

## DP-200 Dumps

### Implementing an Azure Data Solution

<https://www.certleader.com/DP-200-dumps.html>



### NEW QUESTION 1

- (Exam Topic 1)

You need to provision the polling data storage account.

How should you configure the storage account? To answer, drag the appropriate Configuration Value to the correct Setting. Each Configuration Value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

### NEW QUESTION 2

- (Exam Topic 1)

You need to ensure that phone-based poling 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 3

- (Exam Topic 1)

You need to ensure polling data security requirements are met.

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

NOTE: Each correct selection is worth one point.

Context	Security technology				
SQL Server	<table border="1"> <tr> <td>Azure Active Directory user</td> <td rowspan="3">✓</td> </tr> <tr> <td>Domain Active Directory user</td> </tr> <tr> <td>Managed Identity</td> </tr> </table>	Azure Active Directory user	✓	Domain Active Directory user	Managed Identity
Azure Active Directory user	✓				
Domain Active Directory user					
Managed Identity					
PolyBase	<table border="1"> <tr> <td>Database scoped credential</td> <td rowspan="3">✓</td> </tr> <tr> <td>Database encryption key</td> </tr> <tr> <td>Application role</td> </tr> </table>	Database scoped credential	✓	Database encryption key	Application role
Database scoped credential	✓				
Database encryption key					
Application role					

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Azure Active Directory user Scenario:

Access to polling data must set on a per-active directory user basis

Box 2: DataBase Scoped Credential

SQL Server uses a database scoped credential to access non-public Azure blob storage or Kerberos-secured Hadoop clusters with PolyBase.

PolyBase cannot authenticate by using Azure AD authentication. References:

<https://docs.microsoft.com/en-us/sql/t-sql/statements/create-database-scoped-credential-transact-sql>

**NEW QUESTION 4**

- (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 5**

- (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 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

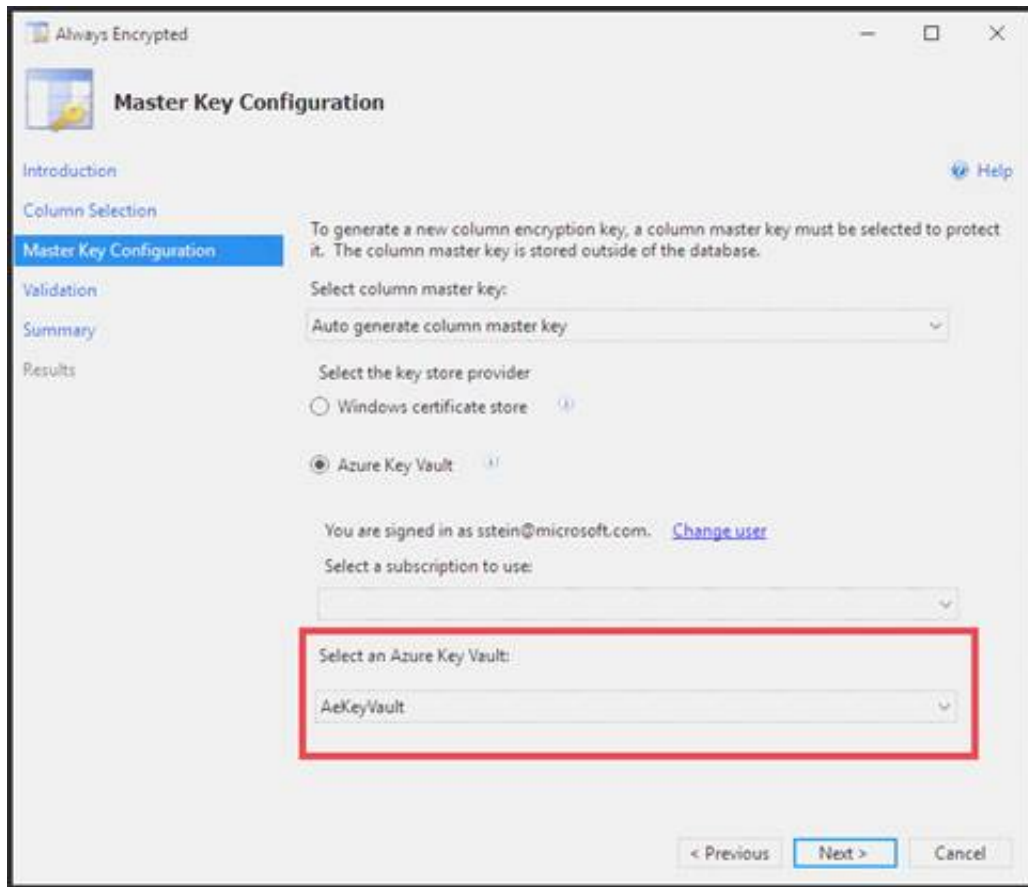
**Answer:** B

**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 6

- (Exam Topic 2)

You need to mask tier 1 data. Which functions should you use? To answer, select the appropriate option in the answer area.

NOTE: Each correct selection is worth one point.

Data type	Masking function					
A	<table border="1"> <tr><td>custom text</td><td rowspan="4">V</td></tr> <tr><td>default</td></tr> <tr><td>email</td></tr> <tr><td>random number</td></tr> </table>	custom text	V	default	email	random number
custom text	V					
default						
email						
random number						
B	<table border="1"> <tr><td>custom text</td><td rowspan="4">V</td></tr> <tr><td>default</td></tr> <tr><td>email</td></tr> <tr><td>random number</td></tr> </table>	custom text	V	default	email	random number
custom text	V					
default						
email						
random number						
C	<table border="1"> <tr><td>custom text</td><td rowspan="4">V</td></tr> <tr><td>default</td></tr> <tr><td>email</td></tr> <tr><td>random number</td></tr> </table>	custom text	V	default	email	random number
custom text	V					
default						
email						
random number						

- A. Mastered
- B. Not Mastered

**Answer: A**

#### Explanation:

A: Default

Full masking according to the data types of the designated fields.

For string data types, use XXXX or fewer Xs if the size of the field is less than 4 characters (char, nchar, varchar, nvarchar, text, ntext).

B: email

C: Custom text

Custom StringMasking method which exposes the first and last letters and adds a custom padding string in the middle. prefix,[padding],suffix

Tier 1 Database must implement data masking using the following masking logic:

Data type	Masking requirement
A	Mask 4 or less string data type characters
B	Mask first letter and domain
C	Mask everything except characters at the beginning and end

References:

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

### NEW QUESTION 7

- (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 8

- (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 9

- (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 10

- (Exam Topic 3)

You manage a solution that uses Azure HDInsight clusters.

You need to implement a solution to monitor cluster performance and status. Which technology should you use?

- A. Azure HDInsight .NET SDK
- B. Azure HDInsight REST API
- C. Ambari REST API
- D. Azure Log Analytics
- E. Ambari Web UI

**Answer:** E

#### Explanation:

Ambari is the recommended tool for monitoring utilization across the whole cluster. The Ambari dashboard shows easily glanceable widgets that display metrics such as CPU, network, YARN memory, and HDFS disk usage. The specific metrics shown depend on cluster type. The “Hosts” tab shows metrics for individual nodes so you can ensure the load on your cluster is evenly distributed.

The Apache Ambari project is aimed at making Hadoop management simpler by developing software for provisioning, managing, and monitoring Apache Hadoop clusters. Ambari provides an intuitive, easy-to-use Hadoop management web UI backed by its RESTful APIs.

References:

<https://azure.microsoft.com/en-us/blog/monitoring-on-hdinsight-part-1-an-overview/> <https://ambari.apache.org/>

### NEW QUESTION 10

- (Exam Topic 3)

You plan to use Microsoft Azure SQL Database instances with strict user access control. A user object must:

- ☒ Move with the database if it is run elsewhere
- ☒ Be able to create additional users

You need to create the user object with correct permissions.

Which two Transact-SQL commands should you run? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. ALTER LOGIN Mary WITH PASSWORD = 'strong\_password';
- B. CREATE LOGIN Mary WITH PASSWORD = 'strong\_password';
- C. ALTER ROLE db\_owner ADD MEMBER Mary;
- D. CREATE USER Mary WITH PASSWORD = 'strong\_password';
- E. GRANT ALTER ANY USER TO Mary;

**Answer:** CD

#### Explanation:

C: ALTER ROLE adds or removes members to or from a database role, or changes the name of a user-defined database role.

Members of the db\_owner fixed database role can perform all configuration and maintenance activities on the database, and can also drop the database in SQL Server.

D: CREATE USER adds a user to the current database.

Note: Logins are created at the server level, while users are created at the database level. In other words, a login allows you to connect to the SQL Server service (also called an instance), and permissions inside the database are granted to the database users, not the logins. The logins will be assigned to server roles (for example, serveradmin) and the database users will be assigned to roles within that database (eg. db\_datareader, db\_backupoperator).

References:

<https://docs.microsoft.com/en-us/sql/t-sql/statements/alter-role-transact-sql> <https://docs.microsoft.com/en-us/sql/t-sql/statements/create-user-transact-sql>

### NEW QUESTION 14

- (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 18**

- (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.

**Actions**

- 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.
- Create a new Azure Data Lake Storage account with encryption disabled.

**Answer Area**

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

**Actions**

- 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.
- Create a new Azure Data Lake Storage account with encryption disabled.

**Answer Area**

- 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.
- Create a new Azure Data Lake Storage account with encryption disabled.

**NEW QUESTION 22**

- (Exam Topic 3)

Your company uses several Azure HDInsight clusters.

The data engineering team reports several errors with some application using these clusters. You need to recommend a solution to review the health of the clusters.

What should you include in you recommendation?



- A. Azure Automation
- B. Log Analytics
- C. Application Insights

**Answer:** C

#### 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 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: Configure Azure Data Lake Storage diagnostics to store logs and metrics in a storage account. Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** A

#### NEW QUESTION 29

- (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

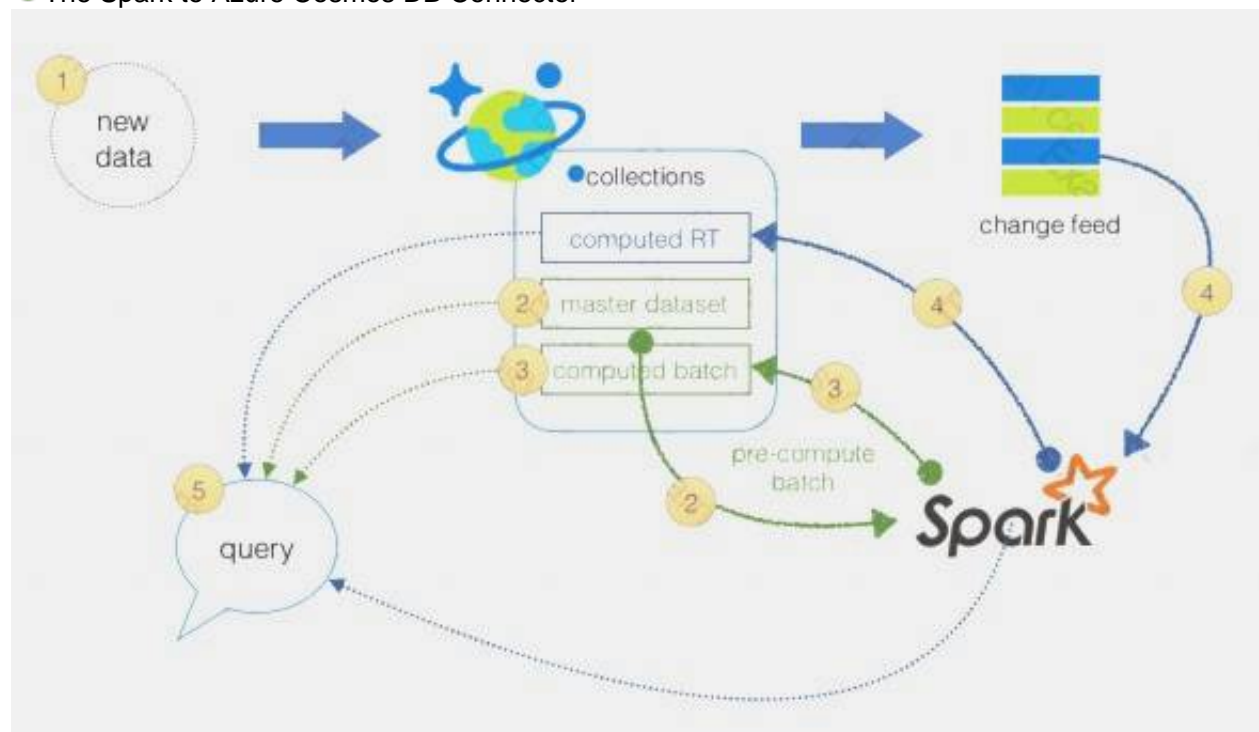
**Answer:** D

#### 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 30

- (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.	<div> <div>HDInsight Tools for Visual Studio</div> <div>Hive View</div> <div>HDInsight REST API</div> <div>Azure Data Factory</div> </div>
Use a web browser to run interactive queries and batch processes.	<div> <div>HDInsight Tools for Visual Studio</div> <div>Hive View</div> <div>HDInsight REST API</div> <div>Azure PowerShell</div> </div>
Develop batch processing applications that use Azure HDInsight.	<div> <div>HDInsight Tools for Visual Studio</div> <div>Hive View</div> <div>HDInsight REST API</div> <div>NoSQL database</div> </div>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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

### NEW QUESTION 35

- (Exam Topic 3)

A company uses Azure SQL Database to store sales transaction data. Field sales employees need an offline copy of the database that includes last year's sales on their laptops when there is no internet connection available.

You need to create the offline export copy.

Which three options can you use? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Export to a BACPAC file by using Azure Cloud Shell, and save the file to an Azure storage account
- B. Export to a BACPAC file by using SQL Server Management Studio
- C. Save the file to an Azure storage account
- D. Export to a BACPAC file by using the Azure portal
- E. Export to a BACPAC file by using Azure PowerShell and save the file locally
- F. Export to a BACPAC file by using the SqlPackage utility

**Answer:** BCE

### NEW QUESTION 40

- (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 clusters by using Azure Log Analytics and HDInsight cluster management solutions. Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** A

**Explanation:**

HDInsight provides cluster-specific management solutions that you can add for Azure Monitor logs. Management solutions add functionality to Azure Monitor logs, providing additional data and analysis tools. These solutions collect important performance metrics from your HDInsight clusters and provide the tools to search the metrics. These solutions also provide visualizations and dashboards for most cluster types supported in HDInsight. By using the metrics that you collect with the solution, you can create custom monitoring rules and alerts.

**NEW QUESTION 42**

- (Exam Topic 3)

An application will use Microsoft Azure Cosmos DB as its data solution. The application will use the Cassandra API to support a column-based database type that uses containers to store items.

You need to provision Azure Cosmos DB. Which container name and item name should you use? Each correct answer presents part of the solutions.

NOTE: Each correct answer selection is worth one point.

- A. table
- B. collection
- C. graph
- D. entities
- E. rows

**Answer:** AE

**Explanation:**

Depending on the choice of the API, an Azure Cosmos item can represent either a document in a collection, a row in a table or a node/edge in a graph. The following table shows the mapping between API-specific entities to an Azure Cosmos item:

Cosmos entity	SQL API	Cassandra API	Azure Cosmos DB's API for MongoDB	Gremlin API	Table API
Azure Cosmos item	Document	Row	Document	Node or Edge	Item

An Azure Cosmos container is specialized into API-specific entities as follows:

Azure Cosmos entity	SQL API	Cassandra API	Azure Cosmos DB's API for MongoDB	Gremlin API	Table API
Azure Cosmos container	Collection	Table	Collection	Graph	Table

References:

<https://docs.microsoft.com/en-us/azure/cosmos-db/databases-containers-items>

**NEW QUESTION 45**

- (Exam Topic 3)

You develop data engineering solutions for a company. You must migrate data from Microsoft Azure Blob storage to an Azure SQL Data Warehouse for further transformation. You need to implement the solution.

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

Provision an Azure SQL Data Warehouse instance.

Connect to the Blob storage container by using SQL Server Management Studio.

Provision an Azure Blob storage container.

Run Transact-SQL statements to load data.

Connect to the Azure SQL Data Warehouse by using SQL Server Management Studio.

Build external tables by using Azure portal.

Build external tables by using SQL Server Management Studio.

Answer Area

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Step 1: Provision an Azure SQL Data Warehouse instance. Create a data warehouse in the Azure portal.  
Step 2: Connect to the Azure SQL Data warehouse by using SQL Server Management Studio Connect to the data warehouse with SSMS (SQL Server Management Studio)  
Step 3: Build external tables by using the SQL Server Management Studio

Create external tables for data in Azure blob storage.

You are ready to begin the process of loading data into your new data warehouse. You use external tables to load data from the Azure storage blob.

Step 4: Run Transact-SQL statements to load data.

You can use the CREATE TABLE AS SELECT (CTAS) T-SQL statement to load the data from Azure Storage Blob into new tables in your data warehouse.

References:

<https://github.com/MicrosoftDocs/azure-docs/blob/master/articles/sql-data-warehouse/load-data-from-azure-blo>

#### NEW QUESTION 46

- (Exam Topic 3)

You develop data engineering solutions for a company. An application creates a database on Microsoft Azure. You have the following code:

Which database and authorization types are used? To answer, select the appropriate option in the answer area.

NOTE: Each correct selection is worth one point.

**Answer Area**

Component	Technology
Azure database type	Azure Cosmos DB
	Azure SQL Database
	files
	Blob
Key type	resource token
	Master key
	certificate

- A. Mastered
- B. Not Mastered

**Answer: A**

#### Explanation:

Box 1: Azure Cosmos DB

The DocumentClient.CreateDatabaseAsync(Database, RequestOptions) method creates a database resource as an asynchronous operation in the Azure Cosmos DB service.

Box 2: Master Key

Azure Cosmos DB uses two types of keys to authenticate users and provide access to its data and resources: Master Key, Resource Tokens

Master keys provide access to the all the administrative resources for the database account. Master keys: Provide access to accounts, databases, users, and permissions.

- Cannot be used to provide granular access to containers and documents.
- Are created during the creation of an account.
- Can be regenerated at any time.

#### NEW QUESTION 51

- (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 53

- (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 57**

- (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 58**

- (Exam Topic 3)

You plan to create a new single database instance of Microsoft Azure SQL Database.

The database must only allow communication from the data engineer's workstation. You must connect directly to the instance by using Microsoft SQL Server Management Studio.

You need to create and configure the Database. Which three Azure PowerShell cmdlets should you use to develop the solution? To answer, move the appropriate cmdlets from the list of cmdlets to the answer area and arrange them in the correct order.

Azure PowerShell cmdlets	Answer Area
New-AzureRmSqlElasticPool	
New-AzureRmSqlServerFirewallRule	
New-AzureRmSqlServer	
New-AzureRmSqlServerVirtualNetworkRule	
New-AzureRmSqlDatabase	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Step 1: New-AzureSqlServer Create a server.

Step 2: New-AzureRmSqlServerFirewallRule

New-AzureRmSqlServerFirewallRule creates a firewall rule for a SQL Database server. Can be used to create a server firewall rule that allows access from the specified IP range. Step 3: New-AzureRmSqlDatabase

Example: Create a database on a specified server

PS C:\>New-AzureRmSqlDatabase -ResourceGroupName "ResourceGroup01" -ServerName "Server01"

-DatabaseName "Database01"

References:

<https://docs.microsoft.com/en-us/azure/sql-database/scripts/sql-database-create-and-configure-database-powersh>

**NEW QUESTION 62**

- (Exam Topic 3)

A company builds an application to allow developers to share and compare code. The conversations, code snippets, and links shared by people in the application are stored in a Microsoft Azure SQL Database instance. The application allows for searches of historical conversations and code snippets.

When users share code snippets, the code snippet is compared against previously share code snippets by using a combination of Transact-SQL functions including SUBSTRING, FIRST\_VALUE, and SQRT. If a match is found, a link to the match is added to the conversation.

Customers report the following issues:

- Delays occur during live conversations
- A delay occurs before matching links appear after code snippets are added to conversations

You need to resolve the performance issues.

Which technologies should you use? To answer, drag the appropriate technologies to the correct issues. Each technology may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.



Technologies	Answer Area	
	Issue	Technology
columnstore index	Delays in conversations	
non-durable table	Delays in match links	
materialized view		
memory-optimized table		

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: memory-optimized table

In-Memory OLTP can provide great performance benefits for transaction processing, data ingestion, and transient data scenarios.

Box 2: materialized view

To support efficient querying, a common solution is to generate, in advance, a view that materializes the data in a format suited to the required results set. The Materialized View pattern describes generating prepopulated views of data in environments where the source data isn't in a suitable format for querying, where generating a suitable query is difficult, or where query performance is poor due to the nature of the data or the data store.

These materialized views, which only contain data required by a query, allow applications to quickly obtain the information they need. In addition to joining tables or combining data entities, materialized views can include the current values of calculated columns or data items, the results of combining values or executing transformations on the data items, and values specified as part of the query. A materialized view can even be optimized for just a single query.

References:

<https://docs.microsoft.com/en-us/azure/architecture/patterns/materialized-view>

**NEW QUESTION 63**

- (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 a workload group using the Azure storage account name as the pool name
3. Load the data using the INSERT...SELECT statement

Does the solution meet the goal?

- A. Yes  
B. No

**Answer:** B

**Explanation:**

You need to create an external file format and external table using the external data source. You then 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 68**

- (Exam Topic 3)

You implement 3 Azure SQL Data Warehouse instance.

You plan to migrate the largest fact table to Azure SQL Data Warehouse The table resides on Microsoft SQL Server on-premises and e 10 terabytes (TB) in size.

Incoming queues use the primary key Sale Key column to retrieve data as displayed in the following table:

SaleKey	CityKey	CustomerKey	StockItemKey	InvoiceDateKey	Quantity	UnitPrice	TotalExcludingTax
49309	90858	70	69	10/22/13	8	16	128
49313	55710	126	69	10/22/13	2	16	32
49343	44710	234	68	10/22/13	10	16	160
49352	66109	163	70	10/22/13	4	16	64
49448	65312	230	70	10/22/13	8	16	128
49646	85877	271	70	10/24/13	1	16	16
49798	41238	288	69	10/24/13	1	16	16

You need to distribute the fact table across multiple nodes to optimize performance of the table. Which technology should you use?

- A. hash distributed table with clustered ColumnStore index  
B. hash distributed table with clustered index  
C. heap table with distribution replicate  
D. round robin distributed table with clustered index  
E. round robin distributed table with clustered ColumnStore index

**Answer:** A

**NEW QUESTION 70**

- (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 72**

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