

# Exam Questions DP-200

Implementing an Azure Data Solution

<https://www.2passeasy.com/dumps/DP-200/>



## NEW QUESTION 1

- (Exam Topic 2)

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some questions 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.

You need to implement diagnostic logging for Data Warehouse monitoring. Which log should you use?

- A. RequestSteps
- B. DmsWorkers
- C. SqlRequests
- D. ExecRequests

**Answer: C**

### Explanation:

Scenario:

The Azure SQL Data Warehouse cache must be monitored when the database is being used.

Metric	Description
A	Low cache hit %, high cache usage %
B	Low cache hit %, low cache usage %
C	High cache hit %, high cache usage %

References:

https://docs.microsoft.com/en-us/sql/relational-databases/system-dynamic-management-views/sys-dm-pdw-sql-r

## NEW QUESTION 2

- (Exam Topic 2)

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After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You need to configure data encryption for external applications. Solution:

1. Access the Always Encrypted Wizard in SQL Server Management Studio
2. Select the column to be encrypted
3. Set the encryption type to Randomized
4. Configure the master key to use the Windows Certificate Store
5. Validate configuration results and deploy the solution Does the solution meet the goal?

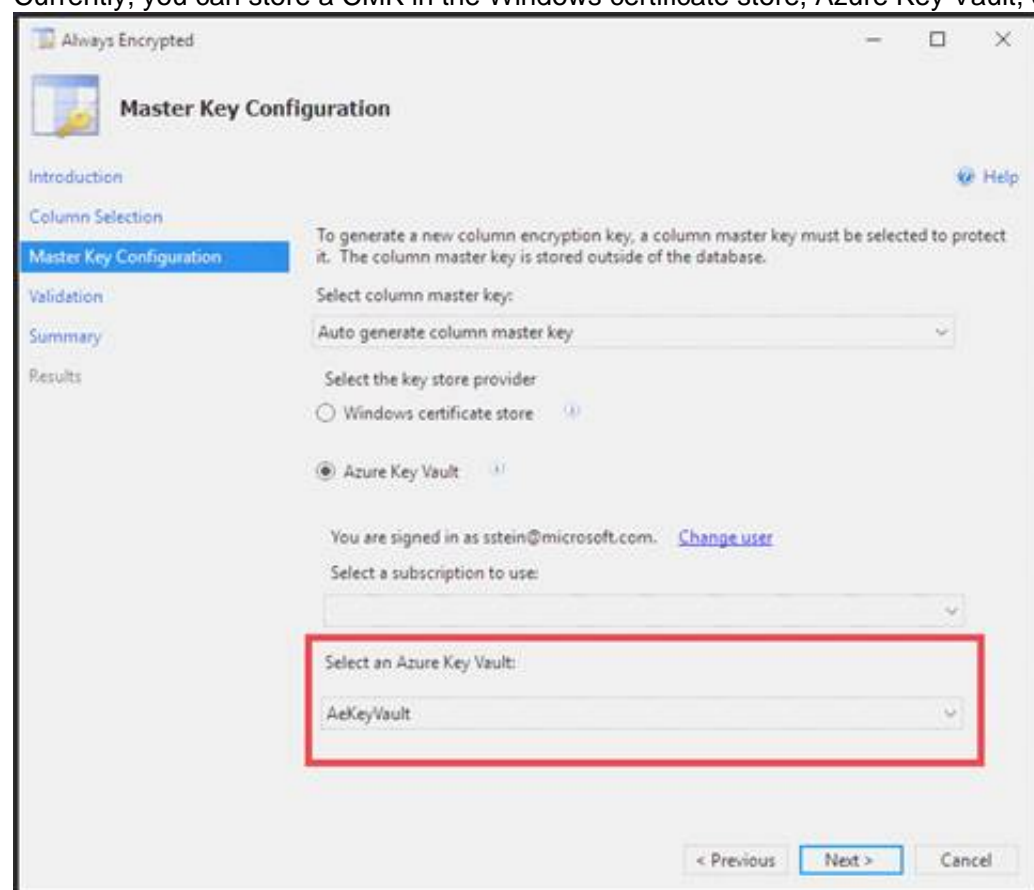
- A. Yes
- B. No

**Answer: B**

### Explanation:

Use the Azure Key Vault, not the Windows Certificate Store, to store the master key.

Note: The Master Key Configuration page is where you set up your CMK (Column Master Key) and select the key store provider where the CMK will be stored. Currently, you can store a CMK in the Windows certificate store, Azure Key Vault, or a hardware security module (HSM).



References:

https://docs.microsoft.com/en-us/azure/sql-database/sql-database-always-encrypted-azure-key-vault

## NEW QUESTION 3

- (Exam Topic 2)

You need to process and query ingested Tier 9 data.

Which two options should you use? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Azure Notification Hub
- B. Transact-SQL statements
- C. Azure Cache for Redis
- D. Apache Kafka statements
- E. Azure Event Grid
- F. Azure Stream Analytics

**Answer:** EF

**Explanation:**

Event Hubs provides a Kafka endpoint that can be used by your existing Kafka based applications as an alternative to running your own Kafka cluster. You can stream data into Kafka-enabled Event Hubs and process it with Azure Stream Analytics, in the following steps:

- ▶ Create a Kafka enabled Event Hubs namespace.
- ▶ Create a Kafka client that sends messages to the event hub.
- ▶ Create a Stream Analytics job that copies data from the event hub into an Azure blob storage. Scenario:

Internal Distribution and Sales	9	Yes, once ingested at branches	Data ingested from Contoso branches
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Tier 9 reporting must be moved to Event Hubs, queried, and persisted in the same Azure region as the company's main office

References:

<https://docs.microsoft.com/en-us/azure/event-hubs/event-hubs-kafka-stream-analytics>

**NEW QUESTION 4**

- (Exam Topic 2)

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After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You need to configure data encryption for external applications.

Solution:

1. Access the Always Encrypted Wizard in SQL Server Management Studio
2. Select the column to be encrypted
3. Set the encryption type to Deterministic
4. Configure the master key to use the Windows Certificate Store
5. Validate configuration results and deploy the solution Does the solution meet the goal?

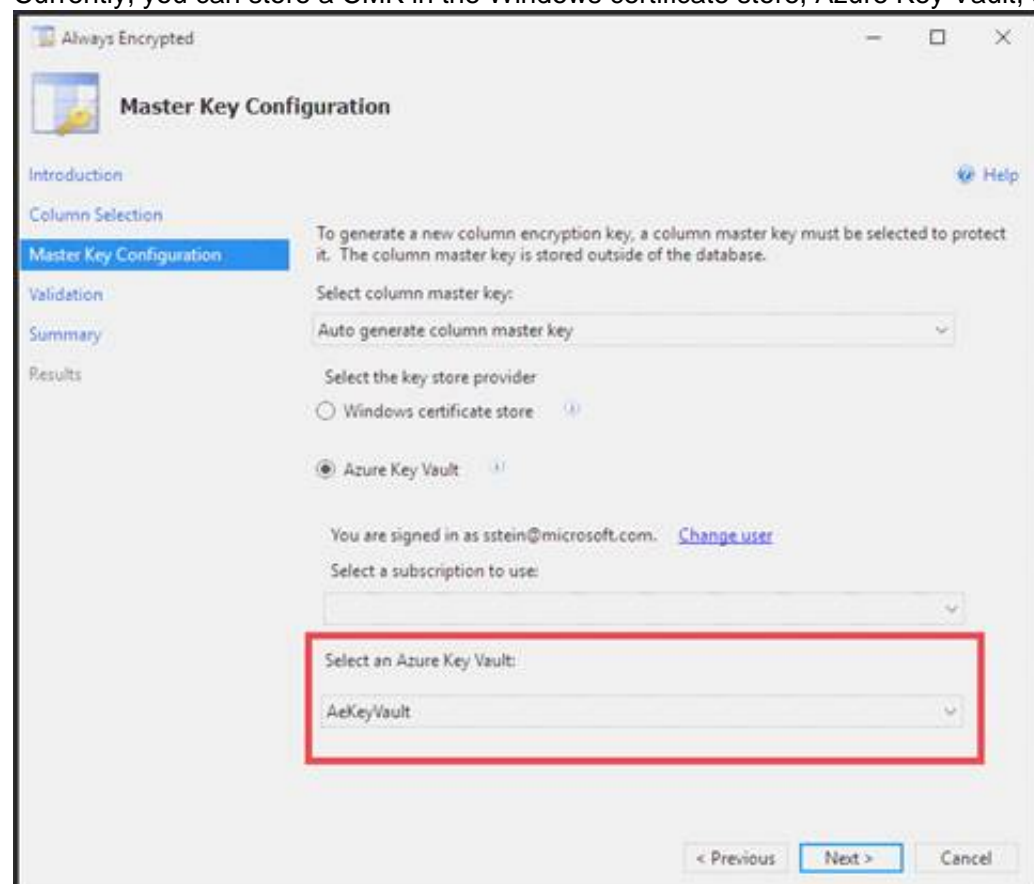
- A. Yes
- B. No

**Answer:** B

**Explanation:**

Use the Azure Key Vault, not the Windows Certificate Store, to store the master key.

Note: The Master Key Configuration page is where you set up your CMK (Column Master Key) and select the key store provider where the CMK will be stored. Currently, you can store a CMK in the Windows certificate store, Azure Key Vault, or a hardware security module (HSM).



References:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-always-encrypted-azure-key-vault>

**NEW QUESTION 5**

- (Exam Topic 2)

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After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You need setup monitoring for tiers 6 through 8. What should you configure?

- A. extended events for average storage percentage that emails data engineers
- B. an alert rule to monitor CPU percentage in databases that emails data engineers

- C. an alert rule to monitor CPU percentage in elastic pools that emails data engineers
- D. an alert rule to monitor storage percentage in databases that emails data engineers
- E. an alert rule to monitor storage percentage in elastic pools that emails data engineers

Answer: E

Explanation:

Scenario:  
Tiers 6 through 8 must have unexpected resource storage usage immediately reported to data engineers.  
Tier 3 and Tier 6 through Tier 8 applications must use database density on the same server and Elastic pools in a cost-effective manner.

NEW QUESTION 6

- (Exam Topic 3)  
Your company manages on-premises Microsoft SQL Server pipelines by using a custom solution. The data engineering team must implement a process to pull data from SQL Server and migrate it to Azure Blob storage. The process must orchestrate and manage the data lifecycle. You need to configure Azure Data Factory to connect to the on-premises SQL Server database. 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	Answer Area
Create an Azure Data Factory resource.	
Configure a self-hosted integration runtime.	
Create a virtual private network (VPN)connection from on-premises to Microsoft Azure.	
Create a database master key on SQL Server.	
Backup the database and send it Azure Blob storage.	
Configure the on-premises SQL Server instance with an integration runtime.	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Step 1: Create a virtual private network (VPN) connection from on-premises to Microsoft Azure. You can also use IPSec VPN or Azure ExpressRoute to further secure the communication channel between your on-premises network and Azure. Azure Virtual Network is a logical representation of your network in the cloud. You can connect an on-premises network to your virtual network by setting up IPSec VPN (site-to-site) or ExpressRoute (private peering). Step 2: Create an Azure Data Factory resource. Step 3: Configure a self-hosted integration runtime. You create a self-hosted integration runtime and associate it with an on-premises machine with the SQL Server database. The self-hosted integration runtime is the component that copies data from the SQL Server database on your machine to Azure Blob storage. Note: A self-hosted integration runtime can run copy activities between a cloud data store and a data store in a private network, and it can dispatch transform activities against compute resources in an on-premises network or an Azure virtual network. The installation of a self-hosted integration runtime needs on an on-premises machine or a virtual machine (VM) inside a private network. References:  
<https://docs.microsoft.com/en-us/azure/data-factory/tutorial-hybrid-copy-powershell>

NEW QUESTION 7

- (Exam Topic 3)  
You are developing a solution using a Lambda architecture on Microsoft Azure. The data at test layer must meet the following requirements: Data storage:

- Serve as a repository (or high volumes of large files in various formats.
- Implement optimized storage for big data analytics workloads.
- Ensure that data can be organized using a hierarchical structure. Batch processing:
- Use a managed solution for in-memory computation processing.
- Natively support Scala, Python, and R programming languages.
- Provide the ability to resize and terminate the cluster automatically. Analytical data store:
- Support parallel processing.
- Use columnar storage.
- Support SQL-based languages.

You need to identify the correct technologies to build the Lambda architecture. Which technologies should you use? To answer, select the appropriate options in the answer area NOTE: Each correct selection is worth one point.



Architecture requirement	Technology
Data storage	<div> Azure SQL Database  Azure Blob Storage  Azure Cosmos DB  Azure Data Lake Store </div>
Batch processing	<div> HDInsight Spark  HDInsight Hadoop  Azure Databricks  HDInsight Interactive Query </div>
Analytical data store	<div> HDInsight HBase  Azure SQL Data Warehouse  Azure Analysis Services  Azure Cosmos DB </div>

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

Architecture requirement	Technology
Data storage	<div> Azure SQL Database  Azure Blob Storage  Azure Cosmos DB  Azure Data Lake Store </div>
Batch processing	<div> HDInsight Spark  HDInsight Hadoop  Azure Databricks  HDInsight Interactive Query </div>
Analytical data store	<div> HDInsight HBase  Azure SQL Data Warehouse  Azure Analysis Services  Azure Cosmos DB </div>

#### NEW QUESTION 8

- (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	Answer Area
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	

- 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> .
Enable advanced threat protection.	
Configure the service to send email alerts to security@contoso.com	

### NEW QUESTION 9

- (Exam Topic 3)

You manage security for a database that supports a line of business application. Private and personal data stored in the database must be protected and encrypted. You need to configure the database to use Transparent Data Encryption (TDE).

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

Actions	Answer Area
Create a database encryption key using a certificate generated with the master key.	
Create a certificate and then create the master key using a password.	
Set the context to the master database.	
Create a master key using a password.	
Set the context to the company database.	
Enable encryption.	

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

Step 1: Create a master key

Step 2: Create or obtain a certificate protected by the master key Step 3: Set the context to the company database

Step 4: Create a database encryption key and protect it by the certificate Step 5: Set the database to use encryption

Example code: USE master; GO

CREATE MASTER KEY ENCRYPTION BY PASSWORD = '<UseStrongPasswordHere>';

go

CREATE CERTIFICATE MyServerCert WITH SUBJECT = 'My DEK Certificate'; go

USE AdventureWorks2012; GO

CREATE DATABASE ENCRYPTION KEY WITH ALGORITHM = AES\_128

ENCRYPTION BY SERVER CERTIFICATE MyServerCert; GO

ALTER DATABASE AdventureWorks2012 SET ENCRYPTION ON;

GO

References:

<https://docs.microsoft.com/en-us/sql/relational-databases/security/encryption/transparent-data-encryption>

### NEW QUESTION 10

- (Exam Topic 3)

A company runs Microsoft SQL Server in an on-premises virtual machine (VM).

You must migrate the database to Azure SQL Database. You synchronize users from Active Directory to Azure Active Directory (Azure AD).

You need to configure Azure SQL Database to use an Azure AD user as administrator. What should you configure?

- A. For each Azure SQL Database, set the Access Control to administrator.
- B. For the Azure SQL Database server, set the Active Directory to administrator.
- C. For each Azure SQL Database, set the Active Directory administrator role.
- D. For the Azure SQL Database server, set the Access Control to administrator.

**Answer:** A

### NEW QUESTION 10

- (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

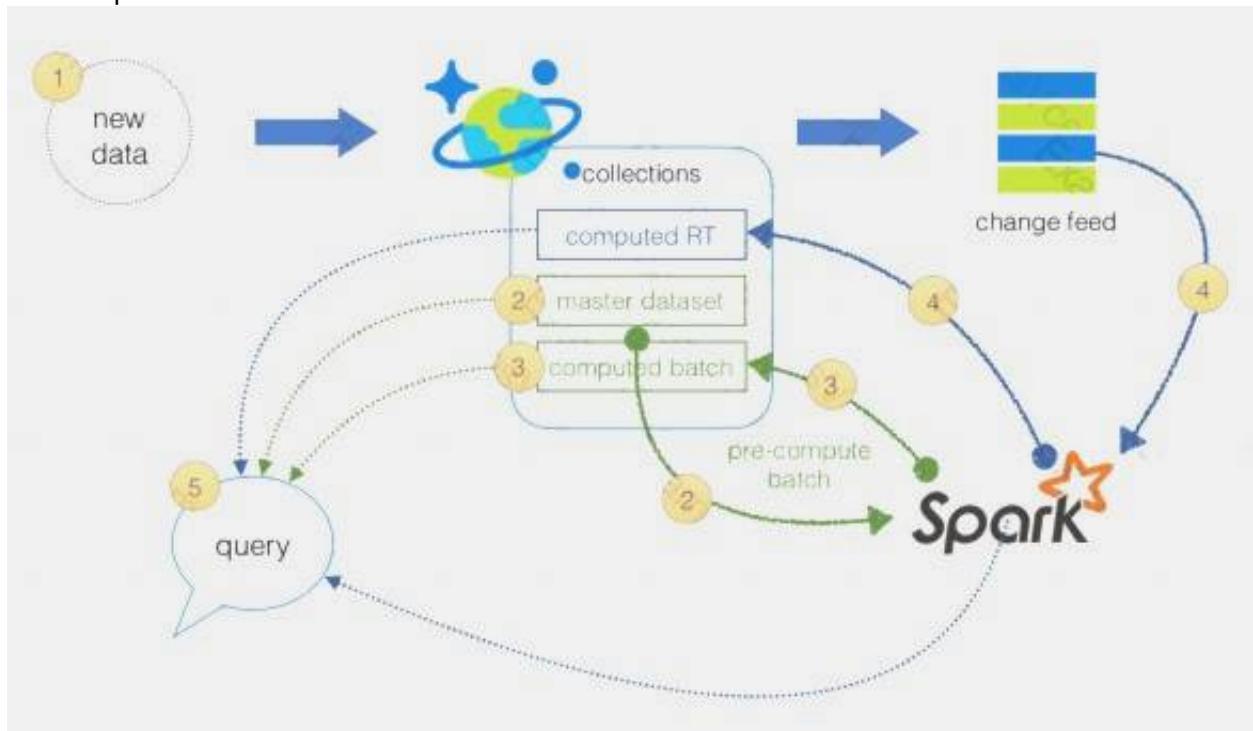
**Answer: D**

### 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 12

- (Exam Topic 3)

You develop data engineering solutions for a company.

You need to deploy a Microsoft Azure Stream Analytics job for an IoT solution. The solution must:

- Minimize latency.
- Minimize bandwidth usage between the job and IoT device.

Which four 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**

- Configure routes.
- Create an Azure Data Lake Storage container.
- Create an IoT Hub and add the Azure Stream Analytics module to the IoT Hub namespace.
- Create an Azure Stream Analytics edge job and configure job definition save location.
- Create an Azure Stream Analytics cloud job and configure job definition save location.
- Create an Azure Blob storage container.
- Configure Streaming Units

**Answer Area**

>  
<

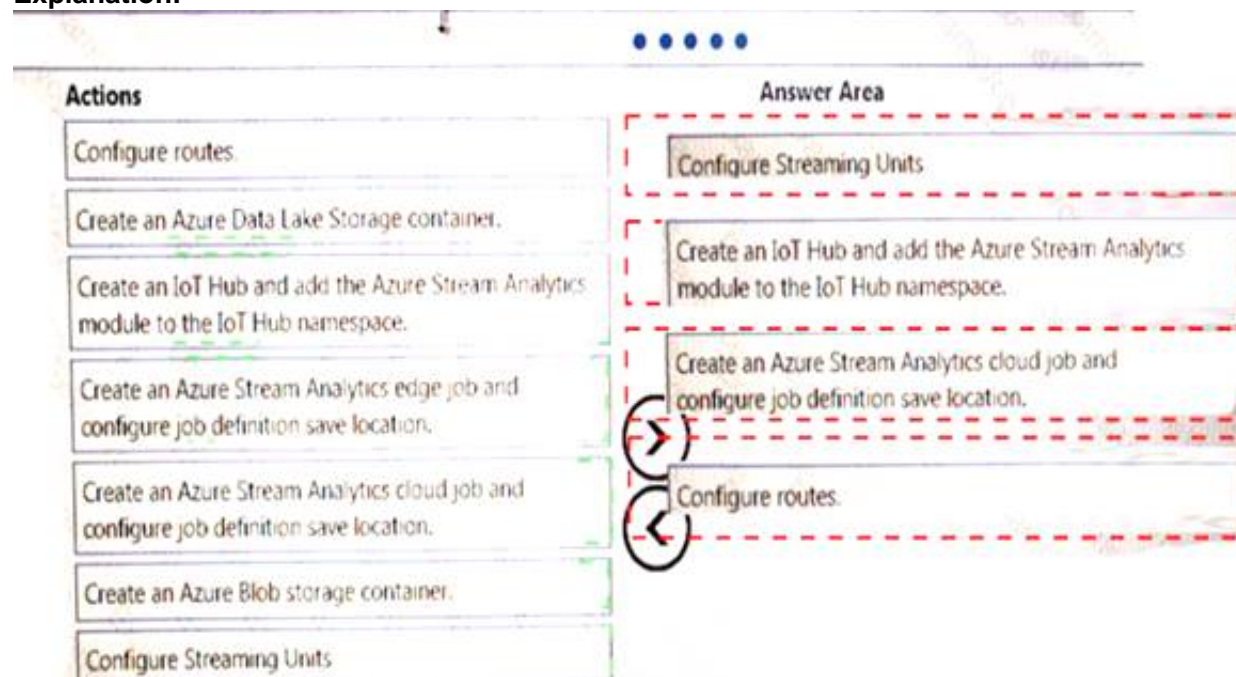
A. Mastered



B. Not Mastered

Answer: A

Explanation:



### NEW QUESTION 16

- (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 for 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 checked="" 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 20



- (Exam Topic 3)

A company has a real-time data analysis solution that is hosted on Microsoft Azure the solution uses Azure Event Hub to ingest data and an Azure Stream Analytics cloud job to analyze the data. The cloud job is configured to use 120 Streaming Units (SU).

You need to optimize performance for the Azure Stream Analytics job.

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

- A. Implement event ordering
- B. Scale the SU count for the job up
- C. Implement Azure Stream Analytics user-defined functions (UDF)
- D. Scale the SU count for the job down
- E. Implement query parallelization by partitioning the data output
- F. Implement query parallelization by partitioning the data input

**Answer:** BF

**Explanation:**

Scale out the query by allowing the system to process each input partition separately.

F: A Stream Analytics job definition includes inputs, a query, and output. Inputs are where the job reads the data stream from.

References:

https://docs.microsoft.com/en-us/azure/stream-analytics/stream-analytics-parallelization

### NEW QUESTION 25

- (Exam Topic 3)

A company is deploying a service-based data environment. You are developing a solution to process this data. The solution must meet the following requirements:

- Use an Azure HDInsight cluster for data ingestion from a relational database in a different cloud service
- Use an Azure Data Lake Storage account to store processed data
- Allow users to download processed data

You need to recommend technologies for the solution.

Which technologies should you use? To answer, select the appropriate options in the answer area.

Data process	Technology								
Ingest	<table> <tr><td>RevoScaleR</td><td>✓</td></tr> <tr><td>Apache Sqoop</td><td></td></tr> <tr><td>Apache DistCp</td><td></td></tr> <tr><td>Azure CLI</td><td></td></tr> </table>	RevoScaleR	✓	Apache Sqoop		Apache DistCp		Azure CLI	
RevoScaleR	✓								
Apache Sqoop									
Apache DistCp									
Azure CLI									
Process	<table> <tr><td>Apache DistCp</td><td>✓</td></tr> <tr><td>Apache Kafka</td><td></td></tr> <tr><td>C#</td><td></td></tr> <tr><td>Apache Hive</td><td></td></tr> </table>	Apache DistCp	✓	Apache Kafka		C#		Apache Hive	
Apache DistCp	✓								
Apache Kafka									
C#									
Apache Hive									
Download	<table> <tr><td>Apache Sqoop</td><td>✓</td></tr> <tr><td>MapReduce</td><td></td></tr> <tr><td>RevoScaleR</td><td></td></tr> <tr><td>Ambari Hive View</td><td></td></tr> </table>	Apache Sqoop	✓	MapReduce		RevoScaleR		Ambari Hive View	
Apache Sqoop	✓								
MapReduce									
RevoScaleR									
Ambari Hive View									

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Apache Sqoop is a tool designed for efficiently transferring bulk data between Apache Hadoop and structured datastores such as relational databases.

Azure HDInsight is a cloud distribution of the Hadoop components from the Hortonworks Data Platform (HDP).

### NEW QUESTION 28

- (Exam Topic 3)

You are developing a data engineering solution for a company. The solution will store a large set of key-value pair data by using Microsoft Azure Cosmos DB

The solution has the following requirements:

- Data must be partitioned into multiple containers.
- Data containers must be configured separately.
- Data must be accessible from applications hosted around the world.
- The solution must minimize latency. You need to provision Azure Cosmos DB

- A. Configure account-level throughput.
- B. Provision an Azure Cosmos DB account with the Azure Table API Enable geo-redundancy.
- C. Configure table-level throughput
- D. Replicate the data globally by manually adding regions to the Azure Cosmos DB account.
- E. Provision an Azure Cosmos DB account with the Azure Table AP
- F. Enable multi-region writes.

**Answer:** A

### NEW QUESTION 33

- (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 data engineering solutions for a company.

A project requires the deployment of resources to Microsoft Azure for batch data processing on Azure

HDInsight. Batch processing will run daily and must: Scale to minimize costs

Be monitored for cluster performance

You need to recommend a tool that will monitor clusters and provide information to suggest how to scale. Solution: Monitor cluster load using the Ambari Web UI.

Does the solution meet the goal?

A. Yes

B. No

**Answer: B**

**Explanation:**

Ambari Web UI does not provide information to suggest how to scale.

Instead monitor clusters by using Azure Log Analytics and HDInsight cluster management solutions. References:

<https://docs.microsoft.com/en-us/azure/hdinsight/hdinsight-hadoop-oms-log-analytics-tutorial> <https://docs.microsoft.com/en-us/azure/hdinsight/hdinsight-hadoop-manage-ambari>

**NEW QUESTION 34**

- (Exam Topic 3)

You need to develop a pipeline for processing data. The pipeline must meet the following requirements.

- Scale up and down resources for cost reduction.
- Use an in-memory data processing engine to speed up ETL and machine learning operations.
- Use streaming capabilities.
- Provide the ability to code in SQL, Python, Scala, and R.
- Integrate workspace collaboration with Git. What should you use?

A. HDInsight Spark Cluster

B. Azure Stream Analytics

C. HDInsight Hadoop Cluster

D. Azure SQL Data Warehouse

**Answer: B**

**NEW QUESTION 38**

- (Exam Topic 3)

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

You need to migrate the databases to Microsoft Azure by using a backup and restore process. Which data technology should you use?

A. Azure SQL Database single database

B. Azure SQL Data Warehouse

C. Azure Cosmos DB

D. Azure SQL Database Managed Instance

**Answer: D**

**Explanation:**

Managed instance is a new deployment option of Azure SQL Database, providing near 100% compatibility with the latest SQL Server on-premises (Enterprise Edition) Database Engine, providing a native virtual network (VNet) implementation that addresses common security concerns, and a business model favorable for on-premises SQL Server customers. The managed instance deployment model allows existing SQL Server customers to lift and shift their on-premises applications to the cloud with minimal application and database changes.

References:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-managed-instance>

**NEW QUESTION 39**

- (Exam Topic 3)

The data engineering team manages Azure HDInsight clusters. The team spends a large amount of time creating and destroying clusters daily because most of the data pipeline process runs in minutes.

You need to implement a solution that deploys multiple HDInsight clusters with minimal effort. What should you implement?

A. Azure Databricks

B. Azure Traffic Manager

C. Azure Resource Manager templates

D. Ambari web user interface

**Answer: C**

**Explanation:**

A Resource Manager template makes it easy to create the following resources for your application in a single, coordinated operation:

▶ HDInsight clusters and their dependent resources (such as the default storage account).

▶ Other resources (such as Azure SQL Database to use Apache Sqoop).

In the template, you define the resources that are needed for the application. You also specify deployment parameters to input values for different environments.

The template consists of JSON and expressions that you use to construct values for your deployment.

References:

<https://docs.microsoft.com/en-us/azure/hdinsight/hdinsight-hadoop-create-linux-clusters-arm-templates>

#### NEW QUESTION 42

- (Exam Topic 3)

A company is designing a hybrid solution to synchronize data and on-premises Microsoft SQL Server database to Azure SQL Database.

You must perform an assessment of databases to determine whether data will move without compatibility issues.

You need to perform the assessment. Which tool should you use?

- A. Azure SQL Data Sync
- B. SQL Vulnerability Assessment (VA)
- C. SQL Server Migration Assistant (SSMA)
- D. Microsoft Assessment and Planning Toolkit
- E. Data Migration Assistant (DMA)

**Answer:** E

#### Explanation:

The Data Migration Assistant (DMA) helps you upgrade to a modern data platform by detecting compatibility issues that can impact database functionality in your new version of SQL Server or Azure SQL Database. DMA recommends performance and reliability improvements for your target environment and allows you to move your schema, data, and uncontained objects from your source server to your target server.

References:

<https://docs.microsoft.com/en-us/sql/dma/dma-overview>

#### NEW QUESTION 44

- (Exam Topic 3)

You develop data engineering solutions for a company.

A project requires the deployment of data to Azure Data Lake Storage.

You need to implement role-based access control (RBAC) so that project members can manage the Azure Data Lake Storage resources.

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

- A. Assign Azure AD security groups to Azure Data Lake Storage.
- B. Configure end-user authentication for the Azure Data Lake Storage account.
- C. Configure service-to-service authentication for the Azure Data Lake Storage account.
- D. Create security groups in Azure Active Directory (Azure AD) and add project members.
- E. Configure access control lists (ACL) for the Azure Data Lake Storage account.

**Answer:** ADE

#### NEW QUESTION 49

- (Exam Topic 3)

You develop data engineering solutions for a company.

You must integrate the company's on-premises Microsoft SQL Server data with Microsoft Azure SQL Database. Data must be transformed incrementally.

You need to implement the data integration solution.

Which tool should you use to configure a pipeline to copy data?

- A. Use the Copy Data tool with Blob storage linked service as the source
- B. Use Azure PowerShell with SQL Server linked service as a source
- C. Use Azure Data Factory UI with Blob storage linked service as a source
- D. Use the .NET Data Factory API with Blob storage linked service as the source

**Answer:** C

#### Explanation:

The Integration Runtime is a customer managed data integration infrastructure used by Azure Data Factory to provide data integration capabilities across different network environments.

A linked service defines the information needed for Azure Data Factory to connect to a data resource. We have three resources in this scenario for which linked services are needed:

- ☒ On-premises SQL Server
- ☒ Azure Blob Storage
- ☒ Azure SQL database

Note: Azure Data Factory is a fully managed cloud-based data integration service that orchestrates and automates the movement and transformation of data. The key concept in the ADF model is pipeline. A pipeline is a logical grouping of Activities, each of which defines the actions to perform on the data contained in Datasets. Linked services are used to define the information needed for Data Factory to connect to the data resources.

References:

<https://docs.microsoft.com/en-us/azure/machine-learning/team-data-science-process/move-sql-azure-adf>

#### NEW QUESTION 54

- (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 56

- (Exam Topic 3)

A company plans to use Azure Storage for file storage purposes. Compliance rules require: A single storage account to store all operations including reads, writes and deletes

Retention of an on-premises copy of historical operations You need to configure the storage account.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Configure the storage account to log read, write and delete operations for service type Blob
- B. Use the AzCopy tool to download log data from \$logs/blob
- C. Configure the storage account to log read, write and delete operations for service-type table
- D. Use the storage client to download log data from \$logs/table
- E. Configure the storage account to log read, write and delete operations for service type queue

**Answer: AB**

#### Explanation:

Storage Logging logs request data in a set of blobs in a blob container named \$logs in your storage account. This container does not show up if you list all the blob containers in your account but you can see its contents if you access it directly.

To view and analyze your log data, you should download the blobs that contain the log data you are interested in to a local machine. Many storage-browsing tools enable you to download blobs from your storage account; you can also use the Azure Storage team provided command-line Azure Copy Tool (AzCopy) to download your log data.

References:

<https://docs.microsoft.com/en-us/rest/api/storageservices/enabling-storage-logging-and-accessing-log-data>

#### NEW QUESTION 59

- (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 64

- (Exam Topic 3)

You are creating a managed data warehouse solution on Microsoft Azure.

You must use PolyBase to retrieve data from Azure Blob storage that resides in parquet format and load the data into a large table called FactSalesOrderDetails.

You need to configure Azure SQL Data Warehouse to receive the data.

Which four 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.

The screenshot shows a question interface with a list of actions on the left and an answer area on the right. The actions are:

- Create an external file format to map the parquet files.
- Load the data to a staging table
- Create the external table FactSalesOrderDetails.
- Enable Transparent Data Encryption.
- Create an external data source for Azure Blob storage.
- Create a master key on database
- Configure PolyBase to use Azure Blob storage.

The answer area is empty. There are navigation arrows (right and left) next to the list of actions.

- A. Mastered  
 B. Not Mastered

**Answer: A**

**Explanation:**

The screenshot shows a question interface with a list of actions on the left and an answer area on the right. The actions are:

- Create an external file format to map the parquet files.
- Load the data to a staging table
- Create the external table FactSalesOrderDetails.
- Enable Transparent Data Encryption.
- Create an external data source for Azure Blob storage.
- Create a master key on database
- Configure PolyBase to use Azure Blob storage.

The answer area shows a solution path highlighted with a red dashed line. The path starts with "Enable Transparent Data Encryption." and then "Configure PolyBase to use Azure Blob storage." There are navigation arrows (right and left) next to the list of actions.

#### NEW QUESTION 69

- (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 storage account
2. Create an external file format and external table using the external data source
3. Load the data using the INSERT...SELECT statement

Does the solution meet the goal?

- A. Yes  
 B. No

**Answer: B**

**Explanation:**

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 70

- (Exam Topic 3)

You are the data engineer for your company. An application uses a NoSQL database to store data. The database uses the key-value and wide-column NoSQL database type.

Developers need to access data in the database using an API.

You need to determine which API to use for the database model and type.

Which two APIs should you use? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- A. Table API  
 B. MongoDB API  
 C. Gremlin API  
 D. SQL API  
 E. Cassandra API

**Answer: BE**

**Explanation:**

B: Azure Cosmos DB is the globally distributed, multimodel database service from Microsoft for mission-critical applications. It is a multimodel database and supports document, key-value, graph, and columnar data models.

E: Wide-column stores store data together as columns instead of rows and are optimized for queries over large datasets. The most popular are Cassandra and HBase.

References:

<https://docs.microsoft.com/en-us/azure/cosmos-db/graph-introduction> <https://www.mongodb.com/scale/types-of-nosql-databases>

**NEW QUESTION 73**

- (Exam Topic 3)

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

You need to implement the Azure SQL Database elastic pool to minimize cost. Which option or options should you configure?

- A. Number of transactions only
- B. eDTUs per database only
- C. Number of databases only
- D. CPU usage only
- E. eDTUs and max data size

**Answer: E**

**Explanation:**

The best size for a pool depends on the aggregate resources needed for all databases in the pool. This involves determining the following:

- Maximum resources utilized by all databases in the pool (either maximum DTUs or maximum vCores depending on your choice of resourcing model).
- Maximum storage bytes utilized by all databases in the pool.

Note: Elastic pools enable the developer to purchase resources for a pool shared by multiple databases to accommodate unpredictable periods of usage by individual databases. You can configure resources for the pool based either on the DTU-based purchasing model or the vCore-based purchasing model.

References:

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-elastic-pool>

**NEW QUESTION 75**

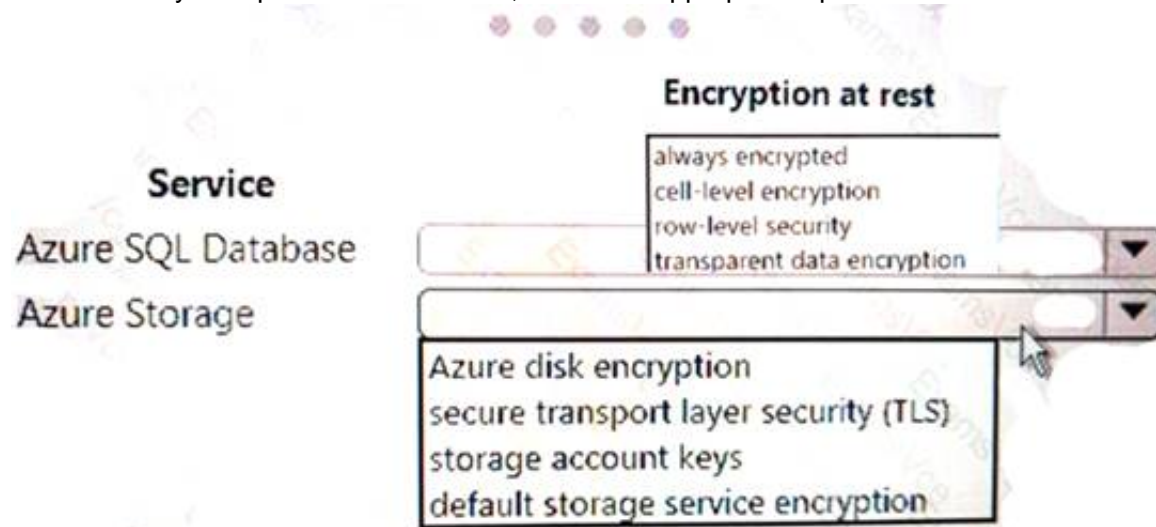
- (Exam Topic 3)

Your company uses Azure SQL Database and Azure Blob storage.

All data at rest must be encrypted by using the company's own key. The solution must minimize administrative effort and the impact to applications which use the database.

You need to configure security.

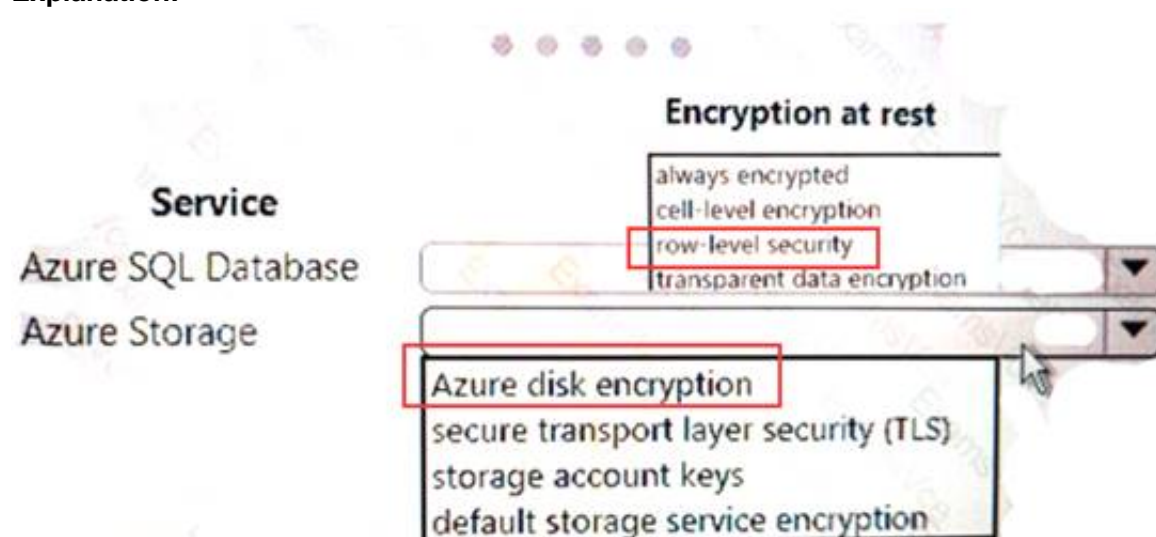
What should you implement? To answer, select the appropriate option in the answer area. NOTE: Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**





NEW QUESTION 78

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