1: Set the Allow Azure Services to Access Server setting to Disabled

Set Allow access to Azure services to OFF for the most secure configuration.

By default, access through the SQL Database firewall is enabled for all Azure services, under Allow access to Azure services. Choose OFF to disable access for all Azure services.

Note: The firewall pane has an ON/OFF button that is labeled Allow access to Azure services. The ON setting allows communications from all Azure IP addresses and all Azure subnets. These Azure IPs or subnets might not be owned by you. This ON setting is probably more open than you want your SQL Database to be.

The virtual network rule feature offers much finer granular control.

Step 2: In the Azure portal, create a server firewall rule Set up SQL Database server firewall rules

Server-level IP firewall rules apply to all databases within the same SQL Database server. To set up a server-level firewall rule:

- In Azure portal, select SQL databases from the left-hand menu, and select your database on the SQL databases page.
- On the Overview page, select Set server firewall. The Firewall settings page for the database server opens.

Step 3: Connect to the database and use Transact-SQL to create a database firewall rule

Database-level firewall rules can only be configured using Transact-SQL (T-SQL) statements, and only after you've configured a server-level firewall rule.

To setup a database-level firewall rule:

- In Object Explorer, right-click the database and select New Query.
- EXECUTE sp\_set\_database\_firewall\_rule N'Example DB Rule','0.0.0.4','0.0.0.4';
- On the toolbar, select Execute to create the firewall rule. References:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-security-tutorial>

### NEW QUESTION 3

- (Exam Topic 3)

Contoso, Ltd. plans to configure existing applications to use Azure SQL Database. When security-related operations occur, the security team must be informed.

You need to configure Azure Monitor while minimizing administrative efforts

Which three actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Create a new action group to email alerts@contoso.com.

- B. Use alerts@contoso.com as an alert email address.
- C. Use all security operations as a condition.
- D. Use all Azure SQL Database servers as a resource.
- E. Query audit log entries as a condition.

Answer: ACE

NEW QUESTION 4

- (Exam Topic 3)

Each day, company plans to store hundreds of files in Azure Blob Storage and Azure Data Lake Storage. The company uses the parquet format. You must develop a pipeline that meets the following requirements:

- ▶ Process data every six hours
- ▶ Offer interactive data analysis capabilities
- ▶ Offer the ability to process data using solid-state drive (SSD) caching
- ▶ Use Directed Acyclic Graph(DAG) processing mechanisms
- ▶ Provide support for REST API calls to monitor processes
- ▶ Provide native support for Python
- ▶ Integrate with Microsoft Power BI

You need to select the appropriate data technology to implement the pipeline. Which data technology should you implement?

- A. Azure SQL Data Warehouse
- B. HDInsight Apache Storm cluster
- C. Azure Stream Analytics
- D. HDInsight Apache Hadoop cluster using MapReduce
- E. HDInsight Spark cluster

Answer: B

Explanation:

Storm runs topologies instead of the Apache Hadoop MapReduce jobs that you might be familiar with. Storm topologies are composed of multiple components that are arranged in a directed acyclic graph (DAG). Data flows between the components in the graph. Each component consumes one or more data streams, and can optionally emit one or more streams.

Python can be used to develop Storm components. References:  
<https://docs.microsoft.com/en-us/azure/hdinsight/storm/apache-storm-overview>

NEW QUESTION 5

- (Exam Topic 3)

A company uses Microsoft Azure SQL Database to store sensitive company data. You encrypt the data and only allow access to specified users from specified locations.

You must monitor data usage, and data copied from the system to prevent data leakage.

You need to configure Azure SQL Database to email a specific user when data leakage occurs.

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.

Actions

In Auditing, enable Auditing.

Configure the service to create alerts for threat detections of type Data Exfiltration.

In Firewalls and virtual networks, enable Allow access to Azure services.

Enable advanced threat protection.

Configure the service to send email alerts to security@contoso.com

Answer Area

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Actions	Answer Area
In Auditing, enable <b>Auditing</b> .	Enable advanced threat protection.
Configure the service to create alerts for threat detections of type <b>Data Exfiltration</b> .	Configure the service to send email alerts to security@contoso.com
In Firewalls and virtual networks, enable <b>Allow access to Azure services</b> .	Configure the service to create alerts for threat detections of type <b>Data Exfiltration</b> .
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Configure the service to send email alerts to security@contoso.com	

**NEW QUESTION 6**

- (Exam Topic 3)

You are developing a solution to visualize multiple terabytes of geospatial data. The solution has the following requirements:

- Data must be encrypted.
- Data must be accessible by multiple resources on Microsoft Azure. You need to provision storage for the solution.

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

The screenshot shows a question interface with two columns: 'Actions' and 'Answer Area'. The 'Actions' column contains six items: 'Enable encryption on the Azure Data Lake using the Azure portal.', 'Add an access policy for the new Azure Data Lake account to the key storage container.', 'Create a new Azure Data Lake Storage account with Azure Data Lake managed encryption keys.', 'Select and configure an encryption key storage container.', 'Create a new Azure Data Lake Storage account with Azure Key Vault managed encryption keys.', and 'Create a new Azure Data Lake Storage account with encryption disabled.' The 'Answer Area' is currently empty. Navigation arrows are visible between the columns.

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

The screenshot shows the same question interface as before, but now the 'Answer Area' contains four actions in the correct sequence: 'Select and configure an encryption key storage container.', 'Add an access policy for the new Azure Data Lake account to the key storage container.', 'Create a new Azure Data Lake Storage account with Azure Data Lake managed encryption keys.', and 'Create a new Azure Data Lake Storage account with encryption disabled.' The 'Actions' column remains the same.

**NEW QUESTION 7**

- (Exam Topic 3)

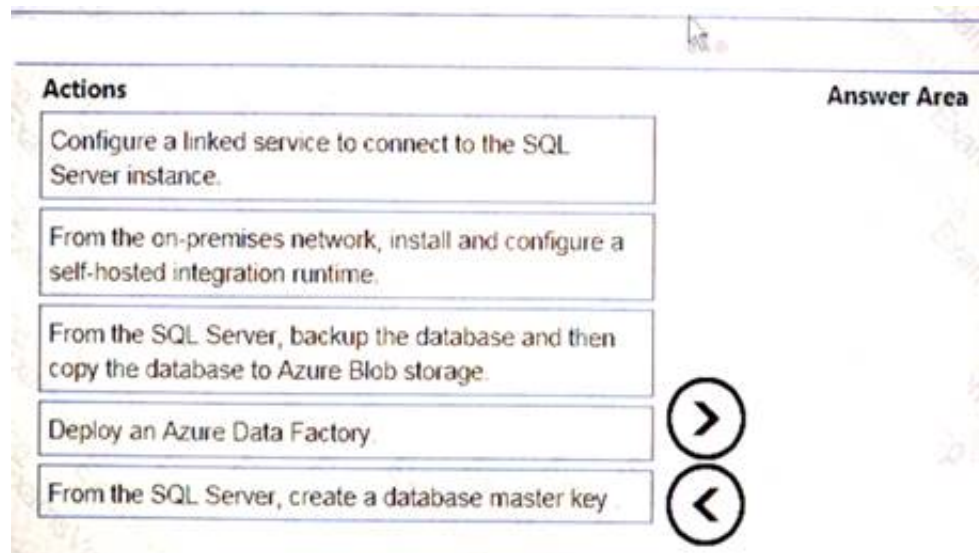
Your company has on-premises Microsoft SQL Server instance.

The data engineering team plans to implement a process that copies data from the SQL Server instance to Azure Blob storage. The process must orchestrate and manage the data lifecycle.

You need to configure Azure Data Factory to connect to the SQL Server instance.

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.

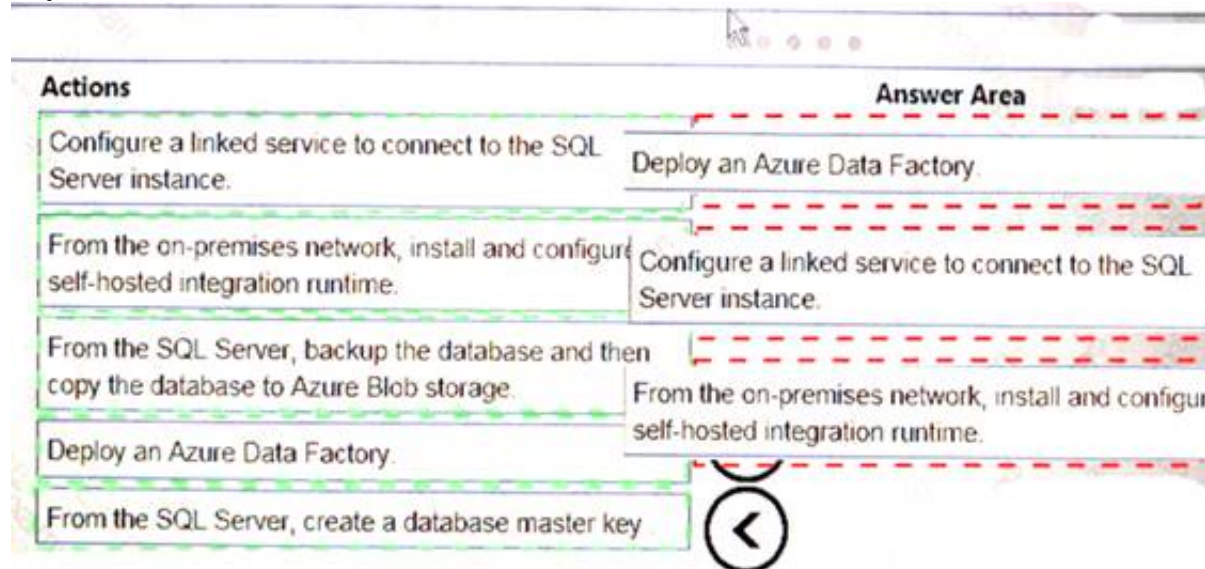




- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**



#### NEW QUESTION 8

- (Exam Topic 3)

You are a data engineer implementing a lambda architecture on Microsoft Azure. You use an open-source big data solution to collect, process, and maintain data. The analytical data store performs poorly.

You must implement a solution that meets the following requirements:

- ▶ Provide data warehousing
- ▶ Reduce ongoing management activities
- ▶ Deliver SQL query responses in less than one second

You need to create an HDInsight cluster to meet the requirements. Which type of cluster should you create?

- A. Interactive Query
- B. Apache Hadoop
- C. Apache HBase
- D. Apache Spark

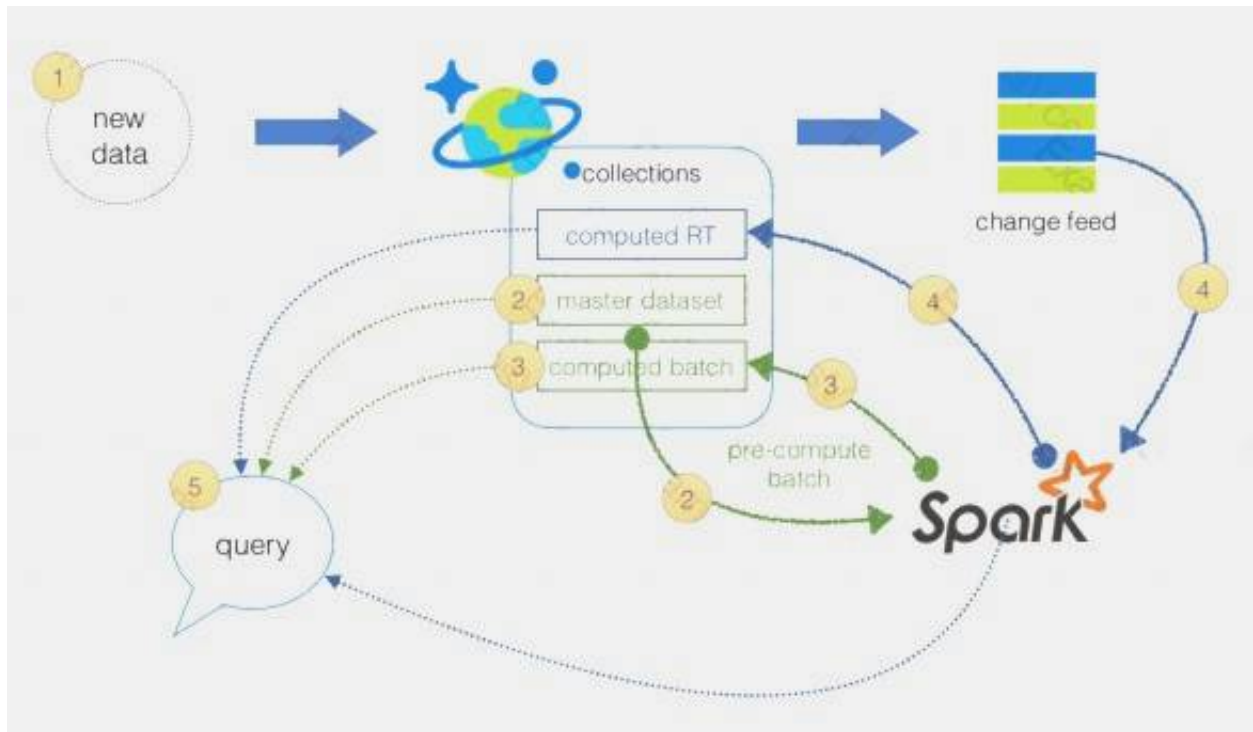
**Answer: D**

**Explanation:**

Lambda Architecture with Azure:

Azure offers you a combination of following technologies to accelerate real-time big data analytics:

- ▶ Azure Cosmos DB, a globally distributed and multi-model database service.
- ▶ Apache Spark for Azure HDInsight, a processing framework that runs large-scale data analytics applications.
- ▶ The Spark to Azure Cosmos DB Connector



Note: Lambda architecture is a data-processing architecture designed to handle massive quantities of data by taking advantage of both batch processing and stream processing methods, and minimizing the latency involved in querying big data.

References:

<https://sqlwithmanoj.com/2018/02/16/what-is-lambda-architecture-and-what-azure-offers-with-its-new-cosmos->

### NEW QUESTION 9

- (Exam Topic 3)

A company plans to develop solutions to perform batch processing of multiple sets of geospatial data. You need to implement the solutions.

Which Azure services should you use? To answer, select the appropriate configuration in the answer area. NOTE: Each correct selection is worth one point.

Scenario	Tool
Use a native client application to run interactive queries and batch processes.	<input type="checkbox"/> HDInsight Tools for Visual Studio <input type="checkbox"/> Hive View <input type="checkbox"/> HDInsight REST API <input type="checkbox"/> Azure Data Factory
Use a web browser to run interactive queries and batch processes.	<input type="checkbox"/> HDInsight Tools for Visual Studio <input type="checkbox"/> Hive View <input type="checkbox"/> HDInsight REST API <input type="checkbox"/> Azure PowerShell
Develop batch processing applications that use Azure HDInsight.	<input type="checkbox"/> HDInsight Tools for Visual Studio <input type="checkbox"/> Hive View <input type="checkbox"/> HDInsight REST API <input type="checkbox"/> NoSQL database

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Scenario	Tool
Use a native client application to run interactive queries and batch processes.	<input type="checkbox"/> HDInsight Tools for Visual Studio <input type="checkbox"/> Hive View <input checked="" type="checkbox"/> HDInsight REST API <input type="checkbox"/> Azure Data Factory
Use a web browser to run interactive queries and batch processes.	<input type="checkbox"/> HDInsight Tools for Visual Studio <input type="checkbox"/> Hive View <input type="checkbox"/> HDInsight REST API <input type="checkbox"/> Azure PowerShell
Develop batch processing applications that use Azure HDInsight.	<input type="checkbox"/> HDInsight Tools for Visual Studio <input checked="" type="checkbox"/> Hive View <input type="checkbox"/> HDInsight REST API <input type="checkbox"/> NoSQL database

### NEW QUESTION 10

- (Exam Topic 3)

You develop data engineering solutions for a company.

A project requires analysis of real-time Twitter feeds. Posts that contain specific keywords must be stored and processed on Microsoft Azure and then displayed by using Microsoft Power BI. You need to implement the solution.

Which five 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.

Actions	Answer Area
Create an HDInsight cluster with the Hadoop cluster type.	
Create a Jupyter Notebook.	
Run a job that uses the Spark Streaming API to ingest data from Twitter.	
Create a Runbook.	
Create an HDInsight cluster with the Spark cluster type.	
Create an table.	
Load the hvac table into Power BI Desktop.	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Step 1: Create an HDInsight cluster with the Spark cluster type Step 2: Create a Jupyter Notebook

Step 3: Create a table

The Jupyter Notebook that you created in the previous step includes code to create an hvac table. Step 4: Run a job that uses the Spark Streaming API to ingest data from Twitter

Step 5: Load the hvac table into Power BI Desktop

You use Power BI to create visualizations, reports, and dashboards from the Spark cluster data. References:

<https://acadgild.com/blog/streaming-twitter-data-using-spark>

<https://docs.microsoft.com/en-us/azure/hdinsight/spark/apache-spark-use-with-data-lake-store>

**NEW QUESTION 10**

- (Exam Topic 3)

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 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.

A company uses Azure Data Lake Gen 1 Storage to store big data related to consumer behavior. You need to implement logging.

Solution: Create an Azure Automation runbook to copy events. Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

**NEW QUESTION 12**

- (Exam Topic 3)

A company manages several on-premises Microsoft SQL Server databases.

You need to migrate the databases to Microsoft Azure by using the backup process of Microsoft SQL Server. Which data technology should you use?

- A. Azure SQL Database Managed Instance
- B. Azure SQL Data Warehouse
- C. Azure Cosmos DB
- D. Azure SQL Database single database

**Answer:** D

**NEW QUESTION 17**

- (Exam Topic 3)

You are a data architect. The data engineering team needs to configure a synchronization of data between an on-premises Microsoft SQL Server database to Azure SQL Database.

Ad-hoc and reporting queries are being overutilized the on-premises production instance. The synchronization process must:

Perform an initial data synchronization to Azure SQL Database with minimal downtime Perform bi-directional data synchronization after initial synchronization

You need to implement this synchronization solution. Which synchronization method should you use?

- A. transactional replication
- B. Data Migration Assistant (DMA)
- C. backup and restore
- D. SQL Server Agent job



E. Azure SQL Data Sync

**Answer:** E

**Explanation:**

SQL Data Sync is a service built on Azure SQL Database that lets you synchronize the data you select bi-directionally across multiple SQL databases and SQL Server instances.

With Data Sync, you can keep data synchronized between your on-premises databases and Azure SQL databases to enable hybrid applications.

Compare Data Sync with Transactional Replication

	Data Sync	Transactional Replication
Advantages	<ul style="list-style-type: none"><li>- Active-active support</li><li>- Bi-directional between on-premises and Azure SQL Database</li></ul>	<ul style="list-style-type: none"><li>- Lower latency</li><li>- Transactional consistency</li><li>- Reuse existing topology after migration</li></ul>
Disadvantages	<ul style="list-style-type: none"><li>- 5 min or more latency</li><li>- No transactional consistency</li><li>- Higher performance impact</li></ul>	<ul style="list-style-type: none"><li>- Can't publish from Azure SQL Database single database or pooled database</li><li>- High maintenance cost</li></ul>

References:

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

**NEW QUESTION 21**

- (Exam Topic 3)

Note: This question is part of series of questions that present the same scenario. Each question in the series contain a unique solution. Determine whether the solution meets the stated goals.

You develop a data ingestion process that will import data to a Microsoft Azure SQL Data Warehouse. The data to be ingested resides in parquet files stored in an Azure Data Lake Gen 2 storage account.

You need to load the data from the Azure Data Lake Gen 2 storage account into the Azure SQL Data Warehouse.

Solution:

1. Use Azure Data Factory to convert the parquet files to CSV files
2. Create an external data source pointing to the Azure storage account
3. Create an external file format and external table using the external data source
4. Load the data using the INSERT...SELECT statement Does the solution meet the goal?

A. Yes

B. No

**Answer:** B

**Explanation:**

There is no need to convert the parquet files to CSV files.

You load the data using the CREATE TABLE AS SELECT statement. References:

<https://docs.microsoft.com/en-us/azure/sql-data-warehouse/sql-data-warehouse-load-from-azure-data-lake-store>

**NEW QUESTION 25**

- (Exam Topic 3)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets the stated goals.

You develop a data ingestion process that will import data to a Microsoft Azure SQL Data Warehouse.

The data to be ingested resides in parquet files stored in an Azure Data lake Gen 2 storage account.

You need to load the data from the Azure Data Lake Gen 2 storage account into the Azure SQL Data Warehouse.

Solution;

1. Create an external data source pointing to the Azure Data Lake Gen 2 storage account.
2. Create an external tile format and external table using the external data source.
3. Load the data using the CREATE TABLE AS SELECT statement.

Does the solution meet the goal?

A. Yes

B. No

**Answer:** A

**NEW QUESTION 27**

- (Exam Topic 3)

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 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.

A company uses Azure Data Lake Gen 1 Storage to store big data related to consumer behavior. You need to implement logging.

Solution: Use information stored m Azure Active Directory reports.

Does the solution meet the goal?

A. Yes

B. No

**Answer:** B



#### NEW QUESTION 32

- (Exam Topic 3)

A company has a SaaS solutions that will uses Azure SQL Database with elastic pools. The solution will have a dedicated database for each customer organization Customer organizations have peak usage at different periods during the year.

Which two factors affect your costs when sizing the Azure SQL Database elastic pools? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. maximum data size
- B. number of databases
- C. eDTUs consumption
- D. number of read operations
- E. number of transactions

**Answer:** AC

#### NEW QUESTION 34

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## About ExamBible

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### NEW QUESTION 1

- (Exam Topic 1)

You need to ensure that phone-based polling data can be analyzed in the PollingData database. How should you configure Azure Data Factory?

- A. Use a tumbling schedule trigger
- B. Use an event-based trigger
- C. Use a schedule trigger
- D. Use manual execution

**Answer: C**

#### Explanation:

When creating a schedule trigger, you specify a schedule (start date, recurrence, end date etc.) for the trigger, and associate with a Data Factory pipeline.

Scenario:

All data migration processes must use Azure Data Factory

All data migrations must run automatically during non-business hours

References:  
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You need to set up access to Azure SQL Database for Tier 7 and Tier 8 partners.

Which three actions should you perform in sequence? To answer, move the appropriate three actions from the list of actions to the answer area and arrange them in the correct order.

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Connect to the Database and use Azure PowerShell to create a database firewall rule	
Set the Allow Azure Services to Access Server to Disabled	
In the Azure portal, create a database firewall rule	
In the Azure portal, create a server firewall rule	
Connect to the database and use Transact-SQL to create a database firewall rule	
Set the Allow Azure Services to Access Server setting to Enabled	

- A. Mastered
- B. Not Mastered

**Answer: A**

#### Explanation:

Tier 7 and 8 data access is constrained to single endpoints managed by partners for access Step 1: Set the Allow Azure Services to Access Server setting to Disabled

Set Allow access to Azure services to OFF for the most secure configuration.

By default, access through the SQL Database firewall is enabled for all Azure services, under Allow access to Azure services. Choose OFF to disable access for all Azure services.

Note: The firewall pane has an ON/OFF button that is labeled Allow access to Azure services. The ON setting allows communications from all Azure IP addresses and all Azure subnets. These Azure IPs or subnets might not be owned by you. This ON setting is probably more open than you want your SQL Database to be.

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- A. Azure SQL Data Warehouse
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- C. Azure Stream Analytics
- D. HDInsight Apache Hadoop cluster using MapReduce
- E. HDInsight Spark cluster

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Explanation:

Storm runs topologies instead of the Apache Hadoop MapReduce jobs that you might be familiar with. Storm topologies are composed of multiple components that are arranged in a directed acyclic graph (DAG). Data flows between the components in the graph. Each component consumes one or more data streams, and can optionally emit one or more streams.

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Answer Area

- A. Mastered
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Answer: A

Explanation:

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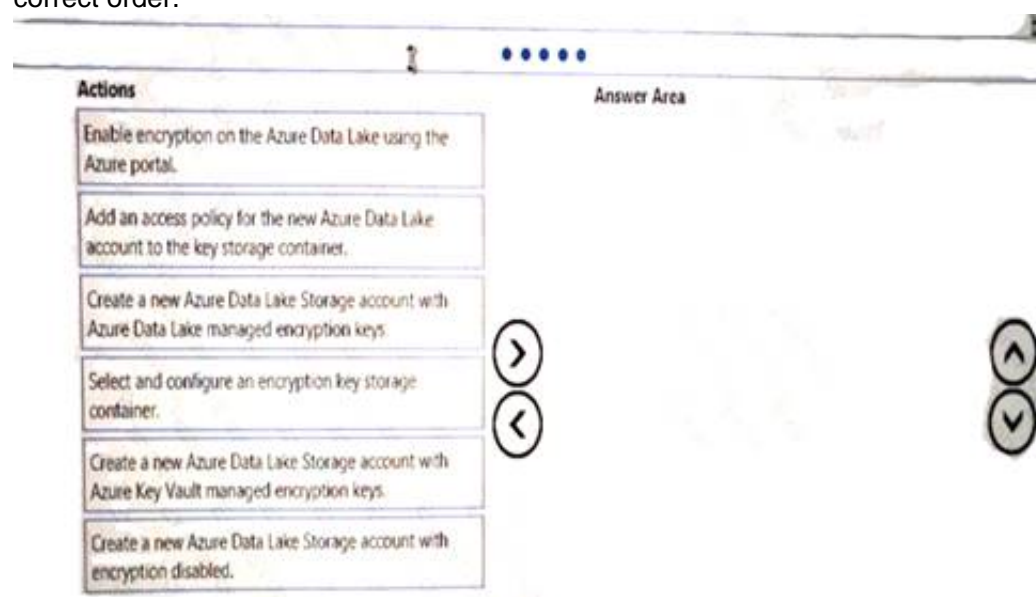
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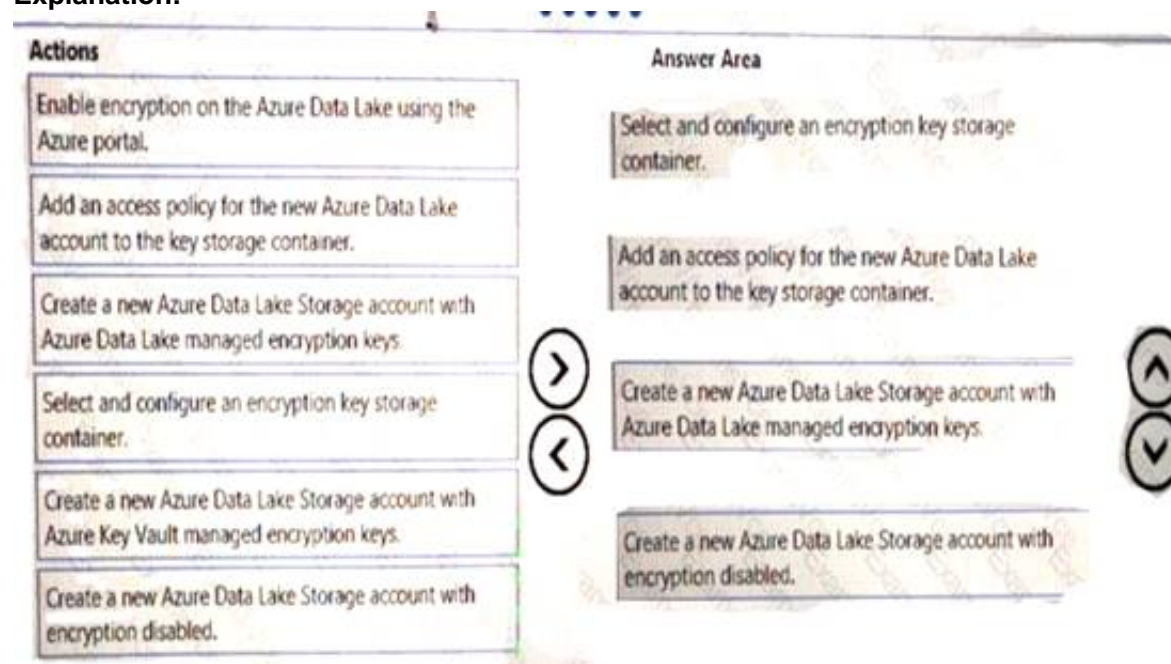


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Explanation:



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#### NEW QUESTION 7

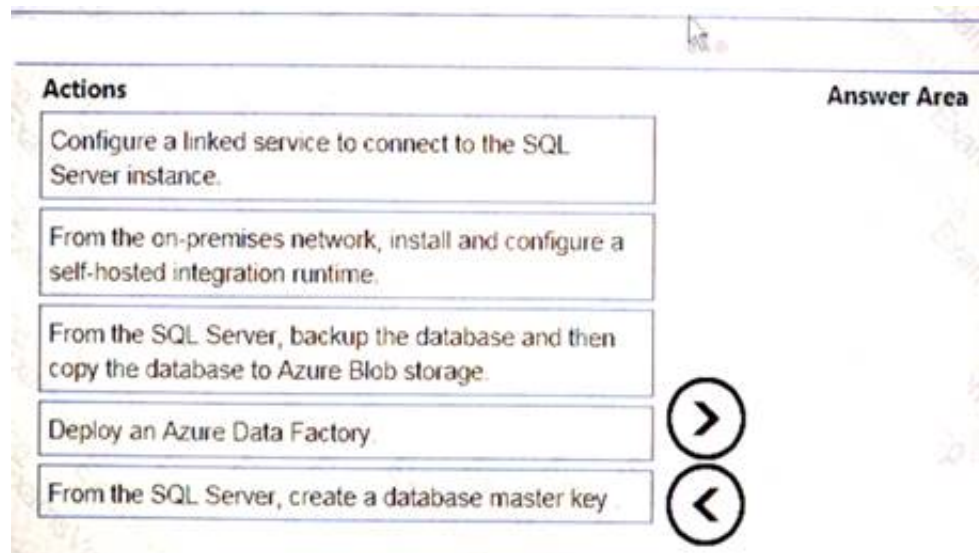
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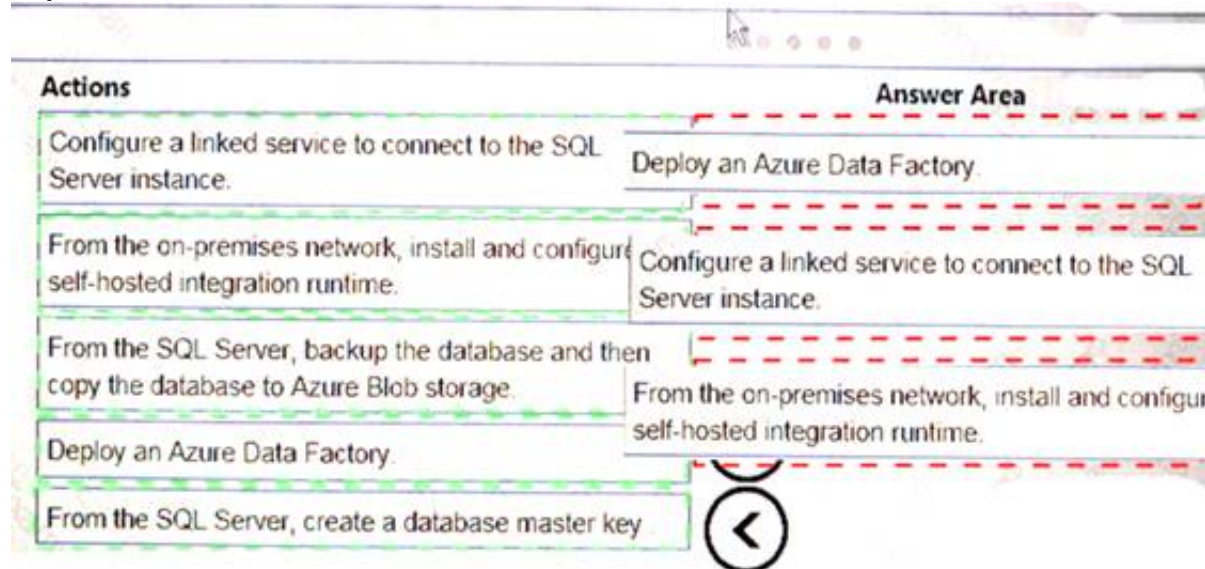
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- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**



#### NEW QUESTION 8

- (Exam Topic 3)

You are a data engineer implementing a lambda architecture on Microsoft Azure. You use an open-source big data solution to collect, process, and maintain data. The analytical data store performs poorly.

You must implement a solution that meets the following requirements:

- ▶ Provide data warehousing
- ▶ Reduce ongoing management activities
- ▶ Deliver SQL query responses in less than one second

You need to create an HDInsight cluster to meet the requirements. Which type of cluster should you create?

- A. Interactive Query
- B. Apache Hadoop
- C. Apache HBase
- D. Apache Spark

**Answer:** D

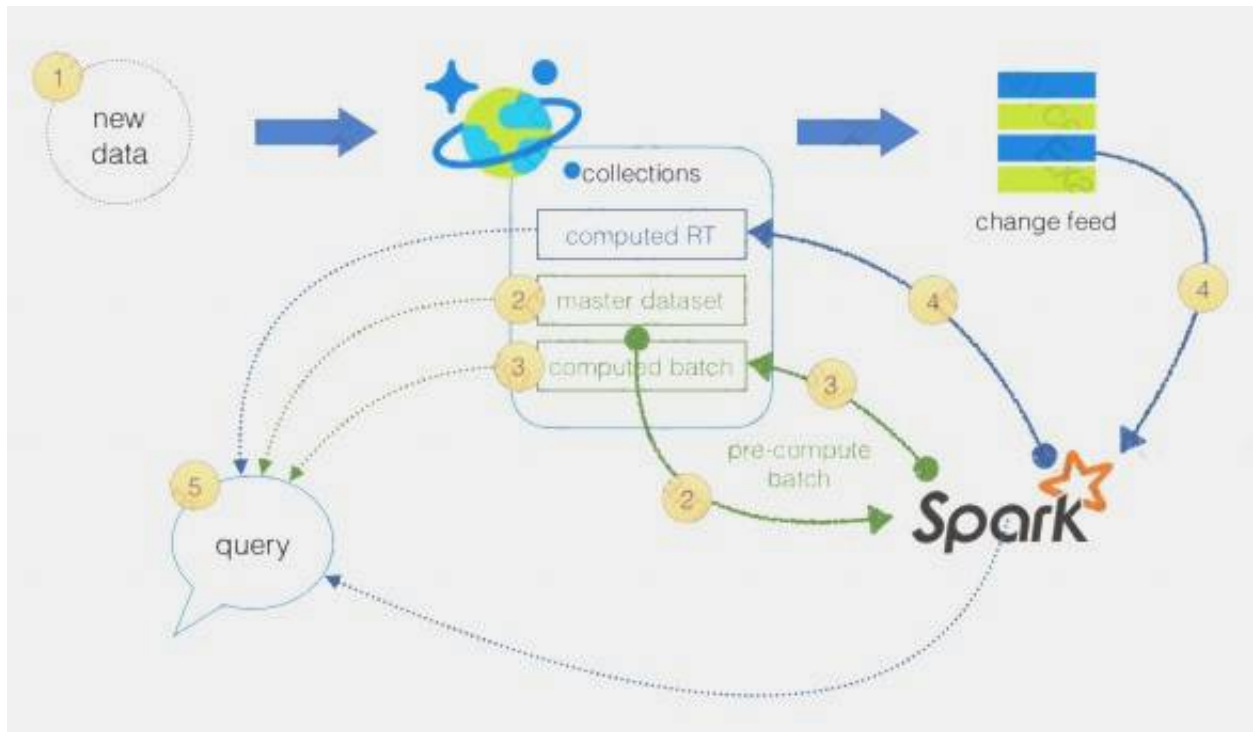
**Explanation:**

Lambda Architecture with Azure:

Azure offers you a combination of following technologies to accelerate real-time big data analytics:

- ▶ Azure Cosmos DB, a globally distributed and multi-model database service.
- ▶ Apache Spark for Azure HDInsight, a processing framework that runs large-scale data analytics applications.
- ▶ The Spark to Azure Cosmos DB Connector





Note: Lambda architecture is a data-processing architecture designed to handle massive quantities of data by taking advantage of both batch processing and stream processing methods, and minimizing the latency involved in querying big data.

References:

<https://sqlwithmanoj.com/2018/02/16/what-is-lambda-architecture-and-what-azure-offers-with-its-new-cosmos->

### NEW QUESTION 9

- (Exam Topic 3)

A company plans to develop solutions to perform batch processing of multiple sets of geospatial data. You need to implement the solutions.

Which Azure services should you use? To answer, select the appropriate configuration in the answer area. NOTE: Each correct selection is worth one point.

Scenario	Tool
Use a native client application to run interactive queries and batch processes.	<input type="checkbox"/> HDInsight Tools for Visual Studio <input type="checkbox"/> Hive View <input type="checkbox"/> HDInsight REST API <input type="checkbox"/> Azure Data Factory
Use a web browser to run interactive queries and batch processes.	<input type="checkbox"/> HDInsight Tools for Visual Studio <input type="checkbox"/> Hive View <input type="checkbox"/> HDInsight REST API <input type="checkbox"/> Azure PowerShell
Develop batch processing applications that use Azure HDInsight.	<input type="checkbox"/> HDInsight Tools for Visual Studio <input type="checkbox"/> Hive View <input type="checkbox"/> HDInsight REST API <input type="checkbox"/> NoSQL database

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

Scenario	Tool
Use a native client application to run interactive queries and batch processes.	<input type="checkbox"/> HDInsight Tools for Visual Studio <input type="checkbox"/> Hive View <input checked="" type="checkbox"/> HDInsight REST API <input type="checkbox"/> Azure Data Factory
Use a web browser to run interactive queries and batch processes.	<input type="checkbox"/> HDInsight Tools for Visual Studio <input type="checkbox"/> Hive View <input type="checkbox"/> HDInsight REST API <input type="checkbox"/> Azure PowerShell
Develop batch processing applications that use Azure HDInsight.	<input type="checkbox"/> HDInsight Tools for Visual Studio <input checked="" type="checkbox"/> Hive View <input type="checkbox"/> HDInsight REST API <input type="checkbox"/> NoSQL database

### NEW QUESTION 10

- (Exam Topic 3)

You develop data engineering solutions for a company.

A project requires analysis of real-time Twitter feeds. Posts that contain specific keywords must be stored and processed on Microsoft Azure and then displayed by using Microsoft Power BI. You need to implement the solution.

Which five 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.

Actions	Answer Area
Create an HDInsight cluster with the Hadoop cluster type.	
Create a Jupyter Notebook.	
Run a job that uses the Spark Streaming API to ingest data from Twitter.	
Create a Runbook.	
Create an HDInsight cluster with the Spark cluster type.	
Create an table.	
Load the hvac table into Power BI Desktop.	

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Step 1: Create an HDInsight cluster with the Spark cluster type Step 2: Create a Jupyter Notebook

Step 3: Create a table

The Jupyter Notebook that you created in the previous step includes code to create an hvac table. Step 4: Run a job that uses the Spark Streaming API to ingest data from Twitter

Step 5: Load the hvac table into Power BI Desktop

You use Power BI to create visualizations, reports, and dashboards from the Spark cluster data. References:

<https://acadgild.com/blog/streaming-twitter-data-using-spark>

<https://docs.microsoft.com/en-us/azure/hdinsight/spark/apache-spark-use-with-data-lake-store>

**NEW QUESTION 10**

- (Exam Topic 3)

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 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.

A company uses Azure Data Lake Gen 1 Storage to store big data related to consumer behavior. You need to implement logging.

Solution: Create an Azure Automation runbook to copy events. Does the solution meet the goal?

- A. Yes  
B. No

**Answer:** B

**NEW QUESTION 12**

- (Exam Topic 3)

A company manages several on-premises Microsoft SQL Server databases.

You need to migrate the databases to Microsoft Azure by using the backup process of Microsoft SQL Server. Which data technology should you use?

- A. Azure SQL Database Managed Instance  
B. Azure SQL Data Warehouse  
C. Azure Cosmos DB  
D. Azure SQL Database single database

**Answer:** D

**NEW QUESTION 17**

- (Exam Topic 3)

You are a data architect. The data engineering team needs to configure a synchronization of data between an on-premises Microsoft SQL Server database to Azure SQL Database.

Ad-hoc and reporting queries are being overutilized the on-premises production instance. The synchronization process must:

Perform an initial data synchronization to Azure SQL Database with minimal downtime Perform bi-directional data synchronization after initial synchronization

You need to implement this synchronization solution. Which synchronization method should you use?

- A. transactional replication  
B. Data Migration Assistant (DMA)  
C. backup and restore  
D. SQL Server Agent job

E. Azure SQL Data Sync

**Answer:** E

**Explanation:**

SQL Data Sync is a service built on Azure SQL Database that lets you synchronize the data you select bi-directionally across multiple SQL databases and SQL Server instances.

With Data Sync, you can keep data synchronized between your on-premises databases and Azure SQL databases to enable hybrid applications.

Compare Data Sync with Transactional Replication

	Data Sync	Transactional Replication
Advantages	<ul style="list-style-type: none"><li>- Active-active support</li><li>- Bi-directional between on-premises and Azure SQL Database</li></ul>	<ul style="list-style-type: none"><li>- Lower latency</li><li>- Transactional consistency</li><li>- Reuse existing topology after migration</li></ul>
Disadvantages	<ul style="list-style-type: none"><li>- 5 min or more latency</li><li>- No transactional consistency</li><li>- Higher performance impact</li></ul>	<ul style="list-style-type: none"><li>- Can't publish from Azure SQL Database single database or pooled database</li><li>- High maintenance cost</li></ul>

References:

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

**NEW QUESTION 21**

- (Exam Topic 3)

Note: This question is part of series of questions that present the same scenario. Each question in the series contain a unique solution. Determine whether the solution meets the stated goals.

You develop a data ingestion process that will import data to a Microsoft Azure SQL Data Warehouse. The data to be ingested resides in parquet files stored in an Azure Data Lake Gen 2 storage account.

You need to load the data from the Azure Data Lake Gen 2 storage account into the Azure SQL Data Warehouse.

Solution:

1. Use Azure Data Factory to convert the parquet files to CSV files
2. Create an external data source pointing to the Azure storage account
3. Create an external file format and external table using the external data source
4. Load the data using the INSERT...SELECT statement Does the solution meet the goal?

A. Yes

B. No

**Answer:** B

**Explanation:**

There is no need to convert the parquet files to CSV files.

You load the data using the CREATE TABLE AS SELECT statement. References:

<https://docs.microsoft.com/en-us/azure/sql-data-warehouse/sql-data-warehouse-load-from-azure-data-lake-store>

**NEW QUESTION 25**

- (Exam Topic 3)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution. Determine whether the solution meets the stated goals.

You develop a data ingestion process that will import data to a Microsoft Azure SQL Data Warehouse.

The data to be ingested resides in parquet files stored in an Azure Data lake Gen 2 storage account.

You need to load the data from the Azure Data Lake Gen 2 storage account into the Azure SQL Data Warehouse.

Solution;

1. Create an external data source pointing to the Azure Data Lake Gen 2 storage account.
2. Create an external tile format and external table using the external data source.
3. Load the data using the CREATE TABLE AS SELECT statement.

Does the solution meet the goal?

A. Yes

B. No

**Answer:** A

**NEW QUESTION 27**

- (Exam Topic 3)

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 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.

A company uses Azure Data Lake Gen 1 Storage to store big data related to consumer behavior. You need to implement logging.

Solution: Use information stored m Azure Active Directory reports.

Does the solution meet the goal?

A. Yes

B. No

**Answer:** B



#### NEW QUESTION 32

- (Exam Topic 3)

A company has a SaaS solutions that will uses Azure SQL Database with elastic pools. The solution will have a dedicated database for each customer organization Customer organizations have peak usage at different periods during the year.

Which two factors affect your costs when sizing the Azure SQL Database elastic pools? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. maximum data size
- B. number of databases
- C. eDTUs consumption
- D. number of read operations
- E. number of transactions

**Answer:** AC

#### NEW QUESTION 34

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