



Microsoft

Exam Questions DP-200

Implementing an Azure Data Solution

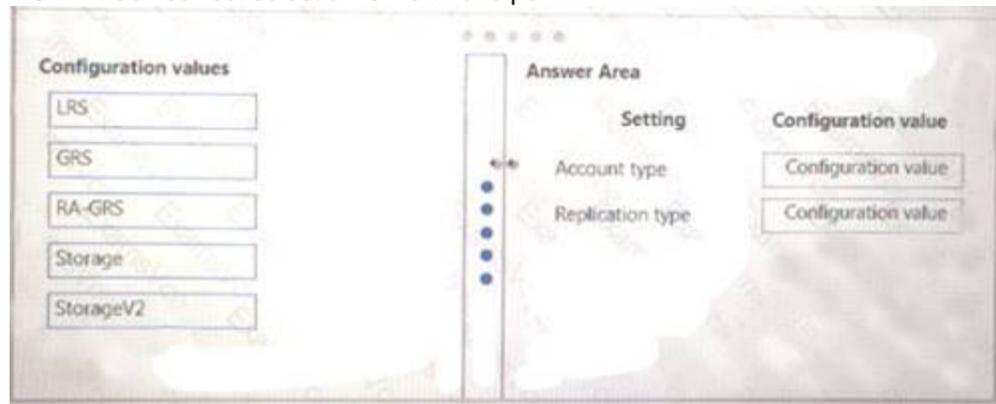
NEW QUESTION 1

- (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.

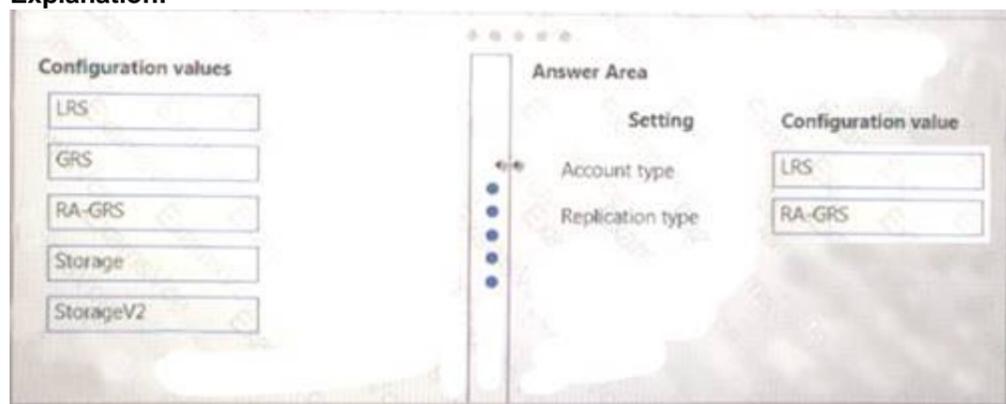
NOTE: Each correct selection is worth one point.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

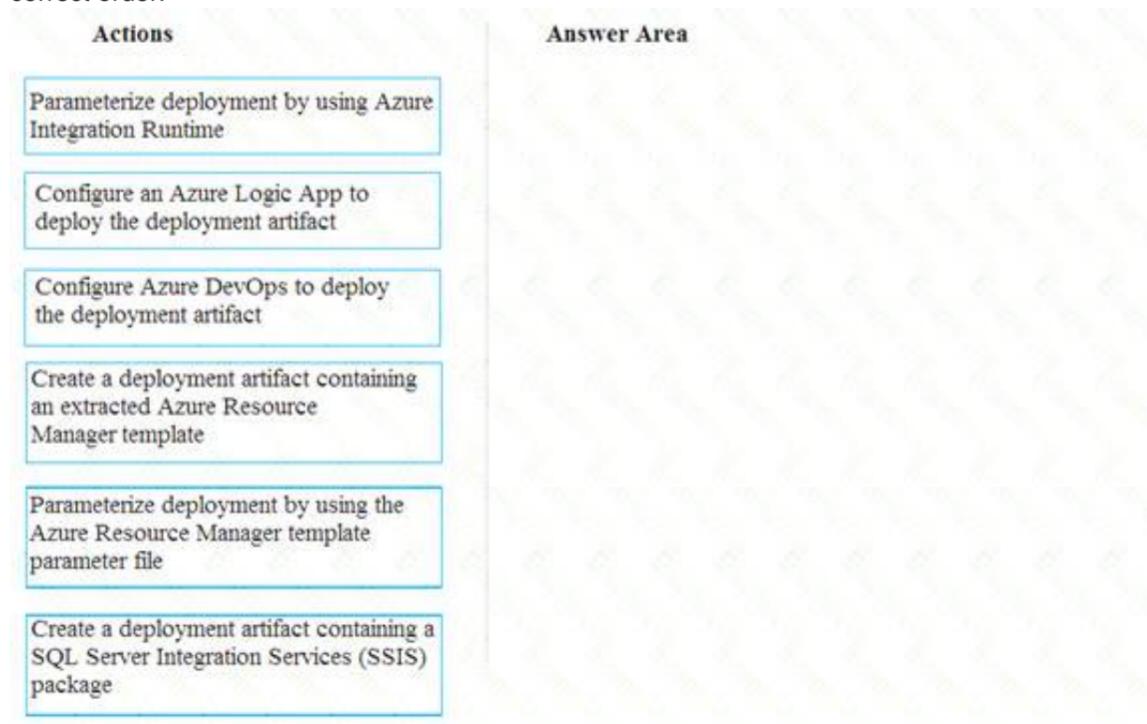


NEW QUESTION 2

- (Exam Topic 1)

You need to ensure that phone-based polling data can be analyzed in the PollingData 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.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Create a deployment artifact containing an extracted Azure Resource Manager template

Parameterize deployment by using the Azure Resource Manager template parameter file

Configure Azure DevOps to deploy the deployment artifact

Scenario:

All deployments must be performed by using Azure DevOps. Deployments must use templates used in multiple environments
 No credentials or secrets should be used during deployments

NEW QUESTION 3

- (Exam Topic 1)

You need to ensure that Azure Data Factory pipelines can be deployed. How should you configure authentication and authorization for deployments? To answer, select the appropriate options in the answer choices.

NOTE: Each correct selection is worth one point.

Security requirement	Technology					
Authorization	<table border="1"> <tr><td>RBAC</td><td rowspan="4">v</td></tr> <tr><td>DAC</td></tr> <tr><td>MAC</td></tr> <tr><td>Claims</td></tr> </table>	RBAC	v	DAC	MAC	Claims
RBAC	v					
DAC						
MAC						
Claims						
Authentication	<table border="1"> <tr><td>Service Principal</td><td rowspan="4">^</td></tr> <tr><td>Kerberos</td></tr> <tr><td>Certificate-based</td></tr> <tr><td>Bearer Token</td></tr> </table>	Service Principal	^	Kerberos	Certificate-based	Bearer Token
Service Principal	^					
Kerberos						
Certificate-based						
Bearer Token						

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

The way you control access to resources using RBAC is to create role assignments. This is a key concept to understand – it’s how permissions are enforced. A role assignment consists of three elements: security principal, role definition, and scope.

Scenario:

No credentials or secrets should be used during deployments

Phone-based poll data must only be uploaded by authorized users from authorized devices Contractors must not have access to any polling data other than their own

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

<https://docs.microsoft.com/en-us/azure/role-based-access-control/overview>

NEW QUESTION 4

- (Exam Topic 1)

You need to ensure phone-based polling data upload reliability requirements are met. How should you configure monitoring? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Setting	Value				
Metric	<table border="1"> <tr><td>FileCount</td><td rowspan="3"></td></tr> <tr><td>BlobCapacity</td></tr> <tr><td>FileCapacity</td></tr> </table>	FileCount		BlobCapacity	FileCapacity
FileCount					
BlobCapacity					
FileCapacity					
Aggregation	<table border="1"> <tr><td>Avg</td><td rowspan="2"></td></tr> <tr><td>Sum</td></tr> </table>	Avg		Sum	
Avg					
Sum					

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: FileCapacity

FileCapacity is the amount of storage used by the storage account's File service in bytes. Box 2: Avg

The aggregation type of the FileCapacity metric is Avg.

Scenario:

All services and processes must be resilient to a regional Azure outage.

All Azure services must be monitored by using Azure Monitor. On-premises SQL Server performance must be monitored.

References:

<https://docs.microsoft.com/en-us/azure/azure-monitor/platform/metrics-supported>

NEW QUESTION 5

- (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:

- 1. Create a Kafka enabled Event Hubs namespace.
- 2. Create a Kafka client that sends messages to the event hub.
- 3. 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
---------------------------------	---	--------------------------------	-------------------------------------

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 6

- (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 Deterministic
4. Configure the master key to use the Azure Key Vault
5. Validate configuration results and deploy the solution Does the solution meet the goal?

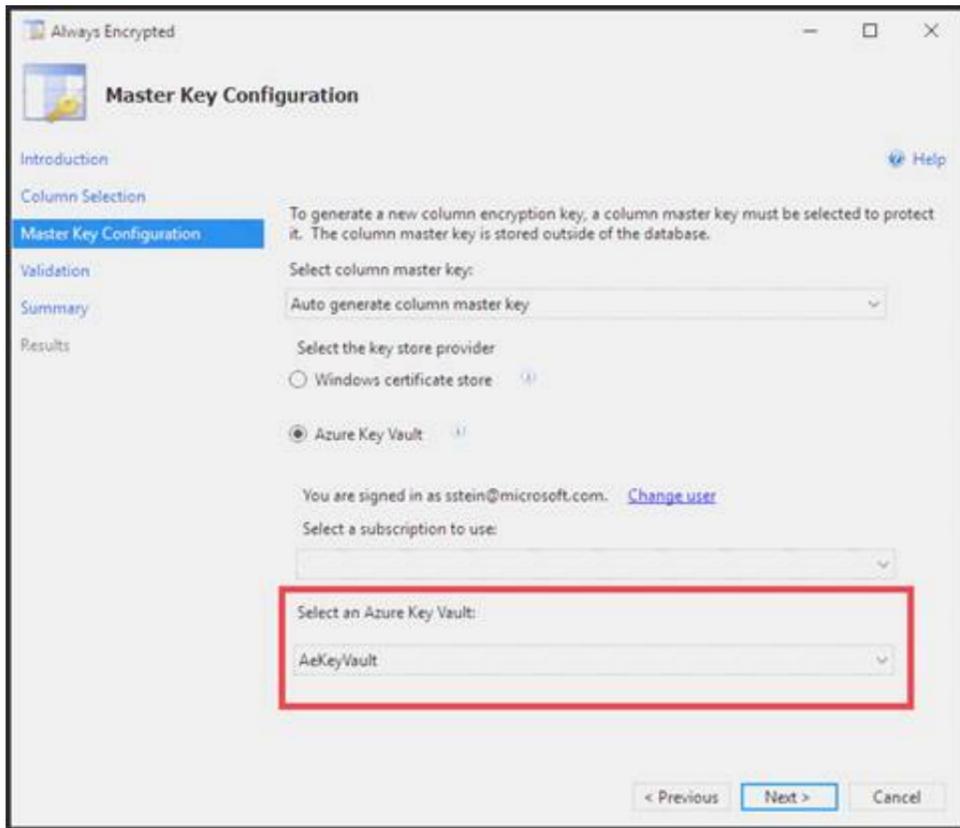
- A. Yes
- B. No

Answer: A

Explanation:

We 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 7

- (Exam Topic 3)

A company is planning to use Microsoft Azure Cosmos DB as the data store for an application. You have the following Azure CLI command:

```
az cosmosdb create --name "cosmosdbdev1" --resource-group "rgdev"
```

You need to minimize latency and expose the SQL API. How should you complete the command? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Parameter	Value								
--default-consistency-level	<table border="1"> <tr><td>Strong</td><td><input checked="" type="checkbox"/></td></tr> <tr><td>Session</td><td><input type="checkbox"/></td></tr> <tr><td>Eventual</td><td><input type="checkbox"/></td></tr> <tr><td>Bounded staleness</td><td><input type="checkbox"/></td></tr> </table>	Strong	<input checked="" type="checkbox"/>	Session	<input type="checkbox"/>	Eventual	<input type="checkbox"/>	Bounded staleness	<input type="checkbox"/>
Strong	<input checked="" type="checkbox"/>								
Session	<input type="checkbox"/>								
Eventual	<input type="checkbox"/>								
Bounded staleness	<input type="checkbox"/>								
--kind	<table border="1"> <tr><td>Parse</td><td><input checked="" type="checkbox"/></td></tr> <tr><td>MongoDB</td><td><input type="checkbox"/></td></tr> <tr><td>GlobalDocumentDB</td><td><input type="checkbox"/></td></tr> </table>	Parse	<input checked="" type="checkbox"/>	MongoDB	<input type="checkbox"/>	GlobalDocumentDB	<input type="checkbox"/>		
Parse	<input checked="" type="checkbox"/>								
MongoDB	<input type="checkbox"/>								
GlobalDocumentDB	<input type="checkbox"/>								

- A. Mastered
- B. Not Mastered

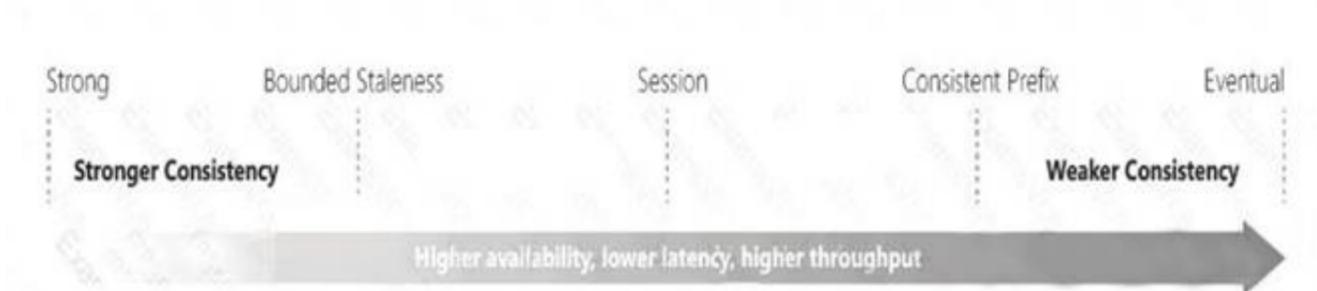
Answer: A

Explanation:

Box 1: Eventual

With Azure Cosmos DB, developers can choose from five well-defined consistency models on the consistency spectrum. From strongest to more relaxed, the models include strong, bounded staleness, session, consistent prefix, and eventual consistency.

The following image shows the different consistency levels as a spectrum.



Box 2: GlobalDocumentDB

Select Core(SQL) to create a document database and query by using SQL syntax.

Note: The API determines the type of account to create. Azure Cosmos DB provides five APIs: Core(SQL) and MongoDB for document databases, Gremlin for graph databases, Azure Table, and Cassandra.

References:

<https://docs.microsoft.com/en-us/azure/cosmos-db/consistency-levels> <https://docs.microsoft.com/en-us/azure/cosmos-db/create-sql-api-dotnet>

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)

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

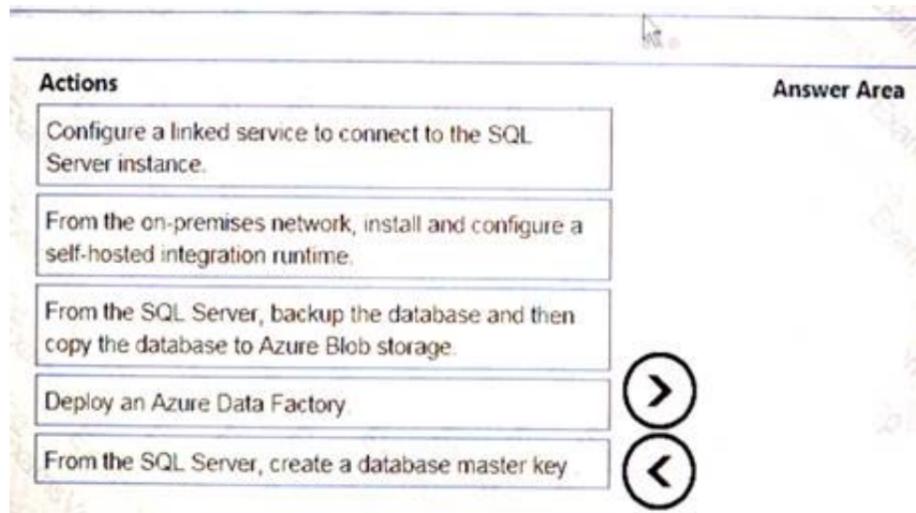
- (Exam Topic 3)

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.

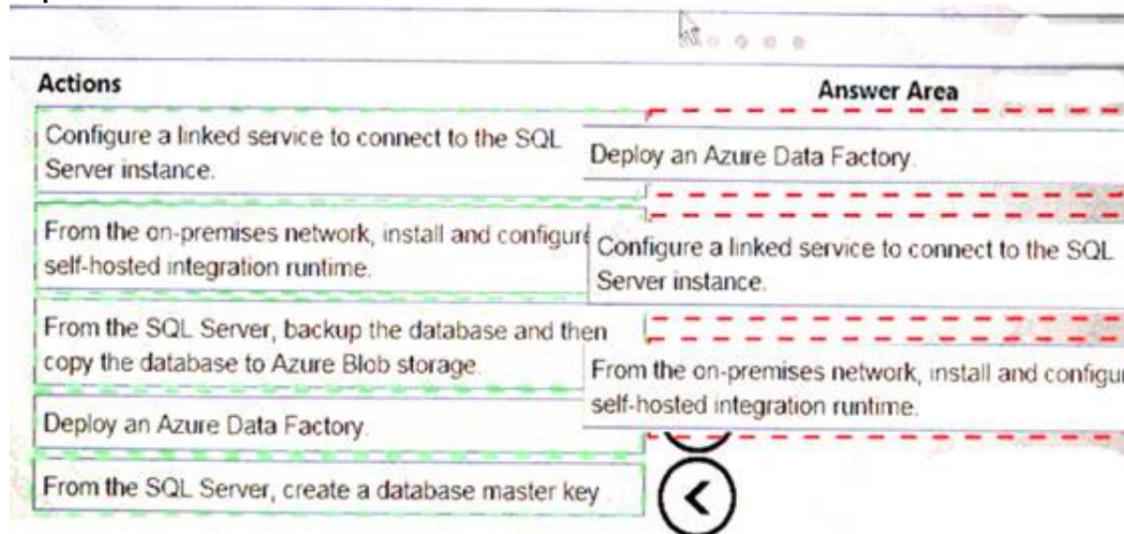
Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 11

- (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 Studi
- 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 12

- (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	RevoScaleR	V
	Apache Sqoop	
	Apache DistCp	
	Azure CLI	
Process	Apache DistCp	V
	Apache Kafka	
	C#	
	Apache Hive	
Download	Apache Sqoop	V
	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 13

- (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 14

- (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 15

- (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 16

- (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 17

- (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 18

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